



Solidarity

Equality

Sustainability

CARBON CAPTURE & UTILIZATION

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LanzaTech Global, Inc.

G20 Initiative on Bioeconomy

23 to 25 February 2025

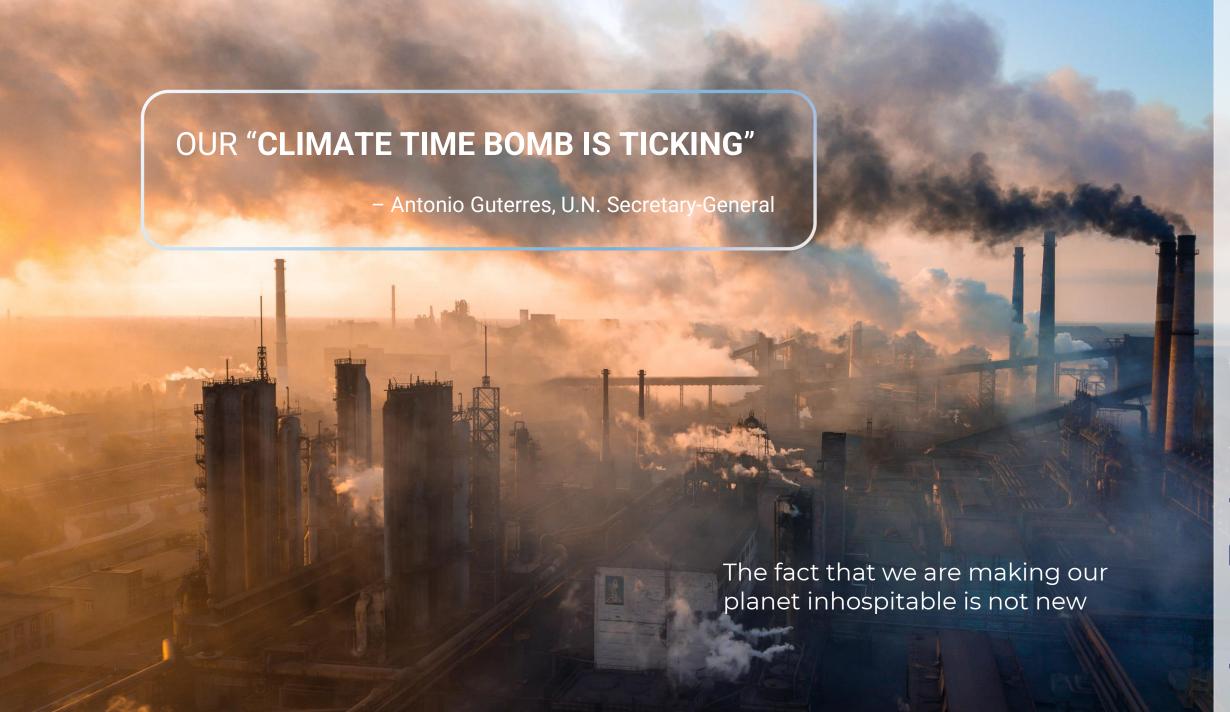


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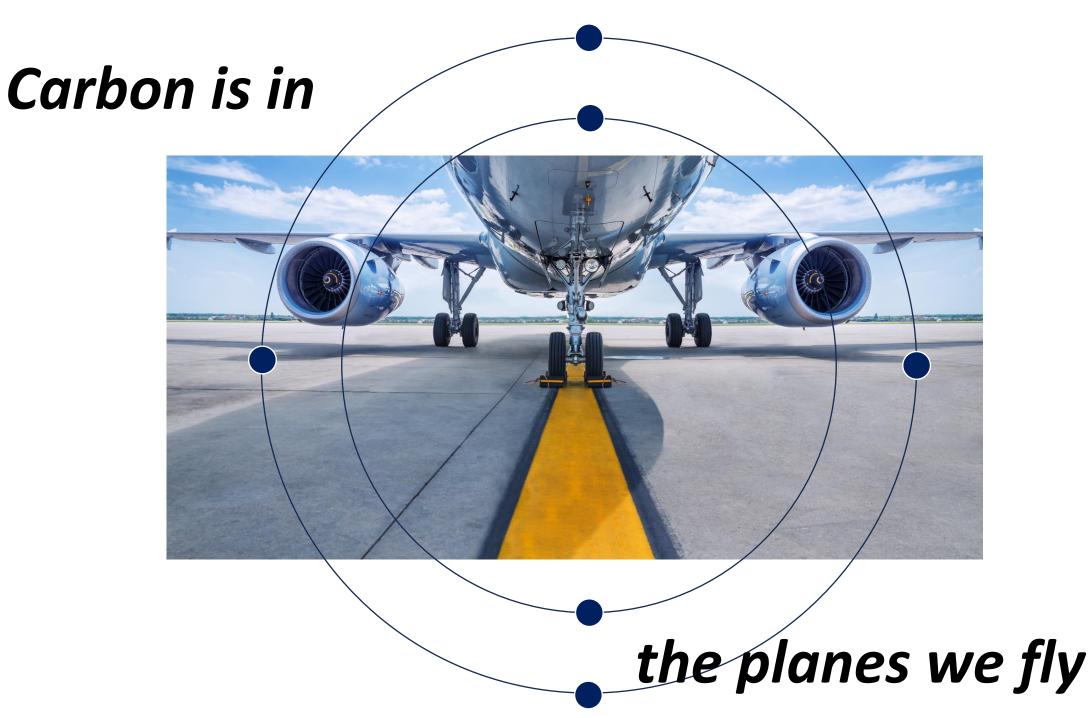
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MATERIALS

A NOVEL CIRCULAR SOLUTION, RECYCLING WASTE CARBON INTO VALUABLE PRODUCTS

LANZATECH'S PROPRIETARY PROCESS **BIOREACTOR ABILITY TO LEVERAGE DIVERSE CARBON SOURCES FUELS PRIMARY PRODUCT ETHANOL CLEAN UP** INDUSTRIAL **ATOMOSPHERIC OFF-GAS** CO_2 COPRODUCT **PROTEIN COMPRESSION SEPARATION**

> Carbon rich waste gases enter compressor. Solids must first be gasified.

GASIFIED SOLID WASTE

> LanzaTech process occurs within proprietary bioreactor; microbe consumes carbon in gas and produces ethanol and protein coproduct.

- Ethanol is an intermediate product that can be further upgraded and converted into high value sustainable materials and fuels.
- Circularity-enabled with solid waste carbon gasified and emitted carbon captured and returned to the process.



