

CAPTURING CARBON. CREATING VALUE

Pettersen B.

LanzaTech Inc.

LanzaTech converts carbon-rich gases into sustainable fuels and chemicals by a process of gas fermentation, with 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 chemicals from a variety of carbon-rich gas streams, such as industrial off-gases from steel and ferroalloy mills, syngas generated from any solid resource, including agricultural waste, municipal solid waste (MSW), plastics waste and waste wood, and even CO₂ from Direct Air Capture (DAC). By capturing the carbon contained in these gas streams, LanzaTech's gas fermentation process reduces industry carbon emissions whilst producing sustainable aviation fuels and chemicals that serve as building blocks for a broad range of consumer products including household cleaning products and detergents, fine fragrances, packaging, textile fibers and fuels. Products made with LanzaTech's process offer an improved environmental profile and reduce greenhouse gas emissions by over 70% when compared to equivalent products derived from fossil fuels.