

looking statements are only predictions based on our current expectations and projections about future events and are subject to a number of risks, uncertainties and assumptions, including the risk factors discussed in Part II, Item 1A of this Quarterly Report and in Part I, Item 1A of our Annual Report on Form 10-K for the year ended December 31, 2023, and in other documents that we file or furnish from time to time with the Securities and Exchange Commission ("SEC"). Moreover, we operate in a competitive industry, and new risks emerge from time to time. It is not possible for the management of LanzaTech to predict all risks, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements we may make. In light of these risks, uncertainties and assumptions, the forward-looking events and circumstances discussed in this Quarterly Report may not occur, and actual results could differ materially and adversely from those anticipated or implied in the forward-looking statements in this Quarterly Report. Any forward-looking statement speaks only as of the date on which it is made, and we do not undertake any obligation to publicly update or revise any forward-looking statement, whether as a result of new information, future developments or otherwise, except as required by law.

STATEMENTSLANZATECH GLOBAL, INC. CONDENSED CONSOLIDATED BALANCE SHEETS(Unaudited, in thousands, except share and per share data)As of September 30, 2024 December 31, 2023AssetsCurrent assets:Cash and cash equivalents\$58,741A \$75,585A Held-to-maturity investments securities28,121A 45,159A Trade and other receivables, net of allowance14,628A 11,157A Contract assets19,136A 28,238A Other current assets15,981A 12,561A Total current assets136,607A 172,700A Property, plant and equipment, net21,849A 22,823A Right-of-use assets25,912A 18,309A Equity method investment10,859A 7,066A Equity security investment14,990A 14,990A Other non-current assets5,999A 5,736A Total assets\$21,216A \$241,624A Liabilities and Shareholders' equityCurrent liabilities:Accounts payable\$3,121A \$4,060A Other accrued liabilities7,929A 7,316A Warrant2,605A 7,614A Fixed Maturity Consideration and current FPA Put Option liability20,080A "A Contract liabilities6,449A 3,198A Accrued salaries and wages6,575A 5,468A Current lease liabilities158A 126A Total current liabilities46,917A 27,782A Non-current lease liabilities28,811A 19,816A Non-current contract liabilities6,966A 8,233A Fixed Maturity Consideration4" 7,228A FPA Put Option liability48,182A 37,523A Brookfield SAFE liability9,550A 25,150A Convertible Note61,577A "A Other long-term liabilities608A 1,421A Total liabilities202,611A 127,153A Shareholders' equityCommon stock \$0,0001 par value; 400,000,000 and 400,000,000 shares authorized197,782,055 and 196,642,451 shares issued and outstanding as of September 30, 2024 and December 31, 2023, respectively19A 19A Additional paid-in capital954,035A 943,960A Accumulated other comprehensive income2,161A 2,364A Accumulated deficit(942,610)(831,872)Total shareholders' equity\$13,605A \$114,471A Total liabilities and shareholders' equity\$216,216A \$241,624A See the accompanying Notes to the Condensed Consolidated Financial Statements.

4. LANZATECH GLOBAL, INC. CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE LOSS(Unaudited, in thousands, except share and per share data)A Three Months Ended September 30, Nine Months Ended September 30, A 2024 2023 2022 2021Revenue:Revenue from contracts with customers and grants\$5,199A \$14,162A \$17,684A \$32,119A Revenue from sales of CarbonSmart products2,209A 2,258A 4,010A 3,265A Revenue from collaborative arrangements917A 1,566A 4,469A 3,116A Revenue from related party transactions1,618A 1,619A 11,399A 3,668A Total revenue9,943A 19,605A 37,562A 42,168A Cost and operating expenses:Cost of revenue from contracts with customers and grants (exclusive of depreciation shown below)(5,339)(11,862)(14,356)(28,835)Cost of revenue from sales of CarbonSmart products (exclusive of depreciation shown below)(2,116)(1,772)(3,649)(2,499)Cost of revenue from collaborative arrangements (exclusive of depreciation shown below)(479)(678)(2,034)(1,504)Cost of revenue from related party transactions (exclusive of depreciation shown below)(207)(59)(363)(150)Research and development expense(22,006)(16,645)(60,548)(51,839)Depreciation expense(1,301)(1,376)(4,289)(3,981)Selling, general and administrative expense(11,452)(11,808)(41,095)Total cost and operating expenses(42,900)(44,200)(119,475)(129,903)Loss from operations(32,957)(24,595)(81,913)(87,735)Other income (expense):Interest income, net791A 1,249A 2,452A 3,164A Other expense, net(19,730)(1,517)(23,342)(29,912)Total other expense, net(18,939)(268)(20,890)(26,748)Loss before income taxes(51,896)(24,863)(102,803)(114,483)Loss from equity method investees, net(5,535)(463)(7,935)(941)Net loss\$(57,431)\$(25,326)\$(110,738)\$(15,424)Other comprehensive loss:Foreign currency translation adjustments(48)(1,001)(198)(954)Comprehensive loss\$(57,479)\$(26,327)\$(110,936)\$(116,378)Unpaid cumulative dividends on preferred stock4" A "A "A (4,117)Net loss allocated to common shareholders\$(57,431)\$(25,326)\$(110,738)\$(119,541)Net loss per common share - basic and diluted\$(0.29)\$(0.13)\$(0.56)\$(0.70)Weighted-average number of common shares outstanding - basic and diluted197,773,376A 195,869,537A 197,499,156A 169,797,443A See the accompanying Notes to the Condensed Consolidated Financial Statements.

5. LANZATECH GLOBAL, INC. CONDENSED CONSOLIDATED STATEMENTS OF CHANGES IN REDEEMABLE CONVERTIBLE PREFERRED STOCK AND SHAREHOLDERS' EQUITY/DEFICIT(Unaudited, in thousands, except share data)Common Stock OutstandingAdditional Paid-in CapitalAccumulated DeficitAccumulated Other Comprehensive IncomeTotal Shareholders' EquitySharesAmountBalance as of December 31, 2023 196,642,451A \$194,936,960A (831,872)2,364A 114,471A Stock-based compensation expense4" A "A 2,625A "A "A 2,625A Net loss4" A "A "A (25,508)A "A (25,508)A Issuance of common stock upon exercise of options and vesting of RSUs1,083,026A "A 234A "A "A 234A Repurchase of equity instruments4" A "A "A (48)A "A "A (48)Foreign currency translation4" A "A "A 42A 42A Balance as of March 31, 2024 197,725,477A 19A 946,771A (857,380)2,406A 91,816A Stock-based compensation expense4" A "A "A 3,672A Net loss4" A "A "A (27,799)A "A (27,799)A Issuance of common stock upon exercise of options and vesting of RSUs39,590A "A 38A "A "A 38A Foreign currency translation4" A "A "A "A (191)(191)Balance as of June 30, 2024 197,765,067A 19A \$950,481A \$(885,179)2,215A \$67,536A Stock-based compensation expense4" A "A 3,554A "A "A 3,554A Net loss4" A "A "A (57,431)A "A (57,431)A Issuance of common stock upon exercise of options16,988A "A "A "A 4" A "A "A "A Other comprehensive income, net4" A "A "A 4" A "A 4" A (5) (5)Foreign currency translation4" A "A "A "A (49)(49)Balance as of September 30, 2024 197,782,055A 19A 954,035A (942,610)2,161A 13,605A 6LANZATECH GLOBAL, INC. CONDENSED CONSOLIDATED STATEMENTS OF CHANGES IN REDEEMABLE CONVERTIBLE PREFERRED STOCK AND SHAREHOLDERS' EQUITY/DEFICIT

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Company's financial position as of the date the condensed consolidated financial statements were issued, the Company projects that it will be able to cover its liquidity needs for the next twelve months. Use of Estimates The preparation of financial statements in conformity with US GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of the consolidated financial statements, and the reported amounts of revenues and expenses during the reporting period. Significant estimates include the fair value of equity awards granted to both employees and non-employees, valuation of common stock prior to the close of the Business Combination, revenue recognized over time, AM SAFE and Brookfield SAFE obligations, AM SAFE warrants, the FPA, the Convertible Note and the Private Placement Warrants. Private Placement Warrants are defined and further described in Note 9 - Stockholders' equity. The Company uses the percentage of completion for the input method to recognize revenue over time for certain contracts with customers. Under the input method, the Company exercises judgment and estimation when selecting the most indicative measure of such performance. Most of our arrangements provide fixed consideration, however, when there are variable consideration elements, the Company estimates the transaction price and whether revenue should be constrained. Significant estimates and judgments are also used when a material right is provided to the customer. In these instances, the Company estimates the stand-alone selling price and apportions the total transaction price to this material right. Refer to the Revenue Recognition section in Note 2 - Summary of Significant Accounting Policies hereunder. Changes in facts and circumstances or additional information may result in revised estimates, and actual results may differ from these estimates. 11LANZATECH GLOBAL, INC. NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS Cash and Cash Equivalents The Company considers all highly liquid investments with an original maturity of three months or less at the time of purchase to be cash equivalents. As of September 30, 2024 and December 31, 2023, the Company had \$58,741 and \$75,585 of cash and cash equivalents, respectively. Restricted Cash The Company is required to maintain a cash deposit with a bank which consists of collateral on certain travel and expense programs maintained by the bank. The following represents a reconciliation of cash and cash equivalents in the condensed consolidated balance sheets to total cash, cash equivalents and restricted cash in the condensed consolidated statements of cash flows as of September 30, 2024 and December 31, 2023. As of September 30, 2024/December 31, 2023 Cash and cash equivalents \$58,741A \$75,585A Restricted cash (presented within Other current assets) 2,226A 699A Cash, cash equivalents and restricted cash \$60,967A \$76,284A Forward Purchase Agreement On February 3, 2023, the Company entered into a Forward Purchase Agreement (the "FPA") with ACM ARRT H LLC (the "Seller"). On the same date, ACM partially assigned its rights under the FPA to Vellar Opportunity Fund SPV LLC - Series 10 (the "Buyer"). ACM and Vellar are together referred to as the "Purchasers". Pursuant to the FPA, the Purchasers obtained 5,916,514 common shares (the "Recycled Shares") on the open market for approximately \$10.16 per share (the "Redemption Price"), and the purchase price of \$60,096 was funded by the use of AMCI trust account proceeds as a partial prepayment (the "Prepayment Amount") for the FPA redemption 3 years from the date of the Business Combination (the "FPA Maturity Date"). The FPA Maturity Date may be accelerated, at the Purchasers' discretion, if the Company's volume-weighted average share price is below \$3.00 per share for any 50 trading days during a 60 consecutive trading-day period (the "VWAP Condition") or if the Company is delisted. The Purchasers have the option to early terminate the arrangement in whole or in part by providing optional early termination notice to the Company (the "Optional Early Termination"). For those shares early terminated (the "Terminated Shares"), the Purchasers will owe the Company an amount equal to the Terminated Shares times the Redemption Price, which may be reduced in the case of certain dilutive events (the "Reset Price"). At the FPA Maturity Date, the Company is obligated to pay the Purchasers an amount equal to the product of (1) 7,500,000 less the number of Terminated Shares multiplied by (2) \$2.00 (the "Maturity Consideration"), which under the FPA is payable at the Company's option in cash or shares of common stock valued at the average daily VWAP Price (as defined in the FPA) over the 30 scheduled trading days ending on the FPA Maturity Date. In addition to the Maturity Consideration, on the FPA Maturity Date, the Company is obligated to pay the Purchasers an amount equal to the product of (x) 500,000 and (y) the Redemption Price, totaling \$5,079 (the "Share Consideration"), which under the FPA is payable in cash. If the Purchasers were to utilize their Optional Early Termination to terminate the FPA early in its entirety, neither the Maturity Consideration nor the Share Consideration would be due to the Purchasers. The Purchasers' Optional Early Termination economically results in the prepaid forward contract being akin to a written put option with the Purchasers' right to sell all or a portion of the 5,916,514 common shares to the Company. The Company is entitled over the 36-month maturity period to either a return of the prepayment or the underlying shares, which the Purchasers will determine at their sole discretion. The FPA consists of three freestanding financial instruments which are accounted for as follows: 1) The total prepayment of \$60,547 (the "Prepayment Amount"), which is accounted for as a reduction to equity to reflect the substance of the overall arrangement as a net repurchase of the Recycled Shares and sale of shares to the Purchasers pursuant to a subscription agreement. 2) The FPA Put Option, which includes both the in-substance written put option and the portion of the Maturity Consideration in excess of the Minimum Maturity Consideration (as defined below) (the "Variable Maturity Consideration"). The FPA Put Option is a derivative instrument the Company has recorded as a liability and measured at 11LANZATECH GLOBAL, INC. NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS fair value. The initial fair value of the FPA Put Option and subsequent changes in fair value of the FPA Put Option are recorded within Other expense, net on the condensed consolidated statements of operations and comprehensive loss. 3) The Fixed Maturity Consideration, which includes the minimum portion of the Maturity Consideration (the "Minimum Maturity Consideration"), calculated as (1) 7,500,000 less 5,916,514 multiplied by (2) \$2.00 or \$3,167, and the Share Consideration. Both the Minimum Maturity Consideration and the Share Consideration are considered to be free-standing debt instruments and as both will be paid on the same terms and at the same time, these are accounted for together. The Company has elected to measure these using the FVO under ASC 825, Financial Instruments (the "ASC 825"). The Fixed Maturity Consideration is recorded as a long-term liability on the condensed consolidated balance sheets as of December 31, 2023, and was reclassified as described below as of September 30, 2024. The initial fair value of the Fixed Maturity Consideration and subsequent changes in fair value of the Fixed Maturity Consideration are recorded within Other expense, net on the condensed consolidated statements of operations and comprehensive loss. On July 22, 2024, Vellar purported to accelerate the FPA Maturity Date with respect to its portion of the FPA in connection with the satisfaction of the VWAP Condition. It subsequently delivered to the Company a notice of default under the FPA. On July 24, 2024, the Company filed suit against Vellar under the FPA, primarily in connection with Vellar's sale of Recycled Shares (see Note 15 - Commitments and Contingencies). As a result, the Company reclassified the Maturity Consideration and the Share Consideration to current liabilities on the condensed consolidated balance sheets, and the FPA Put Option excluding the Variable Maturity Consideration portion, which remains in long-term liabilities (refer to Note 10 - Forward Purchase Agreement). In October 2024, ACM accelerated the FPA Maturity Date with respect to its portion of the FPA in connection with the satisfaction of the VWAP Condition, and the Company fully satisfied its obligation to ACM in accordance with the FPA's provisions (see Note 16 - Subsequent Events). Convertible Note On August 5, 2024, the Company entered into a Convertible Note Purchase Agreement (the "Convertible Note Purchase Agreement") with an accredited investor (the "Investor") pursuant to which the Company agreed to sell and issue to the Investor and other purchasers in a private placement transaction (the "Private Placement") in one or more closings up to an aggregate principal amount of \$150,000 of convertible notes. As of August 6, 2024, we issued and sold a principal amount of \$40,150 of convertible notes to the Investor pursuant to the Convertible Note Purchase Agreement (the "Convertible Note"). The Company has elected the fair value option for the Convertible Note at issuance, under ASC 825. Under this option, the Convertible Note is initially recognized at its fair value as a long-term liability on the condensed consolidated balance sheets with subsequent changes in fair value reflected in earnings. Interest expense is not recognized separately; rather, the change in the fair value of the debt, inclusive of interest, market risk, and other factors affecting valuation, is recorded in the condensed consolidated statements of operations and comprehensive loss as a component of other income (expense). However, the change in fair value attributable to the change in the instrument-specific credit risk is presented separately in other comprehensive income. Transaction costs of \$150 were expensed as incurred and included in the condensed consolidated statements of operations and comprehensive loss as a component of other income (expense). See Note 8 - Convertible Note. Fair Value of Financial Instruments Fair value is defined as the exchange price that would be received for an asset or an exit price paid to transfer a liability in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Valuation techniques used to measure fair value must maximize the use of observable inputs and minimize the use of unobservable inputs. The fair value hierarchy defines a three-level valuation hierarchy for disclosure of fair value measurements as follows: Level 1 - Valuations based on quoted prices in active markets for identical assets or liabilities that an entity has the ability to access; Level 2 - Valuations based on quoted prices for similar assets or liabilities, quoted prices for identical assets or liabilities in markets that are not active, or other inputs that are observable or can be corroborated by observable data for substantially the full term of the assets or liabilities; and Level 3 - Valuations based on inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities. 