

# CCS Talks: Europe's next CCS Facilities

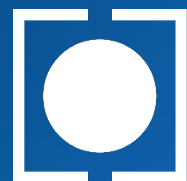
## PRESENTERS:

TRUDE SUNDSET, CEO - GASSNOVA

MARK DRIESSEN, MANAGER PUBLIC AFFAIRS – PORT OF ROTTERDAM

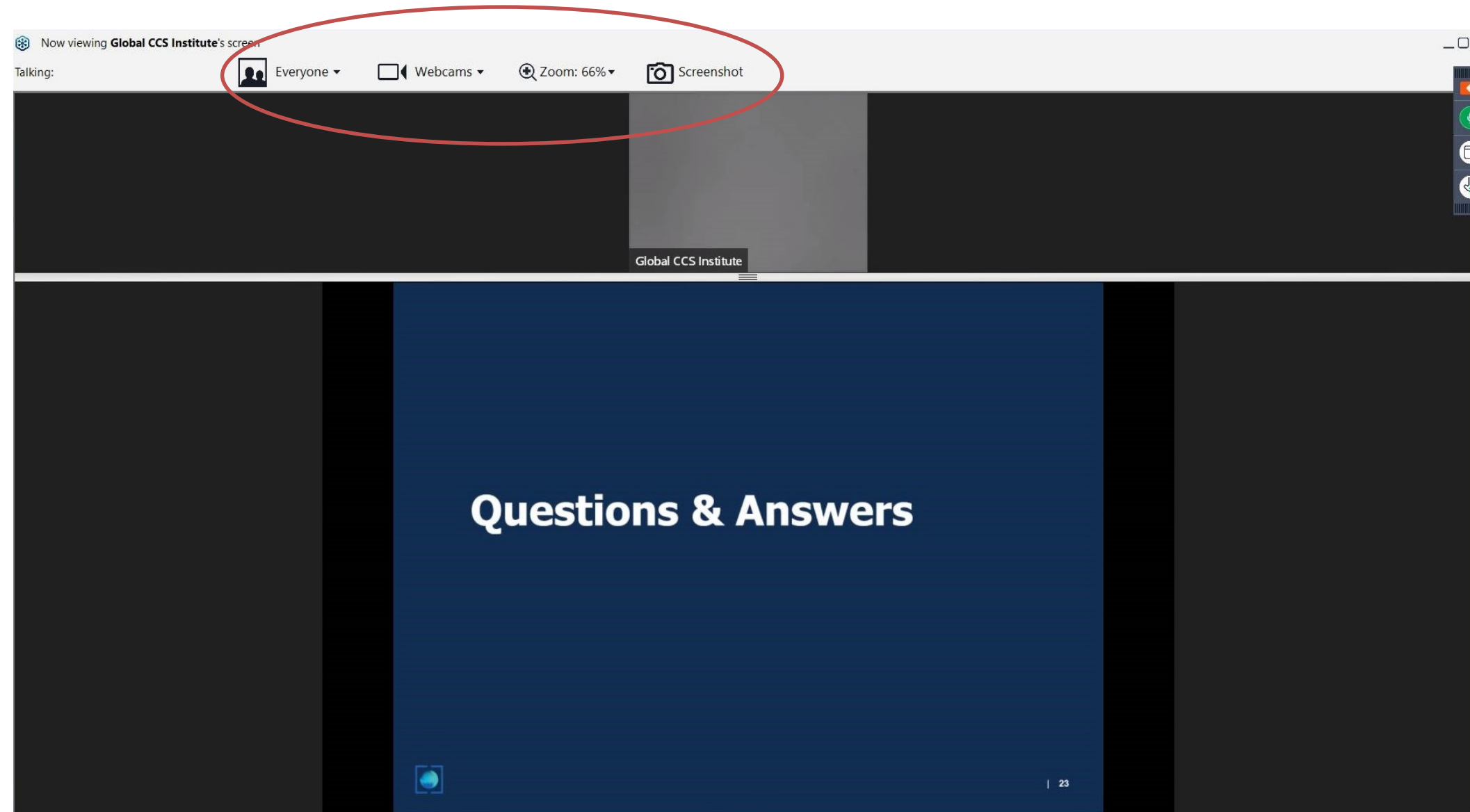
## MODERATED BY:

