UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

washington, D.C. 20549

FORM 8-K

CURRENT REPORT

PURSUANT TO SECTION 13 OR 15(D) OF THE

SECURITIES EXCHANGE ACT OF 1934 Date of Report (Date of earliest event reported): November 26, 2024

LanzaTech Global, Inc.

(Exact name of registrant as specified in its charter)

001-40282

(Commission File Number)

92-2018969

60077

(Zip Code)

(I.R.S. Employer Identification No.)

8045 Lamon Avenue, Suite 400 Skokie, Illinois

(Address of principal executive offices)

(847) 324-2400 (Registrant's telephone number, including area code)

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Not Applicable (Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

Written communication pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

Delaware

(State or other jurisdiction of incorporation)

Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

Pre-commencements communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbols	Name of each exchange on which registered
Common Stock, par value \$0.0001 per share	LNZA	The Nasdaq Stock Market LLC
Redeemable Warrants, each whole warrant exercisable for one share of	LNZAW	The Nasdaq Stock Market LLC
Common Stock at an exercise price of \$11.50		

□ Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

□ If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Item 7.01 Regulation FD Disclosure

On November 27, 2024, Dr. Jennifer Holmgren, Chair and Chief Executive Officer of LanzaTech Global, Inc. will present at ChemIndix, an international conference and exhibition on chemistry in industry, at Dhahran Expo in the Kingdom of Saudi Arabia. Dr. Holmgren's presentation is titled "Enabling a Circular Carbon Economy".

A copy of the presentation materials is being furnished as Exhibit 99.1.

The information in this Item 7.01 is being furnished and shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise be subject to liabilities under that section, and shall not be deemed to be incorporated by reference into any filings of the Company under the Securities Act of 1933, as amended, or the Exchange Act, regardless of any general incorporation language in such filings. This Current Report on Form 8-K shall not be deemed an admission as to the materiality of any information in this Item 7.01.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

Exhibit Number Description

99.1 LanzaTech, Inc. Presentation "Enabling a Circular Carbon Economy", Nov 27, 2024.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Dated: November 26, 2024

LANZATECH GLOBAL, INC.

By:	/s/ Joseph Blasko
Name:	Joseph Blasko
Title:	General Counsel and Corporate Secretary

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DISCLAIMER

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 to be materially different from any future results, performance or achievements to be materially different from any future results, performance or achievements to be materially different from any future results, performance or achievements to be materially different from any future results and ther busines and 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 from time to time. Any forward-looking statements contained herein are based on assumptions that we believe to be reasonable as of the date hereof. Except as required by law, we assume no obligation to update these forward-looking statements, even if new information becomes available in the future.

This presentation includes data obtained from third-party studies and internal company surveys prepared for other purposes. The company has 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.

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LanzaTech











2016: SHOUGANG, START OF CONSTRUCTION



2016 Groundbreaking



2017 Reactor Construction

2018: SHOUGANG, PLANT STARTUP



TODAY: 6 COMMERCIAL FACILITIES IN EUROPE & ASIA





ACETOGENS CAN USE A WIDE RANGE OF INPUT GAS COMPOSITIONS



¹Köpke & Simpson (2020) Curr Opin Biotechnol 65:180















ETHYLENE

The World's Most Important Chemical*



HIGHLY REPLICABLE DECARBONIZATION SOLUTION



TEN

LanzaTech +

PROPYLENE









ADDITIONAL ONE STEP PROCESSING: PP FOOD CONTAINERS

LanzaTech & IKEA are developing a commercial pathway to produce polypropylene (PP) for use in food-grade containers and beyond















SYNBIO
AT SCALEWE LEVERAGE SYNBIO TO EXPAND THE PORTFOLIO OF CHEMICAL
BUILDING BLOCKS FOR CIRCULAR MATERIAL PRODUCTION





We had a dream...

ABLC 2015 Presentation From Waste to Wing Accelerating a Path to the Circular Economy - har Everything else ASTM qualification of ATJ production pathway Light Strong Steel for Plan - EP Dehydration Oligomerization Hydrogenation Fractionation ATJ-SPK Diesel virgin atlantic ENERGY Energy Efficiency & Renewable Energy HSBC 🚺 BOEING Pacific 1 🔍 🔍 🔍 🐨 LanzaTech 🚳 🛦 🛛 📶 ... LanzaTech ... that steel mill emissions could fuel a plane

» LanzaTech







4G ETHANOL IN INDIA FROM CO_2 AND GREEN H_2 Strong partnership with Jakson Green + NTPC to create ethanol from $CO_2 + H_2$

- Collaboration with Jakson Green and NTPC, India's largest power generation utility company
- Utilize CO₂ from power generation
- Annual CO₂ abatement capacity of 7,300 tonnes
- Strong alignment with India's energy transition initiatives



FROM WASTE TO WING



UK SAF Mandate limits the percentage of SAF that can be made from cooking and waste oils (HEFA) over time. Food and feed restrictions in place and PtL sub target

EU ReFuelEU

"First generation" biofuels produced from food and feed crops are excluded and sub mandate for PtL fuels

LanzaTech

*Hydrotreated Esters and Fatty Acids (HEFA), including vegetable and waste oils & fats **Power to Liquid, synthetic liquid hydrocarbon fuels produced from renewable electricity, water an



WE'VE MADE FOOD SINCE 2018

PROTEIN CURRENTLY PRODUCED AS A CO-PRODUCT WITH ETHANOL AT SEVERAL COMMERCIAL SITES

Existing operating plants using LanzaTech's biorefining platform that produce ethanol as a primary product have produced **25,000 metric tons** of protein co-product to date:

+Several operating plants went through a lengthy process to have protein certified for animal feed

+These plants have since sold protein as an ingredient to aquaculture, poultry, and pig feed producers

+Operations in India are progressing with protein certification for poultry feed markets

+Contains all 20 amino acids and >85% protein





LNP PROCESS

Commercializing production of nutrient-rich protein as primary product through LanzaTech's proprietary gas fermentation process



Protein as the primary product compared to ethanol as the primary product:

- Uses the same bioreactor
- Uses the same feedstocks
- LNP uses new microbe

LNP PRODUCT PROPERTIES

- Comparable properties to pea and whey protein
- ✓ >85% protein content
- ✓ Contains all 20 amino acids
- ✓ No allergenicity
- ✓ Highly digestible
- ✓ Odorless and neutral color

0.5 metric tons per day of LNP is roughly the equivalent of giving a typical complete daily intake of protein to approximately 9,000 people



Protein production can **flexibly shift to utilize green hydrogen** as it becomes cheaper and more abundantly available. H_2 is main sensitivity driver on cost

THE NEW CARBON ECONOMY IS DISTRIBUTED AND CIRCULAR

IMPACT OF POLICIES

We must adopt technology neutral positions and support all solutions.

We must fail quickly and move on.

We must collaborate to address environmental concerns and get new fuels and chemicals to market quickly.

We need funding for every scale of commercialization from proof of concept through to first commercial units.

Need to Ensure all Solutions can Contribute <u>Quickly</u> Policies, Definitions and Funding <u>Drive</u> or <u>Block</u> the Build Out of Disruptive Technologies

RECYCLE CARBON WITH BIOLOGY