

How can existing renewable streams of molecules be utilized by the chemical industry? Existing Biorefineries and their extension- An update on the VerbioChem project

Verbio is pioneering renewable and sustainable solutions for mobility, chemical and pharmaceutical industry, food, feed, cosmetics and agriculture. In its biorefineries in Europe, North America and India, Verbio processes biomass and residues from regional agriculture into climate-friendly fuels, green energy and renewable components for the chemical industry.

As established producer of large volumes of renewable and biobased molecules, Verbio with the VerbioChem project pursues a long-term innovation strategy to expand its value streams from energetic to material use. We add to our existing biorefineries an additional step to serve future markets.

The presentation will cover the status quo of Verbio's Biodiesel biorefinery and illustrate how VerbioChem will be implemented to extend the concept. The presentation will give an update on the current timelines and status of the commercialization of the Verbio technology to produce methyl-9-decenoate (9DAME), 1-decene and C18 diacids from renewable rapeseed methyl ester by olefin metathesis/ethenolysis, providing the chemical industry products with low carbon footprint for specialty chemical and polymer applications. VerbioChem will bring 60kta of renewable, biobased molecules to the market. In the future, this innovation can serve as a platform for the specialty chemicals industry to facilitate the transition of the biodiesel industry to serve the chemical industry.

An integral part of the VerbioChem project are innovative metathesis catalysts. Verbio's catalyst subsidiary XiMo Hungary kft builds a dedicated metathesis catalyst production plant to serve the market and enable a broader application of metathesis catalysts for various applications in renewables, F&F, polymers, agrochemicals, and pharma.

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