GLOBALLY LICENSED & COMMERCIALLY OPERATIONAL TODAY













LANZATECH IS ENABLING LOWER CARBON SUPPLY CHAINS

DRESSES



ATHLETIC SHORTS



FRAGRANCES



CLEANING PRODUCTS



SHOE SOLES

SHIRTS



PROTEIN

SUSTAINABLE AVIATION FUEL



TENNIS SHOES



ATHLETIC DRESSES



DETERGENTS



PACKAGING



SURFACTANTS



MiGROS











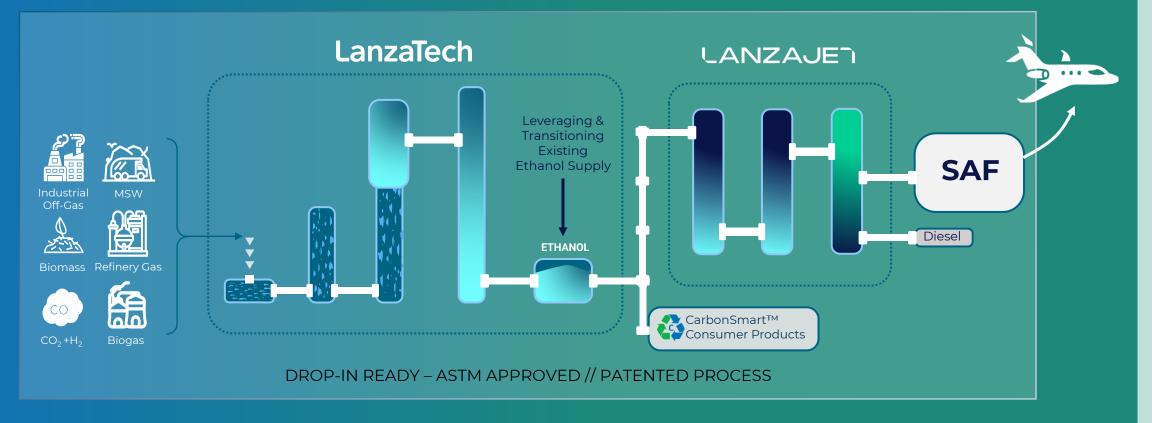


virgin atlantic





DOWNSTREAM FLEXIBILITY TO INTEGRATE WITH LANZAJET'S SAF PLATFORM































THE LANZATECH PROCESS'S LOW ECOLOGICAL IMPACT



Recycled waste feedstock



No food competition



Low CO₂ footprint



Reduced land use

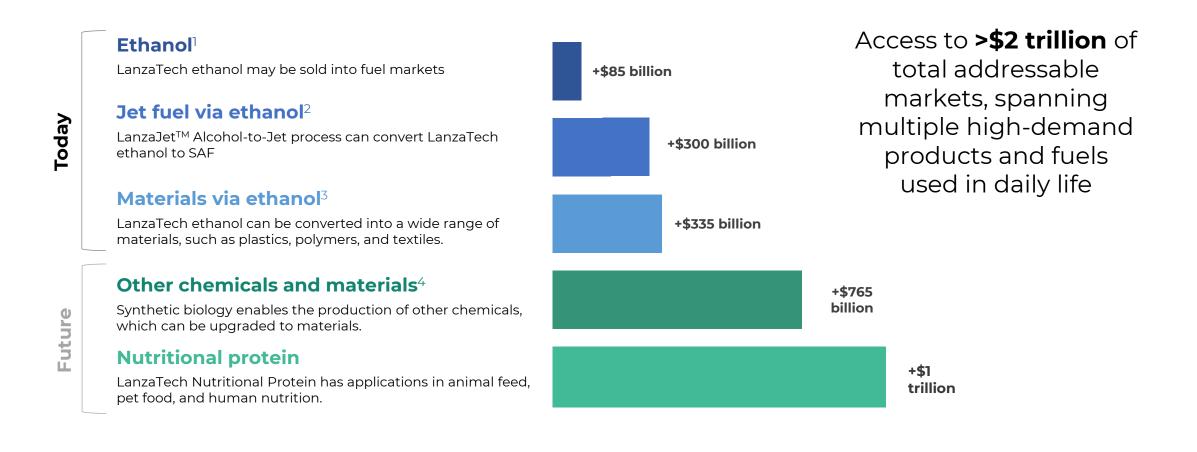


Low water consumption



No compromise on performance

RECYCLED CARBON CAN ACCESS DIVERSE & GROWING MARKETS



Nutrition Fuels Materials Polymers Monomers Fragrances Chemicals Solvents

LANZATECH ENABLES CARBON NEGATIVE PRODUCTS TODAY WITH FORESEEABLE IMPROVEMENT OVER TIME

Renewable Energy

Further reduces carbon intensity of LanzaTech process and products

Carbon Negative Feedstocks

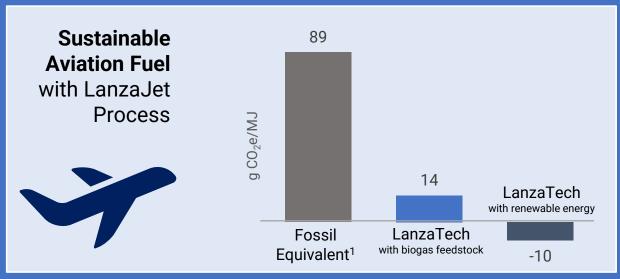
Enable increasingly negative product carbon intensity

