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# Accelerating the transition to a carbon negative future

#### Pareto Securities' Power & Renewable Energy Conference

28 February 2023



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## Building a leading global carbon capture tech provider



Safe and energy-efficient carbon capture technologies developed and commercialised since 2003



Our technologies are licensed out, either directly to customers or through global distribution partners

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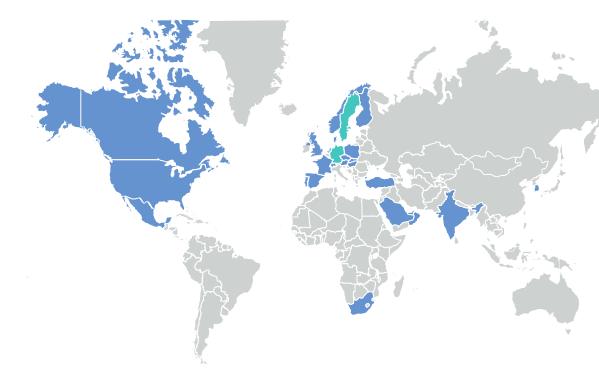
The core process is based on a potassium carbonate solvent and applicable to all CO<sub>2</sub>-intensive industries



Key target segments are cement, biomass, energyfrom-waste, power generation and industrial plants

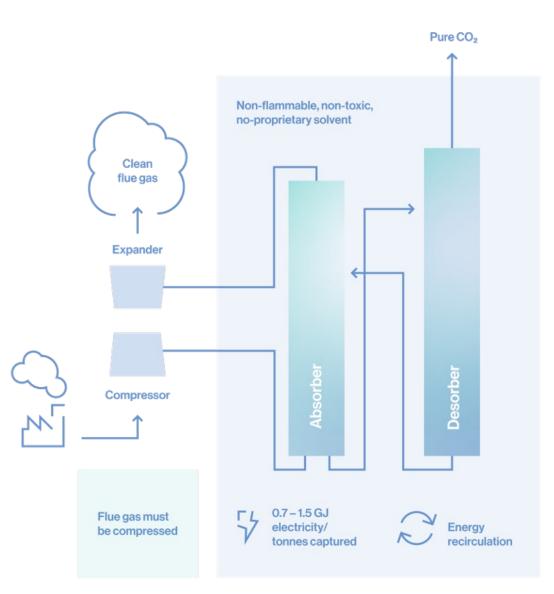


Listed on Euronext Growth Oslo, market cap of NOK ~700 million



# Efficient capture process based on reusing energy

- Patented heat recuperation process minimising the main cost driver for carbon capture: Energy consumption
- Superior health and safety performance
- Extracts high-purity CO<sub>2</sub> for utilisation or storage
- Tested through successful projects and campaigns, including three pilots completed with 90-95% CO<sub>2</sub> capture efficiency<sup>1</sup>
- Successful demonstration campaign with CapsolGo<sup>®</sup> at Öresundskraft's Energy-from-Waste plant in Helsingborg



## **Competitive solutions in an attractive business model**

#### Reduced energy consumption and capture cost

- ~40% lower capture cost vs comparable solutions<sup>1</sup> due to patented energy recuperation reducing energy consumption
- Potassium carbonate is a cheaper solvent compared to amines

Low installation risk and safe operations

Capital light business model with expected greater returns over time

- Potassium carbonate as CO<sub>2</sub> solvent used in 750+ industrial plants globally<sup>2</sup>
- Safe and environmentally friendly. No need for shut-downs during installation

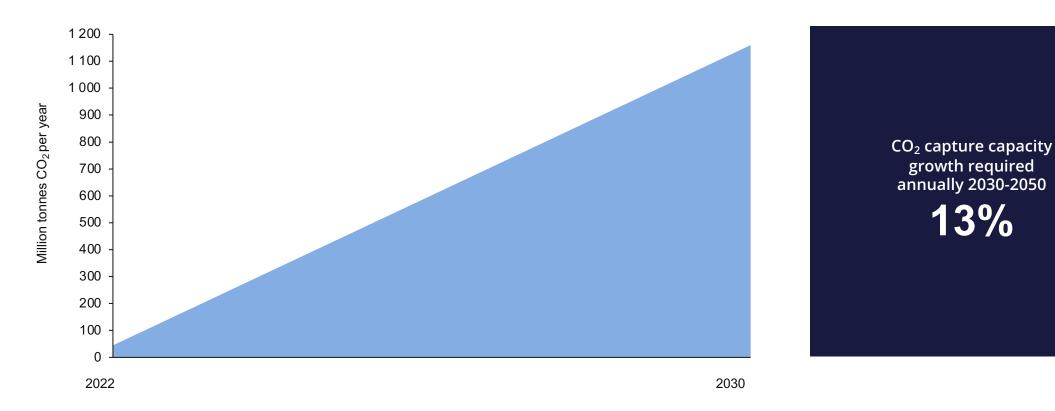
- Technology licensed out globally through leading partners
- Highly scalable, limited capex element and ability to adjust opex vs commercial development



