



Fearnley Securities

5th Annual Renewables & Clean-Tech Conference 2023

Leiv Kallestad, CFO Horisont Energi
29 November



Accelerating the transition to carbon neutrality

Clean energy
production

+

Carbon capture
and storage

A Norwegian clean energy and carbon capture and storage company



Founded 2019 with head office in Stavanger, Norway

Experienced and dedicated team of ~40 people

Pure play carbon storage & clean ammonia player
with leading industrial partners

Committed to accelerating the
energy transition

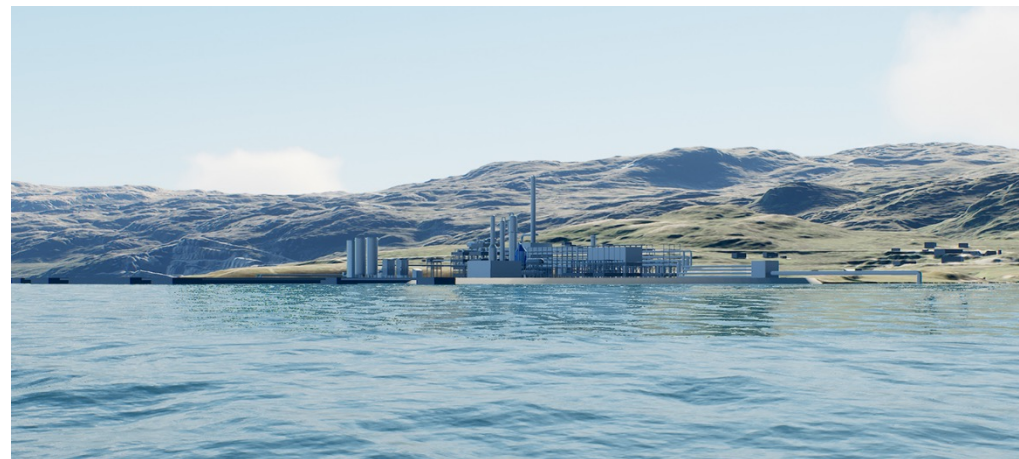
Industrial ownership with E.ON as
largest shareholder (25%)

FUNDING: Seed \$1M, Series A \$15M, Series B \$42M

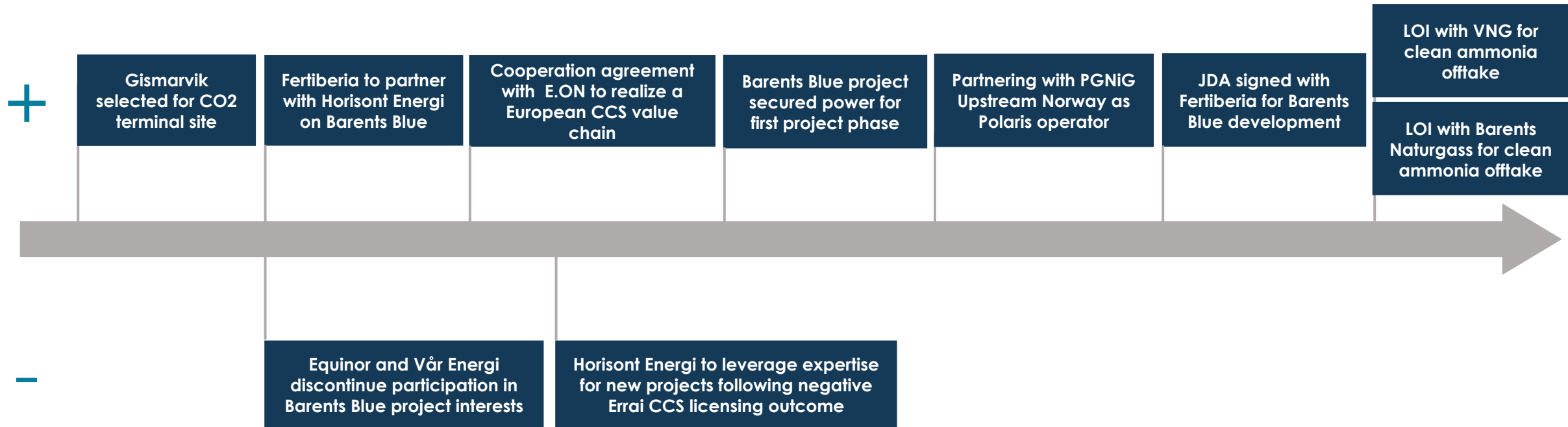
**CARBON
CAPTURE
AND
STORAGE**



**CLEAN
AMMONIA**



Navigating opportunities and challenges through 2023



Green growth companies in Oslo facing headwind

- Challenging conditions for several companies, as interest rates rise and cost of capital increases
- Reduced access to capital
- HRGI with runway through 2024