12LANZATECH GLOBAL, INC. NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENT The categorization of a financial instrument within the valuation hierarchy is based upon the lowest level of input that is significant to the fair value measurement. The fair value of the Company's assets and liabilities, which qualify as financial instruments under ASC 820, Fair Value Measurement, approximates the carrying amounts represented in the accompanying unaudited condensed consolidated balance sheets, primarily due to their short-term nature, except for the warrant liability. Revenue Recognition The Company recognizes revenue from exchange transactions in accordance with ASC 606, Revenue from Contracts with Customers (the "ASC 606") and grants from non-customers. The Company primarily earns revenue from services related to biorefining (formerly known as carbon capture and transformation) which includes techno-economic feasibility studies and basic engineering design of commercial plants, licensing of technologies and sales of biocatalysts (microbes and media). The other two revenue streams are: (1) joint development and contract research activities to develop and optimize novel biocatalysts, related processes and technologies, and (2) supply of chemical building blocks, such as ethanol, for sustainable products made using the Company's proprietary technologies (referred to as CarbonSmart). Revenue is measured based on the consideration specified in a contract with a customer. The Company records taxes collected from customers and remitted to governmental authorities on a net basis. The Company's payment terms are between 30-60 days and can vary by customer type and products offered. Management has evaluated the terms of the Company's arrangements and determined that they do not contain significant financing components. Biorefining The Company provides feasibility studies and basic design and engineering services used for detailed design, procurement, and construction of commercial plants that utilize the Company's technologies, along with the sale of microbes and media. The services provided are recognized as a performance obligation satisfied over time. Revenue is recognized using the cost-to-cost input method for certain engineering services, or the labor hours input method as performance obligations are satisfied. Revenue for the sale of microbes and media is at a point in time, depending on when control transfers to the customer. The Company licenses intellectual property to generate recurring revenue, in the case of running royalties, or one-time revenue, in the case of fixed consideration royalties, when its customers deploy the Company's technology in their biorefining plants. When licenses are considered to be distinct performance obligations, the recognition of revenue is dependent on the terms of the contract, which may include fixed consideration or royalties based on sales or usage, in which case the revenue is recognized when the subsequent sale or usage occurs or when the performance obligation to which some or all of the sales or usage-based royalty is allocated has been satisfied, whichever is later. Grants received to perform engineering services, including cost reimbursement agreements, are assessed to determine if the agreement should be accounted for as an exchange transaction or a contribution. An agreement is accounted for as a contribution if the resource provider does not receive commensurate value in return for the assets transferred. Contributions are recognized as grant revenue as the qualifying costs related to the grant are incurred. Joint Development and Contract Research The Company performs R&D services related to novel technologies and development of biocatalysts for commercial applications, mainly to produce fuels and chemicals. The Company engages in two main types of R&D services: joint development agreements, and contract research, including projects with the U.S. Department of Energy and other US or foreign government agencies. Such services are recognized as a performance obligation satisfied over time. Revenue is recognized based on milestone completion, when payments are contingent upon the achievement of such milestones, or based on percentage-completion method when enforceable rights to payment exist. When no milestones or phases are clearly defined, management has determined that the cost incurred, input method, is an appropriate measure of progress towards complete satisfaction of the performance obligations under ASC 606, and estimates its variable consideration under the expected value method. Revenue is not recognized in advance of customer acceptance of a milestone when such acceptance is contractually required. Payments for R&D services with no contractual payments are not due from customers until a technical report is submitted; therefore, a contract asset is recognized at milestone completion but prior to the submission of a technical report. The contract asset represents the Company's right to consideration for the services performed at milestone completion. Occasionally, customers provide payments in advance of the Company providing services which creates a 13LANZATECH GLOBAL, INC. NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS contract liability for the Company. The contract liability represents the Company's obligation to provide services to a customer. CarbonSmart The Company purchases ethanol from the customers who have deployed our proprietary technologies in their biorefining plants and sells it and its derivatives as CarbonSmart products. Revenue is recognized at a point in time when control transfers to our end customer, which varies depending on the shipping terms. The Company acts as the principal in such transactions and accordingly, recognizes revenue and cost of revenues on a gross basis. Amounts received for sales of CarbonSmart products are classified as Revenue from sales of CarbonSmart products in the condensed consolidated statements of operations and comprehensive loss. Collaboration Arrangements The Company has certain partnership agreements that are within the scope of ASC 808, Collaborative Arrangements, which provides guidance on the presentation and disclosure of collaborative arrangements. Generally, the classification of the transaction under the collaborative arrangements is determined based on the nature of the contractual terms of the arrangement, along with the nature of the operations of the participants. The Company's collaborative agreements generally include a provision of R&D services related to novel technologies and biocatalysts. Amounts received for these services are classified as Revenue from collaborative arrangements in the condensed consolidated statements of operations and comprehensive loss. The Company's R&D services are a major part of the Company's ongoing operations and therefore ASC 606 is applied to recognize revenue. Cost of Revenues The Company's R&D, engineering, and other direct costs of services and goods related to revenue agreements with customers, related parties, and collaborative partners represent cost of revenue. Costs include both internal and third-party fixed and variable costs and include materials, supplies, labor, and fringe benefits. Research and Development We expense as incurred costs associated with R&D activities other than those related to revenue agreements or those eligible for capitalization under applicable guidance. Concentration of Credit Risk and Other Risks and Uncertainties Revenue generated from the Company's customers and grant providers from outside of the United States for the three months ended September 30, 2024 and 2023 was approximately 73% and 75%, respectively. Revenue generated from the Company's customers and grant providers from outside of the United States for the nine months ended September 30, 2024 and 2023 was approximately 51% and 75%, respectively. As of September 30, 2024 and December 31, 2023, approximately 34% and 49%, respectively, of trade accounts receivable and unbilled accounts receivable were due from customers and grant providers located outside the United States. As of September 30, 2024 and December 31, 2023, the value of property, plant, and equipment outside the United States was immaterial. The Company's revenue by geographic region based on the contracting entities' location is presented in Note 5 - Revenues. Our largest contracting entities represent 10% or greater of revenue and were as follows for the three and nine months ended September 30, 2024 and 2023: Three Months Ended September 30, Nine Months Ended September 30, 2024/2023/2024/2023 Customer A16A %3A %30A %6A %Customer B19A %36A %16A %39A %Customer C14A %4A %4A %Recently Issued Accounting Pronouncements ASU 2023-07, Improvements to Reportable Segment Disclosures (the "ASU 2023-07") 14LANZATECH GLOBAL, INC. NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS In November 2023, the FASB issued ASU No. 2023-07, which improves reportable segment disclosure requirements, primarily through enhanced disclosures about significant segment expenses. In addition, the amendments enhance interim disclosure requirements, clarify circumstances in which an entity can disclose multiple segment measures of profit or loss, provide new segment disclosure requirements for entities with a single reportable segment, and contain other disclosure requirements. The purpose of the amendments is to enable investors to better understand an entity's overall performance and assess potential future cash flows. This ASU is effective for public companies with annual periods beginning after December 15, 2023, and interim periods within annual period beginning after December 15, 2024, with early adoption permitted. The Company is currently evaluating the impact that the adoption of the ASU will have on the consolidated financial statements. ASU 2024-03, Disaggregation of Income Statement Expenses (the "ASU 2024-03") In November 2024, the FASB issued ASU No. 2024-03, which introduces new disclosure requirements for reporting entities to provide disaggregated information on specific expense categories within relevant income statement captions. The standard aims to enhance transparency by requiring a breakdown of expenses such as purchases of inventory, employee compensation, depreciation, intangible asset amortization, and depletion. Additionally,

rate of 8.00% per annum, which interest will be added to the outstanding principal amount of the Convertible Note on the last day of the applicable interest period (beginning on the date of issuance and ending on and including the earlier of (x) the anniversary date of such issuance and (y) the maturity date, the â€œInterest Periodâ€); provided, however, that the Company is permitted to pay all interest payable during an Interest Period in cash pursuant to prior written notice to the Convertible Note holder. The Convertible Note will mature on August 6, 2029 (the â€œConvertible Note Maturity Dateâ€), unless earlier redeemed or converted in accordance with its terms. The Convertible Note is subject to mandatory conversion for shares of the Companyâ€™s common stock, par value \$0.0001 per share, upon the completion by the Company of an equity financing prior to the Convertible Note Maturity Date that results in the Company receiving minimum gross proceeds in an amount that is equal to the greater of (i) \$40,000 and (ii) 50% of the total principal amount under the outstanding convertible notes immediately following the final closing under the Convertible Note Purchase Agreement (a â€œQualified Equity Financingâ€) at a conversion price equal to the lower of (i) the lowest per-share selling price per share in the Qualified Equity Financing, less a 10% discount and (ii) the Valuation Cap (as defined below). The Convertible Note is convertible at the option of the holder upon the completion by the Company of an equity financing prior to the Convertible Note Maturity Date that does not meet the definition of a Qualified Equity Financing (a â€œNon-Qualified Equity Financingâ€) at a conversion price equal to 21LANZATECH GLOBAL, INC.NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTSThe lower of (i) the lowest per-share selling price in the Non-Qualified Equity Financing and (ii) the Valuation Cap. The Convertible Note is also convertible at the option of the holder any time prior to the Convertible Note Maturity Date at a conversion price equal to the Valuation Cap. The â€œValuation Capâ€ is \$1.25 per share), and (ii) with respect to a Convertible Note issued at any closing subsequent to the initial closing under the Convertible Note Purchase Agreement, the price per share equal to the greater of (a) \$1.56 and (b) the closing price per share of the Companyâ€™s common stock on the date prior to such closing. The Valuation Cap is subject to adjustment based on the Companyâ€™s holdings in LanzaTech, and the conversion price in all cases is subject to adjustment for stock splits, reclassifications, redesignations, subdivisions, recapitalizations, and dividends. As of the date of this filing no Qualified Equity Financing nor Non-Qualifying Financing events have occurred. The Convertible Note may not be prepaid or redeemed by the Company, either in whole or in part, without the consent of the holder, provided that the Company may redeem and prepay the Convertible Note without such consent (i) until August 6, 2025, in an amount equal to one and one half times the redeemed principal amount thereof; (ii) between August 7, 2025 and August 6, 2027, in an amount equal to two times the redeemed principal amount; and (iii) after August 6, 2027, in an amount equal to three times the redeemed principal amount; in all such cases, any and all accrued and unpaid interest to have been repaid in connection with the redemption. The Company elected the fair value option to account for the Convertible Note. See Note 11 - Fair Value for further details on the liability recorded as of SeptemberÂ 30, 2024 and associated losses in the change of its fair value for the three months ended SeptemberÂ 30, 2024. Note 9 â€” Stockholders' equity/At-the-Market (â€œATMâ€) ProgramOn May 9, 2024, the Company entered into an At Market Issuance Sales Agreement (the â€œSales Agreementâ€) and a Terms Agreement (the â€œTerms Agreementâ€) and, together with the Sales Agreement, the â€œATM Agreementsâ€) with B. Riley Securities, Inc. (â€œB. Riley Securitiesâ€) pursuant to which the Company may, from time to time, offer and sell through or to B. Riley Securities, as sales agent or principal, shares of the Companyâ€™s common stock, having an aggregate offering price of up to \$100,000. Sales of common stock under the ATM Agreements, if any, may be made by any method that is deemed an â€œat the market offeringâ€ as defined in Rule 415 promulgated under the Securities Act of 1933, as amended. The shares sold in this offering, if any, will be offered through or to B. Riley Securities, acting as agent in connection with agency transactions or as principal in connection with any principal transactions. Pursuant to the Terms Agreement, the Company will have the right, but not the obligation, from time to time at its sole discretion, for as long as the Sales Agreement remains effective, to direct B. Riley Securities on any trading day to act on a principal basis and purchase up to the maximum of the lesser of (a) 50% of the prior daily trading volume, or (b) \$180 per day as long as the closing price on the day prior exceeds \$1, and up to \$900 per week, and up to \$40,000 per twelve-month period, subject to any applicable limitations pursuant to the rules and regulations of The Nasdaq Stock Market, LLC (the aggregate amount so purchased by B. Riley Securities under the Terms Agreement, the â€œCommitmentâ€), which Commitment will be included within the aggregate offering price of up to \$100,000 of Common Stock sold pursuant to the ATM Agreements; provided, however, that only one principal sale may be requested per day unless otherwise agreed to by B. Riley Securities. B. Riley Securities will be entitled to receive from the Company a commission in an amount (i) up to 3.0% of the gross sales price per Share sold through it as agent in agency transactions and (ii) equal to 5.0% of the purchase price per Share sold to B. Riley