

ECRC
Electric Calciner Research Center

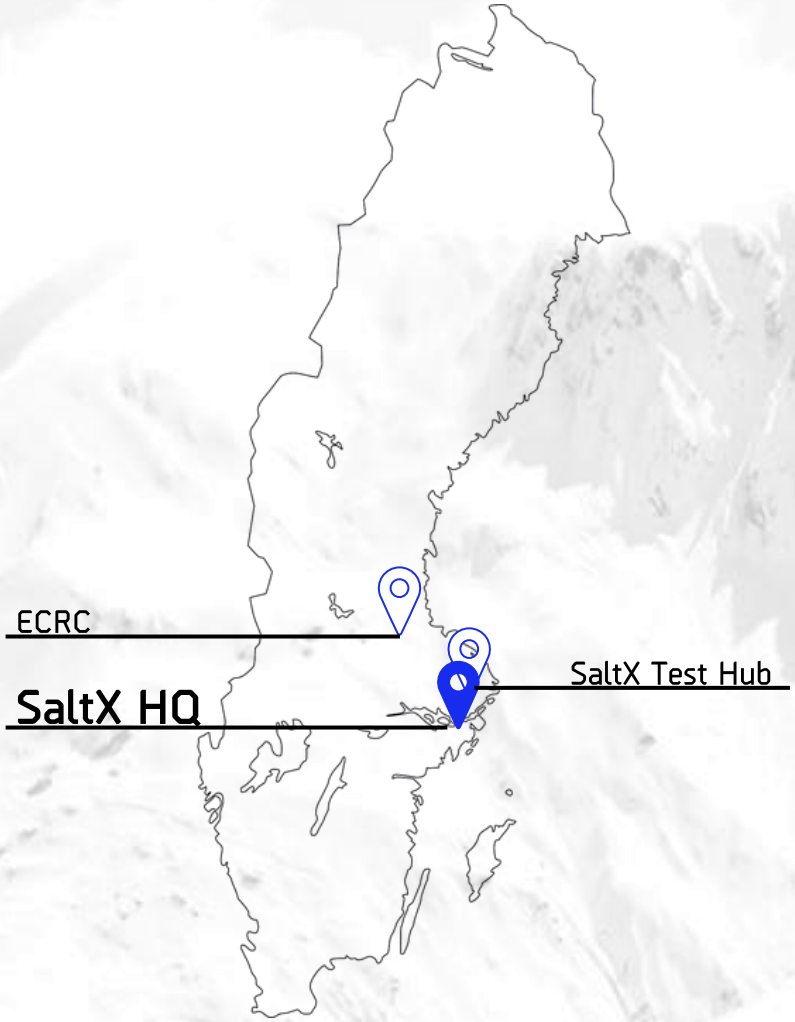


8%

of the global CO_2-emissions originates from the quicklime and cement industry.

SaltX Technology

Introduction - SaltX





ECRC: Electric Calciner Research Center
SaltX Test Hub: Includes ECTR – Electric Calciner Test Rig

Listed on: First North Premier Growth Market, Sweden

What do we do?

