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

	FORM 10-K	
$\ensuremath{\boxtimes}$ ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE	For the fiscal year ended December 31, 2023	
$\hfill\Box$ Transition report pursuant to section 13 or 15(d) of 7	OR THE SECURITIES EXCHANGE ACT OF 1934  For the transition period from to  Commission file number: 001-35073	
	GEVO, INC. (Exact name of registrant as specified in its charter)	
<b>Delaware</b> (State or other jurisdiction of incorporation or organization)		<b>87-0747704</b> (I.R.S. Employer Identification No.)
345 Inverness Drive South, Building C, Suite 310 Englewood, CO (Address of principal executive offices)		80112 (Zip Code)
	(303) 858-8358 (Registrant's telephone number, including area code)	
	Securities registered pursuant to Section 12(b) of the Act:	
Title of Each Class	Trading Symbol	Name of Each Exchange on Which Registered
Common Stock, par value \$0.01 per share	GEVO	The Nasdaq Stock Market LLC
Indicate by check mark if the registrant is a well-known seasoned	Securities registered pursuant to Section 12(g) of the Act:  None  issuer, as defined in Rule 405 of the Securities Act. Yes □ No ⊠	
Indicate by check mark if the registrant is not required to file repo	rts pursuant to Section 13 or Section 15(d) of the Act. Yes ☐ No ☒	
Indicate by check mark whether the registrant (1) has filed all repethat the registrant was required to file such reports), and (2) has been subject to		inge Act of 1934 during the preceding 12 months (or for such shorter period
Indicate by check mark whether the registrant has submitted electroreceding 12 months (or for such shorter period that the registrant was required.)		t to Rule 405 of Regulation S-T (§232.405 of this chapter) during the
Indicate by check mark whether the registrant is a large accelerate accelerated filer," "accelerated filer," "smaller reporting company," and "emerg		company or an emerging growth company. See the definitions of "large e):
Large accelerated filer □ Non-accelerated filer □	Accelerated filer Smaller reporting company Emerging growth company	□ ⊠ □
If an emerging growth company, indicate by check mark if the reg pursuant to Section 13(a) of the Exchange Act. $\Box$	istrant has elected not to use the extended transition period for comply	ying with any new or revised financial accounting standards provided
$Indicate \ by \ check \ mark \ whether \ the \ registrant \ has \ filed \ a \ report \ or \ Sarbanes-Oxley \ Act \ (15 \ U.S.C. \ 7262(b)) \ by \ the \ registered \ public \ accounting \ fi$		of its internal control over financial reporting under Section 404(b) of the
If securities are registered pursuant to Section 12(b) of the Act, in financial statements. $\boxtimes$	dicate by check mark whether the financial statements of the registran	t included in the filing reflect the correction of an error to previously issued
Indicate by check mark whether any of those error corrections are relevant recovery period pursuant to § 240.10D-1(b). $\Box$	restatements that required a recovery analysis of incentive-based com-	pensation received by any of the registrant's executive officers during the
Indicate by check mark whether the registrant is a shell company (	as defined in Rule 12b-2 of the Exchange Act). Yes □ No ⊠	
The aggregate market value of common equity held by non-affilia fiscal quarter, based on the closing price of the common stock as reported on the common stock have been excluded in that such persons may be deemed to be a	e Nasdaq Capital Market on June 30, 2023. Shares of common stock	3, the last trading day of the registrant's most recently completed second held by each officer, director and holder of 10% or more of the outstanding clusive determination for other purposes.
As of January 31, 2024, the number of outstanding shares of the re-	egistrant's common stock, par value \$0.01 per share, was 240,499,833	£
	DOCUMENTS INCORPORATED BY REFERENCE	

Part III of this Annual Report on Form 10-K incorporates certain information by reference from the registrant's proxy statement for the 2024 annual meeting of stockholders to be filed no later than 120 days after the end of the registrant's fiscal year ended December 31, 2023.

