A circular solution to plastic waste

Sulzer Chemtech will provide its SuRe™ BTX technology to recover high value circular petrochemicals downstream of Encina's mixed plastics catalytic conversion process.

Sulzer Chemtech has finalized an agreement with Encina Development Group, LLC. Sulzer Chemtech will provide technology to recover high purity circular aromatics from cracked oil products derived from Encina’s mixed-plastics-to-aromatics catalytic conversion platform. Encina’s 1000 tons per day waste plastics recycling facility will be located in Northeast United States, and is expected to be operational in 2024.

Encina has developed a catalytic platform wherein the cracked products selectively contain high levels of circular aromatics as well as other valuable by-products. Sulzer Chemtech will provide its hydrotreating and aromatics extraction technology (SuRe BTX) to recover high purity circular benzene and toluene.

Sulzer Chemtech’s flagship aromatic extraction technology (GT-BTX®) has been deployed worldwide for aromatics recovery from reformate and naphtha cracked pyrolysis with more than 70 licenses sold. This is the first commercial application of this technology where waste plastics is used as feedstock within a circular chemical solution to help resolve a global environmental issue.

Carlo Badiola, Senior VP of Engineering and Technology at Encina, comments: “We selected Sulzer Chemtech and its SuRe™ BTX technology due to the company’s leading expertise in aromatic extraction. Sulzer Chemtech’s technology will allow us to produce high-quality circular aromatics from catalytically converted oil products derived from plastic waste. This collaboration will drive-up sustainable practices in industry.”

Sander van Donk, Head Global Technology Business at Sulzer Chemtech, concludes: "We are pleased to support Encina’s mission of enabling circularity in plastics recycling by providing our SuRe™ BTX technology downstream of their catalytic conversion process. This novel value chain builds on Sulzer Chemtech’s commitment to circularity and opens up an entirely new market for ultra-pure circular benzene and toluene produced from waste plastics."

Image Captions:
Image 1: Sulzer Chemtech will provide its SuRe™ BTX technology to Encina's new facility in Northeast United States. (Image Source: AdobeStock 12318109)

Image 2: SuRe™ BTX technology supports the recovery of high purity circular aromatics from mixed-plastics-to-aromatics catalytic conversion platforms. (Image Source: AdobeStock 423420013)

About Encina Development Group

Encina Development Group produces circular chemicals from waste plastics. Encina's basic circular chemical products provide the building blocks for customers to meet their renewable content goals and enable the cyclical production and reproduction of products across a broad spectrum of ubiquitous goods, including consumer products and packaging, pharmaceuticals, construction, and much more.

www.encina.com

About Sulzer

Sulzer is a global leader in fluid engineering. We specialize in pumping, agitation, mixing, separation and application technologies for fluids of all types. Our customers benefit from our commitment to innovation, performance and quality and from our responsive network of 180 world-class manufacturing facilities and service centers across the globe. Sulzer has been headquartered in Winterthur, Switzerland, since 1834. In 2021, our 13'800 employees delivered revenues of CHF 3.2 billion. Our shares are traded on the SIX Swiss Exchange (SIX: SUN).

The Chemtech division is the global market leader in innovative mass transfer, static mixing and polymer solutions for chemicals, petrochemicals, refining and LNG. We are steering the way in ecological solutions such as bio-based chemicals, polymers and fuels, recycling technologies for textiles and plastic as well as carbon capture and utilization/storage, contributing to a circular and sustainable economy. Our product offering ranges from process components to complete process plants and technology licensing.

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