

STATUS OF ACCSION

LARGE SCALE CCS PROJECT AT AALBORG PORTLAND

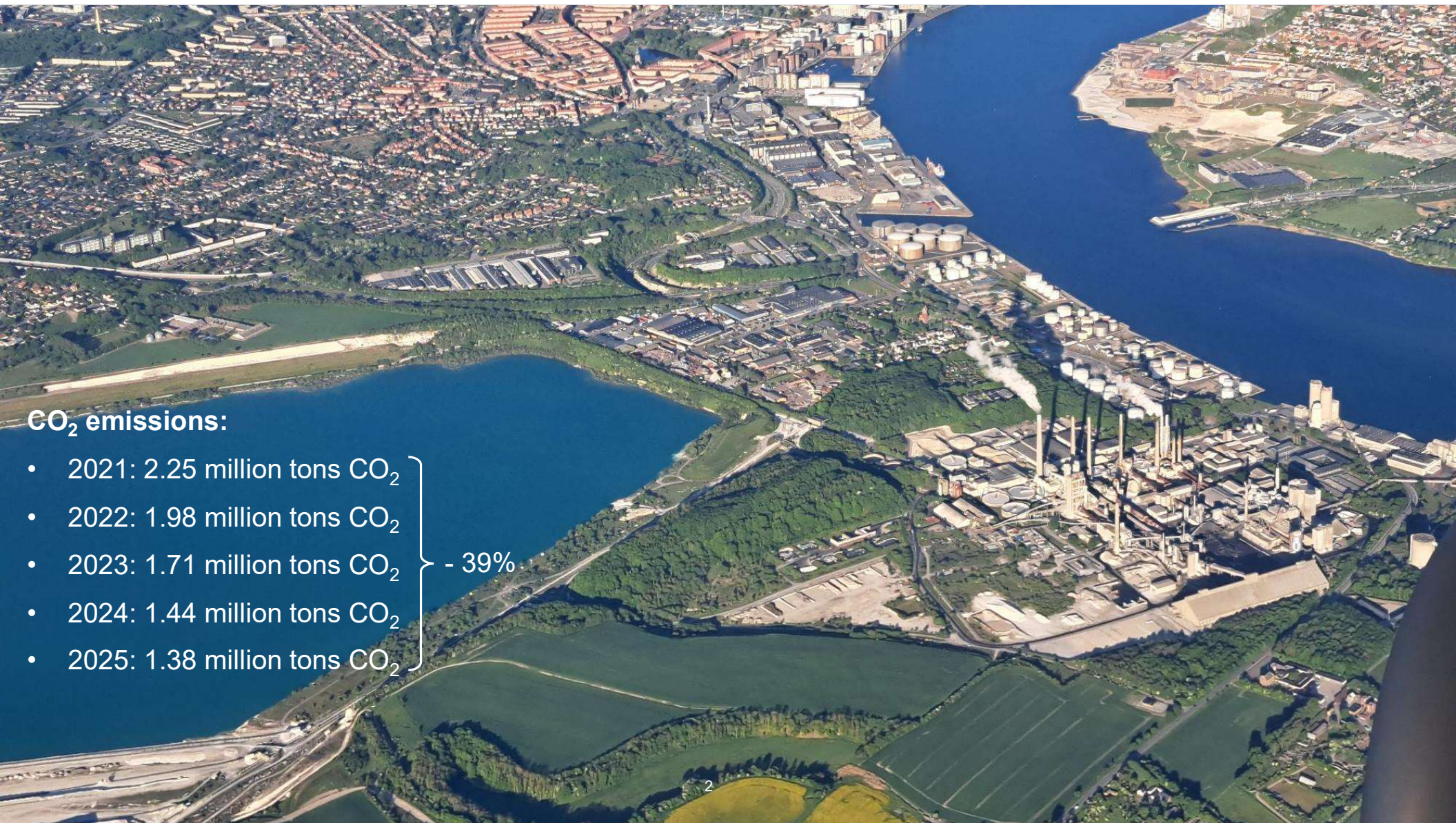
JESPER SAND DAMTOFT
CEMENTIR HOLDING



Funded by the European Union
Emissions Trading System
Innovation Fund

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Climate, Infrastructure and Environment Executive Agency (CINEA). Neither the European Union nor the granting authority can be held responsible for them.



