CCM – Beyond CO_2 Removal

BRIEF

07.01.2026

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CCM IN BRIEF

Turn CO2 + waste into valuable minerals — permanently

CHALLENGE

- CO2 emissions
- Waste streams to landfill
- Expensive permanent storage solutions

CCM SOLUTION

- Remove CO2 through mineralization
- Produce carbonated marketable products
- Modular, near-source, scalable & distributed

STATUS: **TRL7** (Model demonstration for operational environment)

WHAT WE DO: **Deploy modules w/ industrial cites**

CCM IS SEEKING: **INDUSTRIAL PARTNERS + CAPITAL FOR FIRST COMMERCIAL PLANTS**

THE OPPORTUNITY: CO2 + WASTE = VALUE

CO2 Sources
(Biogas, cement, ….)

\+

Alkaline waste
(fly ash, slag, CKD, CDW…)

=

Calcium Carbonate / Storage
(Most $CaCO_3$ is mined, strong demand)

Demand for permanent solutions + MRV

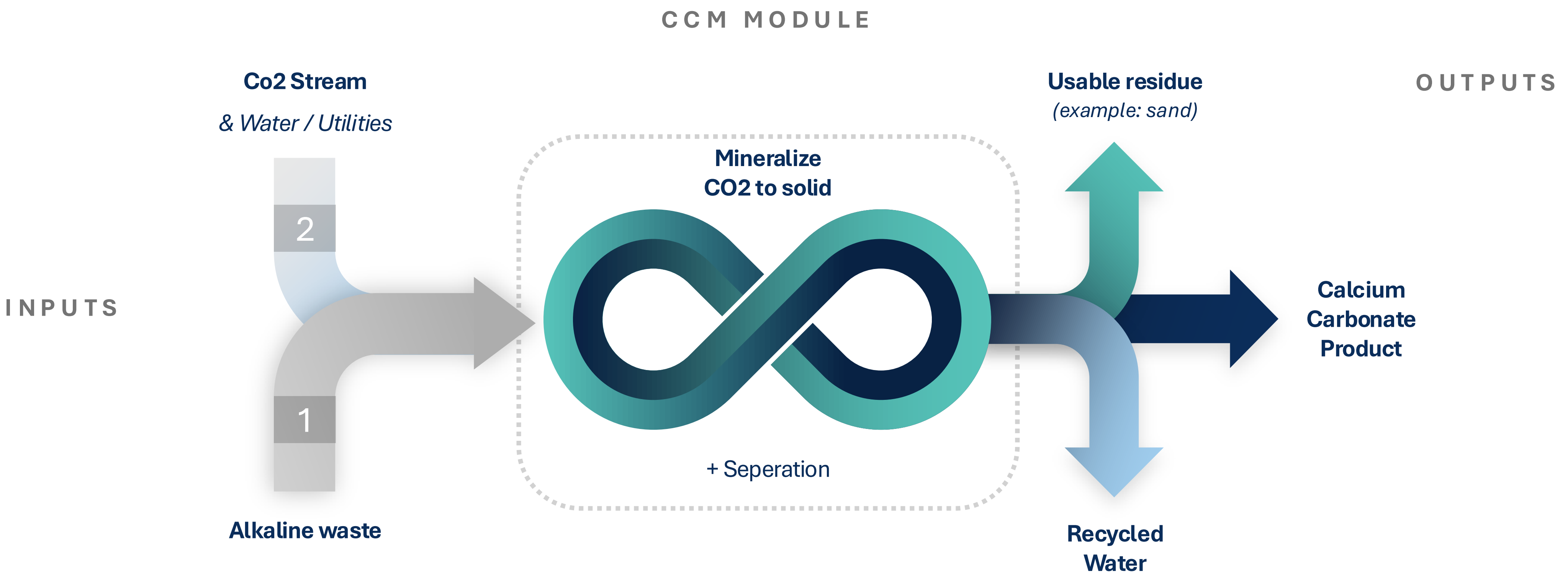
Decarbonization pressure / compliance

CaCO3 demand is large; most supply is mined

Why now ?