JAMIE BURROWS, CLIENT ENGAGEMENT MANAGER, GLOBAL CCS INSTITUTE



GLOBAL CCS  
INSTITUTE

# ADJUSTING THE VIEW

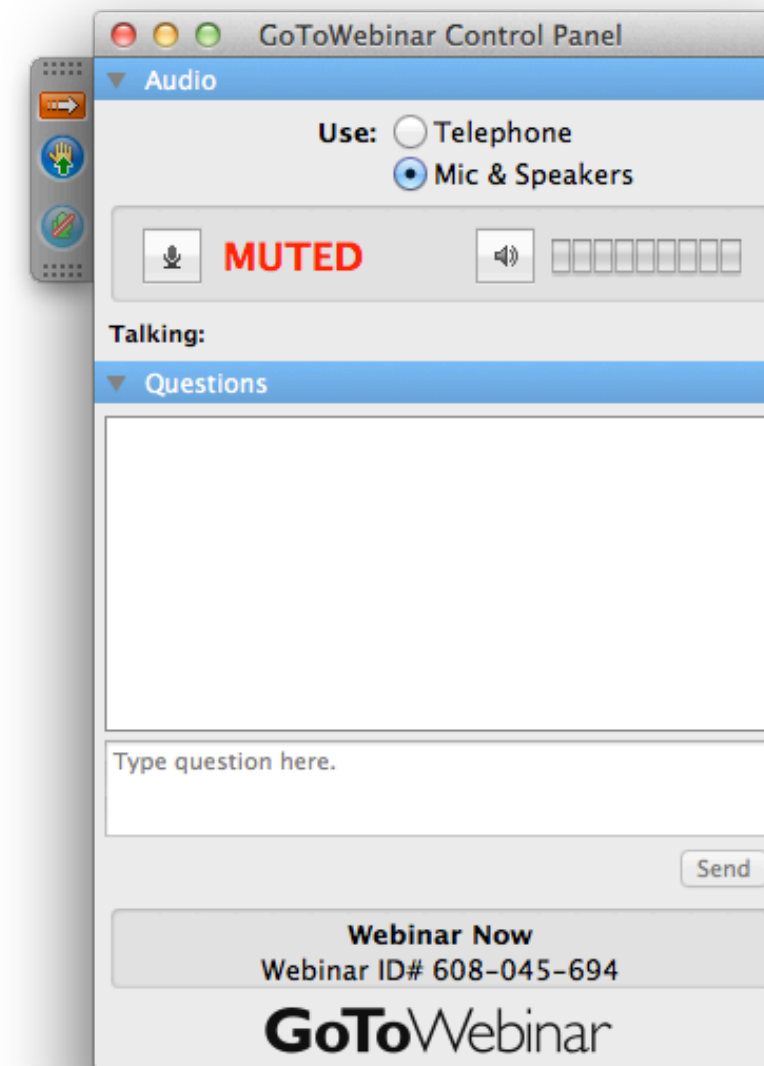


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# ASKING QUESTIONS

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- We will collect questions during the presentation.
- Moderator will pose these question to the presenters after the presentation.
- Please submit your questions directly into the GoToWebinar control panel.