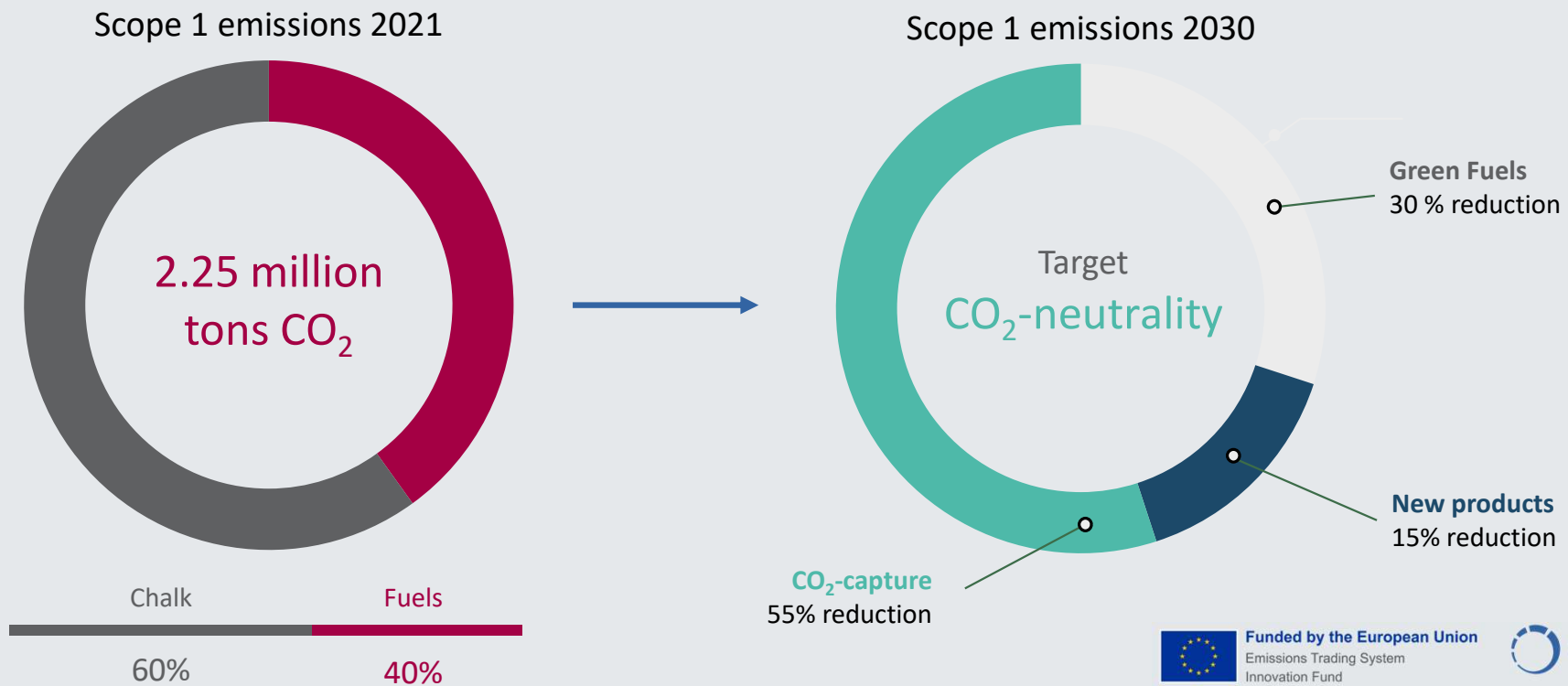


CO₂ emissions:

- 2021: 2.25 million tons CO₂
 - 2022: 1.98 million tons CO₂
 - 2023: 1.71 million tons CO₂
 - 2024: 1.44 million tons CO₂
 - 2025: 1.38 million tons CO₂
- 39%

FROM 2.25 MILLION TONS TO 0:

AALBORG PORTLANDS PLAN FOR A CO₂ NEUTRAL CEMENT PRODUCTION



DEVELOPMENT OF CCS AT AALBORG PORTLAND



CORT
2022-2023

 **INNO-CCUS**
Innovation Fund Denmark

Project participants: Pentair, Aalborg Portland, DTU, Ørsted, Aalborg University, Force



ConsenCUS
2023-2024

 This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 101022484

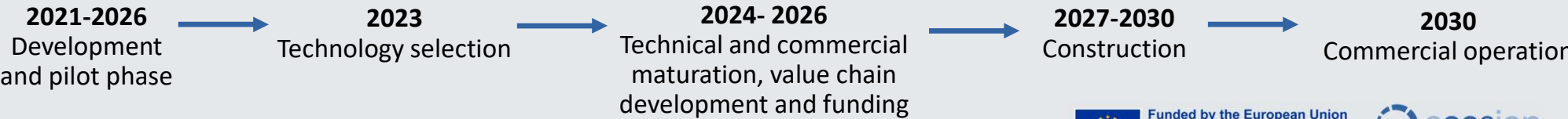
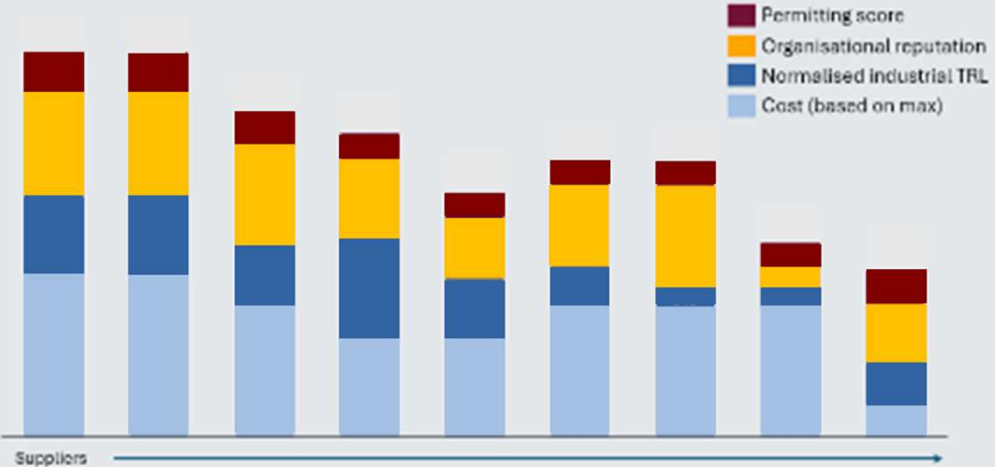
Industrial and academic partners from The Netherlands, Denmark, United Kingdom, Romania, Greece, China and Canada



CASPER
2024-2026

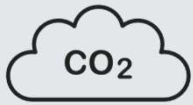
 **INNO-CCUS**
Innovation Fund Denmark

Project participants: Pentair, Aalborg Portland, DTU, DTI, Evida, DGC, Gas Storage Denmark