Securities, as principal in principal transactions. The Company has agreed to provide B. Riley Securities with customary indemnification and contribution rights. The Company will also reimburse B. Riley Securities for certain specified expenses as set forth in the Sales Agreement. The Sales Agreement may be terminated by either B. Riley Securities or the Company, as permitted therein. The Sales Agreement will automatically terminate upon the sale of all of the Shares subject to the Sales Agreement. As of SeptemberÂ 30, 2024, LanzaTech has not sold any shares through the ATM Agreements. Shortfall WarrantsOn March 27, 2023, the Company issued an aggregate of 2,073,486 warrants to ACM and 2,010,000 warrants to Vellar pursuant to the FPA (collectively, the â€œShortfall Warrantsâ€). Each Shortfall Warrant entitles the registered holder to purchase one share of common stock at a price of \$10.00 per share, subject to adjustment in the event that the Company sells, grants or otherwise issues common stock or common stock equivalents at an effective price less than the then current 22LANZATECH GLOBAL, INC.NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTSexercise price of the Shortfall Warrants, at any time commencing on or after March 27, 2023. A holder of a Shortfall Warrant may exercise such warrants on a cashless basis. The Shortfall Warrants expire on the fifth anniversary of their issuance. On the issuance date, the Shortfall Warrants met the definition of a derivative but did not qualify for the exception from derivative accounting under the indexation guidance and therefore met the criteria for liability classification under ASC 815-40, Derivatives and Hedgingâ€”Contracts in Entityâ€™s Own Equity (â€œASC 815-40â€). On May 13, 2023, the Company amended the Shortfall Warrant agreement. Under the amended agreement, the Shortfall Warrants meet the requirements for equity classification under ASC 815-40. Consequently, the Company recorded a gain of \$2,042 as of the date of the amendment to reflect the fair value of \$3,063 at the date of the amendment through Other expense, net on the condensed consolidated statements of operations and comprehensive loss and reclassified the Shortfall Warrants to Additional paid-in capital on the condensed consolidated balance sheets. Public Warrants and Private Placement WarrantsAs part of AMCIâ€™s initial public offering (â€œIPOâ€), AMCI issued warrants to third-party investors. Each public warrant entitles the holder to purchase one share of the Companyâ€™s common stock at an exercise price of \$11.50 per share (the â€œPublic Warrantsâ€). Simultaneously with the closing of the IPO, AMCI completed the private sale of warrants. Each private sale warrant allows the holder to purchase one share of the Companyâ€™s common stock at \$11.50 per share. Additionally, prior to the consummation of the Business Combination, AMCI issued warrants for the settlement of a working capital loan. The working capital warrants have the same terms as the private sale of warrants issued at the IPO. Warrants sold in the private sale at the IPO and the warrants issued to convert the working capital loan are collectively referred to as the â€œPrivate Placement Warrantsâ€. On the Closing Date and as of SeptemberÂ 30, 2024, 7,499,924 Public Warrants and 4,774,276 Private Placement Warrants remained outstanding. These warrants expire on the fifth anniversary of the Business Combination or earlier upon redemption or liquidation and became exercisable 30 days after the Business Combination. The Company may redeem the outstanding Public Warrants:a.in whole and not in part;b.at a price of \$0.01 per warrant;c.upon a minimum of 30 daysâ€” prior written notice of redemption to each warrant holder, andd.if, and only if, the closing price of the common stock equals or exceeds \$18.00 per share for any 20 trading days within a 30-trading day period ending three trading days before we send the notice of redemption to the warrant holders. The Company additionally has the ability to redeem the Public Warrants at the option of the Company when the price of common stock exceeds \$10.00 per share at a price of \$0.10 per warrant. In this scenario, warrant holders may choose to exercise their warrants on a cashless basis during the minimum 30-day notice period, and receive common stock in exchange for their warrants at a rate based on fair value of the common stock and the proximity to the expiration date of the warrants. As long as the Private Placement warrants are held by AMCI Sponsor II LLC (the â€œSponsorâ€) or its permitted transferees, they are not redeemable by LanzaTech. If the Private Placement Warrants are held by holders other than the Sponsor or its permitted transferees, the Private Placement Warrants will be redeemable by LanzaTech in all redemption scenarios and exercisable by the holders on the same basis as the Public Warrants. The Sponsor, or its permitted transferees, has the option to exercise the Private Placement Warrants on a cashless basis. The Public Warrants and Private Placement Warrants are recognized as derivative liabilities in accordance with ASC 815. Accordingly, the Company recognized the warrant instruments as liabilities at fair value as of the Closing Date, with an offsetting entry to Additional paid-in capital and adjusts the carrying value of the instruments to fair value through Other expense, net on the condensed consolidated statements of operations and comprehensive loss at each reporting period until they are exercised. The Public Warrants and Private Placement Warrants are presented within Warrants on the condensed consolidated balance sheets. Note 10 â€” Forward Purchase Agreement23LANZATECH GLOBAL, INC.NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTSThe FPA consists of the Prepayment Amount, the FPA Put Option and the Fixed Maturity Consideration. The Prepayment Amount of \$60,547 is presented as a reduction to Additional paid-in capital in our condensed consolidated balance sheets. As of DecemberÂ 31, 2023, the value of the FPA Put Option, inclusive of the Variable Maturity Consideration, is valued at \$37,523 and is classified as non-current liability in the condensed consolidated balance sheets. As of SeptemberÂ 30, 2024, the FPA Put Option is valued at \$48,182 exclusive of the Variable Maturity Consideration, and remained classified as non-current liability in the condensed consolidated balance sheets. The Variable Maturity Consideration was reclassified to current in the condensed consolidated balance sheets as of September 30, 2024. As of DecemberÂ 31, 2023, the Fixed Maturity Consideration is valued at \$7,228 which represents the fair value of the fixed portion of the Share Consideration and the Minimum Maturity Consideration and is classified as non-current liability in the condensed consolidated balance sheets. As of SeptemberÂ 30, 2024, the entirety of the Fixed Maturity Consideration was reclassified to current in the condensed consolidated balance sheets. The current portion of the FPA related liabilities are valued at \$20,080 as of SeptemberÂ 30, 2024 and comprise the Fixed Maturity Consideration valued at \$8,247 and the Variable portion of the Share Consideration valued at \$11,833 that was included in the FPA Put Option liability previously. Expensed transaction costs, representing the stock acquisition fees, in the amount of \$451 were recorded in Other expense, net on the condensed consolidated statements of operations and comprehensive loss in the nine months ended SeptemberÂ 30, 2023. On July 22, 2024, Vellar purported to accelerate the FPA Maturity Date with respect to its portion of the FPA in connection with the satisfaction of the VWAP Condition. It subsequently delivered to the Company a notice of default under the FPA. On July 24, 2024, the Company filed suit against Vellar under the FPA, primarily in connection with Vellarâ€™s sale of Recycled Shares (see Note 15 - Commitments and Contingencies). In October 2024, ACM accelerated the FPA Maturity Date with respect to its portion of the FPA in connection with the satisfaction of the VWAP Condition, and the Company fully satisfied its obligation to ACM in accordance with the FPAâ€™s provisions (see Note 16 - Subsequent Events). Note 11 â€” Fair ValueThe following table presents the Companyâ€™s fair value hierarchy for its assets and liabilities measured at fair value as of SeptemberÂ 30, 2024 and DecemberÂ 31, 2023 (in thousands):Fair Value Measurement as of September 30, 2024Level 1Level 2Level 3TotalAssets:Cash equivalents\$29,754Â \$â€”Â \$â€”Â \$29,754Â Total assets\$29,754Â \$â€”Â \$â€”Â \$29,754Â Liabilities:Convertible Note\$â€”Â \$61,577Â \$61,577Â FPA Put Option liabilityâ€”Â \$â€”Â \$48,182Â \$48,182Â Fixed Maturity Consideration and current portion of the FPA Put Optionâ€”Â \$â€”Â \$20,080Â \$20,080Â Brookfield SAFE liabilityâ€”Â \$â€”Â \$9,550Â \$9,550Â Private Placement Warrantsâ€”Â \$â€”Â \$1,480Â \$1,480Â Public Warrants1,125Â \$â€”Â \$â€”Â \$1,125Â Total liabilities\$1,125Â \$â€”Â \$140,869Â \$141,994Â 24LANZATECH GLOBAL, INC.NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTSFair Value Measurement as of December 31, 2023Level 1 Level 1Level 2Level 3TotalAssets:Cash equivalents\$28,058Â \$â€”Â \$â€”Â \$28,058Â Liabilities:FPA Put Option liabilityâ€”Â \$â€”Â \$37,523Â \$37,523Â Fixed Maturity Considerationâ€”Â \$â€”Â \$7,228Â \$7,228Â Brookfield SAFE liabilityâ€”Â \$â€”Â \$25,150Â \$25,150Â Private Placement Warrantsâ€”Â \$â€”Â \$3,915Â \$3,915Â Public Warrants3,699Â \$â€”Â \$3,699Â Total Liabilities \$3,699Â \$â€”Â \$73,816Â \$77,515Â Forward Purchase AgreementThe fair value upon issuance of the FPA (both the FPA Put Option liability and Fixed Maturity Consideration) and subsequent changes in fair value are included in Other expense, net in the condensed consolidated statements of operations and comprehensive loss in the corresponding period. The fair value of the FPA was estimated using a Monte-Carlo Simulation in a risk-neutral framework through March 31, 2024. Because the stock price already traded below the threshold of \$3.00 per share for 49 days out of 50 trading days during a 60-day consecutive trading-day period, management determined that estimating the fair value of the FPA using an accelerated FPA Maturity Date was more appropriate. As such, the model calculated the value of the in-substance written put option and the portion of the Maturity Consideration in excess of the Fixed Maturity Consideration as if the Early Termination Option was exercised on June 30, 2024. The in-substance written put option was calculated as the repurchase of the Recycled Shares at the Share Price minus the Companyâ€™s share price as of June 30, 2024. The Maturity Consideration was calculated as 7,500,000 multiplied by \$2.00 or \$15,000, which included the Fixed Maturity Consideration calculated as 7,500,000 less the Terminated Shares multiplied by \$2.00, or \$3,167. The following table represents the inputs used in calculating the fair value of the prepaid forward contract and the Fixed Maturity Consideration as of SeptemberÂ 30, 2024 and DecemberÂ 31, 2023:September 30, 2024December 31, 2023Stock price\$1.91\$5.03Term (in years)0.211Expected volatilityN/A50.0%Risk-free interest rateN/A4.16%Expected dividend yieldâ€”Â %â€”Â %The Company has filed suit against Vellar under the FPA (see Note 15 - Commitments and Contingencies) and fully settled with ACM in October 2024 (see Note 16 - Subsequent Events).Convertible NoteThe Company has elected to measure the Convertible Note using the fair value option under ASC 825. As of SeptemberÂ 30, 2024, no part of the Convertible Note has converted into the Companyâ€™s common stock as no Qualified Equity Financing nor Non-Qualifying Financing events have occurred and the holders has not exercised its right to convert. The fair value of the Convertible Note was estimated using a binomial lattice model. At issuance, the Company recognized the Convertible Note liability at a fair value of \$40,150 on August 6, 2024. Subsequently, the Company remeasured the liability and recognized an increase in fair value of approximately \$21,422 on the condensed consolidated statements of operations and comprehensive loss within Other expense, net representing the change in fair value from the initial closing to SeptemberÂ 30, 2024, and \$5 attributable to the change in the instrument-specific credit risk in other comprehensive income.25LANZATECH GLOBAL, INC.NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTSThe following table represents the inputs used in calculating the fair value of the Convertible Note as of SeptemberÂ 30, 2024 and August 6, 2024:September 30, 2024August 6, 2024Stock price\$1.91\$1.40Term (in years)4.855Expected volatility80.0%85.0%Risk-free interest rate3.50%3.70%Expected dividend yieldâ€”Â %â€”Â %Brookfield SAFEThe Brookfield SAFE is legal form debt that the Company has elected to measure using the FVO under ASC 825. As of SeptemberÂ 30, 2024, no part of the Brookfield SAFE has converted to Company common shares as no qualifying projects have been presented to Brookfield yet. There were no cash flows associated with the Brookfield SAFE in the three months ended SeptemberÂ 30, 2024. As of SeptemberÂ 30, 2024, the Company expects to present sufficient projects to Brookfield to result in the Brookfield SAFE being automatically converted into shares. Since the liquidity price was set at the Business Combination, the number of shares that Brookfield receives is fixed. Based on this expectation, the value of the Brookfield SAFE is equal to the Brookfield SAFEâ€™s as-converted value, which is the initial purchase amount, divided by the liquidity price, multiplied by the stock price, resulting in an estimated fair value of \$9,550 recorded on the condensed consolidated balance sheet. Significant inputs for Level 3 Brookfield SAFE measurement at SeptemberÂ 30, 2024 and DecemberÂ 31, 2023 are as follows:September 30, 2024December 31, 2023Initial purchase amount\$50,000Â \$50,000Â Liquidity price\$10.00Â \$10.00Â Stock price\$1.91Â \$5.03Â Public Warrants and Private Placement WarrantsFor the Public Warrants, the Company uses inputs such as actual trade data, quoted market prices from dealers or brokers, and other similar sources to determine the fair value. Changes in fair value are recorded in Other expense, net within the condensed consolidated statements of operations and comprehensive loss. The Company recognized decreases in the fair value of the liability of \$2,574 and \$2,100 during the nine months ended SeptemberÂ 30, 2024 and 2023, respectively. The fair value of the Private Placement Warrants was estimated using a Black-Scholes option pricing model. For the nine months ended SeptemberÂ 30, 2024, the Company recognized a decrease in the fair value of \$2,435. For the nine months ended SeptemberÂ 30, 2023, the Company recognized an increase in the fair value of liabilities of approximately \$2,912. Changes in fair value are recorded on the condensed consolidated statements of operations and comprehensive loss within Other expense, net. The following table represents the weighted average inputs used in calculating the fair value of the Private Placement Warrants outstanding as of SeptemberÂ 30, 2024 and DecemberÂ 31, 2023:September 30, 2024December 31, 2023Stock price\$1.91\$5.03Exercise price\$11.50\$11.50Term (in years)3.364.11Expected volatility77.5%45.0%Risk-free interest rate3.58%3.92%Expected dividend yieldâ€”Â %â€”Â %26LANZATECH GLOBAL, INC.NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTSThe following tables represent reconciliations of the fair value measurements of the assets and liabilities using significant unobservable inputs (Level 3) (in thousands):Convertible NoteFPA Put OptionFixed Maturity ConsiderationBrookfield SAFEPublic Placement WarrantsBalance as of January 1, 2024\$â€”Â \$(37,523)\$7,228\$(25,150)\$(3,914)Issuance of the Convertible Note(40,150)â€”Â â€”Â â€”Â (Loss) gain recognized in other expense, net on the condensed consolidated

