

LanzaTech

Introduction to LanzaTech

Learn how we **recycle carbon with biology**

August 2025



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About LanzaTech



Technology Pioneers

With over 1,100 patents and 20 years of R&D and scale up, LanzaTech is the industry leader in recycling carbon.



Certification Expertise

Extensive experience certifying via Roundtable on Sustainable Biomaterials (RSB), International Sustainability Carbon Certification (ISCC), CORSIA, Kosher, Vegan, Natural, and REACH Registration.



Advantageous Partnerships

LanzaTech has a strong network of investors and partners, including Mitsui, Fluor, Dow, and more. In 2022, Brookfield Renewables committed \$500 million to the co-development of commercial scale projects.



Regional Supply, Global Footprint

With production facilities around the world, LanzaTech provides regional commercial supply chains alongside world-class logistics expertise.



Purification Dexterity

LanzaTech can deliver base product graded to match applications in home or personal care, textiles and beyond.



World-Class Customer Base

Global brands such as ArcelorMittal, IndianOil Corporation, adidas and Coty have reduced their carbon footprints by incorporating LanzaTech technology/products into their portfolios.

2025

by the numbers

500,000

tonnes CO2 annual
abatement capacity

300,000

tonnes EtOH annual
production capacity

1,100+

scientific patents

200+

employees worldwide

Our global footprint



Middle East



North America



Europe

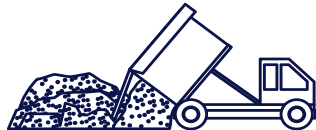


Asia, Australia & New Zealand

Using an Array of Feedstocks



Steel & Ferroalloy Gas



Municipal Solid Waste



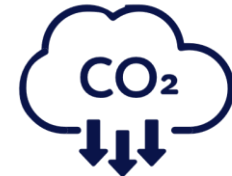
Refinery Gas



Biomass



Biogas



CO₂+H₂

Our commercial scale



2018

Steel Mill
Emissions

46 kta



2021

Ferroalloy
Emissions

46 kta



2022

Ferroalloy
Emissions

60 kta



2023

Ferroalloy
Emissions

60 kta



2023

Refinery
Emissions

33.5 kta



2023

Steel Mill
Emissions

64 kta



China

India

Belgium

Total of **6** commercial-scale gas fermentation facilities operating at full-scale will bring cumulative **annual nameplate capacity to +300,000 MT of ethanol**

Global project portfolio



PROJECT FLITE, EU

- First EU ATJ plant
- 90,000 tons/year SAF
- Low CI SAF
- Expected start: 2029



ERAMET, NORWAY

- Industrial emissions (advanced)
- 23,500 tons/year ethanol
- Low CI ethanol
- Expected start: 2028



NEXTCHEM, ITALY

- MSW (advanced)
- 74,000 tons/year ethanol
- Low CI ethanol
- Expected start: 2029



SEKISUI, JAPAN

- MSW (advanced)
- 12,000 tons/year ethanol
- Low CI ethanol
- Expected start: 2030



NTPC, INDIA

- CO2 and Green H2 (PtL)
- Low CI ethanol
- Expected start: end 2026



SED, INDIA

- Agricultural waste (advanced)
- 23,000 tons/year ethanol
- Low CI ethanol
- Expected start: end 2026

Ghent, Belgium

Partner: **ArcelorMittal**
Capacity: **64kta**
Certification: **ISCC+**



Brookfield commits \$500 million

The Brookfield Global Transition Fund (BGTF) committed half of a billion dollars to invest in LanzaTech projects, showcasing **commitment to CCU & the importance of innovative financing**