ACCSION

AALBORG CCS USING INFRASTRUCTURE ONSHORE IN NORTH JUTLAND



01

1.4 million tonnes CO₂ captured
- both white and grey cement kilns



02

Recover **1250 TJ of waste heat** for district heating to Aalborg Municipality



03

Power consumption 649 GWh in capture plant and 850TJ Biogas used in fuel mix



04

Funding of € 220 million from the EU Innovation Fund



05

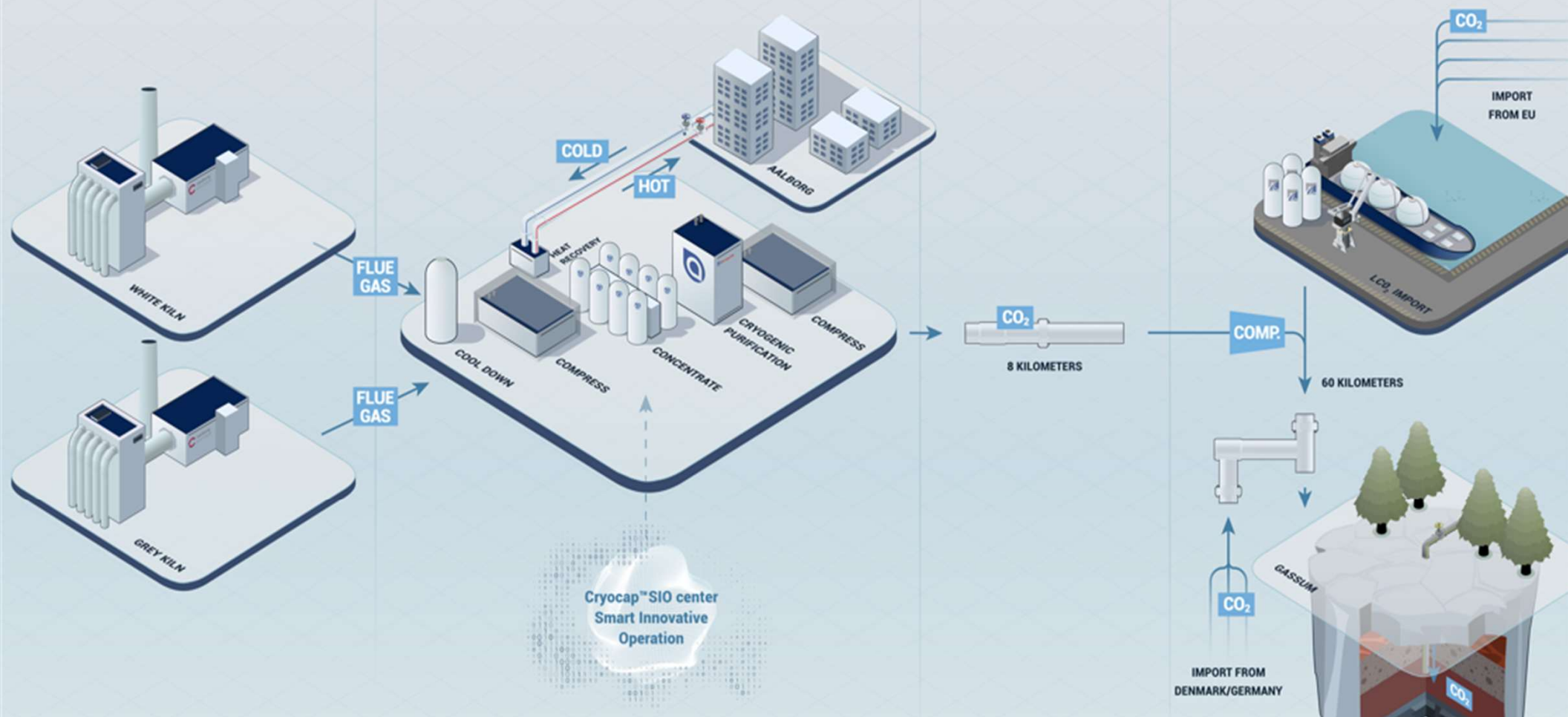
Entry into operation by **2030**

KILN RETROFIT

CO₂ CAPTURE AND HEAT RECOVERY

LOCAL CO₂ PIPELINE

RECEIVING TERMINAL, COMPRESSION, AND INJECTION FACILITIES



CARBON CAPTURE INTEGRATION



Air Liquide



Funded by the European Union
Emissions Trading System
Innovation Fund



THE INNOVATION BEHIND

