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Pioneering CCS in the Mediterranean: Heidelberg Materials to launch decarbonisation project in Italy

- **Heidelberg Materials has started a feasibility study for a decarbonisation project at its Rezzato-Mazzano cement plant in the Italian province of Brescia**
- **The project will investigate a potential source-to-sink CCS solution and aims to make the plant the first in Italy to produce carbon captured net-zero cement which will be marketed under the evoZero® brand**
- **Building on recent developments in the area of storage opportunities, Heidelberg Materials could participate in future allocation processes for the transport and storage of CO₂ by the recently announced CCS Ravenna project**

Heidelberg Materials has started a feasibility study for a decarbonisation project at its Rezzato Mazzano cement plant in the province of Brescia, which could become the first plant in Italy to produce carbon captured net-zero cement and concrete. With expertise from its broad range of CCUS projects that have already been launched and an ambitious net-zero roadmap, Heidelberg Materials is well positioned to participate in the development of the CCS sector in Italy.

In the area of CO₂ storage opportunities, an important development is the start of phase 1 of the Ravenna CCS project, carried out by a joint venture between Italian integrated energy company Eni and energy infrastructure operator Snam. This milestone opens up possible scenarios for Heidelberg Materials' CCS project at the Rezzato-Mazzano plant, which could participate in the future allocation processes of CO₂ transport and storage capacities in the depleted gas fields off the coast of Ravenna.

“We are excited to explore the economic feasibility of a carbon capture initiative in the Mediterranean”, said Dr Dominik von Achten, Chairman of the Managing Board of Heidelberg Materials. “Our ambition at Heidelberg Materials is not only to implement a decarbonisation initiative that is highly efficient in terms of resources and energy, but also to provide an important impetus for the development of a regional CCS cluster.”

As part of the initiative, Heidelberg Materials will evaluate the feasibility of capturing CO₂ from cement production and transporting it via pipeline to the Ravenna CCS storage hub under the Adriatic Sea. In this regard, Heidelberg Materials has started technical discussions with Eni and Snam for a preliminary technical evaluation.

Jon Morrish, Member of the Managing Board of Heidelberg Materials and responsible for Europe, said: “With an aspired capture rate of more than 95% of our plant’s emissions, this initiative aims to explore options for industrial-scale CCS in Italy. This would enable us to supply locally produced, carbon captured net-zero cement under our evoZero® brand to customers in the region.”

As announced by Eni and Snam, the Ravenna CCS project aims at leveraging Eni’s depleted gas fields in the Adriatic Sea which would be converted for exclusive use as permanent geological CO₂ storage sites. The total storage capacity of these fields is estimated at more than 500 million tonnes, making this project the reference CCS hub in the Mediterranean. Snam is committed to developing a pipeline network to transport CO₂ from emitters to the Ravenna CCS hub.

Caption: The Rezzato-Mazzano cement plant of Heidelberg Materials in the Italian province of Brescia (credits: Heidelberg Materials)

About Heidelberg Materials

Heidelberg Materials is one of the world's largest integrated manufacturers of building materials and solutions with leading market positions in cement, aggregates, and ready-mixed concrete. We are represented in more than 50 countries with around 51,000 employees at almost 3,000 locations. At the centre of our actions lies the responsibility for the environment. As the front runner on the path to carbon neutrality and circular economy in the building materials industry, we are working on sustainable building materials and solutions for the future. We enable new opportunities for our customers through digitalisation.

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