### GEVO, INC.

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#### Forward-Looking Statements

This Annual Report on Form 10-K (this "Report") contains forward-looking statements within the meaning of Section 21 E of the Securities Exchange Act of 1934, as amended (the "Exchange Act"). When used in this Report, the words "expect," "believe," "anticipate," "estimate," "intend," "plan" and similar expressions are intended to identify forward-looking statements. These statements relate to future events or our future financial or operational performance and involve known and unknown risks, uncertainties and other factors that could cause our actual results, levels of activity, performance or achievements to differ materially from those expressed or implied by these forward-looking statements. These statements reflect our current views with respect to future events and are based on assumptions and subject to risks and uncertainties. These forward-looking statements include, among other things, statements about: our financial condition, our results of operation and liquidity, our ability to finance, develop, and construct our Net-Zero Projects (as defined below), as well as other growth projects, our ability to produce our products, our expectations regarding the demand for our products and our ability to meet such demand, our ability to meet production, financial and operational guidance, our ability to generate revenue from our executed contracts, our strategy to pursue low-carbon or "net-zero" carbon renewable fuels for sale into California and elsewhere, our ability to replace our fossil-based energy sources with renewable energy sources at our Net-Zero Projects and elsewhere, our expectations regarding the location and start-up date for our initial Net-Zero Project, our expectations regarding our ability to produce renewable liquid hydrocarbons, our expectations regarding our ability to produce protein and other products for use in the food chain, our ability and plans to construct greenfield commercial hydrocarbon facilities to produce sustainable aviation fuel ("SAF") and other products, our ability to raise additional funds to finance our business and the sources of those funds, our ability to perform under our existing offtake agreements and other sales agreements we may enter into in the future, our ability to successfully operate our renewable natural gas ("RNG"), also known as biogas, facilities in Iowa, our ability to produce renewable hydrocarbon products at a commercial level and at a profit, the availability of, and market prices for, government economic incentives to the renewable energy market, achievement of advances in our technology platform, the availability of suitable and cost-competitive feedstocks, our ability to gain market acceptance for our products, our expectations regarding the demand for carbon credits, the expected cost-competitiveness and relative performance attributes of our products, our strategy to pursue alcohol-to-SAF development and production, additional competition and changes in economic conditions and the future price and volatility of petroleum and products derived from petroleum. Important factors could cause actual results to differ materially from those indicated or implied by forward-looking statements such as those contained in documents we have filed with the United States ("U.S.") Securities and Exchange Commission (the "SEC"), including this Report in Item 7. "Management's Discussion and Analysis of Financial Condition and Results of Operations," Item 1A. "Risk Factors" and subsequent reports on Form 10-Q. All forward-looking statements in this Report are qualified entirely by the cautionary statements included in this Report and such other filings. These risks and uncertainties or other important factors could cause actual results to differ materially from results expressed or implied by forward-looking statements contained in this Report. These forward-looking statements speak only as of the date of this Report. We undertake no intention or obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, and readers should not rely on the forward-looking statements as representing the Company's views as of any date subsequent to the date of the filing of this Report.

Unless the context requires otherwise, in this Report the terms "Gevo," "we," "us," "our" and "Company" refer to Gevo, Inc. and its wholly owned, direct and indirect subsidiaries.

#### **Risk Factors Summary**

Our business is subject to a number of risks and uncertainties, many of which are beyond our control, including those described in <u>Part I, Item 1A. Risk Factors</u> of this annual report. These risks include, but are not limited to, the following:

- We have a history of net losses, and we may not achieve or maintain profitability.
- We will require substantial additional financing to achieve our goals, and a failure to obtain this capital when needed or on acceptable terms could force us to delay, limit, reduce or terminate our development and commercialization efforts.
- Our business is capital-intensive in nature, and we rely on external financing to fund our growth strategy, including the development
  and construction of our Net-Zero Projects and other similar growth projects. Limitations on access to external financing could
  adversely affect our operating results.
- Our proposed growth projects may not be completed or, if completed, may not achieve profitability or perform as expected. Our
  project development activities may consume a significant portion of our management's focus, and if not successful, reduce our
  profitability.
- We may be unable to successfully perform under current or future offtake and sales agreements to provide our products, which could harm our commercial prospects.
- Our offtake agreements, including our take-or-pay agreements, are subject to significant conditions precedent and, as a result, the
  revenues that we expect from such contracts may never be realized.
- Fluctuations in the price of corn and other feedstocks may affect our cost structure.
- Fluctuations in petroleum prices and customer demand patterns may reduce demand for renewable fuels.
- Any decline in the value of carbon credits associated with our products could have a material adverse effect on our results of
  operations cash flow and financial condition.
- We may not be successful in the commercialization of alcohol-to-SAF projects utilizing Axens technology.
- The technological and logistical challenges associated with producing, marketing, selling and distributing renewable hydrocarbon products are complex, and we may not be able to resolve such complexities in a timely or cost-effective manner, or at all.
- Our actual costs may be greater than expected in developing our growth projects, causing us to realize significantly lower profits or greater losses on our projects.
- We may be unable to produce renewable hydrocarbon products in accordance with customer specifications.
- Our experience may not be sufficient to operate commercial-scale facilities and we may encounter substantial difficulties operating commercial plants or expanding our business.
- Even if we are successful in producing our products on a commercial scale, we may not be successful in negotiating additional fuel
  offtake agreements or pricing terms to support the growth of our business.
- If we engage in acquisitions, we will incur a variety of costs and may potentially face numerous risks that could adversely affect our business and operations.
- If we engage in joint ventures, we will incur a variety of costs and may potentially face numerous risks that could adversely affect our business and operations.
- If we lose key personnel, including key management personnel, or are unable to attract and retain additional personnel, it could delay
  our product development programs and harm our research and development efforts, make it more difficult to pursue partnerships or
  develop our own products or otherwise have a material adverse effect on our business.
- We may face substantial competition from companies with greater resources and financial strength, which could adversely affect our performance and growth.
- Business interruptions may have an adverse impact on our business and our financial results.
- Our business and operations would suffer in the event of IT system failures or a cyber-attack.
- We may engage in hedging transactions, which could adversely impact our business.
- Ethical, legal and social concerns about genetically engineered products and processes, and similar concerns about feedstocks grown
  on land that could be used for food production, could limit or prevent the use of our products, processes and technologies and limit
  our revenues.
- As our products have not previously been used as a commercial fuel in significant amounts, their use exposes us to product liability risks.

- We may not be able to use some or all of our net operating loss carry-forwards tax deductions to offset future taxable income.
- Competitiveness of our products for fuel use (including RNG) depends in part on government economic incentives for renewable energy projects or other related policies that could change.
- In order to benefit from RINs and LCFS credits, our RNG projects are required to be registered and are subject to regulatory audit.
- Our RNG project has, and any future digester project may not be able to achieve the operating results we expect from these projects.
- Our ability to compete may be adversely affected if we are unsuccessful in defending against any claims by competitors or others that we are infringing upon their intellectual property rights.
- Our ability to compete may be adversely affected if we do not adequately protect our proprietary technologies or if we lose some of
  our intellectual property rights through costly litigation or proceedings.
- We may not be able to enforce our intellectual property rights throughout the world.
- Confidentiality agreements with employees and others may not adequately prevent disclosures of trade secrets and other proprietary information.
- We have received funding from U.S. government agencies, which could negatively affect our IP rights.
- The U.S. renewable fuels industry is highly dependent upon certain federal and state legislation and regulation and any changes in legislation or regulation could have a material adverse effect on our results of operations, cash flows and financial condition.
- Reductions or changes to existing regulations and policies may present technical, regulatory and economic barriers, which may significantly reduce demand for renewable fuels or our ability to supply our products.
- Negative attitudes toward renewable energy projects from the U.S. government, other lawmakers and regulators, and activists could
  adversely affect our business, financial condition and results of operations.
- Any claims relating to improper handling, storage or disposal of hazardous materials or noncompliance with applicable laws and regulations could be time consuming and costly and could adversely affect our business and results of operations.
- Our international activities may increase our exposure to potential liability under anti-corruption, trade protection, tax and other laws and regulations.
- The market price of our common stock may be adversely affected by the future issuance and sale of additional shares of our common stock or by our announcement that such issuances and sales may occur.
- Future issuances of our common stock or instruments convertible or exercisable into our common stock may materially and adversely affect the price of our common stock and cause dilution to our existing stockholders.
- Raising capital at a subsidiary, or project, level would result in lower revenues attributable back to us.
- Our inability to comply with applicable Nasdaq listing requirements could result in delisting of our common stock.
- Our stock price may be volatile, and your investment in our securities could suffer a decline in value.
- The estimates and assumptions on which our financial projections are based may prove to be inaccurate.
- Raising additional capital may cause dilution to our existing stockholders, restrict our operations or require us to relinquish rights to
  our technologies.
- We do not anticipate paying cash dividends, and accordingly, stockholders must rely on stock appreciation for any return on their investment.
- If securities or industry analysts do not publish research or reports about our business, or publish negative reports about our business, our stock price and trading volume could decline. The trading market for our common stock may be influenced by the research and reports that securities or industry analysts publish about us or our business.
- We are subject to anti-takeover provisions in our certificate of incorporation, our bylaws and under Delaware law that could delay or
  prevent an acquisition of the Company, even if the acquisition would be beneficial to our stockholders.
- Our certificate of incorporation provides that, unless we consent in writing to the selection of an alternative forum, the Court of
  Chancery of the State of Delaware will be the sole and exclusive forum for substantially all disputes between us and our
  stockholders, which could limit our stockholders' ability to obtain a favorable judicial forum for disputes with us or our directors,
  officers or employees.