DUAL CEMENT PRODUCTION CAPTURE



REUSING EXCESS HEAT



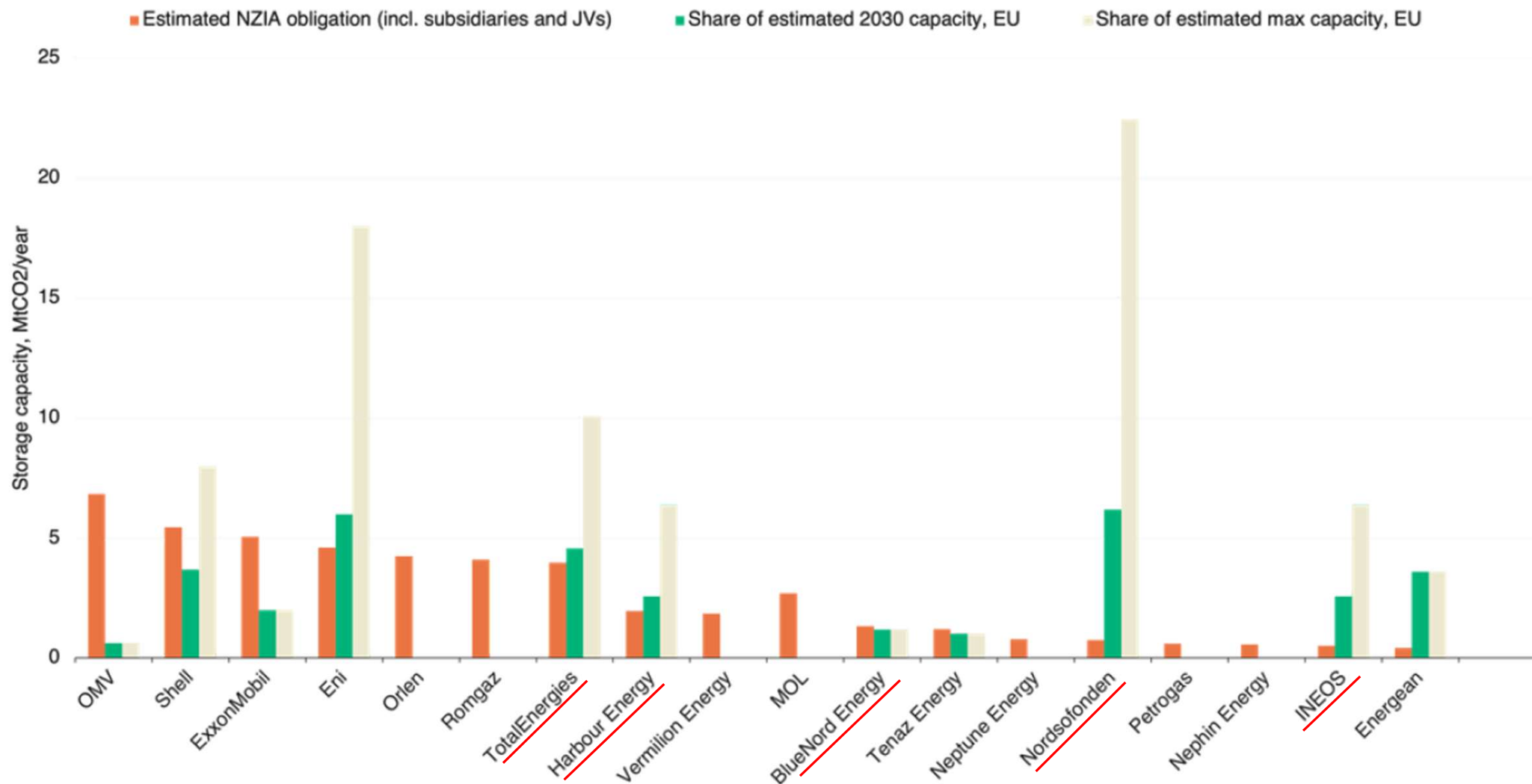
ONSHORE STORAGE



EU CLIMATE ACTION

- The **European Climate Law** turns into law the goal set out in the European Green Deal for Europe's economy and society to become **climate neutral by 2050**.
- Net greenhouse gas emissions must be **reduced by at least 55% by 2030**, compared to 1990 levels
- The Net-Zero Industry Act stipulates that a **CO₂ storage capacity of 50 million** tons shall be available by 2030
- Certain hydrocarbon companies has received an **obligation** to provide CO₂ storage capacity

	Captured	Geologically stored	
	Million tons/year	%	Million tons/year
2030	50	100%	50
2040	280	67%	187
2050	450	50%	225