# PRESENTERS



**TRUDE SUNDSET**

CEO - GASSNOVA

THE FULL SCALE PROJECT IN NORWAY



**MARK DRIESSEN**

MANAGER, PUBLIC AFFAIRS PORTHOS - PORT OF ROTTERDAM,  
PORTHOS PROJECT







Trude Sundset, CEO



24  
years of CCS experience

# Fortum Oslo Varme

Waste-to-energy plant in Oslo

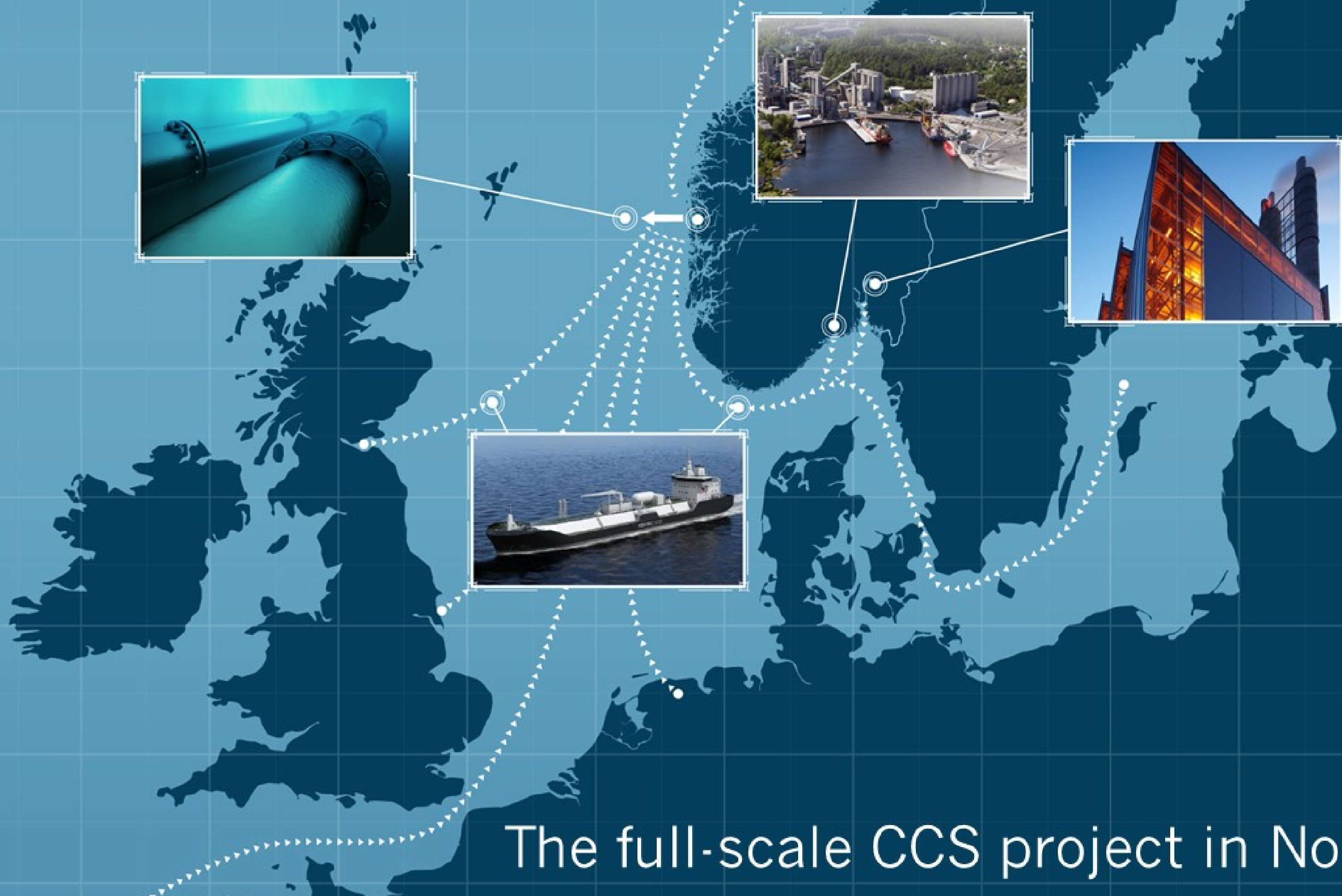


# Norcecem (part of the HeidelbergCement Group)

Cement factory in Brevik



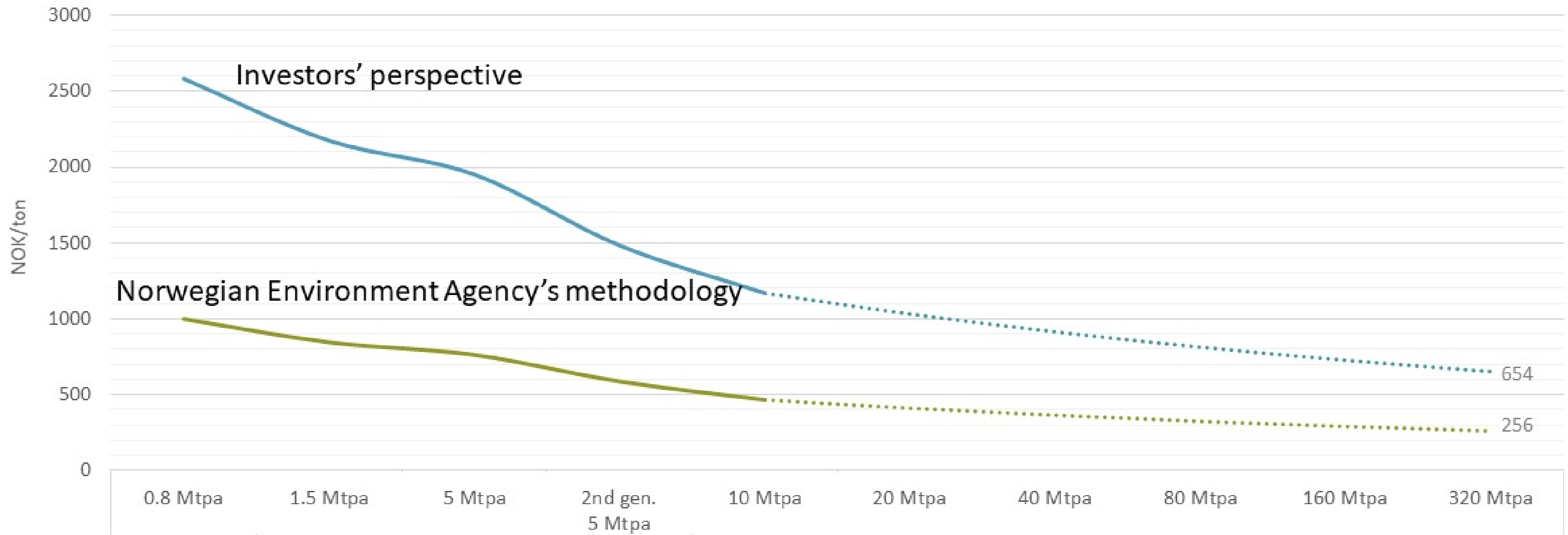




The full-scale CCS project in Norway



# CCS costs will come down



Source: DNV GL

Fatih Birol, executive director of the International Energy Agency, thinks governments should embrace the chance to build a **“GREEN NEW DEAL” INTO THEIR BAILOUT PACKAGES.**

Source: Norwegian SciTech News



## Important milestone in the Northern Lights storage project

SOURCE: PRESS RELEASE, 15 MAY 2020

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Norwegian Minister of Petroleum and Energy, Tina Bru (photo: OED/NTB Scanpix)

The Norwegian Ministry of Petroleum and Energy has received and started its assessment of the development plan for the Northern Lights CO<sub>2</sub>-storage project.

“I am firmly convinced that this can only be done if one is **WILLING TO CAPTURE AND STORE CO<sub>2</sub>**. The countries in question do not deny this. The method is called CCS – and for many in Germany it is a highly charged term.”