#### PART I

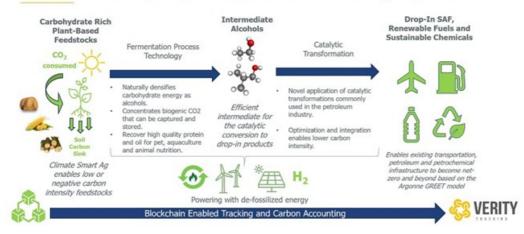
#### Items 1 and 2. Business and Properties.

#### **Company Overview**

Gevo, Inc. (Nasdaq: GEVO), a Delaware corporation founded in 2005, is a growth-oriented, carbon abatement company with the mission of solving greenhouse gas emissions for those sectors of the transportation industry that are not amenable to electrification or hydrogen. We believe that the market size for hydrocarbon fuels will continue to remain significant in the long-term even with the rapid adoption of electric vehicles and hydrogen technologies.

We are focused on transforming renewable energy into energy-dense liquid hydrocarbons that can be used as renewable fuels, such as SAF, with the potential to achieve a "net-zero" greenhouse gas ("GHG") footprint. We believe that this addresses the global need of reducing GHG emissions with "drop in" sustainable alternatives to petroleum fuels. We use the Argonne National Laboratory's Greenhouse gases, Regulated Emissions, and Energy use in Transportation model (the "GREET Model") to measure, predict and verify GHG emissions across the life cycle of our products. Our "net-zero" concept means the production of drop-in hydrocarbon fuels and chemicals by using sustainably grown feedstocks (e.g., low till, no-till and dry corn cultivation, or other carbohydrate sources); renewable, substantially decarbonized energy sources; and process technologies to lower GHG emissions, resulting in an expected net-zero carbon footprint from the full life cycle of the fuel measured from the capture of renewable carbon through the burning of the fuel.

# CARBOHYDRATES TO SAF: THE LOW CARBON BUSINESS SYSTEM Low cost, low carbon footprint system with potential to deliver carbon negative products



Our primary market focus, given current demand and growing customer interest, is hydrocarbon fuels, and SAF in particular. We believe that SAF from carbohydrates to alcohol is the most economically viable approach for carbon abatement. We also have commercial opportunities for other renewable hydrocarbon products, such as RNG; hydrocarbons for gasoline blendstocks and diesel fuel; ingredients for the chemical industry, such as ethylene and butenes; plastics and materials; and other chemicals. Global fuel consumption by commercial airlines continues to remain strong, with global fuel consumption at more than 100 billion gallons per year ("BGPW") and growing.