summarizes amounts related to transactions with these related parties (in thousands): As of September 30, 2024 December 31, 2023 Accounts receivable \$2,182 \$2,190 Contract Assets 461 659 Notes receivable 5,698 5,436 Accounts payable 157 582 The following table presents revenue from related parties per disaggregated revenue categories: A Three Months Ended September 30, Nine Months Ended September 30, 2024 2023 2024 2023 Revenue from related parties, included within Licensing \$1,088 \$1,515 \$10,209 \$2,902 Revenue from related parties, included within Engineering and other services 530 1041 1907 666 The main transactions with related parties are described below: LanzaJet The Company and LanzaJet have entered into a master service agreement defining the terms when LanzaJet is a subcontractor for some of the Company's projects, and conversely, when the Company is a subcontractor for LanzaJet's projects. The accounts payable balance is for work that LanzaJet performed as a subcontractor to the Company. In connection with the formation of LanzaJet, the Company entered into a transition services agreement with LanzaJet. The transition services agreement generally sets out the respective rights, responsibilities and obligations of the Company and LanzaJet with respect to R&D services, access to office and laboratory space, business development and other administrative support services. The transition services agreement may be terminated by mutual consent of the Company and LanzaJet, by LanzaJet at any time, and by the Company upon breach or non-payment by LanzaJet. There are no substantive termination penalties in the event the Company terminates. For the three months ended September 30, 2024 and 2023, the Company recognized revenue of approximately \$63 and \$97, respectively, under the transition services agreement. For the nine months ended September 30, 2024 and 2023, the Company recognized revenue from related parties of approximately \$150 and \$209, respectively, under the transition services agreement. In addition to the licensing and sublicensing of its intellectual property, pursuant to the Investment Agreement as described in Note 6 - Investments, the Company provides certain engineering and other services related to a gas-31 LANZATECH GLOBAL, INC. NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS jet demonstration plant currently in development by LanzaJet and other projects whereby LanzaJet is the customer. The Company recognized revenue of \$15 and \$6, respectively, for the three months ended September 30, 2024 and 2023. The Company recognized revenue of \$44 and \$446, respectively, for the nine months ended September 30, 2024 and 2023. In December 2023, LanzaTech sold LanzaJet the right to utilize some of LanzaTech's completed engineering work as a basis for future LanzaJet projects. The Company recognized \$58 and \$173 in deferred profit for the three and nine months ended September 30, 2024 and 2023. LanzaJet Note Purchase Agreement On November 9, 2022, the Company and the other LanzaJet shareholders entered into a Note Purchase Agreement (the "LanzaJet Note Purchase Agreement"), pursuant to which LanzaJet Freedom Pines Fuels LLC (the "FFP"), a wholly owned subsidiary of LanzaJet, will issue, from time to time, notes in an aggregate principal amount of up to \$147,000 (the "Notes"), comprised of approximately \$113,500 aggregate principal amount of 6.00% Senior Secured Notes maturing December 31, 2043 and \$33,500 aggregate principal amount of 6.00% Subordinated Secured Notes maturing December 31, 2043. The Company committed to purchase \$5,500 of Subordinated Secured Notes, which was funded on May 1, 2023. The Senior Secured Notes are secured by a security interest over substantially all assets of FFP, and both the Senior Secured Notes and the Subordinated Secured Notes are secured by a security interest over the intellectual property owned or in-licensed by LanzaJet. Each purchaser of Notes under the LanzaJet Note Purchase Agreement also received a warrant for the right to purchase 575,000 shares of common stock of LanzaJet for each \$10,000 of Notes purchased by such purchaser for an exercise price of \$0.01 per share. The warrants are exercisable when the related loan commitment is funded, and may be exercised until the earlier of the third anniversary following the date the holder's loan commitment is fully funded, or the end of the availability period as defined in the LanzaJet Note Purchase Agreement if the commitment has not been fully funded. In the case of the Company, LanzaTech received warrants to purchase 316,250 shares of common stock of LanzaJet, which became exercisable by the Company when the note was funded on May 1, 2023. The Company exercised the warrants in January 2024. Upon funding of the Notes, the warrants meet the accounting criteria to be considered in-substance common stock, and are accounted for as part of the equity-method investment. Refer to Note 6 - Investments. The LanzaJet Note Purchase Agreement may be amended with the approval of holders of at least 66 2/3% of the Notes, except with respect to certain rights that require approval of all holders to amend. Upon an event of default under the LanzaJet Note Purchase Agreement, each purchaser may accelerate the payment of its own Notes. Enforcement against the collateral securing the Notes requires the approval of certain holders as specified in the Notes. SGLT The Company supplies SGLT with certain water-soluble organic compounds required in the Company's proprietary gas fermentation process, small-size equipment and consulting services. For the three months ended September 30, 2024 and 2023, the Company recognized revenue of approximately \$57 and \$0, respectively. For the nine months ended September 30, 2024 and 2023, the Company recognized revenue of approximately \$108 and \$75, respectively. The Company also provided engineering services and incurred costs of \$328 and \$199 for the three months ended September 30, 2024 and 2023, and provided engineering services and incurred costs of \$783 and \$612 for the nine months ended September 30, 2024 and 2023, respectively. Additionally, LanzaTech and SGLT entered into a license agreement in 2019, subsequently amended in August 2023, to provide SGLT with the right to sublicense the intellectual property that LanzaTech previously licensed to SGLT. In exchange, the Company is entitled to receive fixed licensing consideration, calculated as a percentage of the maximum amount of royalties owed to SGLT from its sublicenses. Prior to June 2023, the Company was only entitled to royalties from SGLT, if SGLT received sublicense royalty payments. For the three and nine months ended September 30, 2024, the Company did not recognize any sublicensing revenue. For the three and nine months ended September 30, 2023, the Company recognized sublicensing revenues of \$951 and \$1,200, respectively. 32 LANZATECH GLOBAL, INC. NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS Note 15 a) Commitments and Contingencies Litigation The Company may be involved in legal proceedings and exposed to potential claims in the normal course of business. As of September 30, 2024 and December 31, 2023, the Company does not have any reasonably possible or probable losses from such claims. The Company has filed suit against Vellar under the FPA, and Vellar has filed suit against the Company, as discussed below. Vellar lawsuit In relation to the FPA, the Company's volume-weighted average share price was below \$3.00 per share for 50 trading days during the 60 day consecutive trading period ended on July 1, 2024 (satisfying the VWAP Condition). On July 22, 2024, Vellar (one of the Purchasers) notified the Company of the satisfaction of the VWAP Condition, purporting to accelerate the FPA Maturity Date of its portion of the Recycled Shares (i.e., 2,990,000 common shares) to July 22, 2024. Vellar asserts that it is entitled to: (i) the Maturity Consideration of \$7,500 (payable at the Company's option in cash or shares of common stock valued at the average daily VWAP Price (as defined in the FPA) over 30 scheduled trading days ending on the accelerated FPA Maturity Date of July 22, 2024 of \$1.91 per share) and (ii) a Share Consideration of \$2,539, payable in cash each due and payable on July 24, 2024. On July 25, 2024 the Company received a notice from Vellar pursuant to the FPA, stating that the Company is in default of its payment obligations. On July 30, 2024, the Company received a notice of an event of default under the FPA from Vellar that (i) designated such date as the early termination date of the FPA and (ii) purports to result in an early termination cash payment of \$4,164 becoming due to Vellar (equating to the sum of the Maturity Consideration and the Share Consideration minus the VWAP Price (as defined in the FPA) (as of July 29, 2024) of Vellar's portion of the Recycled Shares). On July 24, 2024, LanzaTech filed suit against Vellar, primarily in connection with Vellar's sale of Recycled Shares, which LanzaTech alleges are in breach of the FPA's requirement that Recycled Shares be held in a bankruptcy remote special purpose vehicle.

vehicle for the benefit of the Company unless the sale is noticed to the Company as part of an early termination, which Vellar has not done. In the event of a sale of Recycled Shares subject to an optional early termination, the Company is entitled to receive approximately \$10.16 for each share sold (see Note 2 - Summary of Significant Accounting Policies). LanzaTech believes that Vellar's notice regarding the VWAP Condition and consequently, its notice of an event of default, is not valid and accordingly, that no payments are owed to Vellar in connection with the purported acceleration of the FPA Maturity Date or early termination of the FPA. The Company intends to vigorously pursue its claims against Vellar. On October 23, 2024, Vellar filed suit against the Company, alleging breach of the FPA, and seeking \$4,164 plus interest. The Company intends to vigorously defend itself against the claim. On October 24, 2024, Vellar sought advancement of certain expenses from the Company in connection with this litigation. The Company denied the request on October 28, 2024. As of September 30, 2024, the Company does not have sufficient information to predict the outcome of the lawsuits. Commitments In November 2022, the Company entered into a lease for real estate to expand its headquarters in Skokie, Illinois. The lease was subsequently amended in December 2023. The lease contains multiple lease components, and the commencement date for one lease component occurred in October 2024. Accordingly, for this lease component where the lease commenced after September 30, 2024, there are no right-of-use assets or lease liabilities recorded on the condensed consolidated balance sheets as of September 30, 2024. Total lease payments through 2036 for this lease component are expected to be \$136. Note 16 "Subsequent Events" On October 2, 2024, at a Special Meeting of Stockholders of the Company, the Company's stockholders voted on and approved an amendment to the Company's Second Amended and Restated Certificate of Incorporation to 33LANZATECH GLOBAL, INC. NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS Increase the number of authorized shares of common stock of the Company from 400,000,000 shares to 600,000,000 shares (the "Charter Amendment"). On October 3, 2024, the Company filed the Charter Amendment with the Secretary of State of the State of Delaware. The Charter Amendment became effective upon filing. On October 4, 2024, ACM delivered to the Company notice of satisfaction of the VWAP Condition, which accelerated the FPA Maturity Date with respect to ACM's portion of the FPA. On October 15, 2024 and October 21, 2024, the Company paid in cash to ACM \$2,539 in Share Consideration and \$7,500 in Maturity Consideration, respectively, and ACM subsequently returned its Recycled Shares to the Company. As a result, the Company's and ACM's obligations under the FPA have been fully satisfied. 34 ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS The following discussion and analysis should be read in conjunction with our interim condensed consolidated financial statements and the related notes included in Part I, Item 1 of this Quarterly Report, and our audited consolidated financial statements and related notes included in the Company's Form 10-K filed with the Securities and Exchange Commission on February 29, 2024. This discussion and analysis may contain forward-looking statements based upon current beliefs, plans and expectations that involve risks, uncertainties, and assumptions, including, but not limited to, risks and uncertainties discussed under the heading "Cautionary Note on Forward-Looking Statements," and in Part II, Item 1A "Risk Factors" in this Quarterly Report and in Part I, Item 1A "Risk Factors" included in our Annual Report on Form 10-K. In this section, unless otherwise indicated or the context otherwise requires, references in this section to "LanzaTech," the "Company," "we," "our," "us," "we," "ours," "our," "our," and other similar terms refer to LanzaTech Global, Inc. and its consolidated subsidiaries, including LanzaTech NZ, Inc. and its consolidated subsidiaries subsequent to the Business Combination and LanzaTech NZ, Inc. and its consolidated subsidiaries prior to the Business Combination. References to "AMCI" refer to AMCI Acquisition Corp. II prior to the Business Combination. Overview We are a nature-based carbon refining company that develops technology to transform waste carbon into the chemical building blocks for consumer goods such as sustainable fuels, fabrics, and packaging that people use in their daily lives. Our customers leverage our proven proprietary gas fermentation technology platform to convert certain feedstock, including waste carbon gases, into sustainable fuels and chemicals such as ethanol. Today, we are focused on taking advantage of the many uses of ethanol while capitalizing on the growing preference among major companies for renewable products and environmentally-conscious manufacturing processes. We have also been developing the capabilities to produce single cell protein as a primary product from our gas fermentation platform. LanzaTech primarily employs a licensing business model whereby our customers build, own and operate facilities that use our technology, and in return, we are paid a royalty fee based on the revenue generated from the use of our technology. We are evolving our technology licensing business model to incorporate incremental ownership and operatorship in the biorefining value chain, enabling greater control over development, financing, and product access. We began operations in 2005. In 2018, through our joint venture with Shougang LanzaTech (also referred to as "SGLT" herein), we established the world's first commercial waste gas-to-ethanol plant in China, followed by five more plants between 2021 and 2023 - three in China, one in India, and one in Belgium with others currently in development in various countries around the world. We also perform research and development ("R&D") services related to novel technologies and development of biocatalysts for commercial applications, mainly to produce fuels and chemicals. Recently, the Company and LanzaJet launched CirculAir™, a new joint offering and end-to-end solution utilizing LanzaTech's gas fermentation technology in conjunction with LanzaJet's Alcohol-to-Jet (ATJ) platform to produce sustainable aviation fuel and renewable diesel from a wide range of waste feedstocks. We have not achieved operating profitability since our formation. Our net losses after tax were \$(57.4) million for the three months ended September 30, 2024 and \$(25.3) million for the same period in 2023. As of September 30, 2024 we had accumulated deficit of \$(942.6) million compared to an accumulated deficit of \$(831.9) million as of December 31, 2023. We anticipate that we will continue to incur losses until we sufficiently commercialize our technology. Near-term, we expect engineering services, including equipment packages associated with the construction of several projects that use our technology, sale of CarbonSmart products, and project development services to drive higher revenues. The Business Combination On March 8, 2022, AMCI entered into the Merger Agreement with LanzaTech NZ, Inc. and AMCI Merger Sub, Inc. (the "Merger Sub"). On February 8, 2023, Merger Sub merged with and into LanzaTech NZ, Inc. Upon consummation of the Business Combination, the separate corporate existence of Merger Sub ceased, and LanzaTech NZ, Inc. survived the Business Combination and became a wholly owned subsidiary of AMCI. In connection with the consummation of the Business Combination, the combined company was renamed LanzaTech Global, Inc. Basis of Presentation LanzaTech's unaudited condensed consolidated financial statements were prepared in accordance with US GAAP. See Note 2 - Summary of Significant Accounting Policies to our condensed consolidated financial statements for a full description of our basis of presentation. Key Operational and Business Metrics In addition to the measures presented in our condensed consolidated financial statements, we review the following key business metrics to measure our performance, identify trends affecting our business, formulate business plans, and make strategic decisions that will impact the future operational results of LanzaTech. Increases or decreases in our key business metrics may not correspond with increases or decreases in our revenue. Key Financial Metrics: The key elements of LanzaTech's performance for the three months ended September 30, 2024 and September 30, 2023 are summarized in the tables below: Three Months Ended September 30, Change (In thousands, except for percentages) 2024 vs. 2023 GAAP Measures: Revenue \$9,943 \$19,605 \$(9,662)(49)% Net Loss (57,431)(25,326)(32,105) 127% Key Performance Indicators: One-Time Revenue 8,414 18,075A (9,661)(53)% Recurring Revenue (1) 1,529A 1,530A (1)A % Total Revenue \$9,943A \$19,605A \$(9,662)(49)% Cost of Revenues (ex. Depreciation) (2)(8,141) (14,371) 6,230A (43)% Selling, general & administrative (11,452)(11,808) 356A (3)% Adjusted EBITDA (3) \$(27,081) \$(19,062) \$(8,019) 422A % (1) Includes revenue from licensing and sales of microbes and media. (2) Consists of costs of revenues from contracts with customers and grants (exclusive of depreciation), cost of revenue from collaboration agreements (exclusive of depreciation) and cost of revenue from related party transactions (exclusive of depreciation). (3) Adjusted EBITDA, a non-GAAP financial measure, is calculated as net loss, excluding the impact of depreciation, interest income, net, stock-based compensation, change in fair value of warrant liabilities, change in fair value of SAFE liabilities, change in fair value of the FPA Put Option liability and Fixed Maturity Consideration, change in fair value of the Convertible Note and associated transaction costs, transaction costs on issuance of FPA, loss from equity method investees, net and other one-time costs related to the Business Combination and securities registration on Form S-4, our registration statement on Form S-1, and non-recurring regulatory matters. Adjusted EBITDA is a supplemental measure that is not a substitute for, or superior to, measures of financial performance prepared in accordance with US GAAP. Adjusted EBITDA does not represent, and should not be considered, an alternative to net income (loss), as determined in accordance with US GAAP. See "Non-GAAP Financial Measures" for additional information and reconciliation of Adjusted EBITDA to net loss, its most directly comparable US GAAP measure. 