

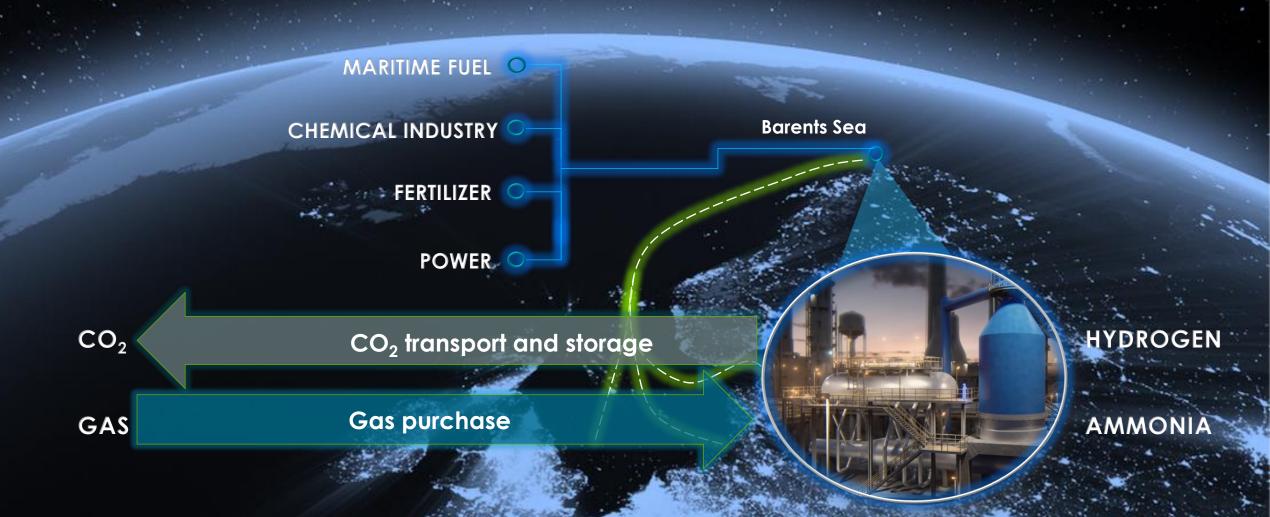
Barents Blue World-scale blue hydrogen and ammonia

Stavanger Energy Conference

Bjørgulf Haukelidsæter Eidesen, CEO Horisont Energi 25-26 August 2021



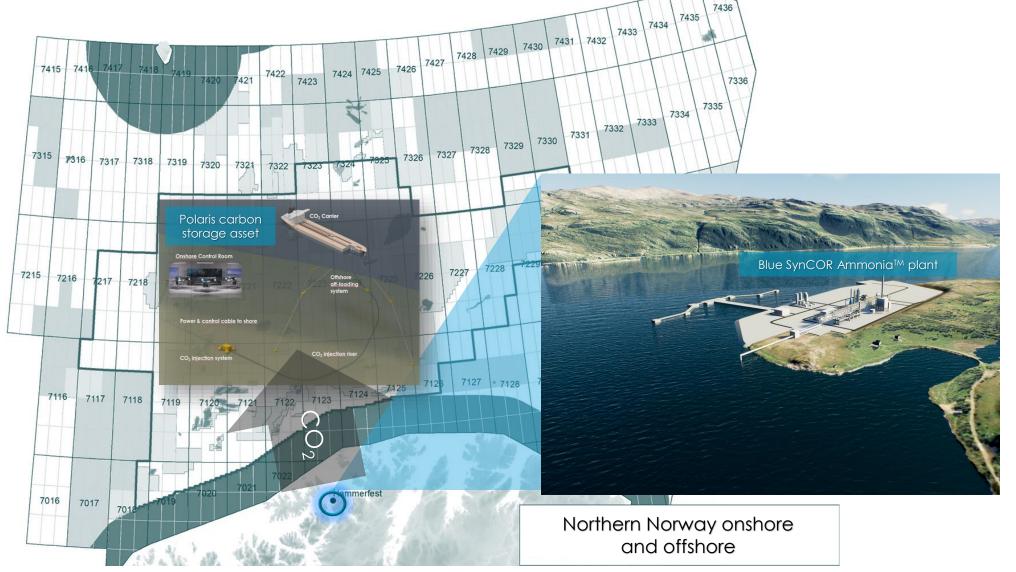
Project Barents Blue
World scale clean hydrogen and ammonia



Project Barents Blue



Value Chain





A clean ammonia plant for a sustainable future



Key project data

Location: Markoppneset, Finnmark, Norway

Start-up year: 2025

Gas supply: Melkøya LNG plant

Technology: Auto-thermal reforming (ATR)

End-product: Clean ammonia

Yearly production: Above 1 million tons

Yearly CO₂ storage: 2 million tons

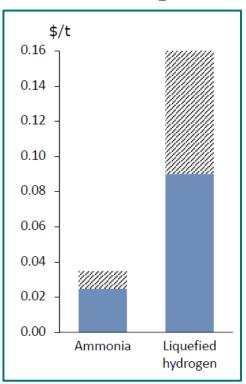
Future plans: train 2 and train 3



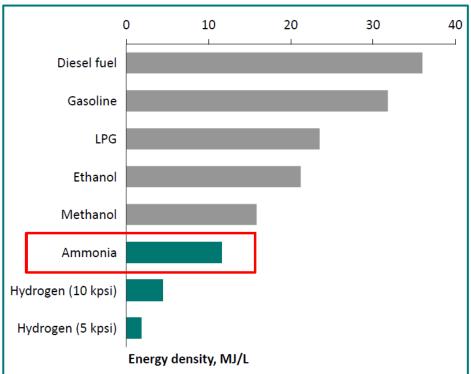


Ammonia is the most efficient H₂ carrier ...