1) Based on company estimates and studies (Swedish Energy Agency report "Conceptual study for Bio-CCS within Stora Enso's Swedish kraft pulp mills" and Sintef report "Reducing the Cost of Carbon Capture in Process Industry"). 2) KH. Smith, N.J. Nicholas, G.W. Stevens (2016), Inorganic salt solutions for post-combustion capture

## 50% annual growth in CO<sub>2</sub> capture required by 2030

CO<sub>2</sub> capture capacity in IEA's net zero emissions scenario



**Required 2030-2050** 

6

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## New incentives boost CCS demand in *both* the US and Europe

- Call on carbon capture is increasing
- CCS (carbon capture and storage) in North America and Europe fuelled by new incentives
- The Inflation Reduction Act in the US increases tax refund from 50 to 85 USD per tonnes for carbon capture
- EU's Green Deal Industrial Plan will propose simple tax-break models and targeted aid for production facilities in strategic clean-tech value chains, including CCS



## «The next decade will see the greatest industrial transformation of our times»

Ursula von der Leyen, President of the European Commission, Special Address at Davos 2023

«Better put CO<sub>2</sub> into the ground than into the atmosphere»

Robert Habeck, German Federal Minister for Economic Affairs and Climate Protection, during visit to Norway in January 2023





«[The next big thing in ESG investing] has to be sequestration and decarbonisation»

Larry Fink, Blackrock's CEO, in the NBIM podcast 'In Good Company' January 2023

## 2022 highlights

#### First large-scale project secured: 800,000 tonnes CO<sub>2</sub> per year

Stockholm Exergi's Värtaverket will be Europe's first large-scale negative emissions plant

#### Two CapsolGo<sup>®</sup> demonstration units ordered – first in operation in Sweden from Q3

Successful demonstration for Öresundskraft in Sweden; further two 6-month campaigns in Germany starting this year

#### Strengthening organisation and partnering with global players to extend reach, capacity and capabilities

Key recruitments as well as signed partnerships with Hitachi Zosen Inova, WOIMA, Sumitomo SHI FW and Eickmeyer

#### Pipeline of ~100 active leads totalling more than 25 million tonnes of CO<sub>2</sub>

High activity in Europe and North-America; US market fuelled by the Inflation Reduction Act (IRA)

#### Fully funded to deliver on current business plan

"Green loan" debt financing secured from DNB for the first two CapsolGo® units

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## Stockholm Exergi – progressing well

- Patent license agreement for use of CO2 Capsol's End-of-Pipe (EoP) technology at Stockholm Exergi's biomass powered Combined Head and Power (CHP) plant at Värtaverket in Stockholm signed in July 2022
- Värtaverket will be Europe's first large-scale negative emissions plant with a full-scale deployment of 800,000 tonnes CO<sub>2</sub> per year
- Stockholm Exergi is currently in dialogue with potential offtakers for negative emissions certificates
- Project progress is good. Final investment decision (FID) will be taken following approval of environmental permit application. Expected early 2024.



«We will do everything we can to get the product to market as quickly as possible»

Erik Rylander, Head of Carbon Dioxide Removal at Stockholm Exergi, to Swedish business daily Dagens Industri in February 2023

## Successful demonstration for Öresundskraft in Sweden

- The CapsolGo<sup>®</sup> unit has successfully run for 5-months proving that the technology is well-suited for Energy-from-Waste (EfW)
- Strong interest from potential customers and other key stakeholders; 40+ visits and 10+ media articles in the period
- Full-scale deployment of 210,000 tonnes CO<sub>2</sub> per year.
   Öresundskraft is expecting a final investment decision (FID) for CCS at Filbornaverket in 2025. Technology yet to be selected
- CO2 Capsol to upgrade the CapsolGo<sup>®</sup> unit during Q2, expanding capabilities with increased energy efficiency



