

Avantium R&D Solutions Leads Successful Direct Air Capture Experiment for Origen Carbon

AMSTERDAM, 28 April 2025 – Avantium N.V., a leading company in renewable and circular polymer materials, is pleased to announce the successful completion of a Direct Air Capture (DAC) screening project for Origen Carbon, a leading innovator in the direct air capture sector. The project, conducted using Avantium R&D Solutions' innovative high-throughput multi-column system, aimed to assess the performance of Origen Carbon's materials for CO₂ adsorption.

Direct Air Capture is crucial in combating climate change by removing CO₂ directly from the atmosphere. This technology uses chemical or physical methods to capture CO₂, which can then be stored or utilized. Avantium R&D Solutions' high-throughput testing platform accelerates the development of better materials for CO₂ adsorption, addressing challenges such as higher capacity and energy efficiency.

Avantium's advanced high-throughput system has proven to be highly effective for this type of testing, showcasing its ability to efficiently and accurately assess the performance of direct air capture materials. The insights gained from this experiment will be invaluable in enhancing Origen Carbon's innovative solutions.

Jack Shield, Senior Scientist of Origen Carbon, stated: "This collaboration with Avantium R&D Solutions has been highly valuable in advancing our DAC technology. The precision and efficiency of their testing system have provided us with critical data to refine our materials and improve our carbon capture solutions."

Rudolf Wessels, Director Strategic Development of Avantium R&D Solutions, added: "We are proud to support Origen Carbon in their mission to combat climate change. Our high-throughput testing platform is designed to deliver rapid and accurate results, helping to drive innovation in carbon capture technologies."

About Origen Carbon

Origen Carbon is a pioneering company dedicated to combating climate change through innovative carbon removal technologies. Utilizing scalable, limestone-based direct air capture (DAC) systems, Origen Carbon aims to permanently reduce the level of CO₂ in the atmosphere. Our cutting-edge approach leverages the natural chemistry of abundant limestone rock to capture and sequester billions of tonnes of carbon dioxide, restoring the atmosphere and mitigating the greenhouse effect. With a commitment to sustainability and a global team of experts, Origen Carbon is at the forefront of developing effective solutions to preserve our planet for future generations.

For more information, visit [Origen Carbon](#)

About Avantium

Avantium is a pioneering commercial-stage company focused on renewable & circular polymer materials. Avantium develops and commercialises innovative technologies for the production of



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materials based on sustainable carbon feedstocks, i.e. carbon from biomass or carbon from the air (CO₂). The most advanced technology is the YXY[®] Technology that catalytically converts plant-based sugars into FDCA (furandicarboxylic acid), the key building block for the sustainable plastic PEF (polyethylene furanoate). PEF is known under the brand name Releaf[®], an EU registered trademark of Avantium. Avantium has successfully demonstrated the YXY[®] Technology at its pilot plant in Geleen, the Netherlands, and is in the process of starting the world's first commercial plant for FDCA in Delfzijl, the Netherlands. Avantium works in partnership with like-minded companies around the globe to develop revolutionary renewable chemistry solutions from invention to commercial scale.

Avantium's shares are listed on Euronext Amsterdam and Euronext Brussels (symbol: AVTX). Avantium is incorporated in the Euronext Amsterdam SmallCap Index (AScX). Its offices and headquarters are in Amsterdam, the Netherlands.

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