

DISCLAIMER

Forward Looking Statements

These slides and any accompanying oral presentation contain forward-looking statements. All statements, other than statements of historical fact, included in these slides and any accompanying oral presentation are forward-looking statements reflecting management's current beliefs and expectations. In some cases, you can identify forward-looking statements by terminology such as "will," "anticipate," "expect," "believe," "intend" and "should" or the negative of these terms or other comparable terminology. Forward-looking statements in these slides and any accompanying oral presentation include, but are not limited to, statements about estimates and forecasts of other financial and performance metrics and projections of market opportunity, expectations and timing related to the rollout of our business and timing of deployments, customer growth and other business milestones. These statements are based on various assumptions, whether or not identified in this presentation, and on the current expectations of our management and are not predictions of actual performance. These statements relate to future events or to our future financial performance and involve known and unknown risks, uncertainties and other factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by these forward-looking statements. The potential risks and uncertainties that could cause actual results to differ from the results predicted include, among others, those risks and uncertainties included under the captions "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" in our Form 10-K filed with the Securities and Exchange Commission and subsequent annual reports, quarterly reports and other filings made with the Securities and Exchange Commission from time to time. Any forward-looking statements contained herein are based on assumptions that we believe to be reasonable as of the da

This presentation includes data obtained from third-party studies and internal company surveys prepared for other purposes. We have not independently verified the data obtained from these sources. Forward-looking information obtained from these sources is subject to the same qualification and the additional uncertainties regarding the other forward-looking statements in this presentation.

This presentation contains trademarks, service marks, trade names, and copyrights of ours and of other companies, which are the property of their respective owners. The use or display of third parties' trademarks, service marks, trade name or products in this presentation is not intended to, and does not imply, a relationship with us, or an endorsement or sponsorship by or of LanzaTech. Solely for convenience, the trademarks, service marks and trade names referred to in this presentation may appear with the TM or SM symbols, but such references are not intended to indicate, in any way, that LanzaTech will not assert, to the fullest extent permitted under applicable law, their rights or the right of the applicable licensor to these trademarks, service marks and trade names.



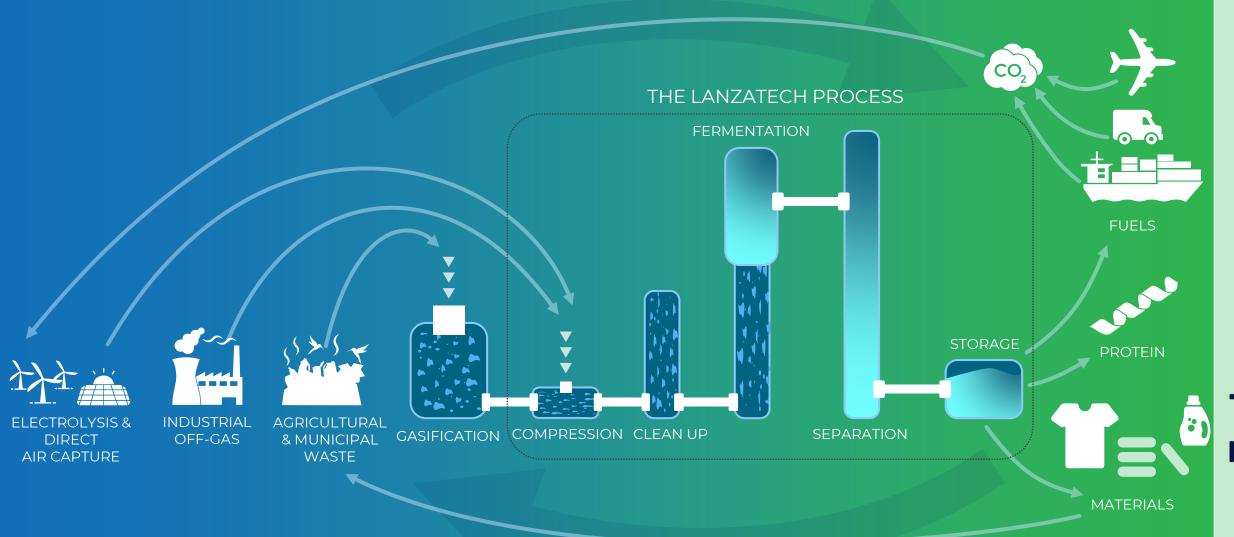




-anzaTech

A NOVEL CIRCULAR SOLUTION, RECYCLING WASTE CARBONALINE VALUABLE PRODUCTS





LanzaTech





Production Volume:
60,000 Tons per Year Ethanol

ISCC

Carbon Source:
Ferroalloy Emissions

Production Volume:
60,000 Tons per Year Ethanol

Carbon Source:
Ferroalloy Emissions



Project/Partner	Carbon Source	Actual or Anticipated Start Date	Ethanol Production Volume (tons/year)	CO ₂ Abated (tons/year)	Location
IndianOil	Refinery Off Gas	3Q 2023	33,500	~60,000	India
ArcelorMittal	Steel Off Gas	4Q 2023	64,000	~125,000	Belgium