CCM ENABLES: LOWER LANDFILL + LOWER EMISSIONS + NO NEED FOR STORAGE + REVENUE CREATION

WHAT CCM DOES *(HIGH LEVEL)*



1t CO2 + 1.27t feed = 2.27t carbonate

WHY CCM - DIFFERENTIATION

1. **Permanent storage (mineral form)**
2. **Uses cheap / available wastes**
3. **High purity $CaCO_3$ (PCC)**
4. **Scalable & decentralized**
5. **Strong MRV* potential**

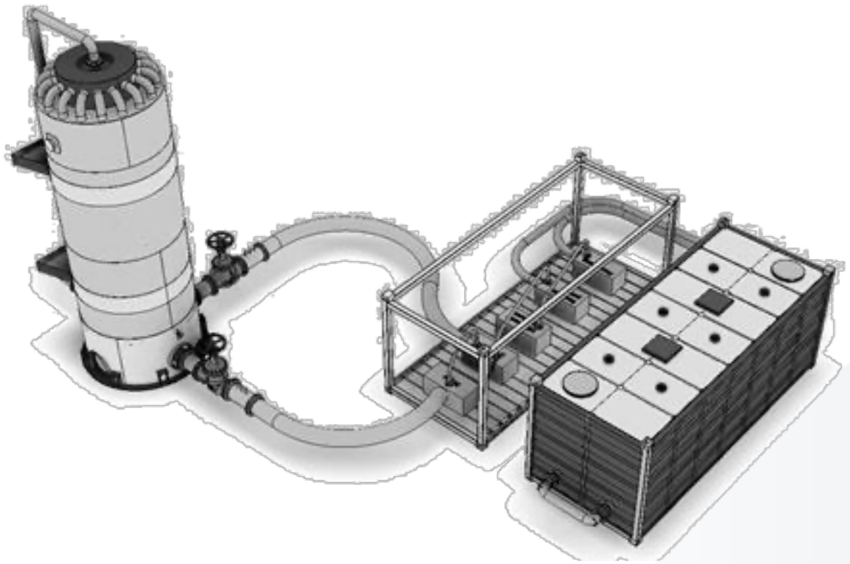
OTHER APPROACHES COMP.

APPROACH	WHAT HAPPENS TO CO_2	ECONOMIC OUTPUT
Geological storage	Injected underground	Cost only
CO_2 Utilization	Converted to fuels / chemicals	Temp. products (re-emits CO_2)
Mineralization (low-grade)	Converted to solid carbonate	Aggregates / fillers (low value)
CCM	Permanently mineralized	High-purity $CaCO_3$ (saleable product)

CCM HOLDS ITS OWN IP AND PATENTS

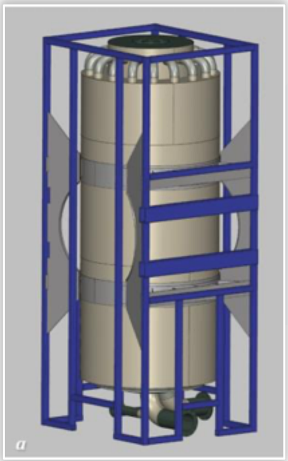
* MRV = Monitoring, Reporting & Verification

VALIDATION & READINESS



TRL7 ACHIEVED

- Lab/pilot tests using commercial CaO and industrial waste
- 2.000 hours continuous testing
- **Results: close-to-complete conversion for high CaO feedstocks and ~90% conversion demonstrated for lower CaO samples**



ECONOMICS (HIGH LEVEL)

Avoided CO2 Cost / Liability
(context-specific)

Product Value: CaCO3
(PCC potential)

Waste handling savings
(site-specific)

HIGHLY COST COMPETITIVE

REVENUE GENERATION
&
COST REDUCTIONS

*Excluding logistics

WHERE WE START + HOW WE SCALE

SCALING LOGIC

- **Standardized modules deployed near source**
- **Replicable project templates w/ partners**
- **Feedstock-driven siting (waste availability + logistics)**

INITIAL TARGET SEGMENTS

BIOGAS / BIOMETHANE

(clean CO2 stream)

CEMENT / AMMONIA / OTHERS

(large volumes + mineral integration)

