

24 May 2022

Successful Conclusion to Phase 1 of the Höver decarbonisation project

Cool Planet Technologies Limited (CPT), a sustainable technology company focussed on affordable CO₂ capture, is pleased to reproduce a copy of Holcim (Deutschland) GmbH's press release on the successful conclusion of Phase 1 of the Höver decarbonisation project:

Decarbonisation of Höver cement plant with new technology

10 May 2022

First test phase with promising results



CO₂ separation plant in the Höver cement works - based on an innovative membrane technology

A promising technology is currently being tested at the Höver cement plant that can make an important contribution to the decarbonisation of the cement industry in Germany: At the end of last year, Holcim (Deutschland) GmbH signed a letter of intent with its partners Cool Planet Technologies Limited, a company in the field of sustainable technologies and focused on CO₂ capture, and the Helmholtz-Zentrum Hereon. At the heart of the cooperation is the construction of a CO₂ capture plant at the Höver cement plant, which is based on innovative membrane technology.

After several weeks of running the test facility and completion of the preliminary test phase, the results are extremely positive. "We can observe a good separation rate and comparatively high purities. We are pleased with the very promising results of the first test

phase," says Holcim Plant Manager Stephan Hinrichs. "I am very proud that we are one of the first cement plants in the world to gain really practical experience with CO₂ capture."

The next phase of the two-and-a-half-year research and development project will start in August. A one-year active test phase, during which the plant is to be examined in long-term operation, is

planned for September next year. If the good results are confirmed here, the plant will be gradually expanded so that it can separate around 90 percent of the CO₂ emissions after the final expansion stage and supply high-purity CO₂ in liquid form for sequestration or further use. The aim of plant operation is to demonstrate performance, cost-effectiveness and operational behaviour on a larger scale in order to check whether the technology can be used not only in Höver, but also in other cement plants.

For the test phase and the construction of a larger test container in the first expansion phase, an expression of interest was submitted for funding to the Competence Centre climate protection in energy-intensive industries (KEI) as part of the "Decarbonisation in Industry" funding programme. Recently, there has been positive feedback from the KEIs and the associated invitation to submit a full proposal. "We are very much hoping for positive feedback and funding commitment by the summer of this year," explains Stephan Hinrichs.

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We would like to thank Holcim (Deutschland) GmbH for their kind permission to reproduce this translation of their press release.

A copy of the original press release in German can be found here:

<https://www.holcim.de/de/dekarbonisierung-des-zementwerks-hoever-mit-neuer-technologie>