

evoZero: paving the way to net zero cities

Sergio Tortelli

Product Director - Net Zero Carbon
Captured Cements

Heidelberg Materials



Heidelberg Materials is one of the world's largest building material companies



Cement

126,5

Million Metric Tons



Aggregates

293,7

Million Metric Tons



Concrete

45,0

Million Cubic Meters



Asphalt

8,2

Million Metric Tons

Providing the materials to build the future.



- > 150 years company history
- > 3000 locations
- > 50 countries



Sustainability Commitments 2030 - stronger and more comprehensive

We drive the **decarbonisation** of our sector and provide **low-carbon** products

We drive **circularity** to reduce and reuse materials and natural resources



We place the **health and wellbeing** of employees, communities, and suppliers at the core of our business operations

We contribute to a nature positive world through our industry-leading **biodiversity programme** and **sustainable water management**



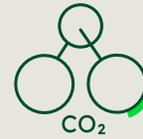
Our industry-leading concrete promises on sustainability



We will be the first to offer carbon captured net-zero cement at scale

Dr. Dominik von Achten, CEO, Heidelberg Materials AG

10mt
cumulative CO₂
reduction through
CCUS by 2030



400kg CO₂/t cementitious material as average across the whole portfolio in 2030

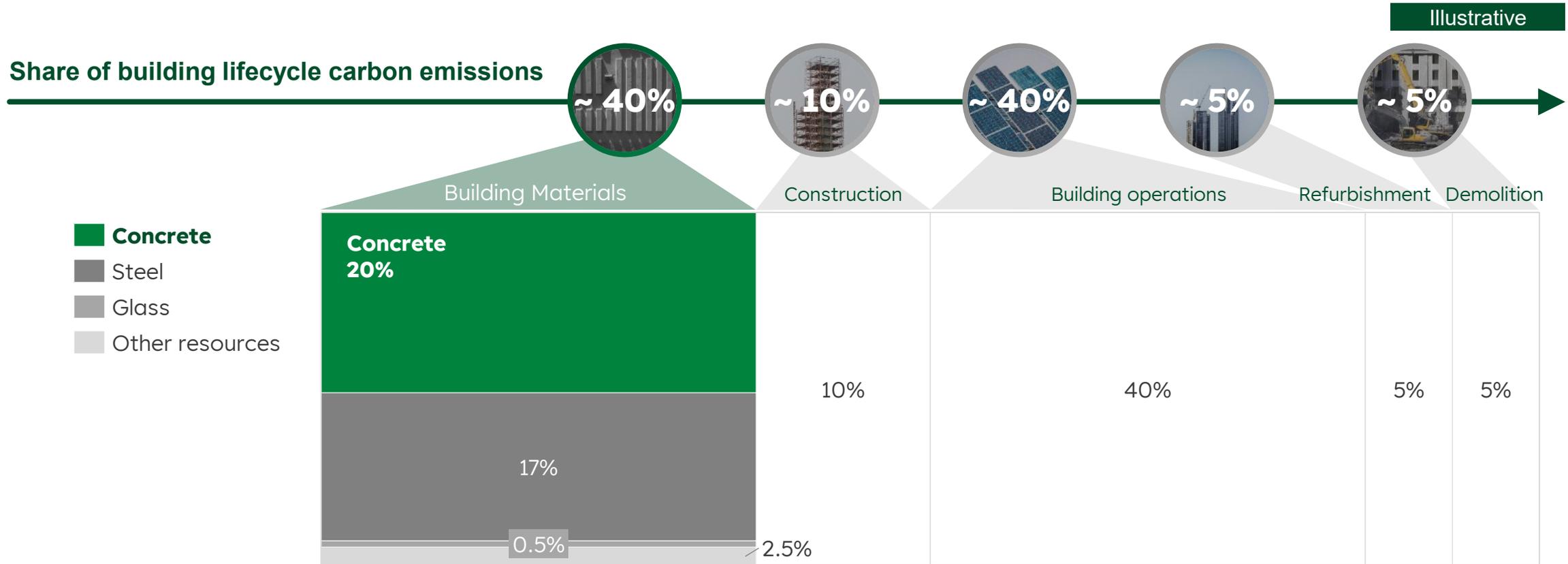


47% emission reduction across the cementitious materials portfolio by 2030

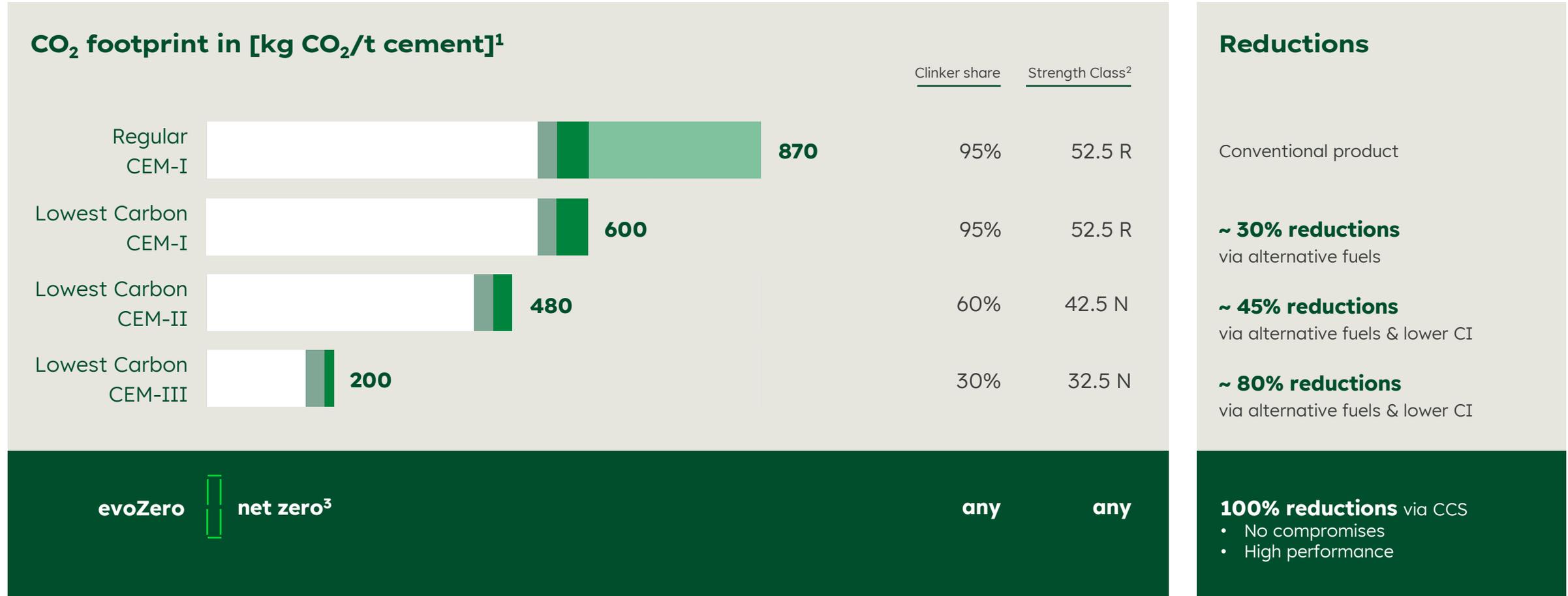
Corporate carbon footprint reduction in line with SBTi 1.5°C path by 2030
Most ambitious scope 1 commitment across all major cement players



Lifecycle emission reduction: Building materials and operations the most prominent carbon emission sources



