

## Avantium partners with R&F Chemical to market high-value PEF applications in Korea

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**AMSTERDAM, 31 October 2019, 08:30 CET – Avantium Renewable Polymers and R&F Chemical announce their marketing and development partnership for high-value markets for PEF in electronics and smart packaging in Korea. This partnership is a further validation of Avantium’s strategy to focus on high-value applications for PEF (polyethylene furanoate) for its 5 kilotons Flagship Plant with a planned opening in 2023, announced on the Technology & Markets Day of Avantium in June 2019.**

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With the today announced partnership of R&F Chemical with Avantium Renewable Polymers, Avantium has expanded its relationship with R&F Chemical into the area of PEF, a 100% plant-based and fully recyclable performance polymer based on Avantium’s proprietary YXY plants-to-plastics technology. The Catalysis business unit of Avantium already joined forces with R&F Chemical in 2018 to boost its Catalysis business in South Korea. R&F Chemical brings a long-standing and excellent network in polymers and chemicals in South Korea, which has a highly-advanced performance materials and chemical sector. Through R&F Chemical, Avantium Renewable Polymers expects to enter this market for high-value applications such as electronics and smart packaging.

Marcel Lubben, Managing Director of Avantium Renewable Polymers, comments: “Avantium Renewable Polymers sees fast-growing interest for PEF in high-value markets across the globe. R&F Chemical is highly respected as a leader in the development and marketing of high-performance sustainable plastics. The South Korean industry is deeply committed to innovation. We are therefore very pleased to enter into a partnership with R&F Chemical who brings us access to important market players in South Korea.”

Peter Park, CEO of R&F Chemical, adds: “We are honoured to work together with Avantium to make Avantium’s PEF available to high-value performance products in South Korea. PEF has the capacity to significantly improve the performance and sustainability of our customers' end products.”

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### About Avantium

Avantium is a leading technology development company and a forerunner 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 a wide range of chemicals and plastics, such as PEF (polyethylene furanoate). Avantium has successfully demonstrated the YXY Technology at its pilot plant in Geleen, the Netherlands. The second technology is the Dawn Technology™ that converts non-food biomass into industrial sugars and lignin in order to transition the chemicals and materials industries to non-fossil resources. In 2018, Avantium opened the DAWN pilot biorefinery in Delfzijl, the Netherlands. The third

technology is called Mekong and catalytically converts industrial sugars to plant-based MEG (monoethylene glycol). Avantium is currently building a new demonstration plant for Mekong with an opening planned in Delfzijl in November 2019. Next to developing and commercializing 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). Its offices and headquarters are in Amsterdam, the Netherlands.

#### **About R&F Chemicals**

R&F is a platform company in the chemical industry that develops and supplies products that customers want with differentiated technology and enthusiasm. From functional resin to composite film, R&F explores the needs of a variety of customers and creates new values based on R&F's chemical and polymer expertise and experience. Beyond R&D, R&F operates in a C&D way that 'C'onnects with the customers to 'D'velop the technology. In other words, R&F identifies the customer trend, and solves the problem through a technical meeting with the customers. For more information, visit: <http://www.rnfchemical.com>

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