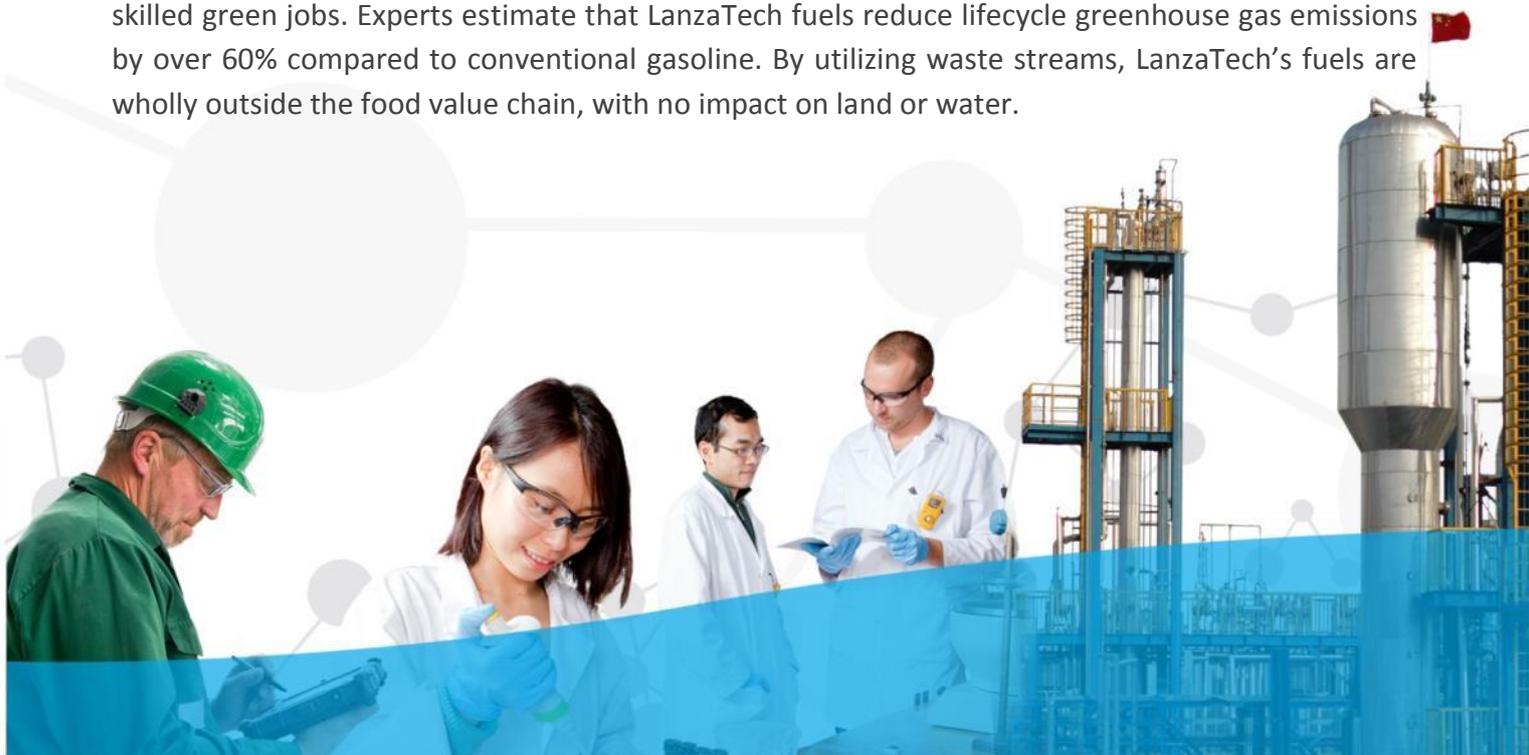




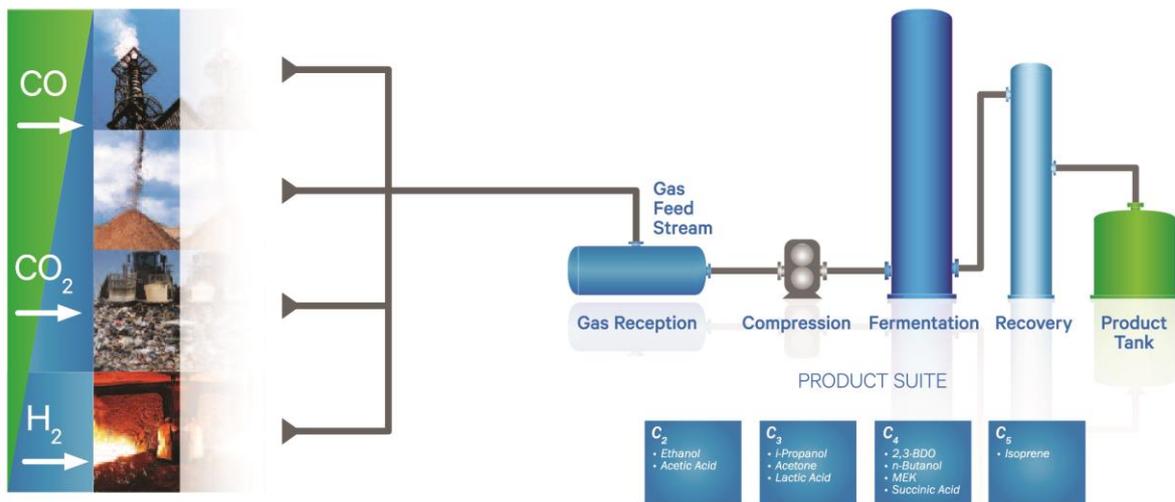
CEO:	Dr. Jennifer Holmgren
Board of Directors:	Andrew Chung, Datuk (Dr.) Abdul Rahim Hashim, Dr. Jennifer Holmgren, Jim Messina, Gary Rieschel, Dr. Sean Simpson, Toru Ryoso, Dr. Roger Wyse, Nigel Gormly
140+ Staff Globally:	HQ: Chicago, Illinois USA Offices in: Auckland, New Zealand; Shanghai, China; New Delhi, India; and Soperton, USA
Series A:	US \$12M
Series B:	US \$18M
Series C:	US \$60M, US \$15M debt
Series D:	US \$112M
IP Portfolio:	Over 250 Patents pending; 85 granted 2 proprietary microbe families

About LanzaTech

Founded in 2005, LanzaTech is commercializing a pioneering carbon capture and reuse technology that converts carbon-rich waste gases (containing carbon monoxide, carbon dioxide, and/or hydrogen) into high-quality, advanced biofuels and chemicals. Through production of chemicals, LanzaTech presents a route to carbon sequestration, whereby carbon in waste gases and residues is sequestered into a new product - e.g., 2,3-Butanediol from waste steel mill gases is a chemical used for the production of nylon and rubber. The LanzaTech process will help the U.S. meet growing renewable fuel obligations, generate new revenue streams for heavy manufacturing, and create skilled green jobs. Experts estimate that LanzaTech fuels reduce lifecycle greenhouse gas emissions by over 60% compared to conventional gasoline. By utilizing waste streams, LanzaTech's fuels are wholly outside the food value chain, with no impact on land or water.



The LanzaTech Process



Carbon-rich waste or residue gas streams enter a fermentation bioreactor. Proprietary microbes consume the gas and grow biomass, producing ethanol as a byproduct. Valuable products are then separated from the fermentation broth and used directly downstream or as chemical intermediates for products such as plastics, nylons, rubbers, and "drop-in" fuels.

Carbon Capture and Reuse

Carbon Capture and Reuse technologies provide another option to traditional CCS ones. By retrofitting a LanzaTech facility at source, captured carbon rich gas streams can be directly converted to low carbon liquid fuels and chemicals on site. With sights set on making an immediate impact, LanzaTech is ready for immediate implementation across the United States at commercial scale.

Process Scale-up and Commercialization



2008

Blue Scope
New Zealand
Pilot
(15,000 gal/yr)



2012

Baosteel
China
Pre-commercial
(100,000 gal/yr)



2013

Capital Steel
China
Pre-commercial
(100,000 gal/yr)