Total of **6** commercial-scale gas fermentation facilities online at end of 2023 with cumulative **nameplate capacity of +300,000 tonnes per year**



_anzaTech

COMMERCIALLY PRODUCING



PACKAGING



DRESSES



ATHLETIC SHORTS



FRAGRANCES



CLEANING PRODUCTS



SHOE SOLES

SHIRTS



SAF



TENNIS SHOES



ATHLETIC DRESSES



DETERGENTS



CONTAINERS



SURFACTANTS









© CRAGHOPPERS











Metallurgy Materials Engineering

TATA STEEL

LANZATECH ENABLES CARBON NEGATIVE PRODUCTS TOD WYSOMAKETOMOTOWN WITH FORESEEABLE IMPROVEMENT OVER TIME

Renewable Energy

Further reduces carbon intensity of LanzaTech process and products

Carbon Negative Feedstocks

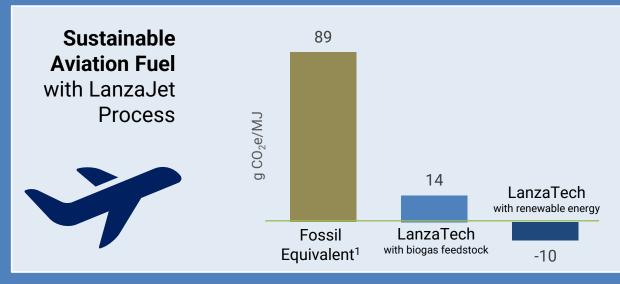
Enable increasingly negative product carbon intensity

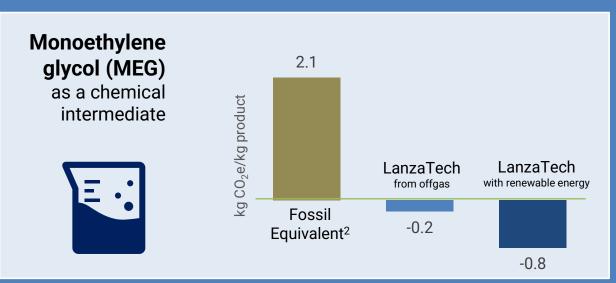
Net Zero Economy

Supported by LanzaTech products

Certifications

RSB & ISCC certifications for value chain integrity





anzaTech

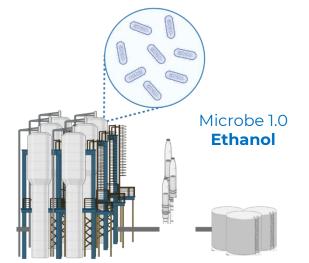
WHERE WE'RE HEADED: DIRECT PRODUCTION OF BULK COMMODITY CHEMICALS ON A DISTRIBUTED SCALE







Existing Commercial Plants









"Software"

New Strains To Expand Product Portfolio & Efficiency

Microbe 3.0

Acetone



Microbe 4.0

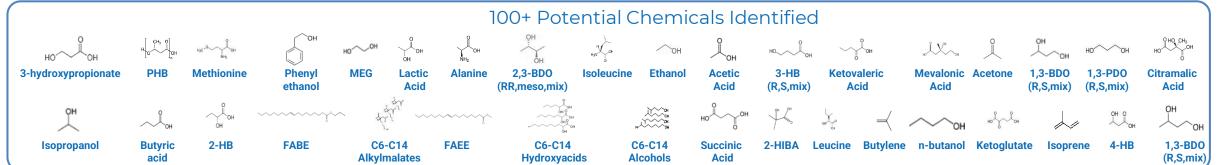


Microbe ...

✓ Same reactor

√ Same feedstock

√ Same process



New product development and direct production of high value chemicals if achieved, can expand TAM and increases demand for Biorefining CCT licensing

Images generated with Biorender.com.

Iron & Steel Decarbonization - Technologies





Direct Reduced Iron & EAF

- + Quick fix (NG / Ore)
- + Potential to deep cut with H2-DRI?
- Capex and Opex intensive
- Significant disruption
- Resources challenge

Carbon capture utilization

- +Value Creation
- + Feedstock to produce fuels and chemicals
- + Retrofit
- + Definitive Payback
- Policy recognition
- Scale-up

Near zero enabling technologies

Emerging technologies

(mostly at low TRL)

Boston Metals (MOE) Volteron™ (ArcelorMittal) Electra Hydrogen production Syngas Use of Biomass

Carbon Capture storage

- + Potentially a quick-fix too?
- + Retrofit
- + Cost avoidance
- infrastructure;
- recurring cost year on year.