36 Key Financial Metrics: The key elements of LanzaTech's performance for the nine months ended September 30, 2024 and September 30, 2023 are summarized in the tables below: Nine Months Ended September 30, Change (In thousands, except for percentages) 2024 vs. 2023 GAAP Measures: Revenue \$37,562A 42,168A \$(4,606)(11)% Net Loss (110,738) \$(115,424) 6,686A (4)% Key Performance Indicators: One-Time Revenue 26,931A 38,406A (11,475)(30)% Recurring Revenue (1) 10,631A 3,762A 6,869A 183% Total Revenue \$37,562A 42,168A \$(4,606)(11)% Cost of Revenues (ex. Depreciation) (2)(20,402) (32,988) 12,586A (38)% Selling, general & administrative (34,236)(41,095) 6,859A (17)% Adjusted EBITDA (3) \$(66,981) \$(66,398) \$(583) 1A % (1) Includes revenue from licensing and sales of microbes and media. (2) Consists of cost of revenues from contracts with customers and grants (exclusive of depreciation), cost of revenue from collaboration agreements (exclusive of depreciation) and cost of revenue from related party transactions (exclusive of depreciation). (3) Adjusted EBITDA, a non-GAAP financial measure, is calculated as net loss, excluding the impact of depreciation, interest income, net, stock-based compensation, change in fair value of warrant liabilities, change in fair value of SAFE liabilities, change in fair value of the FPA Put Option liability and Fixed Maturity Consideration, change in fair value of the Convertible Note and associated transaction costs, transaction costs on issuance of FPA, loss from equity method investees, net and other one-time costs related to the Business Combination and securities registration on Form S-4, our registration statement on Form S-1, and non-recurring regulatory matters. Adjusted EBITDA is a supplemental measure that is not a substitute for, or superior to, measures of financial performance prepared in accordance with US GAAP. Adjusted EBITDA does not represent, and should not be considered, an alternative to net income (loss), as determined in accordance with US GAAP. See "Non-GAAP Financial Measures" for additional information and reconciliation of Adjusted EBITDA to net loss, its most directly comparable US GAAP measure. 37 Key Non-Financial Metrics: (in thousands of tonnes per annum) Capacity as of September 30, 2023 244A Additions 64A Capacity as of September 30, 2024 308A Capacity based on LanzaTech's technology includes capacity by customers and our cost method investee, is one of the key drivers for the Company's licensing revenues given that they are usually contracted on a percentage-of-revenue, a dollars-per-tonne, or fixed-consideration basis. 38 Components of Operating Results While we have offerings in multiple market segments and operate in multiple countries, we operate and manage our business as one reportable operating segment. Nearly all of our service offerings are delivered and supported on a global basis. Additionally, most of our service offerings are deployed in a similar way, and we evaluate our financial information and resources and assess the performance of these resources on a consolidated basis. Revenues We earn revenue through engineering and other services contracts, U.S. and foreign government contracts, joint development agreements, and licensing agreements, which, together, represent a single operating segment. Revenues can be viewed as a combination of the following: a) Biorefining which includes feasibility studies and engineering services for basic design, procurement and construction of commercial plants utilizing our technologies, and licensing of intellectual property and software when customers deploy our biorefining technology; b) Joint development and research services related to novel technologies and the development of biocatalysts; and d) Sale of CarbonSmart products to customers. Revenue is measured based on the consideration specified in customer contracts and excludes amounts collected on behalf of third parties. Biorefining We provide feasibility studies and basic design and engineering services used for detailed design, procurement, and construction of commercial plants that utilize our technologies, along with the sale of equipment and microbes. The services provided are recognized as a performance obligation satisfied over time. Revenue is recognized using the cost-to-cost input method for certain engineering services or the percentage of completion method in accordance with Accounting Standards Codification ("ASC") 606, Revenue from Contracts with Customers ("ASC 606"). Revenue for the sale of microbes and media is recognized at a point in time, depending on when control transfers to the customer. We license intellectual property to generate recurring revenue in the case of running royalties, or one-time revenue, in the case of fixed consideration royalties, when our customers deploy our technology in their biorefining plants. When licenses are considered to be distinct performance obligations, the recognition of revenue is dependent on the terms of the contract, which may include fixed consideration or royalties based on sales or usage, in which case, the revenue is recognized when the subsequent sale or usage occurs or when the performance obligation to which some or all of the sales or usage-based royalty is allocated or has been satisfied, whichever is later. Joint Development and Contract Research We perform R&D services related to novel technologies and the development of biocatalysts for commercial applications, mainly to produce fuels and chemicals. We engage in two main types of R&D services: a) joint development agreements, and other contract research, including projects with the U.S. Department of Energy. Such services are recognized as a performance obligation satisfied over time. Revenue is recognized based on milestone completion, when payments are contingent upon the achievement of such milestones, or based on stage of contract or phase completion when enforceable rights to payment exist. When no milestones or stages are clearly defined, management has determined that the cost incurred, input method, is an appropriate measure of progress toward complete satisfaction of the performance obligations under ASC 606 and estimates its variable consideration under the expected value method. Revenue is not recognized in advance of customer acceptance of a milestone, when such acceptance is contractually required. Payments for R&D services with no contractual payments are not due from customers until a technical report is submitted; therefore, a contract asset is recognized at milestone completion but prior to the 39 submission of a technical report. The contract asset represents the Company's right to consideration for the services performed at milestone completion. Occasionally, customers provide payments in advance of us providing services which creates a contract liability for the Company. The contract liability represents our obligation to provide services to a customer. CarbonSmart We sell CarbonSmart products and intermediaries directly to customers, that derive from the ethanol we purchased from our licensed plants using the Company's proprietary technologies. Revenue is recognized at a point in time when control transfers to the customer, which varies depending on the shipping terms. We generally act as the principal in such transactions and accordingly, recognize revenue and cost of revenues on a gross basis. Cost of Revenues Costs include both internal and third-party fixed and variable costs and include materials, supplies, labor, and fringe benefits. They also include R&D costs associated with external projects, engineering, and other direct costs of services that are related to revenue agreements with customers, grantors, related parties, and collaborative partners, and represent costs of revenue. Research and Development Expenses R&D costs associated with internal R&D projects consist of personnel costs, external services, materials and supplies as well as various laboratory activities. Indirect R&D costs include depreciation and other indirect overhead expenses. We expect our R&D activities to increase in the future as revenue grows but decrease as a percentage of our overall cost structure. Selling, General and Administrative Expenses Selling, general and administrative expenses ("SG&A") consist primarily of personnel costs, costs of general corporate development activities, travel-related expenses, and other indirect overhead costs. Our general and administrative expenses consist primarily of personnel costs for our executive, finance, corporate and other administrative functions, intellectual property and patent costs, facilities and other allocated expenses, other expenses for outside professional services, including legal, human resources, audit and accounting services, and insurance costs. Our general and administrative expenses were higher in the first quarter of 2023 as a result of becoming a public company, including additional costs relating to compliance with the rules and regulations of the SEC and stock exchange rules, legal and audit services, additional insurance, investor relations activities, and other administrative and professional services. The costs have started to stabilize, but we expect them to remain at higher levels than they were prior to the Business Combination. We also expect our intellectual property expenses to increase as we expand and increase protection of our intellectual property portfolio. Other Expense, Net Other expense, net relates to miscellaneous other income and expenses and foreign currency gains and losses. These items include the mark-to-market adjustments on all liability classified warrants, the FPA Put Option liability, the Fixed Maturity Consideration, Convertible Note, and SAFE liabilities. Interest income, net consists of income earned from our cash, cash equivalents and debt security investments. Our interest income has increased following the completion of the Business Combination as we invested the net proceeds in a variety of capital preservation financial instruments, including short-term, investment-grade, interest-bearing obligations of the U.S. government and its agencies. Loss (Gain) from Equity Investees, Net We hold interests in LanzaJet located in the United States, and the Shougang Joint Venture (SGLT) located in China which we have determined to be variable interest entities ("VIEs") for which it has been determined we are not the primary beneficiary. Our variable interests primarily relate to entities in which we have a non-controlling equity interest. Although these financial arrangements resulted in holding variable interests in these entities, they do not empower us to direct the activities of the VIEs that most significantly impact the VIEs' economic performance, therefore LanzaTech has determined it is not the primary beneficiary and does not currently consolidate these VIEs. The Company currently has a license agreement with SGLT and a letter agreement with SGLT and Sinopec Capital Co., Ltd related to the use of our intellectual property and potential collaborations. These agreements do not provide LanzaTech with the power to direct the activities that are most significant to the economic performance of these entities. Through our holdings in LanzaJet, our representation on the board of directors and participation in the policy-making process, as well as the material intra-entity transactions,

we have determined that we can exercise significant influence over the activities of LanzaJet. Our interest in LanzaJet is accounted for under the equity method of accounting, with income (loss) from equity method investees, net recognized in our consolidated statements of operations and comprehensive loss and equity method investments recognized on our consolidated balance sheets. Income Tax Current and deferred taxes are calculated based on tax rates enacted or substantively enacted at the reporting date and are recognized in profit or loss except when the tax relates to items charged or credited to other comprehensive income, in which case the tax is also recognized in other comprehensive income. Deferred tax is recognized in respect of temporary differences arising between the tax bases of assets and liabilities and their carrying amounts in the financial statements. Deferred tax assets including those relating to temporary differences, net operating loss carryforwards and tax credit carryforwards, are only recognized to the extent it is more likely than not that future taxable income will be available to utilize the temporary differences and carryforwards. Our net operating loss carryforwards are subject to shareholder continuity rules, and may be impacted by future fundraising activities. We maintain a valuation allowance against the full value of our net deferred tax assets because management believes the recoverability of the tax assets is not more likely than not.41Results of Operations Å“ Three Months Ended September Å“ 30, 2024 Compared to Three Months Ended September Å“ 30, 2023 The results of operations presented below should be reviewed in conjunction with our condensed consolidated financial statements and notes. The following table sets forth our consolidated results of operations for the periods indicated:Three Months Ended September 30,Change202420232024 vs. 2023(In thousands, except for per share amounts)Total revenue\$9,943A \$19,605A \$(9,662)(49)%Cost of revenue(exclusive of depreciation shown below)(8,141)(14,371)6,230A (43)%Operating expenses:Research and development(22,006)(16,645)(5,361)32A %Depreciation expense(1,301)(1,376)75A (5)%Selling, general and administrative expense(11,452)(11,808)356A (3)%Total operating expenses(34,759)(29,829)(4,930)17A %Loss from operations(32,957)(24,595)(8,362)34A %Interest income, net791A 1,249A (458)(37)%Other expense, net(19,730)(1,517)(18,213)201A %Total other expense, net(18,939)(268)(18,671)N/MLoss before income taxes(51,896)(24,863)(27,033)109A %Loss from equity method investees, net(5,535)(463)(5,072)1095A %Net loss\$(57,431)\$(25,326)\$(32,105)127A %Other comprehensive loss:Foreign currency translation adjustments(48)(1,001)953A 95A %Comprehensive loss\$(57,479)\$(26,327)\$(31,152)118A %Net loss per share - basic and diluted\$(0.29)\$(0.13)Weighted-average number of common shares outstanding - basic and diluted197,773,376A 195,869,537A RevenueTotal revenue decreased \$(9.7) million, or (49)%, in the three months ended September Å“ 30, 2024, compared to the same period in 2023. The decline was primarily driven by \$(6.1) million decrease in revenue from engineering and other services contracts with existing customers and government entities whose projects reached completion of their current development phase. Revenue also decreased \$(2.1) million in other contract research and \$(1.0) million in joint development due to the completion of existing contracts. Licensing decreased by \$(0.4) million and CarbonSmart revenue slightly decreased by \$(0.1) million.Cost of RevenueCost of revenue decreased \$(6.2) million, or (43)%, in the three months ended September Å“ 30, 2024, compared to the same period in 2023. This decrease is primarily driven by the cost of sales for engineering and other services which decreased \$(5.1) million for contracts with existing customers and government entities. Cost of sales also decreased \$(1.0) million million for other contract research and \$(0.4)A million for joint development arrangements. This decrease was offset by costs of sales for CarbonSmart products that increased \$0.3 million. 