We believe that there is a growing and significant market demand for SAF production generally based on a number of factors, including:

- Air transportation is considered to be a hard to decarbonize segment by governments, airlines, and others. De-fossilized jet fuel, meaning jet fuel but with a low GHG emission footprint, is expected to be important to achieve the decarbonization of the industry. The International Air Transport Association's ("IATA") 77th Annual General Meeting approved a resolution for the global air transport industry to achieve net-zero carbon emissions by the year 2050. Most recently, IATA presented roadmaps to achieve its 2050 Fly Net Zero commitment, which include SAF providing 62 percent of the carbon mitigation needed in 2050. IATA has 317 airline members, including Alaska Airlines, American Airlines, Delta Air Lines, FedEx Express, United Airlines and UPS Airlines, who have committed to spending significant amounts to mitigate the balance of emissions from their global businesses going forward.
- The U.S. Federal government continues to advance its Sustainable Aviation Fuel Grand Challenge (the "Challenge") to meet the demand for SAF by working with stakeholders to reduce costs, enhance sustainability, and expand production and use of SAF which achieves a minimum of a 50% reduction in life cycle GHGs compared to conventional fuel. The Challenge includes the goal of supplying at least 3 billion gallons of SAF per year by 2030 and, by 2050, sufficient SAF to meet 100% of aviation fuel demand, which is currently projected to be around 35 billion gallons per year.
- Newly enacted state-based incentives for SAF in 2023, including per gallon tax credits in Illinois, Minnesota, and Washington, demonstrate growing public policy support at all levels of government for scaling SAF production and increasing SAF use in the United States.
- The *oneworld*® alliance committed to a target of 10% SAF use across the alliance by 2030 and plans to reach net-zero emissions by 2050.

We believe that we possess the ability to convert various carbohydrate feedstocks through a fermentation process into alcohols and then transform the alcohols into renewable fuels and materials, through a combination of licensing of technology and engineering from third parties, and our own proprietary technology, know-how, and engineering. While we expect our major capital deployments to focus on the production of SAF, we recognize there are opportunities to operate in several different renewable fuels and materials markets and we will pursue those opportunities when appropriate based on customer interest, access to capital, and expected investment returns.

Our SAF production process uses carbohydrates as a feedstock. Carbohydrates are plant matter that result from photosynthesis. Photosynthesis is the natural process by which carbon dioxide is captured from the air by plants, which are very efficient at capturing carbon dioxide from the atmosphere. The carbon in carbohydrates is renewable because its source is carbon dioxide from the atmosphere. The carbohydrates are fermented to produce alcohol intermediate products (*e.g.*, ethanol or isobutanol). The alcohol-based intermediates are then chemically processed to make renewable hydrocarbons. To achieve net-zero carbon intensity ("CI") across the whole life cycle of the products, we believe:

- carbohydrates from sustainably grown feedstocks (e.g., low till, no-till, and dry corn cultivation) or other carbohydrate sources with a low CI score should be used in production;
- the energy (electricity and heat sources) used in production must be de-fossilized; and
- the products cannot contain fossil-based carbon.

We believe sustainably grown industrial field corn (i.e., corn that is grown with precision agricultural techniques and low-till or no till cultivation to conserve nutrients, prevent water runoff, and erosion) is the best feedstock to commercialize our SAF with initially because:

- it produces a significant amount of protein and vegetable oil for nutritional products on a per acre basis while also producing an abundance of low CI carbohydrates that can be captured and used as a feedstock for fuels and chemicals;
- the protein and oil that are produced can be easily separated and sold as co-products into the food chain markets. The protein and oil revenue serves to offset the cost of the corn feedstock;

- we believe that the carbon footprint of growing corn can be negative, according to calculations completed with the GREET Model, when a full suite of climate-smart agricultural practices is employed on appropriate acres of cropland;
- we believe that corn can achieve lower CI scores when grown with climate-smart agricultural techniques than waste raw materials or wood; and
- we believe that residual carbohydrates from corn are the lowest cost carbohydrates available as a renewable raw material, and the production is proven and scalable.

We believe that utilizing sustainable agriculture practices to help solve GHG problems is a breakthrough that addresses the problem of GHGs without compromising sustainability or food supply. We also believe that it will be possible to create an incentive structure that rewards farmers to lower the CI score of their agricultural products and create a cycle of continuous improvement to their overall sustainability footprint.

