

INNOVATION FUND

Deploying innovative net-zero technologies for climate neutrality

CT Quarry: Circular Technology Quarry: Providing green materials for more sustainable construction

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

| Project Factsheet

CT Quarry aims to build a first-of-its-kind, industrial-scale plant to recycle industrial waste and sustainably produce secondary raw materials for Europe's construction, glass, and ceramic sectors, with a special focus on agglomerated stone manufacturing industries. By doing so, the project expects to reduce greenhouse gas (GHG) emissions by an estimated 62% compared to the reference scenario.

The project introduces a groundbreaking approach to valorise waste from agglomerated stone industry into new high value materials that will serve as components of final products. The new CT Quarry's process will upcycle over 100,000 tonnes of industrial sludge annually from COSENTINO production and will yield more than 247,000 tonnes per year of secondary raw materials. CT Quarry will also integrate renewable fuels, electrification, and heat recovery into the new process. Thus, the project represents a leap from technology demonstration to full-scale industrialisation.

COORDINATOR

COSENTINO INDUSTRIAL SA

LOCATION

Spain

CATEGORY

Energy intensive industries (EII)

SECTOR

Glass, ceramics & construction material

AMOUNT OF INNOVATION FUND GRANT

EUR 36,724,000

EXPECTED GHG EMISSIONS AVOIDANCE

1,043,594 tonnes CO₂ equivalent

STARTING DATE

01 February, 2025

FINANCIAL CLOSE DATE

31 December, 2026

ENTRY INTO OPERATION DATE

30 June, 2030

CALL NAME

InnovFund-2023-NZT

** Calculated vs. the 2021-2025 ETS benchmark of 6.84 tCO₂e/tH₂, not taking into account additional carbon abatement due to substitution effects in the H₂ end use application, i.e. conservative estimate.*

The project's scalable decarbonisation approach can be replicated with glass, ceramics, and other construction materials, influencing industrial practices well beyond its own footprint. CT Quarry is expected to achieve an absolute GHG emissions reduction of over one million tonnes of CO2 over its first ten years of operation.

CT Quarry supports the Circular Economy Action Plan and the Critical Raw Materials strategy by reducing reliance on finite resources and diverting waste from landfills. By creating innovative secondary raw materials, the project supports Europe's resilience, strategic autonomy, energy independence, and circular practices, all in line with the Net Zero Industry Act. Additionally, CT Quarry will implement stringent health and safety standards, offering a crystalline

silica-free production environment that addresses occupational health risks in manufacturing, construction, and other sectors. This initiative directly supports the European Green Deal's objective of creating toxic-free, sustainable products for green buildings and infrastructure.

Located in the Valle del Almanzora area (Almería, Spain), CT Quarry will drive local economic growth in a region facing demographic challenges. The project will create new direct and indirect jobs in waste management, high-tech manufacturing, and construction. It aims to establish a new industrial hub that combines raw material production with circular economy principles, creating a reference for a sustainable and circular industry for Europe.

| Participants

COSENTINO INDUSTRIAL SA	Spain
COSENTINO GLOBAL SOCIEDAD LIMITADA	Spain
COSENTINO RESEARCH AND DEVELOPMENT, S.L	Spain
SOLUCIONES AMBIENTALES COMA, S.L.U.	Spain
COSENTINO GREEN ENERGY, S.L.	Spain

Additional information on the [EU Funding & Tenders Portal](#).