42Research and DevelopmentR&D expense increased \$5.4 million, or 32%, in the three months ended September Å“ 30, 2024 compared to the same period in 2023, primarily due to an increase of \$4.9 million in R&D services related to project development costs that are not currently eligible for capitalization or for which we do not have a customer as of September Å“ 30, 2024. The increase is also due to \$0.5 million in personnel and contractors expenses related to R&D projects. Consumables and facilities expenses were similar compared to the same period last year. Selling, General and Administrative ExpenseSG&A expense decreased \$(0.4) million, or (3)%, in the three months ended September Å“ 30, 2024 compared to the same period in 2023. This was primarily due to decrease in professional services fees of \$(1.0) million. This decrease was offset by an increase of \$0.4 million in personnel expenses and contractors to support growth, an increase of \$0.1 million for facilities and consumable expenses and \$0.1 million increase in bad debt expense.Interest income, netInterest income, net decreased \$(0.5) million in the three months ended September Å“ 30, 2024 compared to the same period in 2023. The decrease is primarily attributable to lower interest earned on smaller cash balances held in savings, money market, and investment accounts.Other Expense, Net Other expense, net increased \$18.2 million in the three months ended September Å“ 30, 2024, compared to the same period in 2023, which is due to the overall net loss on changes in the fair value of our financial instruments, and specifically, the increase in fair value of the Convertible Note of \$21.5 million caused by the decrease in the assumed conversion price during the three months ended September Å“ 30, 2024 .43Results of Operations Å“ Nine Months Ended September Å“ 30, 2024 Compared to Nine Months Ended September Å“ 30, 2023 The results of operations presented below should be reviewed in conjunction with our condensed consolidated financial statements and notes. The following table sets forth our consolidated results of operations for the periods indicated:Nine Months Ended September 30,Change202420232024 vs. 2023(In thousands, except for per share amounts)Total revenue\$37,562A \$42,168A \$(4,606)(11)%Cost of revenues(exclusive of depreciation shown below)(20,402)(32,988)12,586A (38)%Operating expenses:Research and development(60,548)(51,839)(8,709)17A %Depreciation expense(4,289)(3,981)(308)8A %Selling, general and administrative expense(34,236)(41,095)6,859A (17)%Total operating expenses(99,073)(96,915)(2,158)2A %Loss from operations(81,913)(87,735)5,822A (7)%Interest income, net2,452A 3,164A (712)(23)%Other expense, net(23,342)(29,912)6,570A (22)%Total other expense, net(20,890)(26,748)5,858A N/MLoss before income taxes(102,803)\$(114,483)11,680A (10)%Loss from equity method investees, net(7,935)(941)(6,994)743A %Net loss\$(10,738)\$(15,424)4,686A 4%Other comprehensive loss:Foreign currency translation adjustments(198)(954)756A 79A %Comprehensive loss\$(110,936)\$(116,378)\$5,442A (5)%Net loss per share - basic and diluted\$(0.56)(0.70)Weighted-average number of common shares outstanding - basic and diluted197,499,156A 169,797,443A RevenueTotal revenue decreased \$(4.6) million, or (11)%, in the nine months ended September Å“ 30, 2024, compared to the same period in 2023. The decline was primarily driven by a \$(11.1) million decrease in revenue from engineering and other services from contracts with existing customers and government entities whose projects reached completion of their current development phase. Revenue from other contract research also decreased \$(1.6) million. These decreases were partially offset by an increase of \$7.3 million in revenue from licensing, an increase of \$0.7 million in CarbonSmart revenue and an increase of \$0.1 million in revenue from joint development arrangements.Cost of RevenuesCost of revenue decreased \$(12.6) million, or (38)%, in the nine months ended September Å“ 30, 2024, compared to the same period in 2023. Cost of sales for engineering and other services decreased \$(12.7) million for contracts with existing customers and government entities and \$(0.7) million for joint development agreements, partially offset by \$1.2 million increase in cost of revenue for CarbonSmart products and \$(0.4) million increase in cost of sales for other contract research. 44Research and DevelopmentR&D expense increased \$8.7 million, or 17%, in the nine months ended September Å“ 30, 2024, compared to the same period in 2023, primarily due to an increase of \$9.1 million in external R&D services related to project development costs that are not currently eligible for capitalization nor tied to revenue agreements, and an increase of \$0.8 million in facilities and consumables expenses. Personnel and contractors expenses related to R&D projects decreased by \$(1.2) million, mainly due to lower stock compensation expense, compared to the same period last year. Selling, General and Administrative ExpenseSG&A expense decreased \$(6.9) million, or (17)%, in the nine months ended September Å“ 30, 2024, compared to the same period in 2023. This was primarily due to a decrease of \$(4.1) million in professional fees associated with the Business Combination, as well as \$(1.4) million in lower stock compensation and one-time expenses, compared to the same period last year. The decrease was also attributable to \$(1.4) million in bad debt expense recorded in the comparative period and recovered in the current period. Consumables and facilities expenses were similar compared to the same period last year.Interest income, netInterest income, net decreased \$(0.7) million in the nine months ended September Å“ 30, 2024 compared to the same period in 2023. This was primarily attributable to interest earned on lower cash balances held in savings and money market accounts.Other Expense, Net Other expense, net decreased \$6.6 million, in the nine months ended September Å“ 30, 2024 compared to the same period in 2023, due to a lower net loss from the change in fair value of our financial instruments in the nine months ended September Å“ 30, 2024, compared to the same period in 2023, including the Convertible Noteâ™s increase in fair value caused by the decrease in the assumed conversion price. In the nine months ended September 30, 2023, the higher net loss from the change in fair value of our financial instruments was primarily due to the FPAâ™s increase in fair value. Liquidity and Capital ResourcesCash and Cash Equivalents Cash and cash equivalents comprise cash on hand, demand deposits at banks, and other short-term, highly liquid investments with original maturity of three months or less that are readily convertible to known amounts of cash and which are subject to an insignificant risk of changes in value. The following table shows the balances of our cash, cash equivalents and restricted cash as of September Å“ 30, 2024 and December Å“ 31, 2023:As of Change(In thousands, except for percentages)September 30, 2024December 31, 202320242023Total cash, cash equivalents, and restricted cash\$60,967A \$76,284A \$(15,317)(20)%As of September Å“ 30, 2024, compared to December Å“ 31, 2023, LanzaTechâ™s cash, cash equivalents, and restricted cash decreased by \$(15.3) million, or (20)%, primarily due to funding the net loss adjusted for non-cash charges (see cash flow section below) and purchases of property, plant and equipment. The decrease was offset by the proceeds from the maturity of certain debt securities and the issuance of the Convertible Note.45Debt Security InvestmentsDebt security investments comprise mainly held-to-maturity U.S. Treasury and high quality corporate securities that the Company has both the ability and intent to hold to maturity. These securities all mature within one year and will provide additional liquidity upon maturity. As of September Å“ 30, 2024, held-to-maturity security investments totaled \$28.1 million, compared to \$45.2 million as of December Å“ 31, 2023.Sources and Uses of CapitalSince inception, we have financed our operations primarily through equity and debt financing. Our ability to successfully develop products and expand our business depends on many factors, including our ability to meet working capital needs, the availability of equity or debt financing and, over time, our ability to generate cash flows from operations. We manage our capital to ensure that LanzaTech can continue as a going concern while maximizing the return to stakeholders through the optimization of debt and equity balances. As of September Å“ 30, 2024, our capital structure consists of equity (comprising issued capital, and accumulated deficit), the Brookfield SAFE and the Convertible Note. We are not subject to any externally imposed capital requirements.On October 2, 2022, LanzaTech entered into the Brookfield SAFE with Brookfield and received a cash payment of \$50.0 million as the Initial Purchase Amount. In exchange, the Company granted to Brookfield the right to receive certain shares of the Company's common stock. Following the closing of the Business Combination, Brookfield may, at any time at its option, convert all or a portion of the Initial Purchase Amount less any amount that has already been converted or repaid into shares of common stock.LanzaTechâ™s outstanding debt comprises the Convertible Note, the Brookfield SAFE, the FPA Put Option Liability and the Fixed Maturity Consideration, which are all classified as liabilities for accounting purposes, on its condensed consolidated balance sheets as of September Å“ 30, 2024. On May 1, 2023, LanzaTech purchased \$5.5 million of Subordinated Secured Notes in a funding round for LanzaJet's subsidiary Freedom Pines Fuels LLC. The Subordinated Secured Notes are secured by a security interest over the intellectual property owned or in-licensed by LanzaJet. LanzaJet provides a guarantee that the proceeds are being used for any costs and expenses required to complete the initial facility and achieve commercial operation. On February 3, 2023, LanzaTech, AMCI and ACM executed a Forward Purchase Agreement (the âœFPAâœ). On the same date, ACM partially assigned its rights under the FPA to Vellar. ACM and Vellar are together referred to as the âœPurchasersâœ. Pursuant to the FPA, the Purchasers obtained 5,916,514 shares of common stock on the open market for approximately \$10.16 per share (âœRedemption Priceâœ), and the purchase price of \$60.1 million was funded by the use of AMCI trust account proceeds as a partial prepayment (âœPrepayment Amountâœ) for the FPA redemption 3 years from the date of the Business Combination (the âœFPA Maturity Dateâœ). The FPA Maturity Date may be accelerated, at the Purchasersâ™ discretion, if the Companyâ™s volume-weighted average share price is below \$3.00 per share for any 50 trading days during a 60 day consecutive trading-day period (the âœVWAP Conditionâœ) or if the Company is delisted. The Purchasers have the option to early terminate the arrangement in whole or in part by providing optional early termination notice to the Company (the âœOptional Early Terminationâœ). For those shares early terminated (the âœTerminated Sharesâœ), the Purchasers will owe the Company an amount equal to the Terminated Shares times the Redemption Price, which may be reduced in the case of certain dilutive events (âœReset Priceâœ). At the FPA Maturity Date, the Company is obligated to pay the Purchasers an amount equal to the product of (1) 7,500,000 less the number of Terminated Shares multiplied by (2) \$2.00 (the âœMaturity Considerationâœ), which under the FPA is payable at the Companyâ™s option in cash or shares of common stock valued at the average daily VWAP Price (as defined in the FPA) over the 30 scheduled trading days ending on the FPA Maturity Date. In addition to the Maturity Consideration, on the FPA Maturity Date, the Company is obligated to pay the Purchasers an amount equal to the product of (x) 500,000 and (y) the Redemption Price, totaling \$5.1 million (the âœShare Considerationâœ), which under the FPA is payable in cash. However, at the time, the Company may not have sufficient funds or be able to obtain financing from third parties to pay such amounts. The Company also may not have sufficient shares authorized to pay the Maturity Consideration in shares. Breach by the Company of any of these obligations could constitute an event of default under the FPA, which could subject the Company to financial exposure thereunder (including arising from potential indemnification claims by a Purchaser). In addition, future debt or other contractual agreements may contain cross-default or cross-acceleration provisions that could be triggered if we default on our obligations to the Purchasers. Any or all of these consequences could have material adverse impact on us. In relation to the FPA, the Companyâ™s volume-weighted average share price was below \$3.00 per share for 50 trading days during the 60 day consecutive trading period ended on July 1, 2024 (satisfying the VWAP Condition). On July 22, 2024, Vellar notified the Company of the satisfaction of the VWAP Condition, purporting to accelerate the FPA Maturity Date of its portion of the Recycled Shares (i.e., 2,990,000 common shares) to July 22, 2024. Vellar asserts that it is entitled to: (i) Maturity Consideration of \$7.5A million (payable at the Companyâ™s option in cash or shares of common stock valued at the average daily VWAP Price (as defined in the FPA) over 30 scheduled trading days ending on the accelerated FPA Maturity Date of July 22, 2024 of \$1.91 per share) and (ii) Share Consideration of approximately \$2.5 million, payable in cash, each due and payable on July 24, 2024. On July 25, 2024, the Company received a notice from Vellar pursuant to the FPA, stating that the Company is in default of its payment obligations. On July 30, 2024, the Company received a notice of an event of default under the FPA from Vellar that (i) designated such date as the early termination date of the FPA and (ii) purports to result in an early termination cash payment of approximately \$4.2 million becoming due to Vellar (equating to the sum of the Maturity Consideration and the Share Consideration minus the VWAP Price (as defined in the FPA) (as of July 29, 2024) of Vellarâ™s portion of the Recycled Shares) (see Part II âœ Item 1. Legal Proceedings). Refer to Note 10 - Forward Purchase Agreement. On October 4, 2024, ACM delivered to the Company notice of satisfaction of the VAP Condition which accelerated the FPA Maturity Date with respect to ACMâ™s portion of the FPA. On October 15, 2024 and October 21, 2024, the Company paid in cash to ACM \$2.5 million in Share Consideration and \$7.5A million in Maturity Consideration respectively, and ACM subsequently returned its Recycled Shares to the Company. As a result, the Companyâ™s and ACMâ™s obligations under the FPA have been fully satisfied. On May 9, 2024, the Company entered into an At Market Issuance Sales Agreement (the âœSales Agreementâœ) and a Terms Agreement (the âœTerms Agreementâœ), and together with the Sales Agreement, the âœATM Agreementsâœ with B. Riley Securities, Inc. (âœB. Riley Securitiesâœ), pursuant to which the Company may, from time to time, offer and sell through or to B. Riley Securities, as sales agent or principal, shares of the Companyâ™s common stock, having an aggregate offering price of up to \$100 million. The shares will be offered through or to B. Riley Securities, acting as agent in connection with agency transactions or as principal in connection with any principal transactions. Pursuant to the Terms Agreement, the Company will have the right, but not the obligation, from time to time at its sole discretion, for as long as the Sales Agreement remains effective, to direct B. Riley Securities on any trading day to act on a principal basis and purchase up to the maximum of the lesser of a) 50% of the prior daily trading volume, or b) approximately \$0.2 million per day as long as the closing price on the day prior exceeds \$1, and approximately up to \$0.9 million per week, and up to \$40 million per twelve-month period, subject to any applicable limitations pursuant to the rules and regulations of The Nasdaq Stock Market, LLC (the aggregate amount so purchased by B. Riley Securities under the Terms Agreement, the âœCommitmentâœ), which Commitment will be included within the aggregate offering price of up to \$100 million of Common Stock sold pursuant to the ATM Agreements; provided, however, that only one principal sale may be requested per day unless otherwise agreed to by B. Riley Securities. On August 5, 2024, the Company entered into a Convertible Note Purchase Agreement (the âœConvertible Note Purchase Agreementâœ) with an accredited investor (the âœInvestorâœ) pursuant to which the Company agreed to sell and issue to the Investor and other purchasers in a private placement transaction (the âœPrivate Placementâœ) in one or more closings up to an aggregate principal amount of \$150A million of convertible notes. As of August 6, 2024, we issued and sold \$40.2 million of convertible notes to the Investor pursuant to the Convertible Note Purchase Agreement (the âœConvertible Noteâœ). The gross proceeds from the initial closing are approximately \$40 million, before deducting estimated offering expenses.47The Convertible Note bears interest at a fixed rate of 8.00% per annum, which interest will be added to the outstanding principal amount of the Convertible Note on the last day of the applicable interest period (beginning on the date of issuance of the Convertible Note and ending on and including the earlier of (x) the anniversary date of such issuance and (y) the maturity date, the âœInterest Periodâœ); provided, however, that the Company is permitted to pay all interest payable during an Interest Period in cash upon prior written notice to the Convertible Note holder. The Convertible Note will mature on August 6, 2029 (the