#### **Building Out Production Capacity to Meet Demand**

We believe that we will be able to develop the marketplace, customers and production capacity to achieve at least 1 billion gallons of sales in the next decade. Two approaches will be required to achieve this objective. The first approach, the development of greenfield sites (*i.e.*, the development of a project on an undeveloped site), allows us to optimize production and the integration of technology. The second approach, leveraging installed alcohol production capacity, has the advantage that the fermentation capacity already exists via existing ethanol plants. Those existing ethanol plants would need to be decarbonized and hydrocarbon production capacity would need to be installed.

Our concept of "Net-Zero Projects" is a series of planned facilities to produce energy dense liquid hydrocarbons using renewable energy and our proprietary technology. The concept of a Net-Zero Project is to convert renewable energy (such as, photosynthetic, wind, renewable natural gas, and biogas) from a variety of sources into energy dense liquid hydrocarbons that when burned in traditional engines, have the potential to achieve net-zero GHG emissions across the life-cycle of the liquid fuel based on the GREET Model, the pre-eminent science-based life-cycle analysis model. The GREET Model takes into account emissions and impacts cradle-to-cradle for renewable resource-based fuels including inputs and generation of raw materials, agriculture practices, chemicals used in production processes of both feedstocks and products, energy sources used in production and transportation and the end use of the products, which for fuel products is usually burning to release energy.

Using sustainably grown corn or low CI corn as an input at a Net-Zero Project would comprise the following steps: (i) process the corn kernels to produce protein, oil and carbohydrate; (ii) ferment the carbohydrate into an alcohol; and (iii) convert the alcohol to SAF and other renewable hydrocarbon products. The combination of renewable carbon obtained from the carbohydrates, plus the reduction/elimination of fossil-based energy creates the advantage in driving the CI score to achieve net-zero. In addition to those practices, there is potential to sequester renewable carbon in the soil during corn production, and from capturing the CO2 from the production process, which should cause the CI scores to become negative across the whole life cycle of the product as measured by the GREET Model.

### **Greenfield Projects**

Our initial greenfield Net-Zero Project, Net-Zero 1 ("NZ1"), is expected to be located in Lake Preston, South Dakota, and is designed to produce approximately 65 million gallons per year ("MGPY") of total hydrocarbon volumes, including 60 MGPY of SAF. The plant is expected to be powered by wind-based electricity. The liquid hydrocarbons, when burned, are expected to have a net-zero GHG footprint. Along with the hydrocarbons, NZ1 is expected to produce approximately 695,000 tons per year of high-value protein products for use in the food chain and more than 34 million pounds per year of corn oil. Our products will be produced in three steps: the first step is milling the corn to produce the carbohydrates needed for the production of SAF while simultaneously enabling the production of protein and oil; the second step produces alcohols using carbohydrate-based fermentation; and the third step is the conversion of the alcohols into hydrocarbons.

We completed the value engineering on our NZ1 project and are proceeding with detailed engineering, modularization design, and capital costs updates. We are currently refining project cost estimates with engineering, procurement, and construction ("EPC") partners to identify cost saving opportunities, and currently expect to finance the construction of NZ1 at the subsidiary level using a combination of Company equity and third-party capital, to include non-recourse debt. The Company expects to have invested a cumulative total of \$236 to \$286 million of cash equity in the project at financial close. Cash distributions from future NZ1 earnings would be proportionate to Gevo's ownership in NZ1 under this expected financing structure. The use of project debt and third party equity allows us to conserve capital for use on other growth projects. We expect to apply similar development and financing strategies to future Net-Zero Projects to enable growth of SAF production to meet demand for SAF.

We have substantially completed the engineering design of NZ1. We have substantially completed value engineering and we are now focusing on detail engineering with our EPC partners, to reduce and contractually finalize a negotiated lump-sum, fixed price agreement whereby the EPC partners will build and deliver the plant. This detail engineering work is focused specifically on increasing the modularization of component parts on the NZ1 plant design, which means that we expect that the process equipment would be built into modules at a factory, then the modules would be assembled onsite at NZ1, with the goal of minimizing specialized field work typical in plant construction of this type. This approach is expected to lower the risk and cost of, and access to, skilled labor at the site and reduce the supply chain constrictions for some of our long-lead equipment. Increasing the modularization of the plant design is also expected to reduce our spend in advance of securing third-party equity and debt financing for NZ1 and increase the certainty of construction schedule for those counterparties.