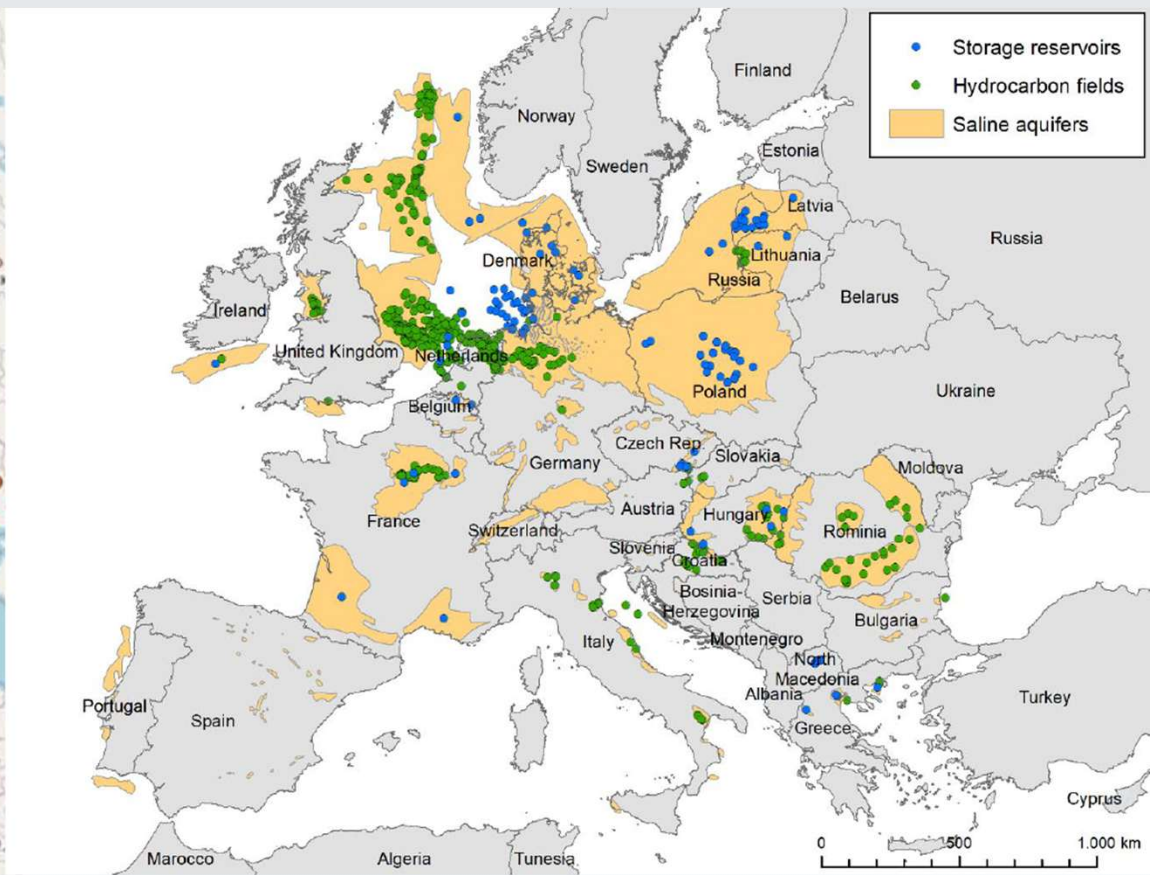
The estimated obligation for each consolidated entity, compared with its share of planned CO₂ storage capacity in the EU.

Article 23 Watch: Annual Report. The first year of Article 23. <https://article23watch.eu/2026/03/31/annual-report-the-first-year-of-article-23/>

Cement plants



CO₂ storage sites



Funded by the European Union
Emissions Trading System
Innovation Fund



Karen Lyng Anthonsen & Niels Peter Christensen: EU Geological
CO₂ storage summary. GEUS report 2021/34



European
Commission

EN

Business, Economy, Euro

Internal Market, Industry, Entrepreneurship and SMEs

Home

Single market

Industry

Entrepreneurship and SMEs

Access to finance

Sectors

Tools and databases

Home

Industry

Sustainability

The Net-Zero Industry Act

Strategic projects under the NZIA



In the spotlight

Applications are now open for net-zero technology manufacturing projects to become strategic projects under the Net-Zero Industry Act.