unless earlier redeemed or converted in accordance with their terms. The Convertible Note is subject to mandatory conversion for shares of the Company's common stock, par value \$0.0001 per share, upon the completion by the Company of an equity financing prior to the Convertible Note Maturity Date that results in the Company receiving minimum gross proceeds in an amount that is equal to the greater of (i) \$40 million and (ii) 50% of the total principal amount under the outstanding convertible notes immediately following the final closing under the Convertible Note Purchase Agreement (a "Qualified Equity Financing") at a conversion price equal to the lower of (i) the lowest per-share selling price per share in the Qualified Equity Financing, less a 10% discount and (ii) the Valuation Cap (as defined below). The Convertible Note is convertible at the option of the holders upon the completion by the Company of an equity financing prior to the Convertible Note Maturity Date that does not meet the definition of a Qualified Equity Financing (a "Non-Qualified Equity Financing") at a conversion price equal to the lower of (i) the lowest per-share selling price in the Non-Qualified Equity Financing and (ii) the Valuation Cap. The Convertible Note is also convertible at the option of the holders any time prior to the Maturity Date at a conversion price equal to the Valuation Cap. The Valuation Cap is \$1.25 per share, and (ii) with respect to a Convertible Note issued at any closing subsequent to the initial closing under the Convertible Note Purchase Agreement, the price per share equal to the greater of (a) \$1.56 and (b) the closing price per share of the Company's common stock on the date prior to such closing. The Valuation Cap is subject to adjustment based on the Company's holdings in Lanzajet, and the conversion price in all cases is subject to adjustment for stock splits, reclassifications, redesignations, subdivisions, recapitalizations, and dividends. As of the date of this filing no Qualified Equity Financing nor Non-Qualifying Financing events have occurred. The Convertible Note may not be prepaid or redeemed by the Company, either in whole or in part, without the consent of the holder, provided that the Company may redeem and the Convertible Note without such consent (i) until August 6, 2025, in an amount equal to one and one half times the redeemed principal amount thereof; (ii) between August 7, 2025 and August 6, 2027, in an amount equal to two times the redeemed principal amount; and (iii) after August 6, 2027, in an amount equal to three times the redeemed principal amount; in all such cases, any and all accrued and unpaid interest to have been repaid in connection with the redemption. We continue to seek additional financing under the Convertible Note Purchase Agreement from certain institutional accredited investors with whom we have a preexisting substantive relationship. We currently have no commitments from any such investors to participate in the convertible note financing or any other financing. There can be no assurance that we will be successful in our effort to secure additional financing in amounts and on terms acceptable to us. The accompanying unaudited financial statements have been prepared assuming we will continue as a going concern. However, near-term, we expect to continue to generate operating losses and to have net cash outflows from operating activities. We believe our existing cash and cash equivalents will be sufficient to fund our operations for the next 12 months from the date of this Quarterly Report. However, our liquidity assumptions may prove to be incorrect, and we could utilize our available financial resources sooner than we currently expect, including within the next 12 months. Our future capital requirements and the adequacy of available funds will depend on many factors, including those set forth in Part I, Item 1A of our Annual Report on Form 10-K under "Risk Factors" and in Part II, Item 1A of this Quarterly Report. In addition, we from time to time, evaluate financing alternatives to enhance the Company's liquidity position, including the sale of securities, the incurrence of debt or other financing alternatives. If we determine that we require additional financing to meet our operating requirements, we may be unable to secure such financing on acceptable terms, or at all. If we raise additional funds by issuing equity and/or convertible debt securities, dilution to our existing stockholders will result. If we raise additional financing and incur indebtedness, we would be subject to increased fixed payment obligations and could also be subject to certain restrictive covenants, such as limitations on our ability to incur additional debt, limitations on our ability to acquire, sell or license intellectual property rights and other operating restrictions that could adversely impact our ability to conduct our business. If we are unable to obtain additional funds, we will have to reduce our operating costs, which will cause a delay or reduction in our technology development and commercialization programs. In the normal course of our business, we also enter into purchase commitments or other transactions in which we make representations and warranties that relate to the performance of our goods and services. We do not expect material losses related to these transactions. Cash Flows For the quarters ended September 30, 2024 and 2023 The following table provides a summary of our cash flows for the nine months ended September 30, 2024 and September 30, 2023: Nine Months Ended September 30, Change (In thousands, except for percentages) 2024/2023/2024 vs. 2023/Net cash provided by (used in): Operating activities \$(69,384) \$(81,156) \$(12,181) (15)% Investing activities 14,130A (56,495) 70,625A (125)% Financing activities 40,224/147,272A (107,048) (73)% Effects of currency translation (287) (852) 565A 66A % Net (decrease) increase in cash, cash equivalents, and restricted cash \$(15,317) \$8,360A Cash Flows Used in Operating Activities Cash flows used in operating activities decreased \$12.2 million or 15% in the nine months ended September 30, 2024 compared to the nine months ended September 30, 2023. The decrease is primarily attributable to the lower net loss, net of non-cash items in the nine months ended September 30, 2024 compared to the nine months ended September 30, 2023. Additionally, the Company had cash outflows of \$4.1 million related to costs incurred for the Business Combination that were classified as cash flows from operating activities during the nine months ended September 30, 2023, which did not recur in the current period. Cash Flows Provided by Investing Activities In the nine months ended September 30, 2024, net cash provided by investing activities was \$14.1 million, compared to net cash used by investing activities of \$(56.5) million in the nine months ended September 30, 2023. The change is primarily driven by the purchase of debt securities of \$(43.9) million in the nine months ended September 30, 2023 net of proceeds from matured debt securities, which did not recur in the current period. The Company received proceeds from the maturity of a portion of the debt securities of \$44.8 million in the nine months ended September 30, 2024. Cash Flows from Financing Activities In the nine months ended September 30, 2024, net cash from financing activities was \$40.2 million, compared to net cash provided by financing activities of \$147.3 million in the nine months ended September 30, 2023. The cash inflow in the prior period was driven by \$213.4 million in proceeds from the Business Combination and PIPE financing and proceeds of \$1.6 million from the exercise of options to acquire shares of common stock of the Company. This was partially offset by the FPA prepayment amount of \$60.1 million and by the repurchase of equity instruments of \$7.7 million. Off-Balance Sheet Arrangements As of September 30, 2024 and December 31, 2023, we did not engage in any off-balance sheet arrangements, including the use of structured finance, special purpose entities or variable interest entities. Critical Accounting Policies and Management Estimates Our management's discussion and analysis of our financial condition and results of operations is based on our condensed consolidated financial statements that have been prepared in accordance with US GAAP. The preparation of these financial statements requires us to make estimates and assumptions that affect the reported amounts of assets, liabilities, revenues, expenses, and related disclosures. We consider an accounting estimate to be critical to the condensed consolidated financial statements if the estimate is complex in nature or requires a high degree of judgment and if actual results may differ from these estimates with any such differences being potentially material. Our estimates are based on our historical experience and on various other factors that we believe are reasonable under the circumstances. We evaluate our estimates and assumptions on an ongoing basis. A discussion of our critical accounting policies and estimates may be found in the Company's Annual Report on Form 10-K, which was filed with the SEC on February 29, 2024 in "Management's Discussion and Analysis of Financial Condition and Results of Operations" under the heading "Critical Accounting Policies and Management Estimates". As of September 30, 2024, we added one critical accounting policies and estimates, as follows: Convertible Note We elected the fair value option to account for the Convertible Note. At issuance, the fair value approximates the principal amount of the Convertible Note. As of September 30, 2024, the estimate of the fair value was determined using a binomial lattice model which generates a distribution of stock prices over the term of the note, calculates the associated payoff for the note, and discounts the probability-weighted values from the lattice back to the valuation date. The fair value was estimated by using assumptions that market participants would use in pricing a convertible debt instrument, including market interest rates, credit rating, yield curves, and volatilities. The fair value measurement of the debt was determined using Level 3 inputs and assumptions unobservable in the market. Changes in the fair value of debt that is accounted for at fair value, inclusive of related accrued interest expense, are presented as gains or losses in the accompanying unaudited condensed consolidated statements of operations and comprehensive income (loss) under change in fair value of debt. The portion of total changes in fair value of debt attributable to changes in instrument-specific credit risk are determined through specific measurement of periodic changes in the discount rate assumption exclusive of base market changes and are presented as a component of comprehensive income (loss) in the accompanying unaudited condensed consolidated statements of operations and comprehensive income (loss). The assumptions underlying these valuations represented our best estimate, which involved inherent uncertainties and the application of judgment. If we had used different assumptions or estimates, the estimated fair value of the instruments described above could have been materially different. Non-GAAP Financial Measures To supplement our financial statements presented in accordance with US GAAP and to provide investors with additional information regarding our financial results, we have presented adjusted EBITDA, a non-GAAP financial measure. Adjusted EBITDA is not based on any standardized methodology prescribed by US GAAP and is not necessarily comparable to similarly titled measures presented by other companies. We define adjusted EBITDA as our net loss, excluding the impact of depreciation, interest income, net, stock-based compensation, change in fair value of warrant liabilities, change in fair value of SAFE liabilities, change in fair value of the FPA Put Option liability and Fixed Maturity Consideration, change in fair value of the Convertible Note and associated transaction costs, transaction costs on issuance of FPA, loss from equity method investees, net and other one-time costs related to the Business Combination and securities registration on Form S-4, our registration statement on Form S-1, and non-recurring regulatory matters. We monitor and have presented in this Quarterly Report adjusted EBITDA because it is a key measure used by our management and the Board to understand and evaluate our operating performance, to establish budgets, and to develop operational goals for managing our business. We believe adjusted EBITDA helps identify underlying trends in our business that could otherwise be masked by the effect of certain expenses that we include in net loss. Accordingly, we believe adjusted EBITDA provides useful information to investors, analysts, and others in understanding and evaluating our operating results and enhancing the overall understanding of our past performance and future prospects. Adjusted EBITDA is not prepared in accordance with US GAAP and should not be considered in isolation of, or as an alternative to, measures prepared in accordance with US GAAP. There are a number of limitations related to the use of adjusted EBITDA rather than net loss, which is the most directly comparable financial measure calculated and presented in accordance with US GAAP. For example, adjusted EBITDA: (i) excludes stock-based compensation expense because it is a significant non-cash expense that is not directly related to our operating performance; (ii) excludes depreciation expense and, although this is a non-cash expense, the assets being depreciated and amortized may have to be replaced in the future; (iii) excludes gain or losses on equity method investee; and (iv) excludes certain income or expense items that do not provide a comparable measure of our business performance. In addition, the expenses and other items that we exclude in our calculations of adjusted EBITDA may differ from the expenses and other items, if any, that other companies may exclude from adjusted EBITDA when they report their operating results. In addition, other companies may use other measures to evaluate their performance, all of which could reduce the usefulness of our non-GAAP financial measures as tools for comparison. The following table reconciles adjusted EBITDA to net loss, the most directly comparable financial measure calculated and presented in accordance with US GAAP. Reconciliation of Net Loss to Adjusted EBITDA Three Months Ended September 30, Nine Months Ended September 30, (In thousands) 2024/2023/2024/2023/Net Loss \$(57,431) \$(25,326) \$(110,738) \$(115,424) Depreciation 1,301A 1,376A 4,289A 3,981A Interest income, net (791) (1,249) (2,452) (3,164) Stock-based compensation expense and change in fair value of SAFE and warrant liabilities (1,322A 16,368) (10,870) (2,316) Change in fair value of the FPA Put Option and Fixed Maturity Consideration liabilities (net of interest accretion reversal) (488) 11,632A 23,283A 44,661A Change in fair value of convertible note and related transaction costs 21,572A 21,572A 21,572A Transaction costs on issuance of FPA 21,572A One-time costs related to the Business Combination, initial securities registration and non-recurring regulatory matters (2)A 410A A 4,472A Adjusted EBITDA \$(27,081) \$(19,062) \$(66,981) \$(66,398) (1)Stock-based compensation expense represents expense related to equity compensation plans. (2)Represents costs incurred related to the Business Combination that do not meet the direct and incremental criteria per SEC Staff Accounting Bulletin Topic 5A to be charged against the gross proceeds of the transaction, but are not expected to recur in the future, as well as costs incurred subsequent to deal close related to our securities registration on Form S-4 and our registration statement on Form S-1. Regulatory matters includes fees related to non-recurring items during the year ended December 31, 2023. ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK 51 We are exposed to a variety of market and other risks, including the effects of changes in interest rates, inflation and foreign currency translation and transaction risks, as well as risks to the availability of funding sources, hazard events and specific asset risks. Our market risk exposure is expected to be limited to risks that arise in the normal course of business, as we do not engage in speculative, non-earning operating transactions, nor do we use financial instruments or derivative instruments for trading purposes. Interest Rate Fluctuation Risk Our primary exposure to market risk is interest rate sensitivity, which is affected by changes in the general level of U.S. interest rates, particularly because of our cash equivalents and debt security investments. Our investments are made through our commercial and investment banks and, by policy, we limit the amount of risk by investing primarily in money market funds, United States Treasury obligations, and high quality corporate bonds. Additionally, we primarily invest in short-term securities. Because of the short-term nature of the majority of our financial instruments in our investment portfolio, an immediate change in market interest rates of 100 basis points would not have a material impact on the fair market value of our cash and cash equivalents or on our financial position or results of operations. Foreign Currency Fluctuation Risk We are subject to foreign currency exchange risk from the translation of the financial statements of our foreign subsidiaries, whose financial condition and results of operations are reported in their local currencies and then translated into U.S. dollars at the applicable currency exchange rate for inclusion in our consolidated financial statements. Foreign currency translation adjustments were \$0.2 million and \$1.0 million for the nine months ended September 30, 2024 and 2023, respectively. Additionally, we have contracted with and may continue to contract with foreign vendors. Commodity Pricing Risk Our CarbonSmart products differ from other bio-ethanol products (and related derivative products) because they are made from a unique feedstock (recycled carbon emissions) which differs from first-generation biofuels which are generally made from food sources. As a result, there is not an active trading market for our CarbonSmart fuels, and we are not directly impacted by changes in commodity prices. Additionally, we do not engage in hedging or other derivative transactions related to commodity prices. Demand for our CarbonSmart products is indirectly impacted by commodity prices for fossil fuel and first generation bio-fuel prices. As prices drop for fossil and first-generation bio-fuels, demand for our more-expensive recycled CarbonSmart products may decrease. Demand for our CarbonSmart products is also generally increased by new or additional environmental regulations, and decreased by loosened or reduced regulation. Credit Risk We are subject to credit risk due to concentration of our receivables with a limited number of significant customers. If a customer defaults or if any of our contracts are cancelled by the customer in accordance with their terms, and we are unable to renew or replace these contracts, our gross margin and cash flows may be adversely affected. Equity Price Risk We have in the past, and may in the future, seek additional funding by sale of common stock and other equity securities. The price of our common stock has been volatile in the past and may also be volatile in the future. As a result, there is a risk that we may not be able to sell our common stock or other equity securities at an acceptable price or at all, should the need for new equity funding arise. Inflation Fluctuation Risk 52 Inflation generally affects us and our customers by increasing the cost of labor, laboratory supplies, consumables and capital expenditure required to deploy our technology, which may have a material effect on our business. ITEM 4. CONTROLS AND PROCEDURES Limitations on Effectiveness of Controls and Procedures In designing and evaluating our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended (the "Exchange Act")), management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving the desired control objectives. We do not expect that our disclosure controls and procedures will prevent all errors and all instances of fraud. Disclosure controls and procedures, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the disclosure controls and procedures are met. Further, the design of disclosure controls and procedures must reflect the fact that there are resource constraints, and the benefits must be considered relative to their costs. Because of the inherent limitations in all disclosure controls and procedures, no evaluation of disclosure controls and procedures can provide absolute assurance that we have detected all our control deficiencies and instances of fraud, if any. The design of disclosure controls and procedures also is based partly on certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions. Evaluation of Disclosure Controls and Procedures Our disclosure controls and procedures are designed to ensure that information required to be disclosed in the reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the rules and forms of the SEC, and that such information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure. Our management, with the participation of our Chief Executive Officer and Chief Financial Officer, evaluated the effectiveness of our disclosure controls and procedures (as defined in Exchange

Act Rule 13a-15(e) and 15d-15(e)). As a result of this evaluation, our CEO and CFO concluded that the material weaknesses relating to: (i) the accounting for complex transactions and estimates requiring significant judgment and (ii) revenue recognition, which were previously identified in Item 9A. **Controls and Procedures** of our Annual Report on Form 10-K for the year ended December 31, 2023, were still present as of September 30, 2024 (the **Evaluation Date**). Based on the material weaknesses, and the evaluation of our disclosure controls and procedures, our CEO and CFO concluded that our disclosure controls and procedures were not effective as of the Evaluation Date. Notwithstanding the identified material weaknesses, management believes that the condensed consolidated financial statements included in this Form 10-Q fairly present in all material respects our financial condition, results of operations, and cash flows as of September 30, 2024. Remediation Efforts to Address Material Weaknesses Management continues to take steps to improve our internal control processes and will continue to review, optimize, enhance and test our controls and procedures as our control environment matures over time. These measures include enhancing the design and implementation of our internal controls over financial reporting to comply with the COSO 2013 Internal Control-Integrated Framework, with particular focus on our material weaknesses. We have enhanced the design of our controls in the accounting for complex transactions and estimates requiring significant judgment and revenue recognition. The material weaknesses will not be considered remediated until the applicable controls operate for a sufficient period of time and management has concluded, through testing, that these controls are operating effectively. Changes in Internal Control Over Financial Reporting⁵³ There were no changes in our internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) that occurred during the quarter ended September 30, 2024, that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting. We note that our CEO and CFO concluded that the material weaknesses previously identified in Item 9A. **Controls and Procedures** of our Annual Report on Form 10-K for the year ended December 31, 2023 were still present as of the Evaluation Date. **54PART IIITEM 1. LEGAL PROCEEDINGS** The Company may be involved in legal proceedings and exposed to potential claims in the normal course of business, including as described below. Although we cannot predict the ultimate outcome of any legal matter with certainty, we do not believe the outcome of any of our pending legal proceedings will have a material adverse impact on our consolidated financial position, results of operations or cash flows. In relation to the FPA, the Company's volume-weighted average share price was below \$3.00 per share for 50 trading days during the 60 day consecutive trading period ended on July 1, 2024 (satisfying the VWAP Condition). On July 22, 2024, Vellar (one of the Purchasers) notified the Company of satisfaction of the VAP Condition, purporting to accelerate the Maturity Date of its portion of the Recycled Shares (i.e., 2,990,000 common shares) to July 22, 2024. Vellar asserts that it is entitled to: (i) Maturity Consideration of \$7,500,000 (payable at the Company's option in cash or shares of common stock valued at the average daily VWAP Price (as defined in the FPA) over 30 scheduled trading days ending on the accelerated FPA Maturity Date of July 22, 2024 of \$1.91 per share) and (ii) Share Consideration of \$2,539,350, payable in cash, each due and payable on July 24, 2024. On July 25, 2024, the Company received a notice from Vellar pursuant to the FPA, stating that the Company is in default of its payment obligations. On July 30, 2024, the Company received a notice of an event of default under the FPA from Vellar that (i) designated such date as the early termination date of the FPA and (ii) purports to result in an early termination cash payment of \$4,163,701 becoming due to Vellar (equating to the sum of the Maturity Consideration and the Share Consideration minus the VWAP Price (as defined in the FPA) (as of July 29, 2024) of Vellar's portion of the Recycled Shares). On July 24, 2024, LanzaTech filed suit against Vellar in the Supreme Court of the State of New York, Commercial Division, alleging breach of the FPA, breach of the implied covenant of good faith and fair dealing, and unjust enrichment. The claims are primarily in connection with Vellar's sale of Recycled Shares, which LanzaTech alleges are in breach of the FPA's requirement that Recycled Shares be held in a bankruptcy remote special purpose vehicle for the benefit of the Company unless the sale is noticed to the Company as part of an optional early termination, which Vellar has not done. In the event of a sale of Recycled Shares subject to an optional early termination, the Company is entitled to receive \$10.1574 for each share sold. LanzaTech believes that Vellar's notice regarding the VWAP Condition and consequently, its notice of an event of default, is not valid and, accordingly, that no payments are owed to Vellar in connection with the purported acceleration of the FPA Maturity Date or early termination of the FPA. The Company intends to vigorously pursue its claims against Vellar. On October 23, 2024, Vellar filed suit against the Company, alleging breach of the FPA, and seeking \$4,163,701 plus interest. The Company intends to vigorously defend itself against the claim. On October 24, 2024, Vellar sought advancement of certain expenses from the Company in connection with this litigation. The Company denied the request on October 28, 2024. **ITEM 1A. RISK FACTORS** Our risk factors are disclosed in Part I, Item 1A of our Annual Report on Form 10-K. There have been no material changes during the nine months ended September 30, 2024 from or updates to the risk factors discussed in Part I, Item 1A, Risk Factors, of our Annual Report on Form 10-K, except as follows: We are engaged in litigation related to the FPA. On July 24, 2024, LanzaTech filed suit against Vellar in the Supreme Court of the State of New York, Commercial Division, alleging breach of the FPA, breach of the implied covenant of good faith and fair dealing, and unjust enrichment. Such litigation may be costly, distracting to management and could harm our reputation and the value of our Company. We cannot guarantee that we will be able to resolve the litigation on terms favorable to us, and such litigation, whether successful or not, could have a material adverse effect on our business, results of operations and financial condition.⁵⁵ **ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS** Except as previously reported by the Company on its Current Reports on Form 8-K, we did not sell any securities during the period covered by this Form 10-Q that were not registered under the Securities Act. **ITEM 3. DEFAULTS UPON SENIOR SECURITIES** None. **ITEM 4. MINE SAFETY DISCLOSURES** None. **ITEM 5. OTHER INFORMATION** Securities Trading Plans of Directors and Executive Officers During the three months ended September 30, 2024, none of our directors or officers adopted or terminated any contract, instruction or written plan for the purchase or sale of our securities that was intended to satisfy the affirmative defense conditions of Rule 10b-5-1(c) or any **Exemptions** Rule 10b-5-1 trading arrangement (as defined in Item 408(c) of Regulation S-K). **ITEM 6. EXHIBITS** Exhibit Description 3.1**Second Amended and Restated Certificate of Incorporation of LanzaTech Global, Inc., 3.2**Amended and Restated Bylaws of LanzaTech Global, Inc. (incorporated by reference to Exhibit 3.2 of LanzaTech Global Inc.'s Current Report on Form 8-K, filed with the SEC on February 13, 2023). 4.1**Form of Convertible Promissory Note (incorporated by reference to Exhibit 4.1 of LanzaTech Global Inc.'s Current Report on Form 8-K, filed with the SEC on August 8, 2024). 10.1**Form of Convertible Note Purchase Agreement, dated August 5, 2024 (incorporated by reference to Exhibit 10.1 of LanzaTech Global Inc.'s Current Report on Form 8-K, filed with the SEC on August 8, 2024). 10.2**Form of Registration Rights Agreement, dated August 5, 2024 (incorporated by reference to Exhibit 10.2 of LanzaTech Global Inc.'s Current Report on Form 8-K, filed with the SEC on August 8, 2024). 31.1**Certification of Principal Executive Officer pursuant to Rules 13a-14(a) and 15d-14(a) promulgated under the Securities Exchange Act of 1934, as amended. 31.2**Certification of Principal Financial Officer pursuant to Rules 13a-14(a) and 15d-14(a) promulgated under the Securities Exchange Act of 1934, as amended. 32.1**Certification of Principal Executive Officers and Principal Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002. 101The following financial information from LanzaTech Global Inc.'s Quarterly Report on Form 10-Q for the quarter ended September 30, 2024 formatted in Inline XBRL (Extensible Business Reporting Language) includes: (i) the Condensed Consolidated Balance Sheets, (ii) the Condensed Consolidated Statements of Operations and Comprehensive Loss, (iii) the Condensed Consolidated Statements of Changes in Redeemable Convertible Preferred Stock and Shareholders' Equity, (iv) the Condensed Consolidated Statements of Cash Flows, and (v) Notes to the Condensed Consolidated Financial Statements. 104Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101)* Filed herewith.** Previously filed. A A A + Furnished herewith and not deemed to be filed for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, and shall not be deemed to be incorporated by reference into any filing under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended. 57SIGNATURES Pursuant to the requirements of the Securities Act of 1934, as amended, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Skokie, State of Illinois, on November 8, 2024. **LANZATECH GLOBAL, INC.** (Registrant) Name Position Date /s/ Jennifer Holmgren, Ph.D. Chief Executive Officer and Director (Principal Executive Officer) November 8, 2024 Jennifer Holmgren, Ph.D. /s/ Geoff Trukenbrod Chief Financial Officer (Principal Financial Officer) November 8, 2024 Geoff Trukenbrod **58Document Exhibit 31.1 CERTIFICATION PURSUANT TORULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934, AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002** Jennifer Holmgren, certify that: 1.I have reviewed this Quarterly Report on Form 10-Q of LanzaTech Global, Inc.; 2.Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report; 3.Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report; 4.The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have: a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared; b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles; c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and 5.The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions): a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting. **31.2 CERTIFICATION PURSUANT TORULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934, AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002** Geoff Trukenbrod, certify that: 1.I have reviewed this Quarterly Report on Form 10-Q of LanzaTech Global, Inc.; 2.Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report; 3.Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report; 4.The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have: a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared; b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles; c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and 5.The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions): a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting. **32.1 CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002** Pursuant to the requirement set forth in Rule 13a-14(b) of the Securities Exchange Act of 1934, as amended (the **Exchange Act**) and Section 1350 of Chapter 63 of Title 18 of the United States Code (18 U.S.C. **1350**), Jennifer Holmgren, Chief Executive Officer of LanzaTech Global, Inc. (the **Company**), and Geoff Trukenbrod, Chief Financial Officer of the Company, each hereby certifies that, to the best of their knowledge: 1.The Company's Quarterly Report on Form 10-Q for the quarterly period ended September 30, 2024, to which this Certification is attached as Exhibit 32.1 (the **Report**), fully complies with the requirements of Section 13(a) or Section 15(d) of the Exchange Act; and 2.The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company. **Date: November 8, 2024** By: /s/ Jennifer Holmgren Jennifer Holmgren Chief Executive Officer (Principal Executive Officer) **Geoff Trukenbrod** Geoff Trukenbrod Chief Financial Officer (Principal Financial Officer) This certification accompanies the Form 10-Q to which it relates, is not deemed filed with the Securities and Exchange Commission and is not to be incorporated by reference into any filing of LanzaTech Global, Inc. under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended (whether made before or after the date of the Form 10-Q), irrespective of any general incorporation language contained in such filing.