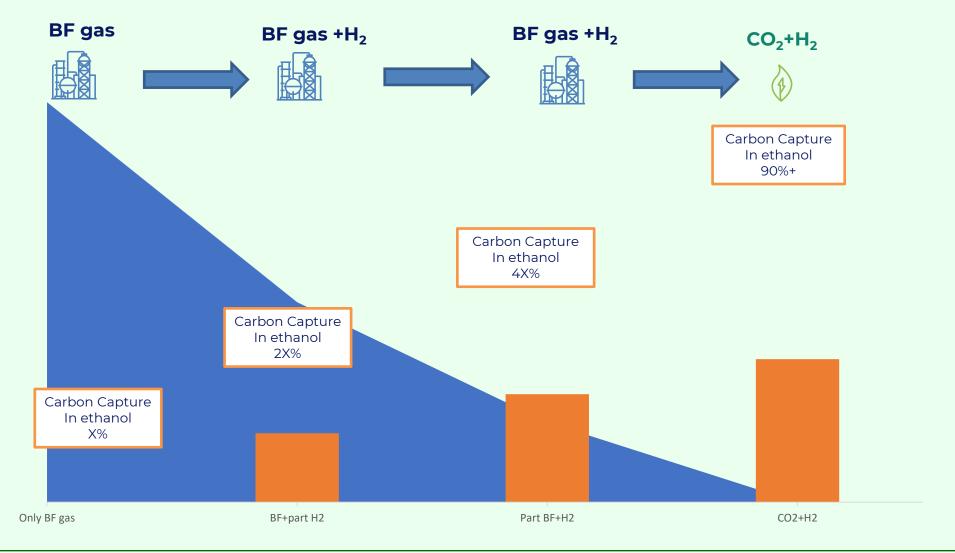






Transition from BF to CO2 rich gases & increase in carbon capture rate with H2

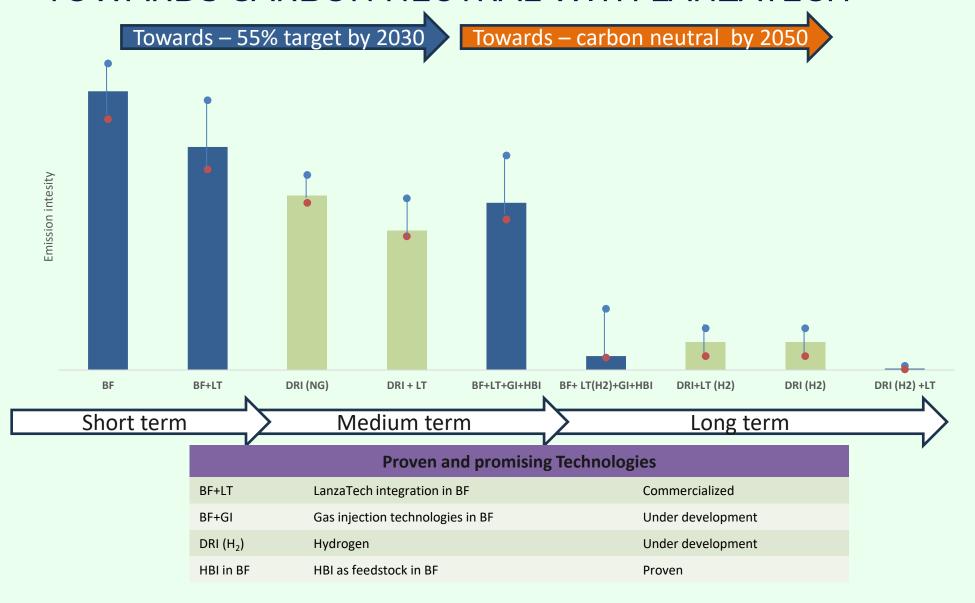
Case study: 100kt Ethanol production tons per year







TOWARDS CARBON NEUTRAL WITH LANZATECH





Carhon

H·CO



ADDED HYDROGEN INCREASES CARBON CAPTURE

		Ratio	Efficiency	
СО	$6 \text{ CO} + 3 \text{ H}_2\text{O} \rightarrow \text{C}_2\text{H}_5\text{OH} + 4 \text{ CO}_2$	0:1	33.3%	
CO + H ₂	$3 H_2 + 3 CO \rightarrow C_2H_5OH + CO_2$	1:1	66.7%	
CO + H ₂	$4 H2 + 2 CO \rightarrow C2H5OH + H2O$	2:1	100%	M av
CO + H ₂ + CO ₂	$5 H_2 + 1 CO + 1 CO_2 \rightarrow C_2 H_5 OH + 2 H_2 C$	5:1	100%	to
$H_2 + CO_2$	$6 H_2 + 2 CO_2 \rightarrow C_2H_5OH + 3 H_2O$	1:0	100%	Cá

