



European Commission

 CEMENT AND LIME



INNOVATION FUND

Deployment of net-zero and innovative technologies

**ERACLITUS: Expanding the Range of Clinker Substitutes.
Designing a Sustainable Future for Cement Sector**

The Innovation Fund is 100% funded by the EU Emissions Trading System

| Project Factsheet

The ERACLITUS project pioneers sustainable cement production by introducing two new Supplementary Cementitious Materials (SCMs). These materials align with four fundamental pillars: achieving a zero-carbon dioxide (CO₂) footprint, leveraging traditional SCM benefits, employing sustainable technologies, and emphasising the strategic importance of new low-carbon SCMs. The project aims to dramatically reduce the carbon footprint up to 55% relative greenhouse gas (GHG) emission reduction, with the innovative materials enabling the production of new cement with only 20% clinker.

The innovation showcased in both new SCM products extends beyond the current state-of-the-art by transforming cement production. The SCMs represent a paradigm shift, utilising a unique blend

COORDINATOR

CEMENTOS LA CRUZ, S.L.

LOCATION

Spain

CATEGORY

Energy intensive industries (EII)

SECTOR

Cement lime

AMOUNT OF INNOVATION FUND GRANT

EUR 4,500,000

EXPECTED GHG EMISSIONS AVOIDANCE

413,396 tonnes CO₂ equivalent

STARTING DATE

01 July, 2024

ENTRY INTO OPERATION DATE

30 June, 2026

FINANCIAL CLOSE DATE

30 June, 2025

of technological operations in SCM production. This approach goes beyond traditional methods and contributes to the circular economy by incorporating industrial, mining, and agroforestry waste as raw materials. Biomass as the sole fuel in the production process further aligns with sustainability goals. The disruptive technology not only focuses on emission reduction but also aims to influence European cement regulations to embrace eco-friendly cement types.

The ERACLITUS project contributes significantly to key policy areas by championing a zero CO2 footprint in cement manufacturing. Its strategic emphasis on sustainable technologies aligns with broader European sustainability goals. Beyond emission reduction, the project seeks to influence

European cement regulations and foster a regulatory environment conducive to cutting-edge and eco-friendly cement production.

The implementation of the new materials not only revolutionises cement production but can also positively impact the local and regional economy, job creation, business clusters, and value chains. The scalable nature of the technology indicates potential efficiency gains and cost reductions, thus contributing to the resilience of the EU economy. The technology's licensable design across Europe emphasises the project's commitment to widespread adoption and amplification of its positive impact, both environmentally and economically.

| Beneficiaries

CEMENTOS LA CRUZ, S.L.

Spain