Source: The Guardian



# THE GREEN NEW DEAL FOR EUROPE






Prime Minister Erna Solberg

Source: [aftenposten.no](https://aftenposten.no) / Heiko Junge / NTB scanpix



A scenic view of a suspension bridge over a river, with a large mountain in the background under a sunset sky. The text "Green transformation" is overlaid in the center.

Green transformation



# CO<sub>2</sub> reduction through storage beneath the North Sea

GCCSI – Europe's next CCS facilities webinar, 18 June 2020

Mark Driessen

Manager Public Affairs, Stakeholders and Communications



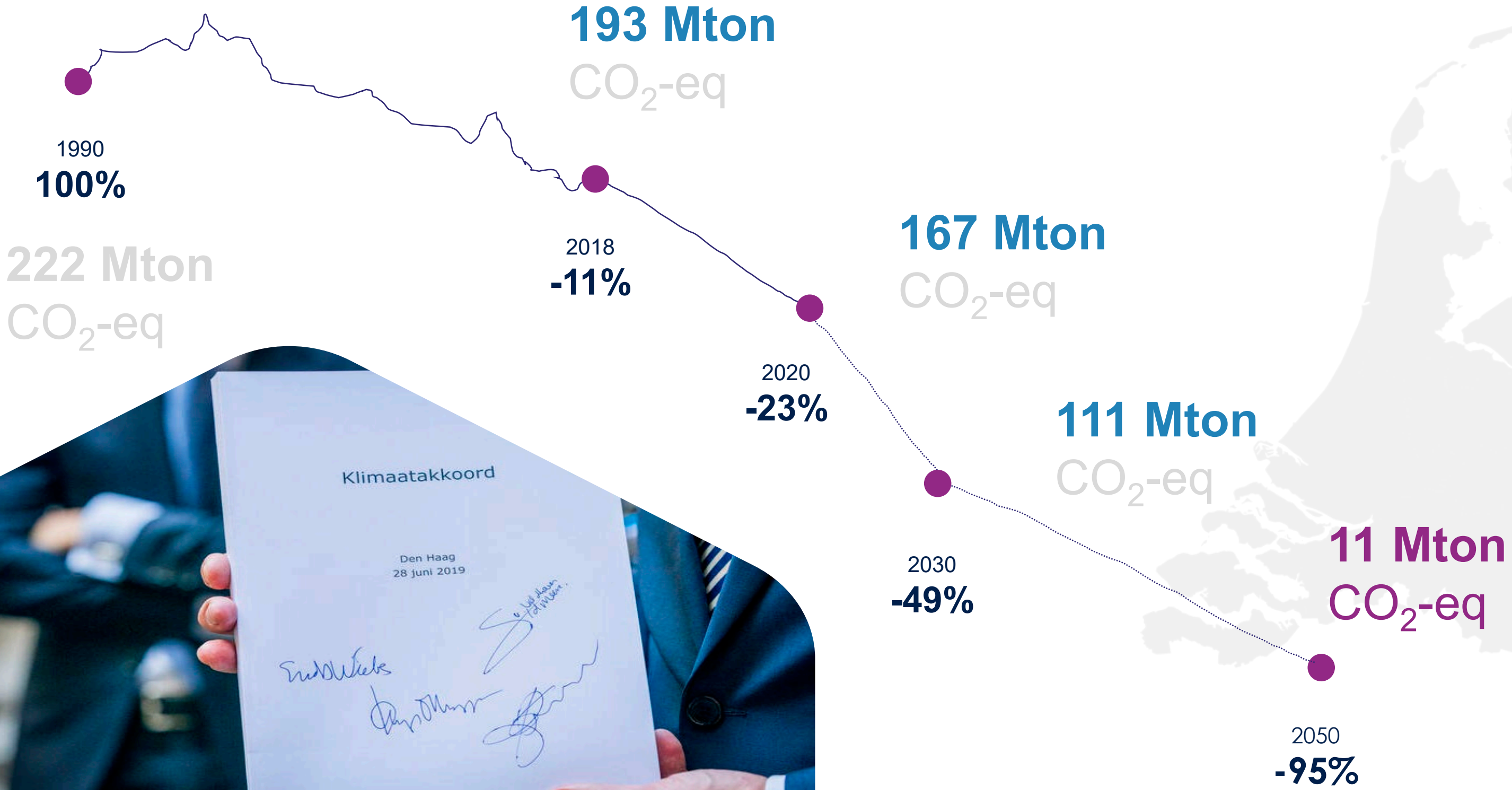
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CO<sub>2</sub> TRANSPORT & STORAGE