A clean ammonia and CCS value chain in the making

Barents Blue Clean ammonia



Development partner
Power supply
Offtake agreements
MNOK 482 IPCEI funding

Polaris CO₂ storage



On-boarding new operator
Key part of Barents Blue
Prepared for domestic and
European customers

Gismarvik CO₂ terminal



Annual capacity
up to 20-24 million tonnes
Power supply
CCS value chain enabler

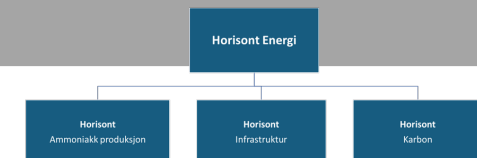
~110

MNOK market cap

242

MNOK cash Q3 23

Changes in the legal structure of the company structure



Clean ammonia



Highlights Barents Blue, clean ammonia

The project is part of the IPCEI hydrogen program, Hy2Use



“Best in class” CO₂
footprint - Scope 1, 2
and 3

99%

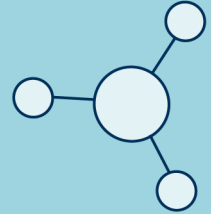
Above 99% CO₂
capture rate



Europe’s first world
scale clean ammonia
plant



Developing new, clean
industry in Northern
Norway



EU Taxonomy compliant
pursuant to delegated acts for
hydrogen and anhydrous
ammonia

Barents Blue Europe's first world scale clean ammonia plant

Combined with the Polaris CCS project, Barents Blue will offer a best-in-class lifecycle carbon footprint, with more than 99% CO₂ capture

- Located in Hammerfest, in the north of Norway
- Joint development agreement signed with the **Spanish ammonia specialist Fertiberia** for realization of the project
 - Focus is on the first production line (train) of 1 million tonnes/year of clean ammonia
 - Aligned on scope for the Concept Select milestone
 - Modifications at Melkøya studied with Aibel, and dialogue with Snøhvit established
- Interface activities for **Polaris CO₂ storage**, early study definition of a possible CO₂ terminal in connection with ammonia facilities
- Good progress in commercial aspects, for both feedstock and offtake
 - LOI with **VNG Handel & Vertrieb GmbH** for offtake of 100.000-300.000 tonnes/year
 - LOI with **Barents Naturgass AS** for offtake of 100.000 tonnes/year
- Secured sufficient power supply for the first stage of the project
- EU Taxonomy compliant pursuant to delegated acts for hydrogen and anhydrous ammonia
- Barents Blue has received conditional grant of **NOK 482 million from Enova**, as part of the IPCEI Hydrogen programme, Hy2Use



