

DECARBONIZING OUR OPERATIONS WITH CCUS

CARBOCLEARTECH

A key project for decarbonising South-Western France



 MARTRES-TOLOSANE, FRANCE



Funded by
the European Union



CARBONCLEARTECH

CarboClearTech is a carbon capture and storage system that will be installed at Holcim's cement plant in Martres-Tolosane in the Occitanie region of France.

The plant is already one of the most modern in France, thanks to recent investments totaling €124 million. Now, the European Union (EU) Innovation Fund has selected CarboClearTech to receive a grant from a pool of €4.8 billion.

From 2025, the plant will also host an open innovation platform where researchers, start-ups, companies and other innovators can test new carbon capture technologies at scale.

The technology behind the project

CarboClearTech will sequester 700,000 tons of residual CO₂ emissions that would otherwise be released into the atmosphere. It will enable the entire plant to reach net-zero by 2031. Today, the plant accounts for 4% of France's total cement production. Its decarbonization will accelerate the move toward decarbonized construction.

CarboClearTech was developed in partnership with a world leader in industrial gases. The first CO₂ capture site in Southwestern Europe, it brings this vital technology to the region and contributes to its green growth.



OUR PARTNERS

- A world leader in industrial gases for the implementation of the carbon capture unit.
- A regional gas transport operator for the construction and management of the pipeline which will transport CO₂ to onshore storage sites in the Pyrenean foothills.

“As the first CO₂ capture facility in Southwestern France, and also in Southern Europe, CarboClearTech is giving the impetus needed to develop new decarbonized sectors, which are essential for the future of European industry.”



XAVIER GUESNU
CEO, Lafarge France

At a glance



NET-ZERO BY
2031



ANNUAL CO₂ CAPTURE
Around
700,000 tons



PATHWAY
Capture,
storage



FUNDING
EU Innovation Fund



INNOVATION
First CO₂ capture site in
Southwestern Europe



TECHNOLOGY
CarboClearTech



The innovative technological capture process combines two stages : vacuum pressure swing absorption (VPSA) to pre-concentrate CO₂, followed by a cryogenic stage to separate CO₂ from the other gas components.