# Climate objectives of the Netherlands



Source: CBS 2017, Emission registration



Rotterdam ideal  
location for CCS

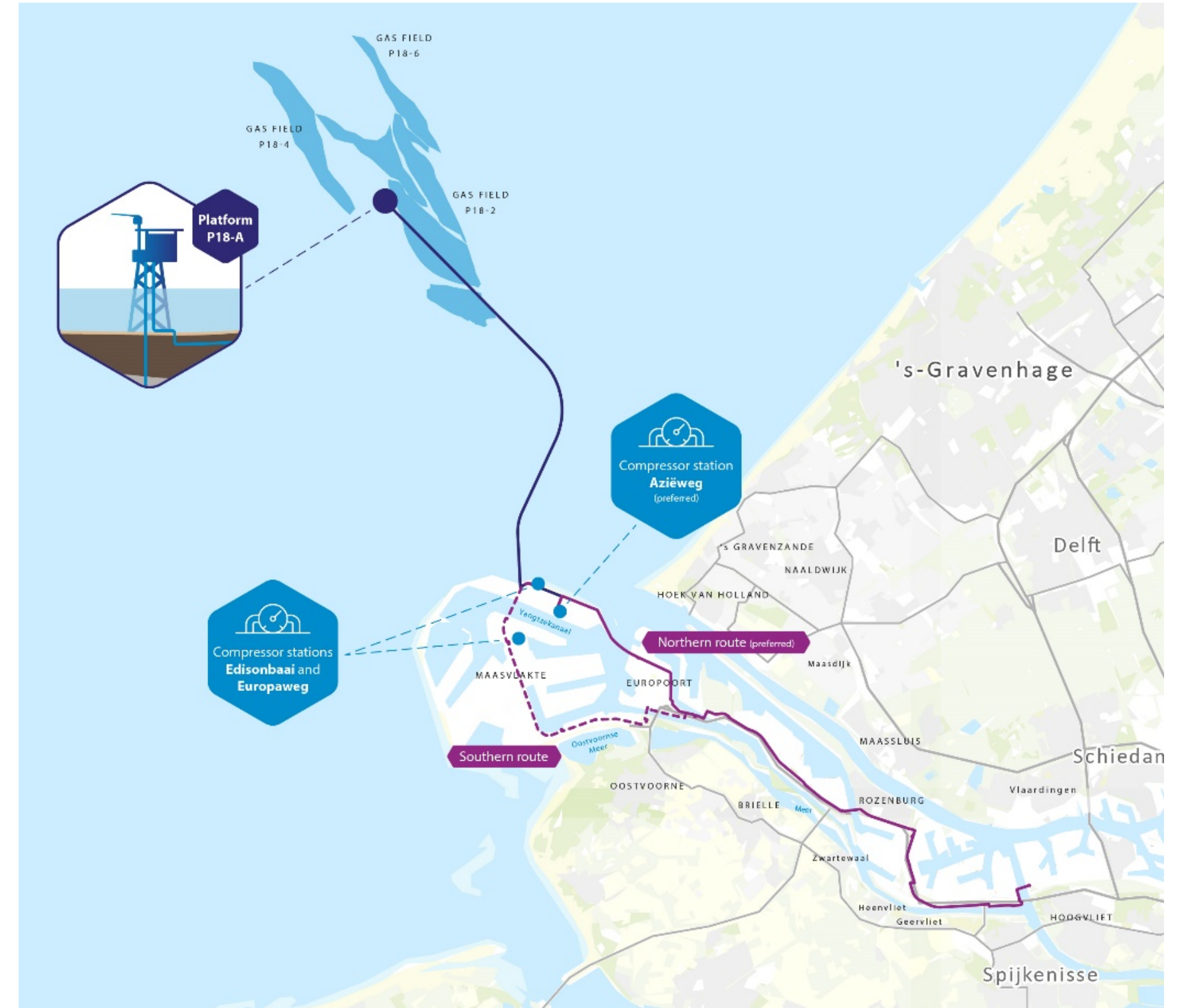






# Project overview

- Dutch state-owned parties: EBN, Gasunie, Port of Rotterdam Authority
- Potential customers: Air Liquide, Air Products, ExxonMobil, Shell
- 2,5 Mton/year; ~ 37 Mton storage
- CAPEX: ~ € 400-500 million
- Planning: operational by the end of 2023



# Public-private partnership for a successful project

## State owned companies

Lead role,  
invest in infrastructure



## Private companies

Invest in capture,  
pay for storage



## Public authorities

Funding, mandate,  
responsibility





# Status and planning

## 2020

- Technical development
- Environmental Impact Assessment and permits
- Agreements with companies and government

## 2021

- Final Investment Decision (FID)

## 2022

- Construction of the system

## End of 2023

- System operational





# Thank you for your attention!

For more information, please visit:  
[www.porthosCO2.nl](http://www.porthosCO2.nl)



*The contents of this presentation are the sole responsibility of Porthos and do not necessarily reflect the opinion of the European Union.*