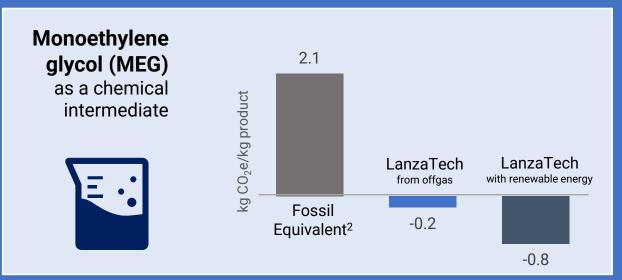
Net Zero Economy

Supported by LanzaTech products

Certifications

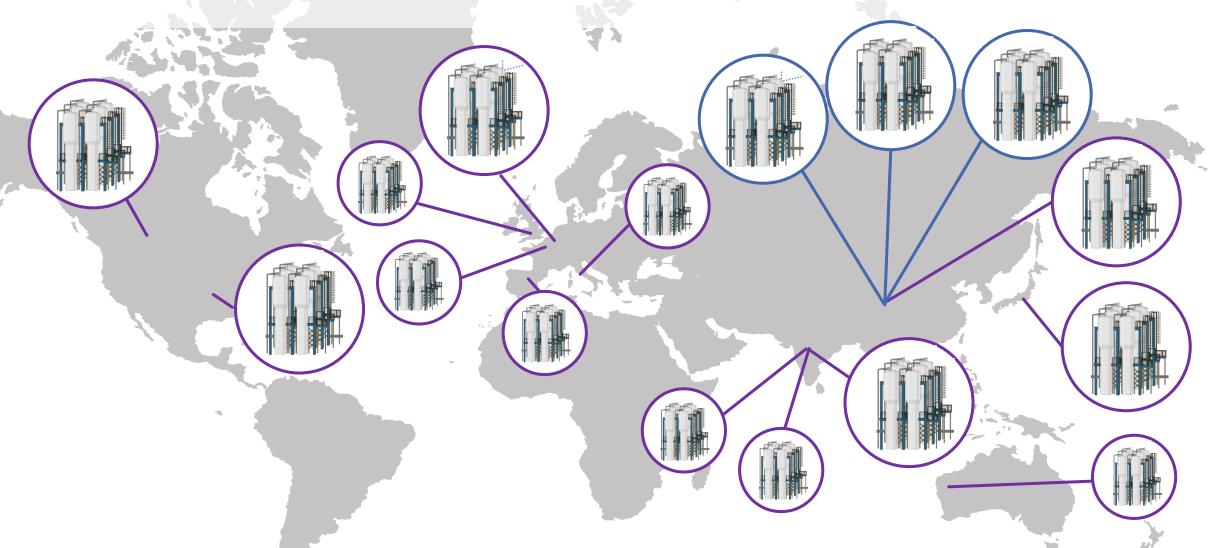
RSB & ISCC certifications for value chain integrity







DEVELOPING ECOSYSTEM FOR DISTRIBUTED MANUFACTURING



THE NEW CARBON ECONOMY IS DISTRIBUTED AND CIRCULAR

























Carbon Capture and Utilization (CCU) Benefits

- Create economic opportunity from local resources, feedstocks (waste)
- > Spur new jobs and wealth creation
- > Expand value-added manufacturing
- > Build out distributed production vs. isolated resource extraction
- > Produce same quality products more sustainably
- > Feed into existing supply chains while advancing material circularity



Nasdaq: LNZA

RECYCLE CARBON WITH BIOLOGY







Equality

Sustainability