

Transforming CO₂ into added-value construction products

Dear Subscribers, we are thrilled to extend a warm welcome to each of you as esteemed members of the **Carbon4Minerals** community!

INTRODUCTION

Carbon4Minerals is a European Union research project funded by the European Union's Horizon Europe research and innovation programme under Grant Agreement No. 101091870.

The **Carbon4Minerals** project develops innovative technologies for CO₂ capture and uses in carbon-negative construction products, reducing CO₂-emissions by 80-135% compared to cement-based reference materials. Visit [CORDIS](#) for more information.

KICK-OFF MEETING



The research consortium of 14 partners from 7 different European countries has met for a Kick-off meeting held from the 1st to the 3rd of February 2023 in Berchem, Belgium. The meeting was hosted by the coordinator [VITO](#) and also attended by the Project Officer from the European Commission.

All partners presented their work packages and plans for the next 6 months and discussed future tasks. Read more about the event in our [first press release](#) and check out our [gallery](#) for more photos!

WEBSITE

For all information about the project, explore our website created in collaboration with our partner, [FENELTITE](#). There, you'll find comprehensive details about the project's concept and objectives.



www.carbon4minerals.eu

[FENELTITE](#) also designed a series of promo materials to help our partners disseminate and communicate the project's goals. All promo materials are available for download on our website in the [DOCUMENTS](#) section, where you can also read the project's articles and press releases.



ENERGY INNOVATION MAGAZINE

We have released our very first publication, highlighting the project's insights, concept, and solutions in the Summer 2023 edition of [European Energy Innovation](#) magazine, written by our partner [Zuzana Tadišková](#) from [FENELTITE](#).

This marks an important milestone since our launch in January 2023. Dive into the article to discover the innovative strides we're making towards a sustainable future [here](#)!



NEWS & EVENTS

Visit our [News & Events](#) section on our website so you don't miss any project news that is updated every week!



The first **ERCOM** meeting of the project was held online on the **26th of April**, representing an important milestone for the team. The project's **work package leaders** came together to review the progress made in their respective work packages and to plan the next steps under the guidance of the project coordinator.

Our partners from [KEM Chemical Solutions](#) will be attending the [EuroMa2023](#) conference from **August 18th to September 2nd** in Athens, Greece. This event will bring together a diverse group of professionals, including academics, engineers, industry executives and policymakers, to exchange knowledge on raw materials and the circular economy.



Our partner [NTNU](#) organized a **60000 Workshop** and contributed to the educational aspect of the project. During the workshop, participants gained a better understanding of **thermodynamic equilibria** and **mass balance calculations** and learned how to use **GEOS**, a thermodynamic modelling software developed at NTNU, for cementitious systems.

[MAGFORUM 2023](#), our partners [KEM](#), [DSM](#) shared valuable insights during their presentation "Transforming CO₂ from magnesite production into added-value construction products". Interesting discussions took place, and it was possible to generate awareness for the project technologies in the magnesite industry.



The consortium also met for a meeting after **6 months** from the start of the project on June 6th and 7th, in the beautiful city of **Aachen, Germany**, hosted by our partners from [RWTH Aachen University](#).

The partners took the opportunity to present their work, providing insights into their respective contributions to the project and outlining their plans for the future. Read more about the highlight [here](#) and check our [gallery](#) for more photos.

PLATFORMS AND PORTALS



Carbon4Minerals is a proud member of the **ECTP** platform! The European Construction, built environment and energy efficient building Technology Platform is a leading membership organisation promoting and influencing the future of the Built Environment.

Carbon4Minerals is also cooperating with the EU **BUILD UP** portal. **BUILD UP** is the **European portal for energy efficiency in buildings** and an initiative of the European Commission. And also aims to promote better and smarter buildings across Europe by connecting building professionals, local authorities and citizens.



COOPERATION



The main aim of the **CO₂TREAT** project is to design resource-efficient, low-carbon binder products for durable concrete and civil engineering applications by partially substituting Portland cement with secondary resources/beneficiated by treatment with CO₂.



Technical Committee MCP, Accelerated Mineral Carbonation for the production of construction materials. The TC will mainly address the relationship between material characteristics and processing parameters, consolidation of recent developments in the field and building consensus on their classification, definition of terms and nomenclature.



ASPIRE is the European Association which is committed to managing and implementing the Process4Planet co-programmed partnership. It represents innovative process industries, 20% of the total European manufacturing sector in employment and turnover, and more than 180 industrial and research process stakeholders from more than 20 countries throughout Europe.



Enlit Europe is a dynamic and inclusive platform dedicated to advancing the energy transition in Europe. Its mission is to connect industries, inspire action, and facilitate the evolution towards a decarbonized and digitalized energy system, delivering clean and reliable energy for all. It covers every aspect of the energy agenda, making it an end-to-end forum for industry professionals.

CONSORTIUM

Discover our exceptional consortium, from universities, technology centres, research institutes, and leading companies. Visit our [Partners](#) page to learn more.



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