The screenshot shows the top portion of a Wall Street Journal article. The masthead 'THE WALL STREET JOURNAL.' is at the top, followed by a navigation bar with links like 'Home', 'World', 'U.S.', 'Politics', 'Economy', 'Business', 'Tech', 'Markets', 'Opinion', 'Books & Arts', 'Real Estate', 'Life & Work', 'Style', and 'Sports'. Below the navigation bar, the article title 'Brookfield Embraces Carbon Capture With Plans to Invest Billions' is displayed in a large, bold font. A sub-headline reads: 'The asset manager's investment in three carbon-capture businesses could reach more than \$2 billion'. The main text begins with a paragraph starting 'Brookfield Asset Management Inc. is jumping into the nascent carbon capture and storage market by investing a total of \$1.3 billion in three project developers this year alone, betting they will find plenty of customers among businesses striving to reduce emissions.' A second paragraph follows, stating 'The Toronto-based infrastructure investor, whose renewable power and transition group manages \$67 billion and operates more than 6,000 power plants, recently committed \$500 million to LanzaTech NZ Inc. The company's plants convert carbon dioxide from industrial emissions into materials used in everyday products such as fuels, clothes and perfume.'

THE WALL STREET JOURNAL.

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PROPE COMMENTARY ANALYSIS

Brookfield Embraces Carbon Capture With Plans to Invest Billions

The asset manager's investment in three carbon-capture businesses could reach more than \$2 billion

[Brookfield Asset Management](#) Inc. is jumping into the nascent carbon capture and storage market by investing a total of \$1.3 billion in three project developers this year alone, betting they will find plenty of customers among businesses striving to reduce emissions.

The Toronto-based infrastructure investor, whose renewable power and transition group manages \$67 billion and operates more than 6,000 power plants, recently committed \$500 million to LanzaTech NZ Inc. The company's plants convert carbon dioxide from industrial emissions into materials used in everyday products such as fuels, clothes and perfume.

CarbonSmartTM Ethanol

Our ethanol is made of 100% Recycled Emissions, providing the following benefits:

- Valorized waste feedstock
- Lower CO₂ footprint
- Drop-in solution
- Low water consumption
- Reduced land use
- No compromise on performance
- Unique storytelling with cutting edge technology

>50%

CarbonSmart Ethanol's average reduction in carbon footprint vs. global average bio-ethanol production

For every 1 ton of CarbonSmart Ethanol, ~2 tons of CO₂ emissions are captured & transformed



Recycled Carbon Ethanol is a sustainable feedstock for Sustainable Aviation Fuel (SAF), textiles, solvents, fragrances, packaging and more.