Key figures



2024/2025

Final investment decision



2028

Est. production start



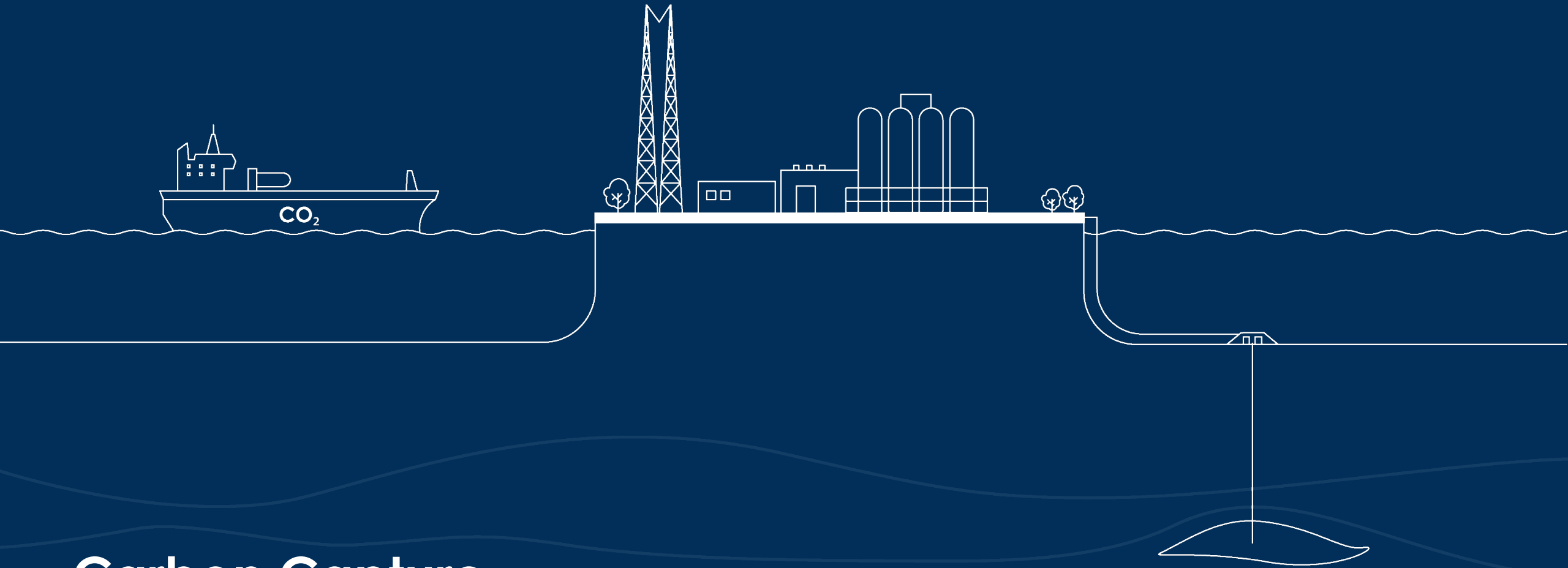
1m tonnes

Annual production by 2028/29



50%

Horisont Energi project share



Carbon Capture and Storage

Polaris carbon storage licence

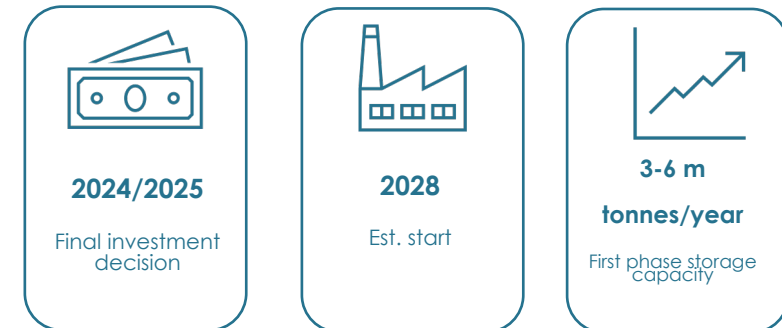
Polaris is a key part of the Barents Blue project with capacity for offer for CO₂ storage for Norwegian and European customers.

- Signed LOI with PGNiG Upstream Norway where the aim is to get the energy company to enter as partner and operator in the CO₂ licence by the end of 2023
 - This subject to approval from Norwegian authorities, and board approval from both companies
- The Polaris licence has performed well in the work obligations in the first phase of the licence programme
 - The work done includes 3D seismic reprocessing, feasibility studies for subsea and subsurface, concept studies, offshore surveys and operations
 - Horisont Energi have matured two main concepts tailored to CCS developments, the terminal and pipeline concept, and direct offshore injection from vessel to well.
- **Signed LOI with E.ON for storage of one million tonnes of CO₂ in Polaris**
- Polaris is an important project in the development of a CCS value chain in Northern Norway.

Project highlights

- The only CO₂ licence located in the Barents Sea
- Contributes to achieve significant emission reductions
- Developing a fit for purpose cost efficient storage asset
- Focus on sustainable and inherently safe solutions in design
- Safe and long-term sequestration of CO₂
- An important milestone in developing carbon storage as a major green industry in the north of Norway