Under the Net-Zero Industry Act (NZIA), project promoters can apply for 'net-zero strategic project' status.

Strategic projects under the [Net-Zero Industry Act](#) are vital for enhancing the resilience, strategic autonomy, and competitiveness of the EU's net-zero industry while aiming to scale up manufacturing of technologies essential for climate-neutrality.

This content is hosted by a third party. By showing the external content you accept the [terms and conditions of youtube.com](#).

Show external content

☐ Remember my choice
Your choice will be saved in a cookie managed by europa.eu until you've closed your browser.

Net-zero strategic projects enjoy national 'priority status' under the NZIA Regulation, ensuring rapid administrative treatment and faster permitting. These projects also receive additional focus in the Net-Zero Europe Platform, including through financing advice. Where applicable, urgent treatment in judicial and dispute resolution procedures, and simplified assessments for specific environmental legislation derogations are also provided.

For more information, please consult the FAQs or the [NZIA Regulation](#), which outlines the benefits (Articles 15-16), the application and recognition process (Article 14) and the selection criteria (Article 13).



Aalborg Portland A/S
Rørdalsvej 44, 9220 Aalborg Øst



Anerkendelse af strategisk nettonulprojekt

16. oktober 2025

Erhvervsstyrelsen har modtaget Aalborg Portlands anmodning af den 16. september 2025 om, at Aalborg Portlands del af CCS-projektet "ACCSION" anerkendes som et strategisk nettonulprojekt i medfør af Europa-Parlamentets og Rådets forordning (EU) 2024/1735 af 13. juni 2024 (NZIA-forordningen).

Erhvervsstyrelsen meddeler hermed, at Aalborg Portlands del af "ACCSION"-projektet anerkendes som et strategisk nettonulprojekt i Danmark, jf. artikel 13(5) i NZIA-forordningen.

Sagens oplysninger

Projektet omhandler en ombygning af Aalborg Portlands produktionsfacilitet, etablering af et CO₂-fangstanlæg, der vil opsamle 1,4 mio. tons CO₂ årligt, samt etablering af infrastruktur til fjernvarme og røggas.

Det fremgår af projektbeskrivelsen, at den fangede CO₂ skal lagres ved en CO₂-lagringslokalitet på land.

Erhvervsstyrelsens vurdering

Jf. Bekendtgørelse om én indgang for produktionsvirksomheder og statslig udpegning af industriparker § 9, stk. 2 vil ansøgninger, der opfylder kriterierne i artikel 13 i NZIA-forordningen, løbende forelægges for erhvervsministeren med henblik på anerkendelse som strategiske nettonulprojekter.

Det fremgår af kriterierne i artikel 13(5) i NZIA-forordningen, at projekter til fremstilling af nettonulteknologi, som gennemføres i EU, der bidrager til at nå målene i artikel 1 (1), og som drager fordel af EU's Innovationsfond, hvis fonden støtter investeringer i fremstillingskapacitet, anerkendes af medlemsstatene som værende et strategisk nettonulprojekt, jf. artikel 14(3).

Det fremgår yderligere af NZIA-forordningens artikel 2(3), at forordningen finder anvendelse på projekter til dekarbonisering af energiintensive industrier, der indgår

Langelinie Allé 17
2100 København Ø
T: 3529 1000
CVR: 10150817
@: erst@erst.dk
W: erhvervsstyrelsen.dk