CarbonSmart Ethanol meets Recycle Carbon Fuel (RCF) definition in the UK & EU

CarbonSmart™ downstream chemicals products

DRESSES



YOGA PANTS



FLEECE JACKETS



SHOE SOLES



PROTEIN



ATHLETIC SHORTS



FRAGRANCES



CLEANING PRODUCTS



SHIRTS



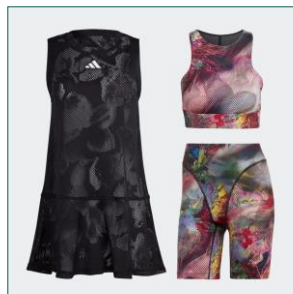
SUSTAINABLE AVIATION FUEL



TENNIS SHOES



ATHLETIC DRESSES



DETERGENTS



PACKAGING



SURFACTANTS



CarbonSmart™ sustainable aviation fuel

Turning any raw material into varied types of SAF

Industrial off-gases

Recycled Carbon Fuel

Agricultural & municipal
solid waste

Waste-based (Bio)fuel

Renewable power &
CO₂ capture

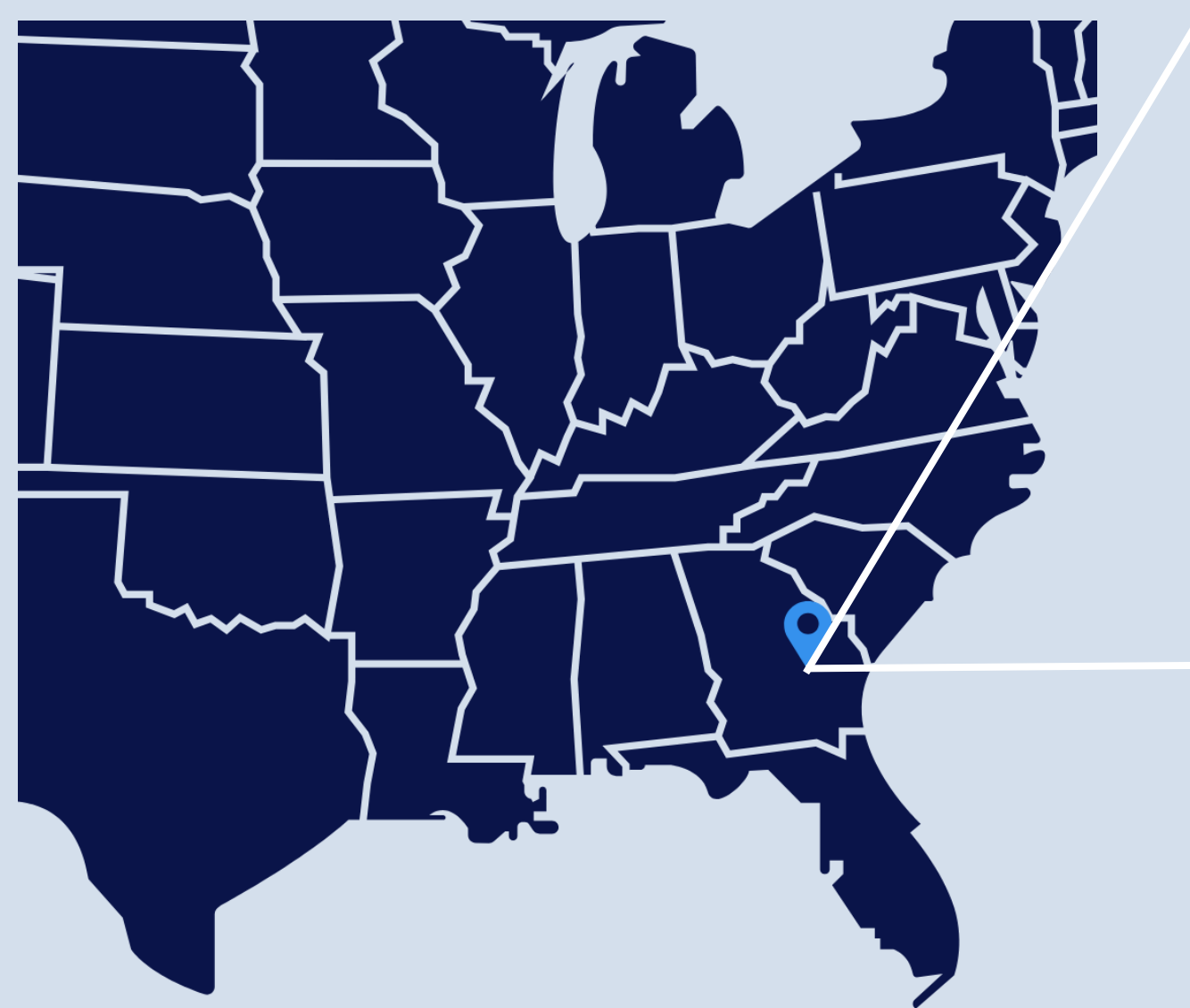
Power to Liquid

Advanced SAF

CIRCULAIR™

LanzaTech + LANZAJET

World's first Alcohol-to-Jet facility: Freedom Pines



- Coming online in **2025**
- Located in Georgia, **USA**
- 10 mil gallon/**3.8 mil liter** annual production capacity
- Can use any source of low carbon ethanol

Waste to Alcohol to Jet: how it works

CIRCULAIR™