Key figures



Gismarvik CO₂ terminal

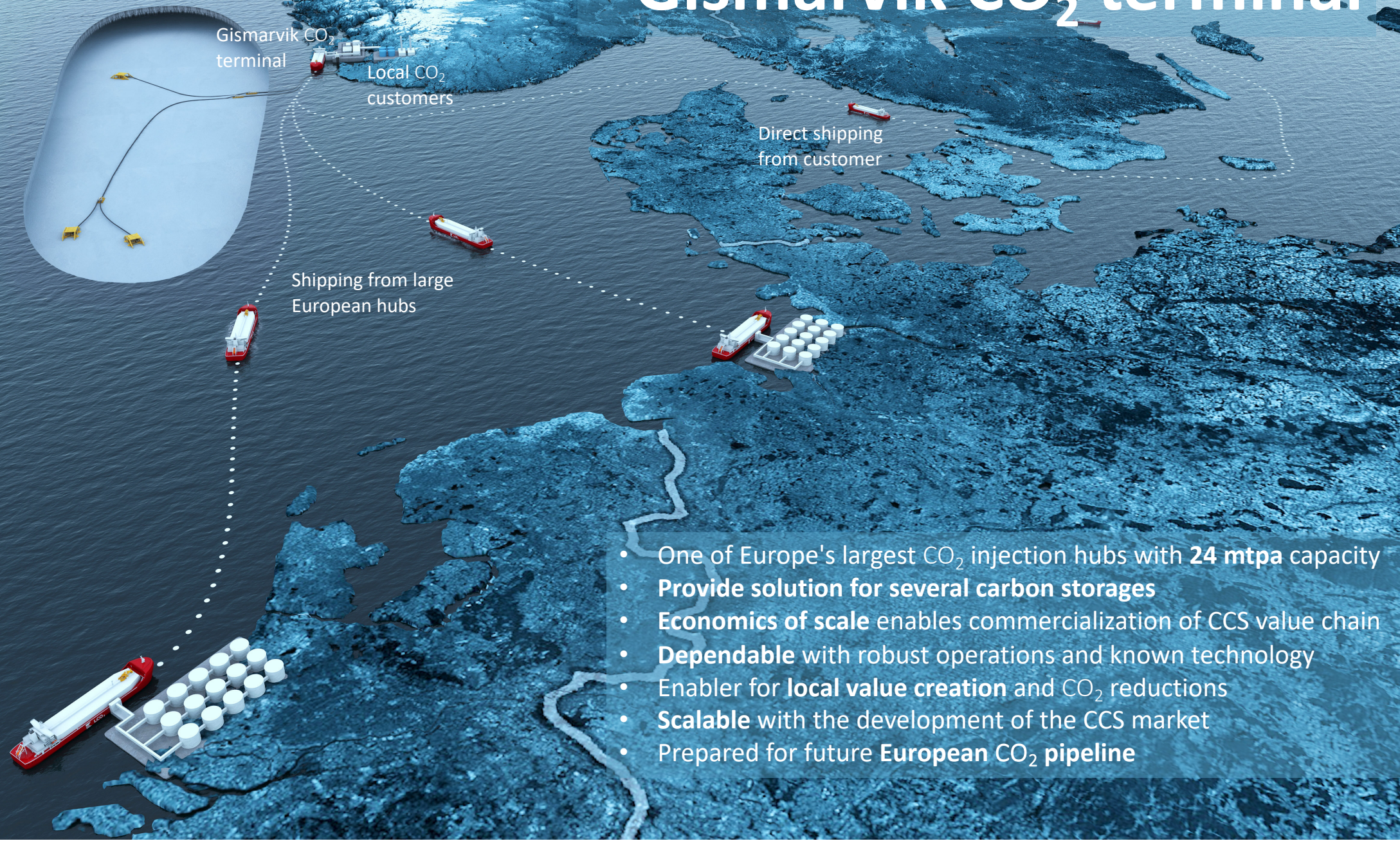
– strategic location in the southern part of Norway

The largest planned CO₂ terminal in Norway with an annual capacity of up to 20-24 million tonnes

- Signed Agreement in 2022 with Haugaland Industrial Park for a land-based CO₂ terminal planned at the deep-water port of Gismarvik
- The infrastructure is in place, with secured access to electricity, water, and sewage, and a large harbour basin with deep-sea quay
- Transport of CO₂ by pipeline for permanent storage under the seabed of the Norwegian Continental Shelf
- Goal of taking equity positions in carbon storage projects which can be connected to the Gismarvik CO₂ terminal
- The CO₂ terminal is designed to receive small and large volumes of CO₂ from domestic and European customers, arriving by ship or truck
- The ambition is to develop a European CCS value chain together with our partners E.ON and Koole Terminals.



Gismarvik CO₂ terminal



- One of Europe's largest CO₂ injection hubs with **24 mtpa** capacity
- **Provide solution for several carbon storages**
- **Economics of scale** enables commercialization of CCS value chain
- **Dependable** with robust operations and known technology
- Enabler for **local value creation** and CO₂ reductions
- **Scalable** with the development of the CCS market
- Prepared for future **European CO₂ pipeline**



Company highlights



1

Experienced and committed team

Advancing three strategic projects with high activity levels anticipating significant upcoming milestones. Cash position remains satisfactory and supports current activities going forward until the end of 2024.

2

Barents Blue | Clean ammonia project

Europe's first world-scale clean ammonia plant
Best-in-class life-cycle carbon footprint setting the standard for clean ammonia.

3

Polaris CO₂ licence | CCS

PGNIG to become partner and operator on Polaris by the end of the year (subject to approval from Norwegian authorities). New license applications in progress.

4

Establishing a CO₂ terminal at Gismarvik in the south part of Norway

Developing a European CCS value chain in cooperation with E.ON and Koole Terminals.



www.horisontenergi.no