ERHVERVS MINISTERIET

Sag nr. 2025 - 10026
MATTHY





Aalborg Portland: 1.4 Mtpa CO₂

AALBORG

GASSUM

THORNING



LEGEND

--- Pipeline

- - - Sea-going vessel

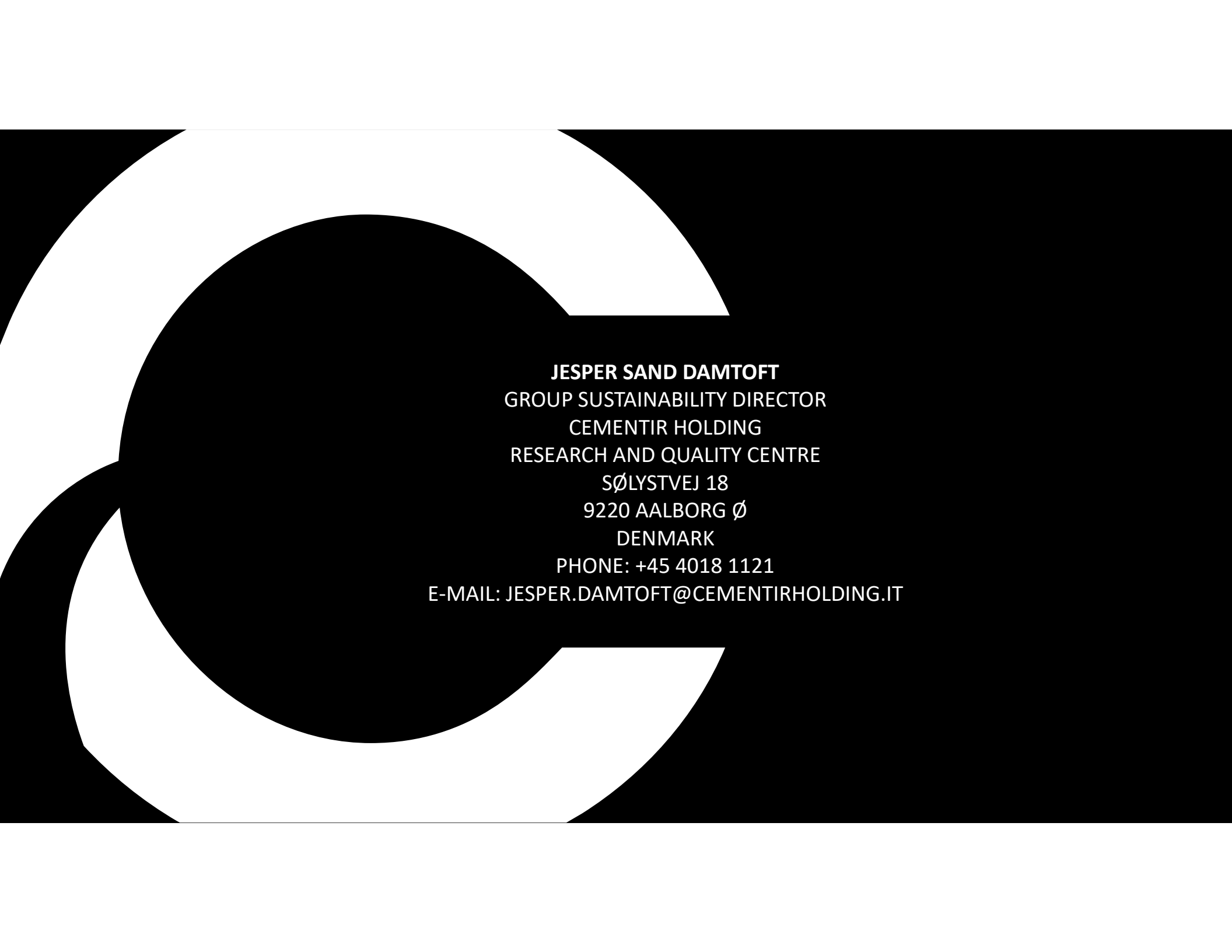
--- Pipeline

ANTWERP@C

CCB: 1.2 Mtpa CO₂

GAURAIN





JESPER SAND DAMTOFT
GROUP SUSTAINABILITY DIRECTOR
CEMENTIR HOLDING
RESEARCH AND QUALITY CENTRE
SØLYSTVEJ 18
9220 AALBORG Ø
DENMARK
PHONE: +45 4018 1121
E-MAIL: JESPER.DAMTOFT@CEMENTIRHOLDING.IT