- Electrifying the high temperature hard-to-abate industries

Transition to renewable electricity

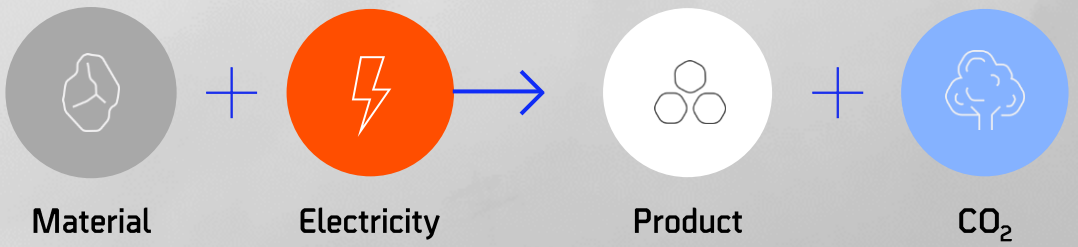
Replacing traditional fossil fuels

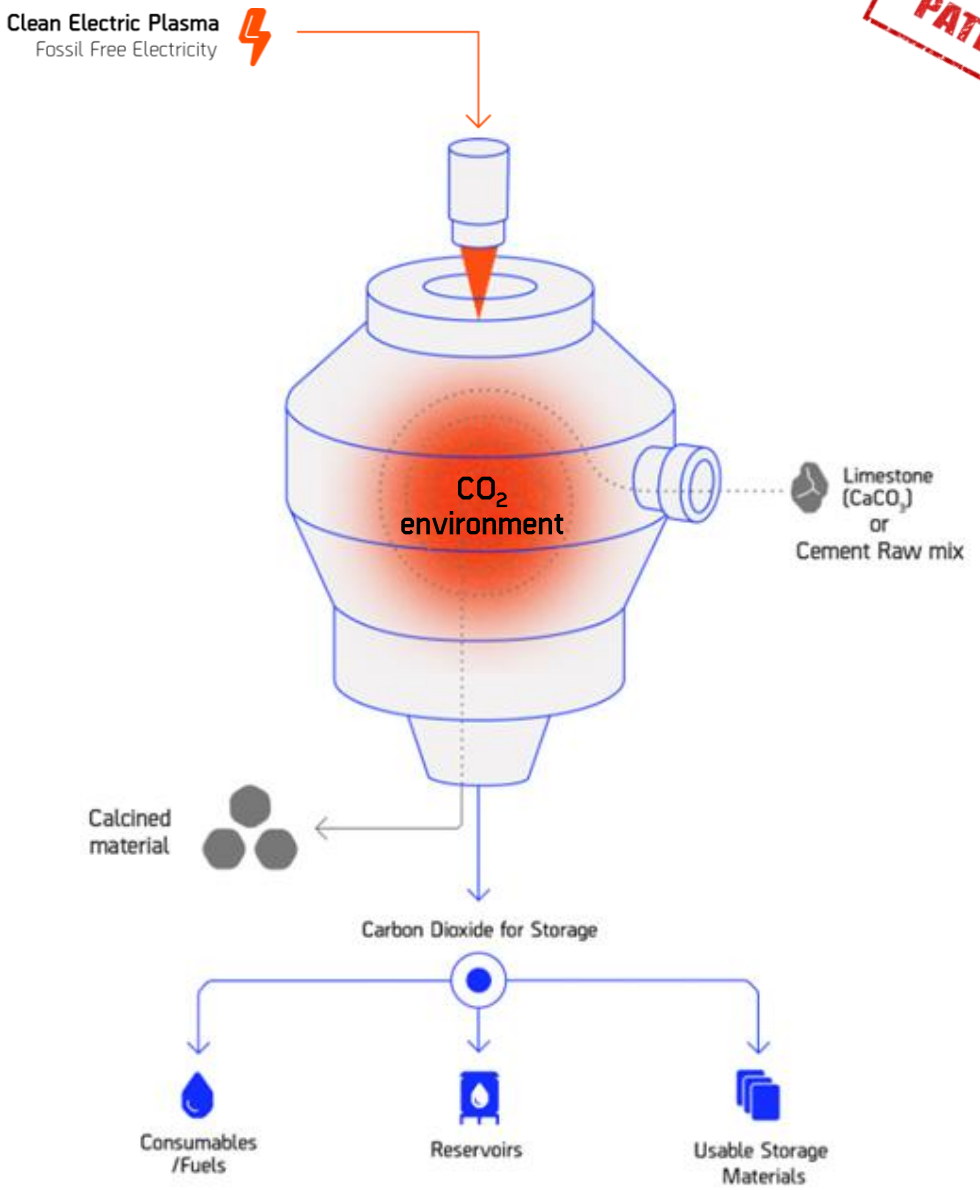
Direct CO_2 separation

Inputs = Limestone or Cement raw meal + Electricity

Reduces operational costs

Lower CO_2 volume for transport and storage





Reinventing the calcination process

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An efficient system

Key advantages

Energy efficient

Direct heat transfer mechanism

Heat recovery and CO_2 separation

High purity output

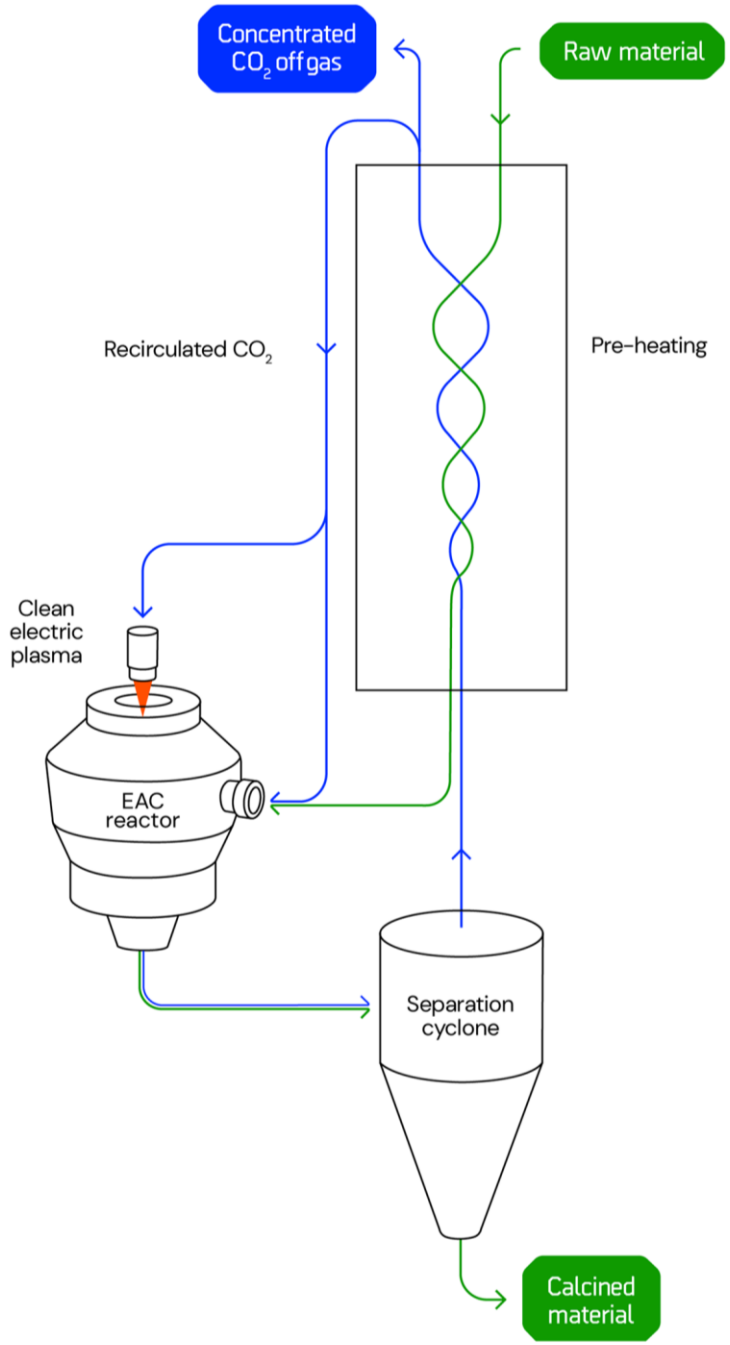
High calcination degree

High purity CO_2 output, enables production of e-fuels

Compact and scalable

Reduction of volumetric flow of off-gas

Plasma technology scalability verified



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EAC compared to CCS

Production of 1 ton Quicklime

EAC process



ELECTRIC CALCINATION AND DIRECT CO_2 SEPARATION

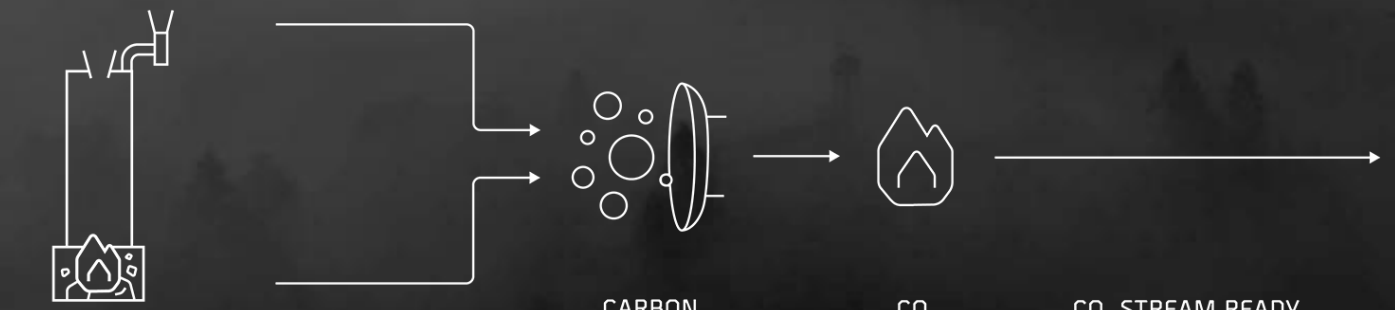
CO_2 STREAM READY FOR SEQUESTRATION

786 kg CO_2

Today's production + CCS

CALCINATION

PROCESS EMISSIONS



FOSSIL FLAME

FLUE GASES

CARBON CAPTURE

CO_2 SEPARATION

CO_2 STREAM READY FOR SEPARATION

1240 kg CO_2

40% more energy

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Application areas



Quicklime

Steel, paper, water purification, agriculture, …

Market size 450 MTPA

Plant size 200 000 TPA



Cement

8% of CO_2 emissions

Market size 4 000 MTPA

Plant size 2-5 MTPA



Carbon Capture

Direct Air Capture

Indispensable for net zero

12.5 GTPA captured CO_2 2050

Plant size 1 MTPA

SaltX Technology

EAC Research Center

Commissioned 2023

Electric Calciner Research Center (ECRC)

Capacity of 1000kg/hour of material feed

Testing customer materials at an industrially-relevant scale

Verifying technology, including all subsystems for full characterization of product

Tests with Limestone and Cement

Positive results with Lime and Cement – High calcination degree and CO_2 purity

Optimization of process parameters and design

Demonstration of process stability - 72 hrs operation

Produced over 80 ton of high-quality quick lime



SaltX Technology

Let's build the future together