Only Carbon Capture can offer you net-zero cement without any compromises

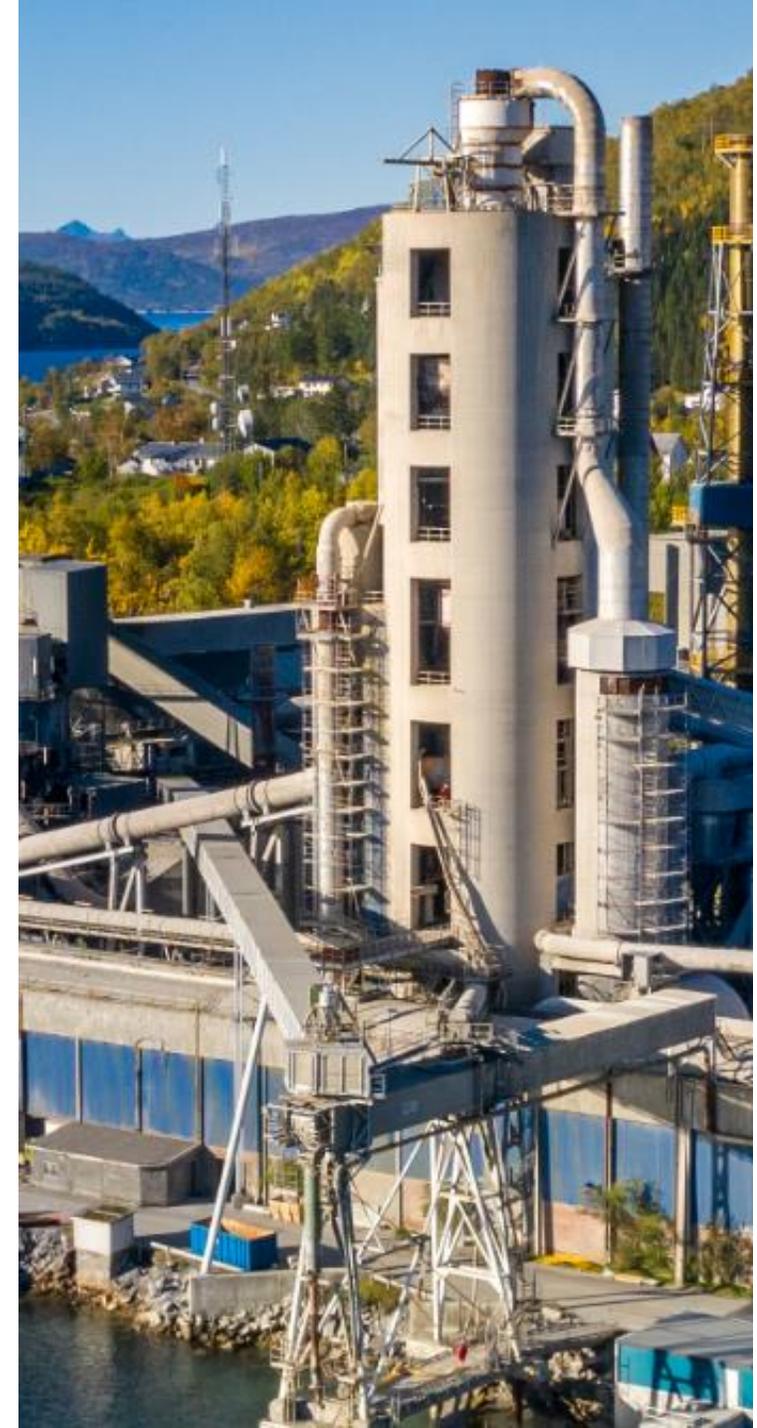
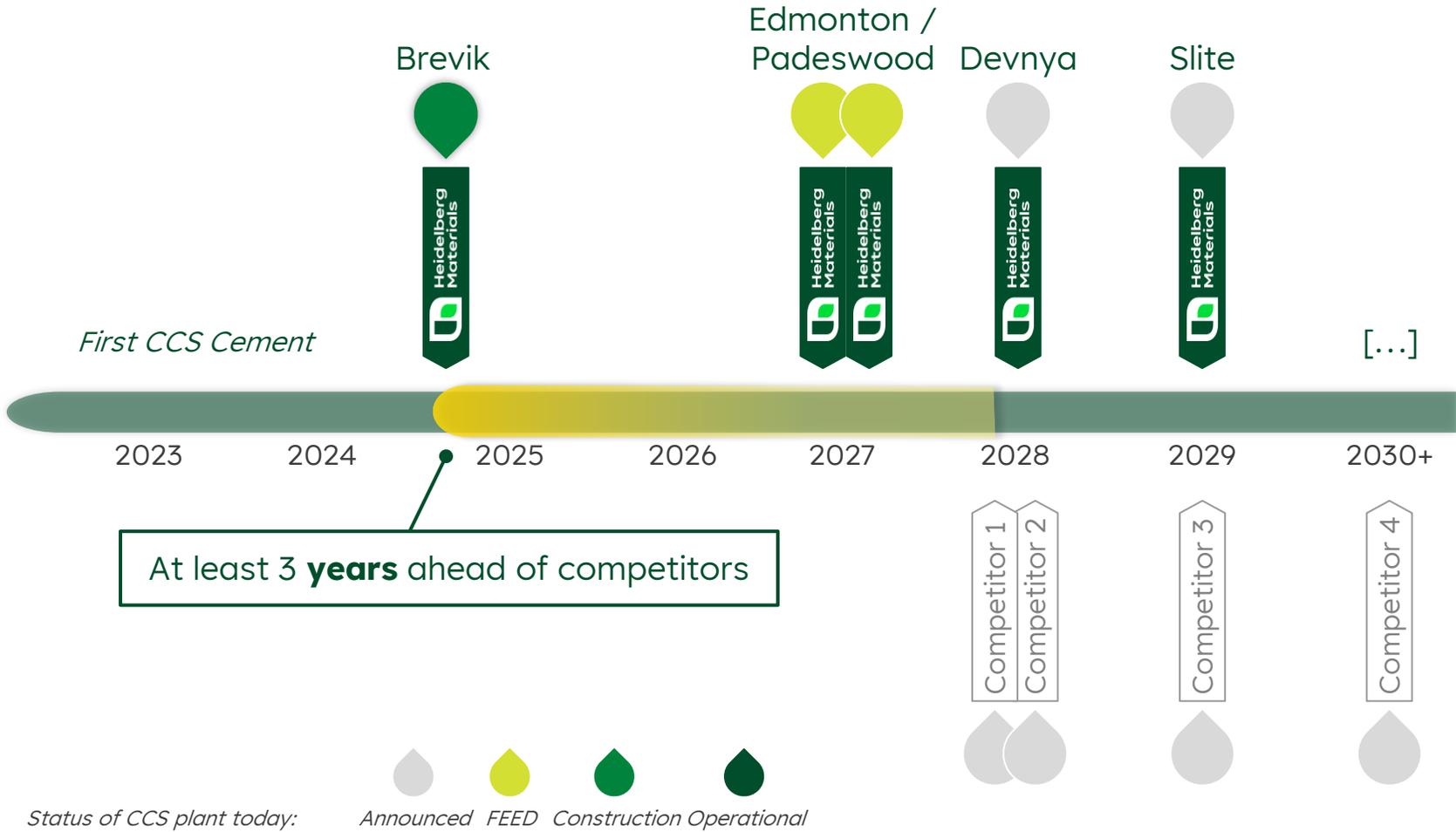