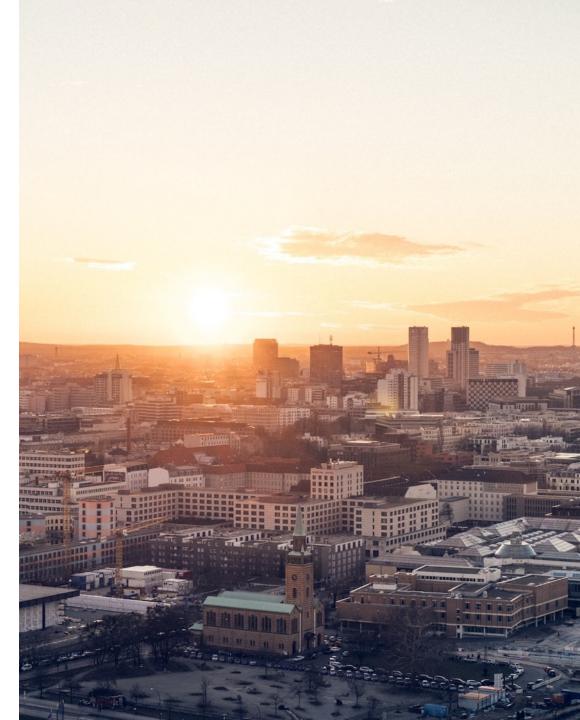
«The CapsolGo<sup>®</sup> campaign has provided us with valuable insights into performance and viability of the HPC capture technology at our waste incineration flue gases. There has been a large interest into the trials»

Ann-Sofie Lindqvist, Project Manager CCS, Öresundskraft AB

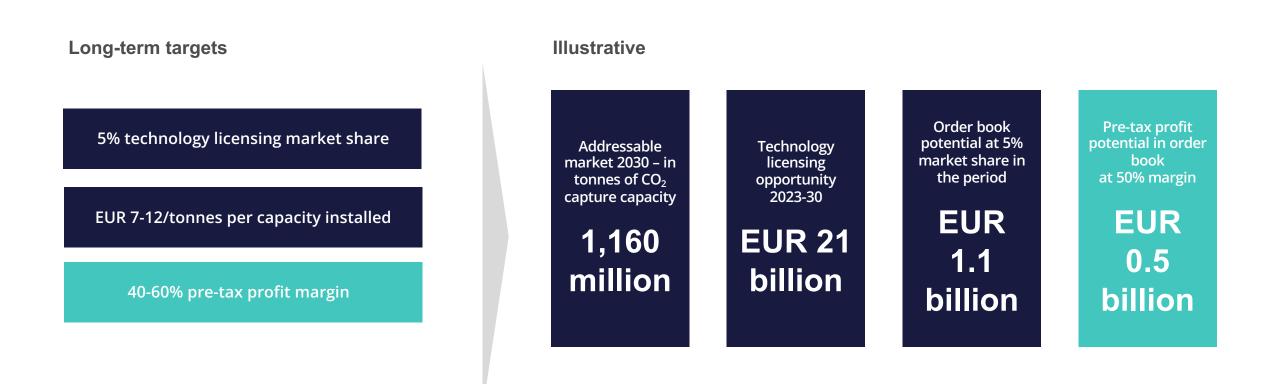
# Entering Germany – largest CCS potential in the EU

- CO2 Capsol to open an office in Berlin during Q1, the first location outside Norway
- 12-month contract for the delivery of two CapsolGo<sup>®</sup> campaigns at an Energy-from-Waste (EfW) and a biomassfired Combined Heat and Power (CHP) plant, both for a major German energy company
- German energy producers emitted 247 million tonnes CO<sub>2</sub> in 2021, while the industry emitted 181 million tonnes CO<sub>2</sub>, totalling 428 million tonnes CO<sub>2</sub>
- This represents minimum EUR 1.7 billion in market opportunity for carbon capture technology licencing only

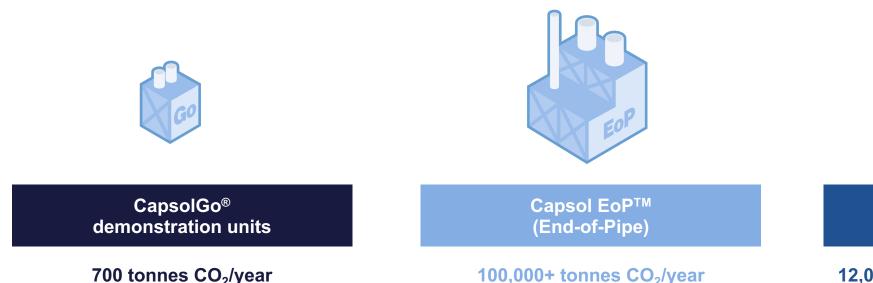
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## Building a leading global carbon capture tech provider



## Carbon capture technologies to support all industries



A full capture system for large-scale CO<sub>2</sub> emitting industries. First large-scale project won for BECCS (bio-energy carbon capture and storage) project in Sweden. CapsolGT<sup>®</sup> for gas turbines