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# Questions & Answers

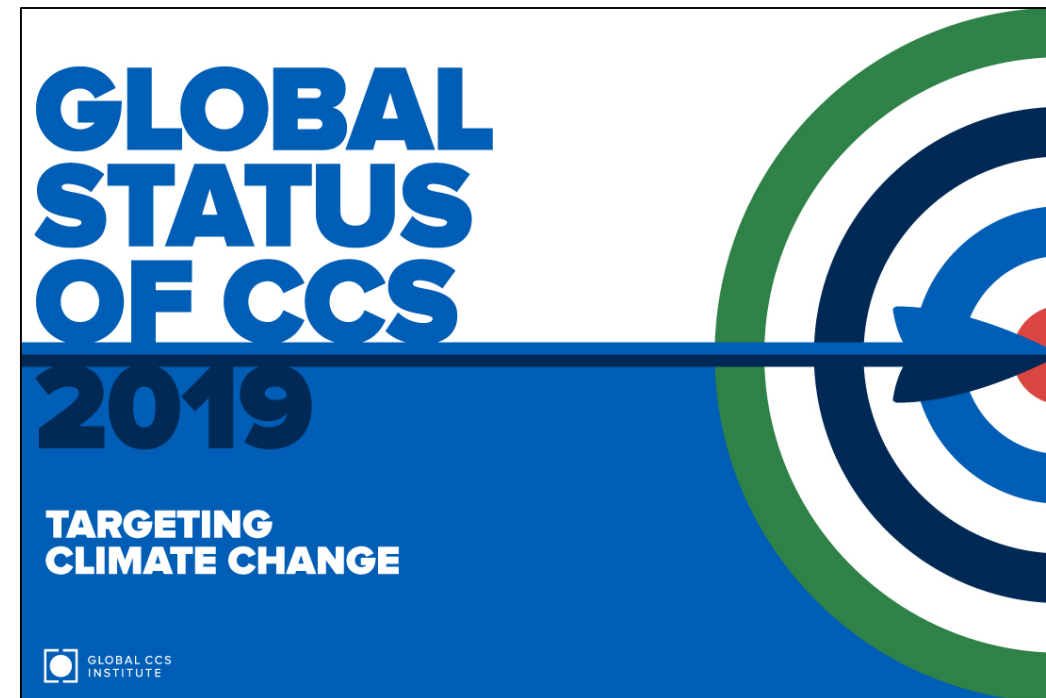
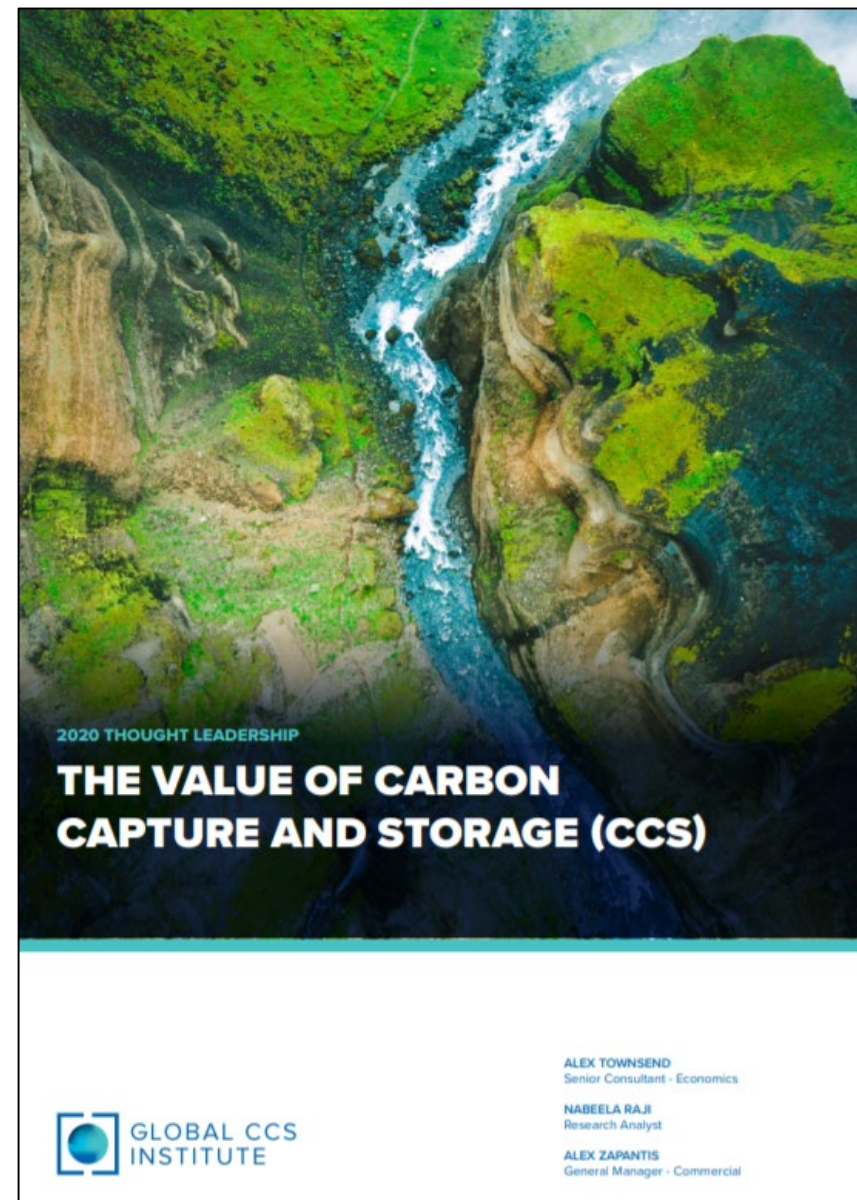


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# FURTHER RESOURCES

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[www.globalccsinstitute.com](http://www.globalccsinstitute.com)



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# UPCOMING EVENTS

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**25 June:** CCS Talks: What are the drivers of current CCS project development?  
**9 July:** CCS Talks: The Alberta Carbon Trunk Line – Alberta’s Carbon Solution

**Register:** [globalccsinstitute.com/news-media/events](https://globalccsinstitute.com/news-media/events)

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# THANK YOU

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