LanzaTech

Carbon Recycling for a New Carbon Economy

LanzaTech is the global leader in gas fermentation technology converting carbon-rich gas streams to valuable products using its proprietary microbes that feed on gases (rather than sugars, as in traditional fermentation). LanzaTech's **naturally occurring** microbe has been optimized to provide economic routes to ethanol, jet fuel and high value chemicals from a variety of carbon-rich gas streams, such as: industrial **emissions, s**yngas generated from any solid resource, including agricultural waste, municipal solid waste (MSW), and organic industrial waste **and** reformed biogas**.** Further conversion results in a variety of CarbonSmart™ products ranging from textiles and laundry detergents to packaging and sustainable aviation fuels. LanzaTech has a broad portfolio of new platform products in the pipeline, including MEG, IPA, and Acetone.

Fields of activity

By capturing and transforming the carbon contained in these gas streams, LanzaTech produces platform chemicals that serve as building blocks to indispensable consumer products such as rubber, plastics, synthetic fibers and fuels. LanzaTech's technology is being commercialized around the world through licensing to companies that will build, own, and operate gas fermentation facilities. LanzaTech is also developing relationships with consumer brands and tolling partners to develop the capability to upgrade its ethanol to ethylene, which can be converted to a variety of ethylene derivatives, including Polyethylene, Polyvinyl Chloride (PVC), and Monoethylene Glycol (MEG). These products offer drop-in replacements for virgin materials, making them a CarbonSmartTM approach to low carbon chemicals and materials. LanzaTech has already launched several products into the market, including PET beverage and product bottles with Mibelle and Migros, surfactants in Unilever home care products, and a line of polyester dresses with Zara and sports apparel with Lululemon.

Importance for Chemicals Sector

There are 450 million tons of embedded carbon in chemicals. While energy can be de-carbonized, carbon is needed to produce chemicals that serve as the building blocks for materials, polymers, fragrances, solvents, protein, and fuels.

LanzaTech's process for producing ethanol from captured carbon reduces greenhouse gas emissions compared to fossil-fuel-based production. For every ton of CarbonSmart™ product made, two tons of CO2 are removed. CarbonSmart™ products result in an improved carbon footprint to support your sustainability ambitions. LanzaTech's technology is a scalable solution that is readily available in the market today.

Our goal is to change how the world uses carbon, enabling a new circular carbon economy where carbon is reused rather than wasted, skies and oceans are kept clean, and pollution becomes a thing of the past. LanzaTech is working with companies today to simplify their supply chains and reduce their environmental impact by choosing sustainable sources of carbon. CarbonSmartTM products are drop in solutions which enable companies to achieve their sustainability ambitions. Join us in creating a post pollution future and contact us today to see how we can work together to transform the carbon economy.

LANZATECH

Offices & Facilities

- HQ, Skokie, IL, USA
- UK
- EU
- Georgia, USA
- India
- China
- New Zealand

Employees

- 360 globally

Key services

- Licencing of Technology
- Equipment Supply
- CarbonSmart Chemicals
- Contract Research

More information

www.lanzatech.com

Selected customers

ArcelorMittal

Licensing Technology, Ghent, Belgium

Mibelle and Migros

CarbonSmart™ ethanol and PET

COTY

CarbonSmart™ ethanol

CONTACT

LanzaTech

Ottergemsesteenweg-Zuid 713,

9000 Ghent

Belgium

www.lanzatech.com

Contact Person

Babette Pettersen

Vice President, Europe

babette.pettersen@lanzatech.com