GEOGRAPHICAL FOCUS

Nordics + Europe

Future regions

FROM WASTE INPUTS TO PREMIUM PRODUCT MARKETS

WASTE INPUT FACTORS

Alkaline waste streams (site-specific, abundant):

- Fly ash (coal / biomass)
- Biomass / bark ash
- Cement kiln dust (CKD)
- Construction & demolition waste (CDW)

Key input characteristics:

- Often landfilled today
- Low or negative cost
- Chemically suitable (CaO)
- Locally available

OUTPUT MARKET (PCC)

Precipitated Calcium Carbonate (PCC)*

Key PCC segments:

- Paper & pulp (coating, filler)
- Paperboard & packaging
- Plastics & polymers
- Paints & Coatings

Environmental benefit:

- Avoids mining & grinding
- Lower CO2 footprint
- Supports circularity

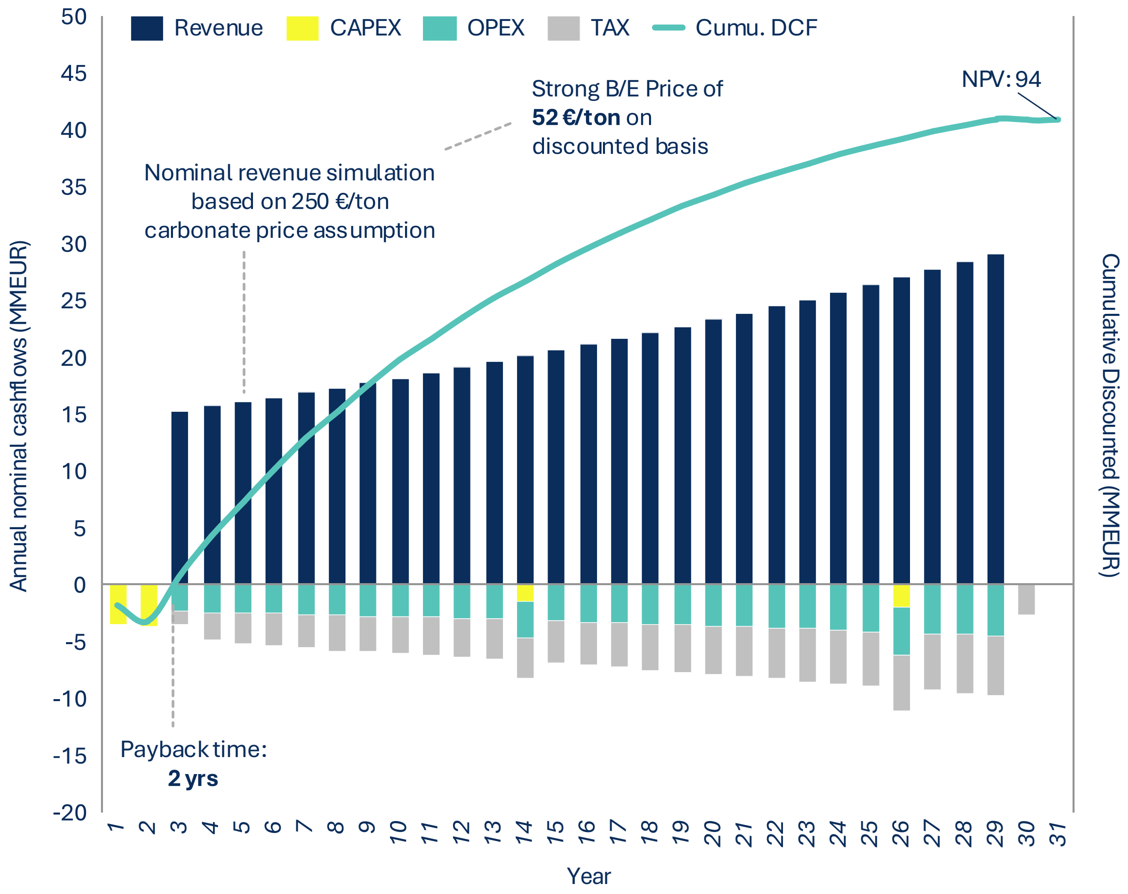
Market:

- ~$45bn global $CaCO_3$ market
- PCC = premium segment, priced in the several-hundred USD/ton range, well above mined GCC
- Fragmented supply base

* Not Ground Calcium Carbonate (GCC)

25.000t Case – Economics overview

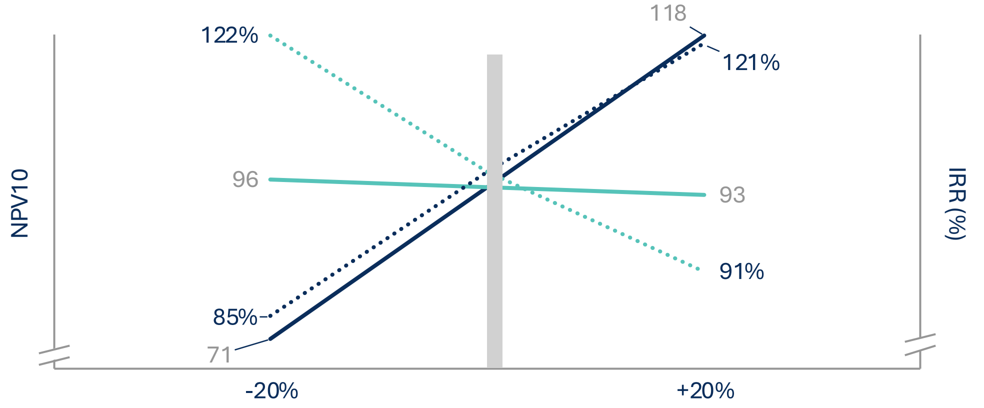
STRONG CASHFLOW PROFILE



KPIs AND SENSITIVITIES

Unlev. project IRR	Max. Exposure	Payback time
104%	7,2 (MMEUR)	2 (yrs)

Levelized cost PCC*	PVI	B/E PCC Price
67,4 (€/ton)	14,1 (ratio)	52 (€/ton)



Assumptions: WACC (nom.) 10%, 2,5% inflation on prices and costs, 250 €/ton PCC price (real 26), valuation date: 2026, no transportation cost included, standard Norwegian tax regime, valuation currency: EUR.

* Both parts of the equation discounted, pre-tax calculation

CCM CARBON CAPTURE MINERALIZATION

TEAM, PLAN & THE ASK

Industrial + commercial + O&G background

KNUT HAGENES
CEO

CCUS & mineralization expertise

ABDELGHAF-OUR ZABOUT
Science

REDAAALLAH EL AMRANI
Science

energy / commercial / scale-up

SVEIN SPANNE
Advisor

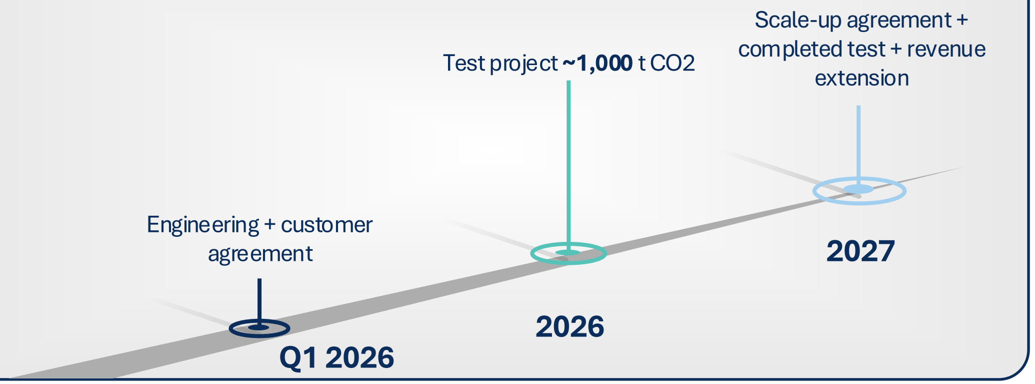
NILS SVANBERG
Advisor

SEEKING

Strategic partners

Funding for first commercial projects

PLAN



STRONG DIVERSIFIED SUPPORT & SHAREHOLDER BASE

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