□ Process ■ Scope 3U ■ Scope 2 ■ Fuel

1. Cradle-to-Gate (Scope 1,2 3U) 2. The strength class refers to strength tests after 28 days of hardening & an indication on the strength development speed (i.e., R= Rapid, N = Normal, L = Low early) 3. Includes recarbonation effect; Note: CI = Clinker Incorporation, CCS = Carbon Capture & Storage; Net zero CO₂ footprint secured by allocating CCS savings to dedicated volumes as certified by DNV

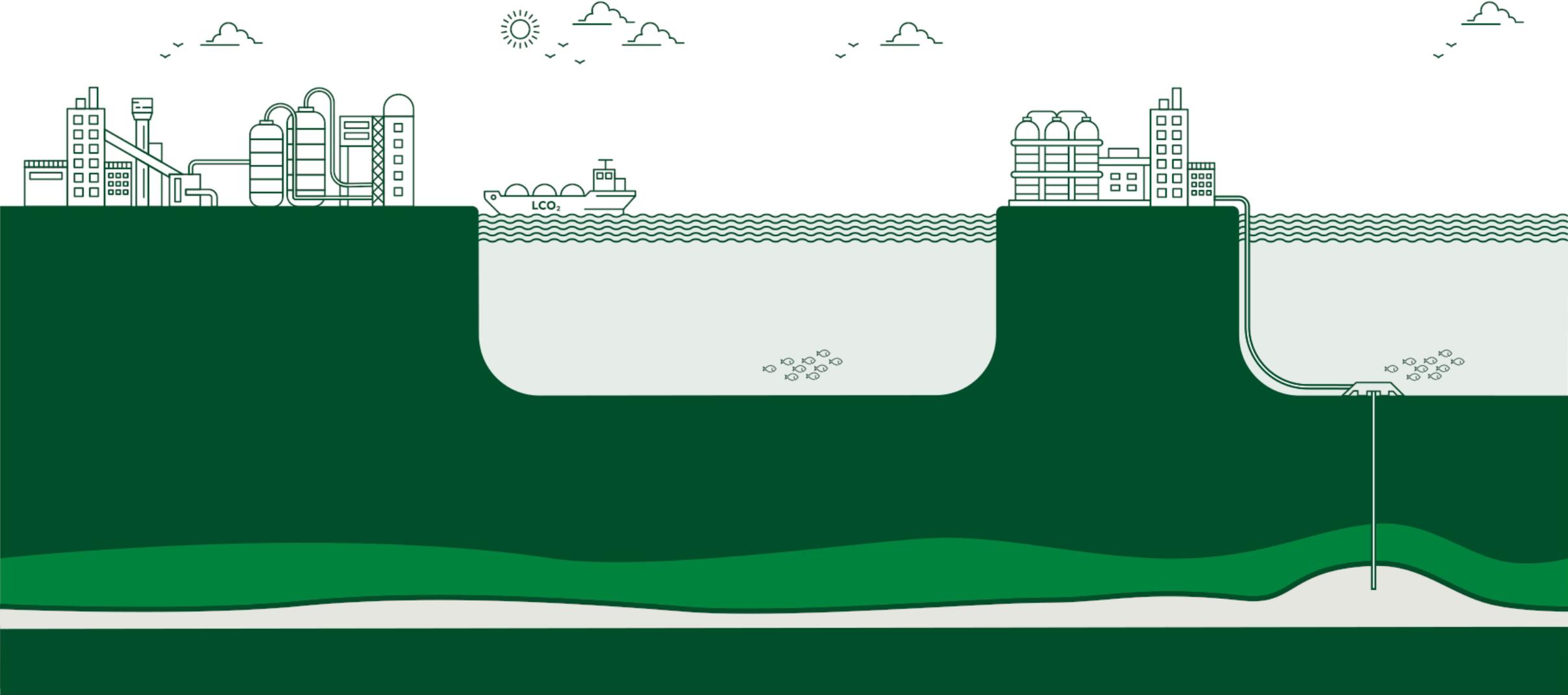


We are first to produce net zero cement at scale



Pioneering the decarbonisation of our sector

The CO₂ journey from capture to storage



Carbon capture – making it happen



Brevik plant – heavy lifting phase of critical Carbon Capture equipment



evoZero Carbon Captured: We will offer two types of unique net-zero products



1 evozero

Carbon captured Brevik

400.000t of CO₂ emissions are captured p.a., resulting in 500.000t of BREVIK NET-ZERO CLINKER

Captured CO₂ & emission accounting are **certified by DNV and accounted for via blockchain**

Each ton of CO₂ & BREVIK NET-ZERO CLINKER are cleared only once

Physical Brevik net-zero cement shipped from Brevik to your construction project

2 evozero

Carbon captured

For distant projects, carbon savings may be virtually transferred to an HM site near you



Product assurance via a three-layered approach

Third-party approved process

- An **independent review by assurance provider DNV confirmed** that the HM methodology ensures **accurate calculations of CO₂ savings & allocation**
- No risk of double counting

EPD based claims

- **EPD Norway** agrees to include fossil-based **CCS reduction, mass-balance approach** and recarbonation potential in **EPD notes**
- Outlook: CCS reduction may be included in EPD **main body** at the end of 2025

Transparent allocation

- **Blockchain** brings an **additional layer of transparency** to customers and the public
- Provides an accurate **carbon accounting model & CO₂ allocation** for evoZero products
- Especially relevant for global sales

evozero

Carbon captured Brevik

evozero

Carbon captured

evozero

Carbon captured Brevik

evozero

Carbon captured Brevik

evozero

Carbon captured



Lighthouse projects: giving a shape to our sustainability commitments



[Video](#)

The new **Nobel Center building in Stockholm**, scheduled for construction in 2027, is intended to be at the forefront of environmental and climate responsibility.

For this lighthouse project, the Nobel Center Project has now **opted to use evoZero, the world's first carbon captured net-zero concrete.**

“Several Nobel Prizes have been awarded both for highlighting this threat and for innovations to mitigate it. When we build a new house for science, culture and dialogue in Stockholm, we want to act in keeping with science. The Nobel Center project is therefore seeking new solutions for material use and re-use in order to minimize climate impact.”

Vidar Helgesen, Executive Director of the Nobel Foundation.



Our key recommendations to increase the uptake of sustainable materials:

1. Introduce **material-neutral tenders** with clear **sustainability criteria** (embedded emissions)
2. **Align definitions** and promote a **smoother and faster standardization process** for low-carbon and circular building materials
3. Establish additional **financial** and **regulatory incentives** for upstream producers of low-carbon products and downstream users of low-carbon end-products
4. Introduce a comprehensive **EU low-carbon products strategy** to foster the low-carbon end products market and incentivise forerunners industries
5. Engage in dialogue between **cities, regions and local authorities** and material producers to better explain the key benefits of investing in sustainable products compared to standard ones





Heidelberg
Materials