

Avantium Catalysis expands to fulfil growing demand for R&D in sustainable chemistry

Business unit to be renamed “Avantium R&D Solutions”

AMSTERDAM, 11 October 2022, 17:45 hrs CEST – Avantium N.V., a leading technology company in renewable chemistry, announces that its business unit Avantium Catalysis will expand its business to focus increasingly on R&D solutions for sustainable chemistry. In addition to providing advanced catalysis R&D systems and services to customers worldwide, the business unit will extend its offerings to target four emerging markets for sustainable chemistry: 1. Green hydrogen; 2. Chemical plastic recycling; 3. Adsorption; and 4. Sustainable chemical building blocks. Avantium Catalysis will be renamed “Avantium R&D Solutions”.

Avantium’s Catalysis business unit has for many years been helping companies accelerate their catalyst R&D by offering scalable catalyst test systems (Flowrence® and Batchington) and by conducting in-house catalyst research projects. Recently, there has been a significant increase in requests for R&D solutions in sustainable chemistry. With its unique capabilities in innovative chemistry R&D and engineering, Avantium is perfectly positioned to support this growing and attractive market segment.

Avantium will focus on four emerging markets in the field of sustainable chemistry, offering tailored, innovative R&D units and contract R&D. These four markets are: green hydrogen, chemical plastic recycling, adsorption, and sustainable chemical building blocks.

- 1) Green hydrogen: Avantium will focus on process development (integrated laboratory units) for water electrolysis to produce green hydrogen.
- 2) Chemical plastic recycling: catalyst and process development to upgrade pyrolysis oil from recycled plastics or biomass, for example by removing impurities such as oxygen, sulphur or nitrogen. This upgraded liquid is then used to replace fossil-based feedstock in the production of a variety of sustainable and circular chemicals and materials.
- 3) Adsorption: the growth in sustainable chemistry and bio-based products requires more purification of, and separation of contaminants from, product streams by adsorption. Over the past years, Avantium has already built and delivered tailor-made high-throughput test units for liquid, gas and respiratory adsorption for customers such as Ircelyon.
- 4) Sustainable chemical building blocks: Avantium will build tailored systems for customers to facilitate the chemical conversion from biomass to sustainable chemical building blocks.

Avantium will offer R&D units and services in those four fields to existing customers, but also intends to grow its business with new customers.

Steven Olivier, Managing Director of Avantium R&D Solutions, comments: “We have more than 20 years in experience in R&D solutions with our innovative Flowrence® technology and R&D Services. We will now apply that experience to serve customers in the emerging and rapidly growing field of sustainable chemistry. This serves a clear and promising market demand and also fits well within the purpose of Avantium: to help transition the chemical industry to sustainable and circular solutions.”

About Avantium

Avantium is a leading technology development company and a frontrunner in renewable chemistry. Avantium develops novel technologies based on renewable carbon sources as an alternative to fossil-based chemicals and plastics. The company currently has three technologies at pilot and demonstration phase. The most advanced technology is the YXY[®] plant-to-plastics-technology that catalytically converts plant-based sugars into FDCA (furanicarboxylic acid), the key building block for the sustainable plastic PEF (polyethylene furanoate). Avantium has successfully demonstrated the YXY[®] Technology at its pilot plant in Geleen, the Netherlands, and has started construction of the world's first commercial plant in 2022, with planned large-scale production of PEF in 2024. The second technology is Ray Technology[™] and catalytically converts industrial sugars to plant-based MEG (mono-ethylene glycol): plantMEG[™]. Avantium is scaling up its Ray Technology[™] and the demonstration plant in Delfzijl, the Netherlands opened in November 2019. The third technology is called the Dawn Technology[™] that converts non-food biomass into industrial sugars and lignin in order to help transition the chemicals and materials industries to non-fossil resources. In 2018, Avantium opened the Dawn Technology[™] pilot biorefinery in Delfzijl, the Netherlands. Next to developing and commercialising renewable chemistry technologies, the company also provides advanced catalysis R&D services and systems to customers in the refinery and chemical industries. Avantium works in partnership with like-minded companies around the globe to create 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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