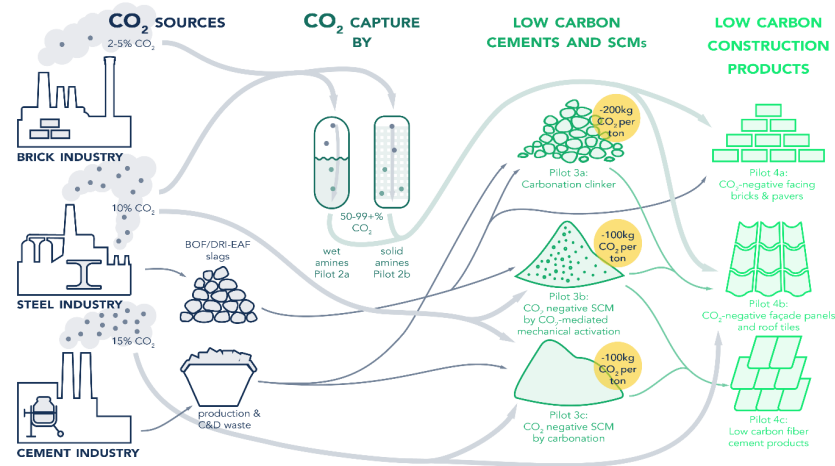


Transforming CO₂ into added-value construction products

The European Green Deal sets ambitious targets for GHG emission reductions for the process industry that can only partly be reached by the transition to renewable energy. Residual, hard-to-abate CO₂ emissions from industrial processes such as steel and cement production will need to be captured, and wherever possible, processed and recycled into new products.

CARBON4MINERALS research project received funding from the European Union's Horizon Europe research and innovation programme under Grant Agreement No. 101091870 with an EU contribution of 14.846.811€ in funding and a total cost of 20 322 450 € to address these targets.

The project addresses the simultaneous use of CO₂ from industrial flue gases with current and future waste streams to unlock a vast stock of resources for innovative low-carbon binders and construction materials (80-135% lower CO₂-emissions).



A total of 8 industrial pilots will be built and operated across the process value chain from CO₂ capture to cement production and low-carbon construction products. Technical, environmental, and economic feasibility will be validated by an integrated assessment and the development of a service life test package tailored to these new products. Co-learning modules are developed to support industrial implementation and market introduction. A consortium of technology providers, producers and research partners will develop, test, and demonstrate the processes.

The research consortium made of 14 partners from 7 different European countries has met for a Kick-Off meeting held from the 1st to the 2nd of February 2023 in Berchem, Belgium also attended by the Project Officer Marko Cacanowski from the European Commission. The partners will work on the concept until the end of the project, which is set for the 31st of December in 2026.

For further information follow the project: [@carbon4minerals](https://twitter.com/carbon4minerals).