Ship transport, USD/t km (in H₂)



Energy content for various fuels, MJ/L



Global ammonia terminal locations

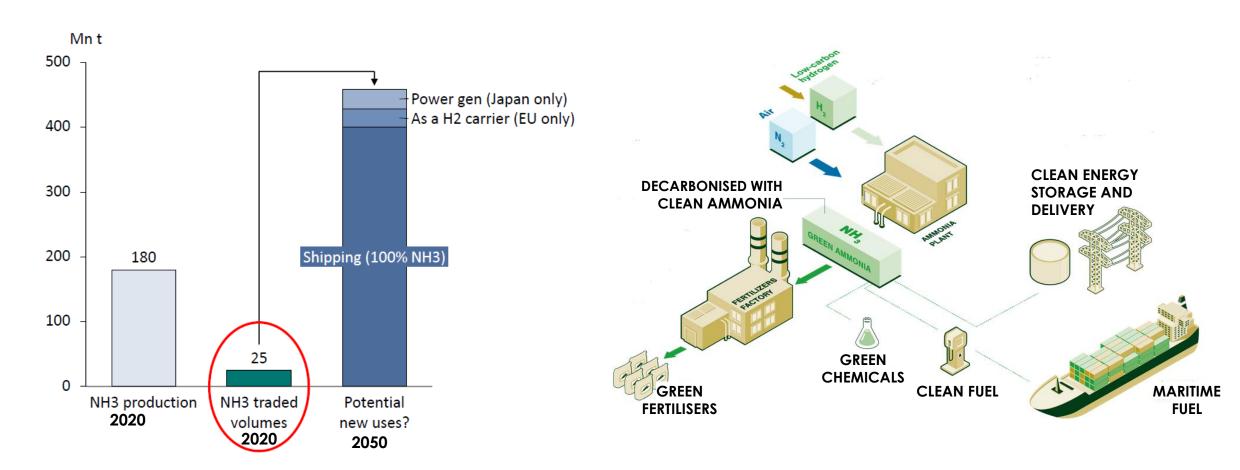


Ammonia is the second most used industrial gas globally, at 185 million ton/year

... and also well established



Potential new uses of clean ammonia



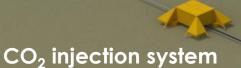


Polaris CO₂ Storage Asset

Onshore Control Room



Power & control cable to shore



Offshore off-loading system

CO₂ Carrier

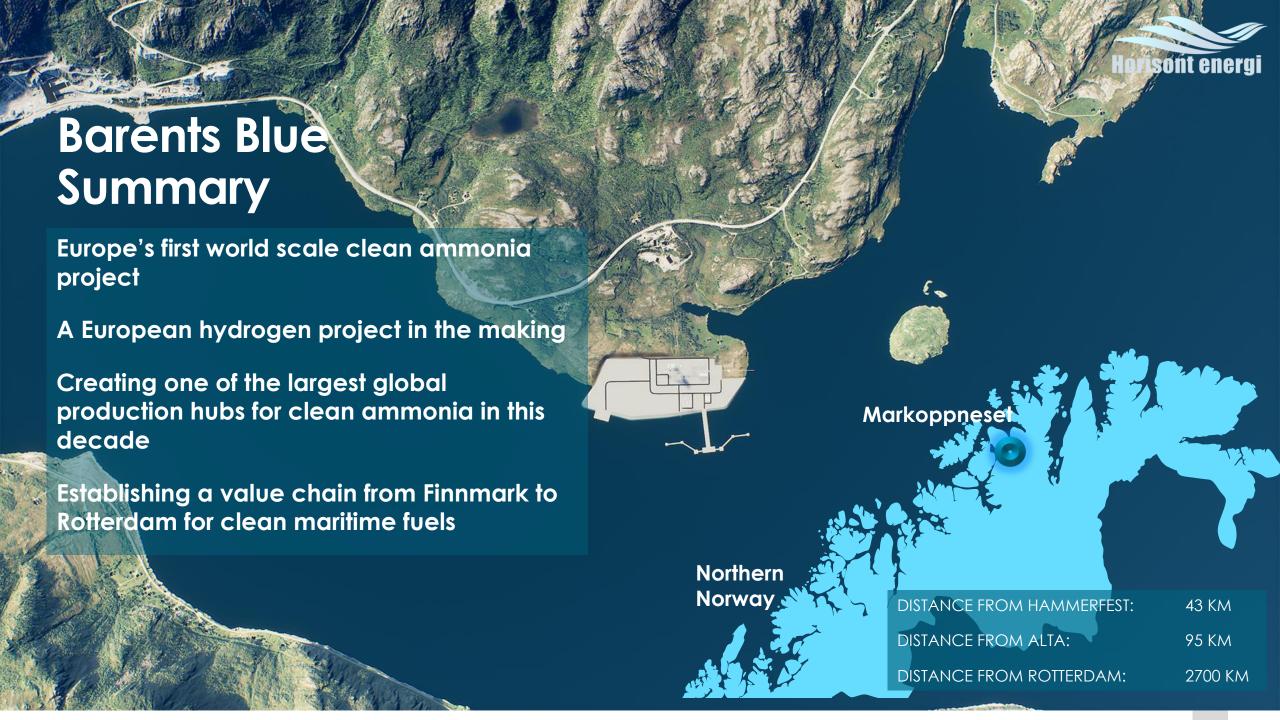
100 km off the coast

High quality reservoir

 2 million tons/yr CO₂ injection capacity in the first phase

 Over 100 million tons of estimated storage capacity

CO₂ injection riser





PROJECT BARENTS BLUE