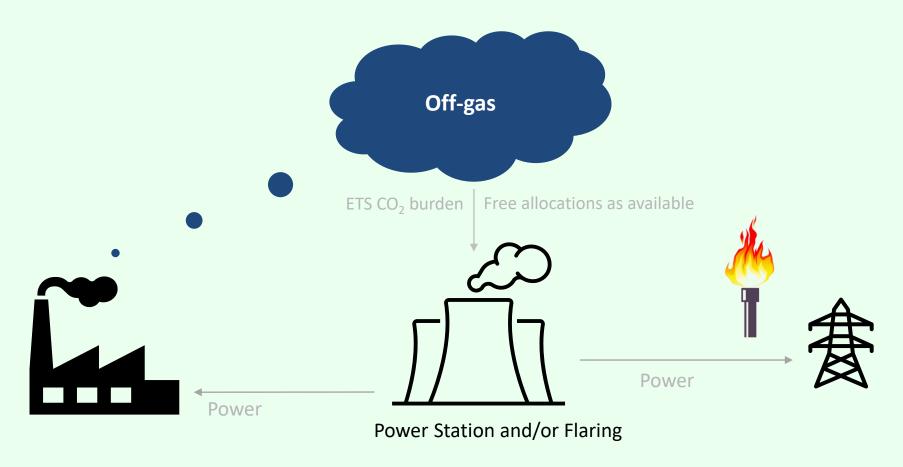
Multiple avenues to reach 100% carbon capture

Gas fermentation can flexibly add green H2 to tailor carbon capture





TYPICAL USE OF WASTE GASES

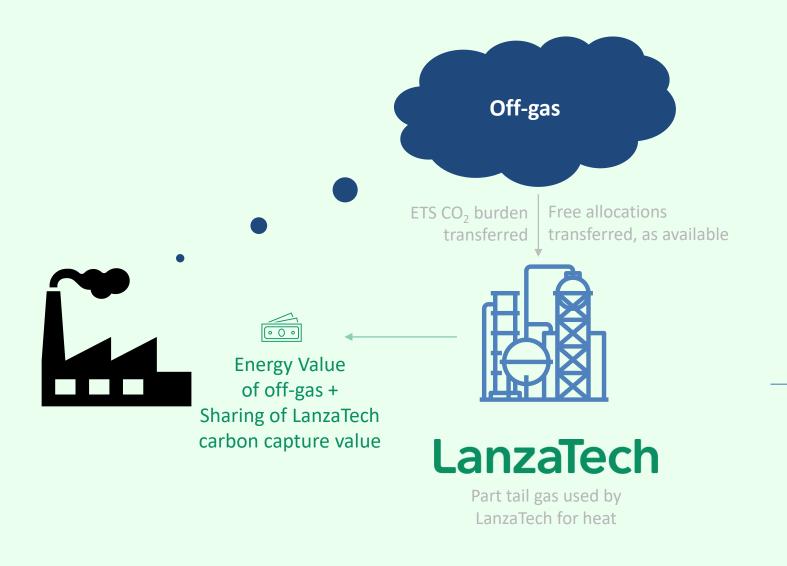


Value of the steel mill off gas decreases over time as the ETS free allocations decrease in the 2026+ time frame

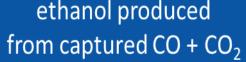
VALUE CREATION POTENTIAL













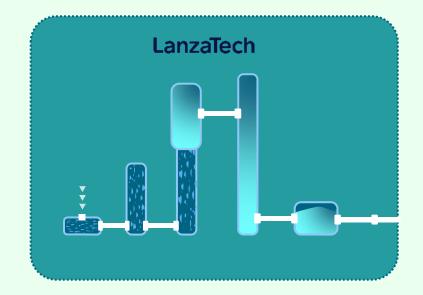


THE NEW CARBON ECONOMY IS DISTRIBUTED AND CIRCULAR









TEXTILES



CLEANING

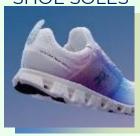


DETERGENTS



SHOE SOLES

TATA STEEL



FRAGRANCES



CONTAINERS



PACKAGING





SURFACTANTS









LanzaTech

RECYCLING CARBON WITH BIOLOGY