#### 12,000 to 400,000+ tonnes CO<sub>2</sub>/year

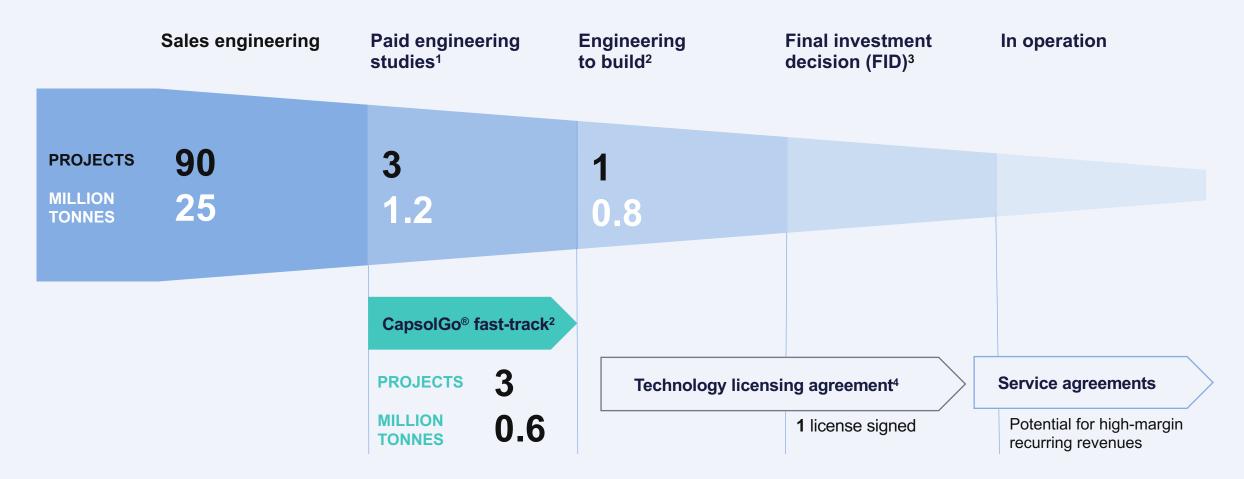
A carbon capture solution for open-cycle gas turbines, enabling additional electricity generation. Also applicable when turbines are used for other industrial applications.

Mobile carbon capture demonstration unit

with an all-inclusive package. First unit in

operation in Sweden, second unit on two 6month campaigns in Germany from Q1 2023.

## **Pipeline:** ~100 active leads totaling more than 25 million tonnes of CO<sub>2</sub>



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1) Concept, Feasibility and pre-FEED (front end engineering design) studies with paid engineering work. 2) CapsolGo® offers an alternative and accelerated path to investment decision.

3) Stockholm Exergi FID expected early 2024 (signed licenced agreement) Öresundskraft's FID expected in 2025 (technology provider not selected)

4) Expected 7-12 EUR/installed tonnes of capacity and/or revenue per tonnes captured FID = Final investment decision

## Roadmap for establishing a leading market position



Grow order book and revenue

Grow margin and explore new business models

## **Investment highlights**

50% annual CO<sub>2</sub> capture capacity growth required by 2030

A competitive solution and an attractive business model

Building a leading global carbon capture tech provider

Investing to establish leading position early

Experienced management team dedicated to create value

- Path to net zero calls for minimum EUR ~21 billion of carbon capture technology capex to be sanctioned next eight years
- Key segments: cement, biomass, Energy-from-Waste, power generation and industrial plants
- Solutions relevant to all kinds of emitters. Proven, safe and ~40% lower capture cost<sup>1</sup>
- Capital-light and highly scalable technology licensing model
- Targeting 5% market share, EUR 7-12/tonnes revenue<sup>2</sup> and 40-60% pre-tax margin
- Based on commercial terms currently being negotiated, Capsol's current business
  plan could deliver pre-tax profit of NOK 1 billion+ in 2030
- Investing in test units, team, distribution and developing partnerships to capture market share
- Demonstration units deployed for proof of application
- Management team with 10-40 years energy and industry experience
- Dedicated professionals highly incentivised to create shareholder value

Source: IEA estimates, company estimates – Final Investment Decision (FID) 2 years before operations on average. Illustrative PTP (pre-tax profit) potential in 2030 based on the midpoint of targets and payment over 3 years from FID. 1) According to Swedish Energy Agency study comparing CO2 Capsol's HPC solution with competing amine solutions. 2) Revenue per installed capacity.

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Our vision is to accelerate the worlds transition to a carbon negative future