2015

Freedom Pines
USA
Pilot
125 ton/day dry
wood residue



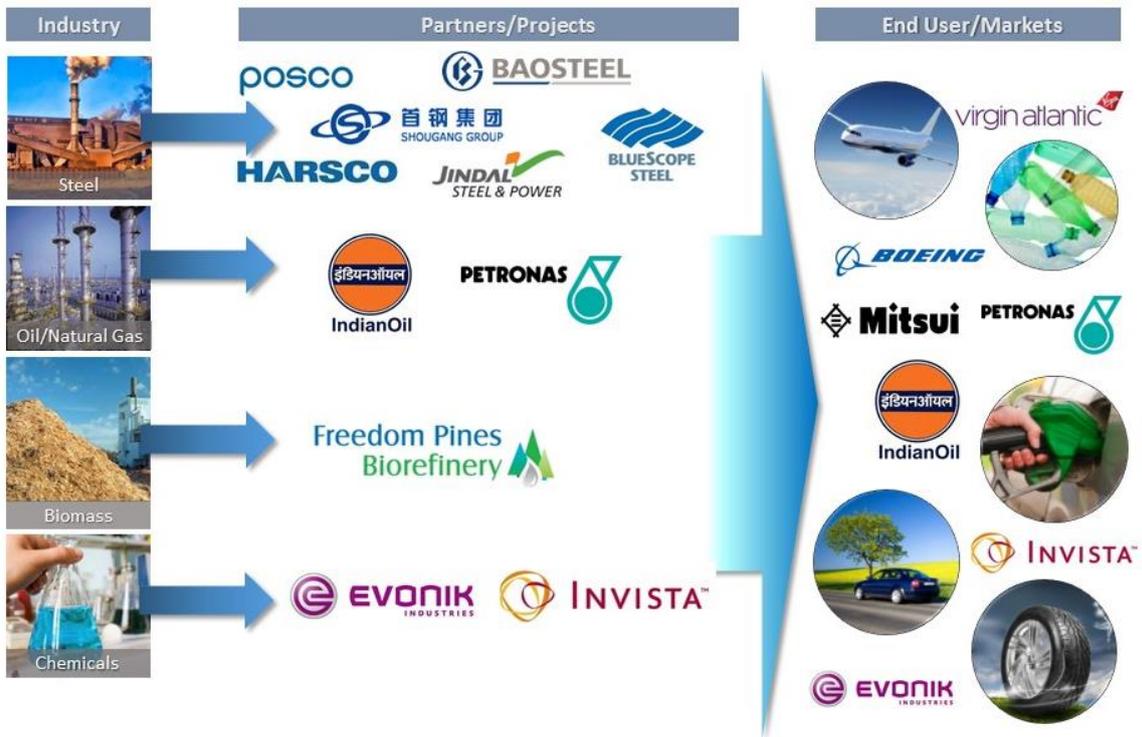
2016

2X Commercial
(10 - 30M gal/yr)

Environmental Benefits

<i>GHG Emissions</i>	<ul style="list-style-type: none"> • LanzaTech ethanol offers up to 70% GHG emissions reduction compared to petroleum gasoline on a well-to-wheel energy basis • Globally, up to 150 M tonnes of CO₂ emissions could be avoided by re-using steel mill gas residues alone for ethanol production
<i>Air Pollutants</i>	<ul style="list-style-type: none"> • LanzaTech allows a >85% reduction in local air pollutants such as particulate matter and NO_x compared to power production or flaring
<i>Water Use</i>	<ul style="list-style-type: none"> • Process water can be treated and recycled.
<i>Energy Efficiency</i>	<ul style="list-style-type: none"> • Off-gas carbon is captured in useful liquid fuels, rather than used for electrical energy, which could be provided by other means, such as solar, hydro or wind
<i>Sustainability Assessment</i>	<ul style="list-style-type: none"> • E4Tech (Europe), Tsinghua University (China) and Michigan Tech University (USA) have independently assessed and quantified the environmental impacts, including GHG emissions, associated with all stages of the process.

LanzaTech Relationships by Market Segments



State-of-the-Art Laboratory



Gas Fermentation

Our lab allows quick and efficient research of every aspect of commercial gas fermentation.



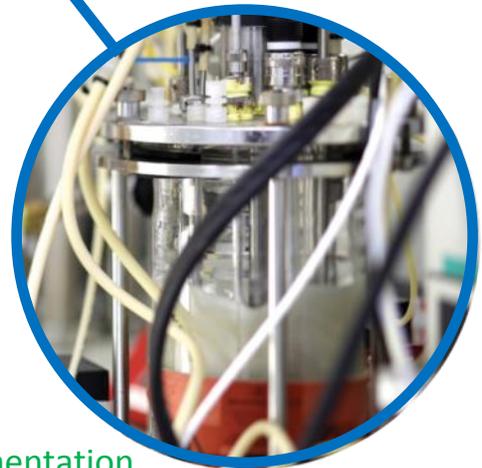
Microbiology

LanzaTech has one of the world's largest collections of industrial fuel and chemical production microbes.



Analytical Chemistry

We have in-house access to full, online, high-throughput gas and liquid analysis facilities.



Fermentation

We have over 20 bench-top gas fermentation reactors and a test bay allowing the development and demonstration of several prototype reactor designs in parallel and at scale.



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