In order to achieve full construction financing for NZ1, we need to secure third-party equity and debt. Upon receiving an invitation from the U.S. Department of Energy ("DOE"), we submitted a Part II Application for a DOE loan guarantee for a direct lending from Federal Financing Bank. In August 2023, Gevo was invited to enter the due diligence and term sheet negotiation phases with DOE. Given the current interest rate environment and general macroeconomic conditions, a DOE-guaranteed loan is our most attractive debt option and is expected to offer the lowest cost of debt for the project. We expect that obtaining a DOE-guaranteed loan will have the benefit of reducing the overall amount of equity required to finance NZ1 and should result in higher project equity returns for investors which should increase the likelihood of Gevo successfully financing NZ1. The DOE loan application process is expected to be complete in 2024. We expect that our NZ1 plant start-up date will occur twenty-four to thirty months after the financing of NZ1 closes, the timing of which is uncertain. In parallel with the DOE-guaranteed loan process, we continue to explore debt financing for NZ1 without the benefit of the DOE-guaranteed loan. We are also working to secure CCS access at the site.

We are evaluating and performing early site development work at several sites in the U.S. for other greenfield sites. These sites include several greenfield locations that are particularly advantageous in terms of potential economics, opportunities to decarbonize, and time to market. In addition, we are pursuing potential Net-Zero Projects with several existing ethanol plant sites. Existing ethanol plants need to be decarbonized with renewable energy or de-fossilized energy and/or carbon sequestration. Gevo has developed a preferred list of potential partners and sites with decarbonization in mind and is engaged in preliminary feasibility and development discussions with several of these potential partners. We plan to give priority to existing industrial plant sites that have attractive potential economics and high predictability of timeline for decarbonization.

#### Leveraging Existing Alcohol Production Capacity

Based upon what we have learned as we develop and engineer NZ1, we believe that it should be possible, practical and financially attractive to convert existing ethanol plants to allow for the production of SAF and other renewable hydrocarbon products. In order to accomplish this conversion, three critical things are required: (i) the energy for the converted plant needs to be de-fossilized to achieve the CI scores required for the market; (ii) a hydrocarbon production plant needs to be built; and (iii) the plant needs to have access to carbon capture and sequestration ("CCS").

We believe that there are several existing ethanol plants that could be attractive for an alcohol-to-jet ("ATJ") plant that would be largely copied from our NZ1 Project.

#### Renewable Natural Gas

Our RNG and biogas projects generate incremental profit and create a long-term option to potentially supply RNG to our Net-Zero Projects as part of our long-term strategy to decarbonize SAF and other hydrocarbon fuels.

We finished the development and construction of our first RNG facilities in northwest Iowa in 2022. RNG has value in markets such as California as well as in our hydrocarbon production process by helping us achieve carbon negative GHG emissions on our renewable hydrocarbon products. The end products resulting from such a decarbonization process have lower CI scores and increased market value, in addition to having a more positive impact on the environment. Our initial RNG project, Gevo NW Iowa RNG, LLC ("Gevo RNG"), was developed to generate RNG captured from dairy cow manure which is supplied by three dairies located in Northwest Iowa. Animal manure is digested anaerobically to produce RNG. We financed the construction of the Gevo RNG project in April 2021 with the \$68,155,000 of Solid Waste Facility Revenue Bonds (Gevo NW Iowa RNG, LLC Renewable Natural Gas Project), Series 2021 (Green Bonds) (the "2021 Bonds") issued by the Iowa Finance Authority in a public offering for the benefit of Gevo RNG.

The Gevo RNG project started up and began producing and injecting initial volumes of biogas in 2022, during the project's testing and ramp-up period. The project achieved stable production levels and surpassed our annual production target of 310,000 MMBtu for 2023. In addition, we completed an expansion to the Gevo RNG project to increase its annual design capacity from 355,000 million British thermal units ("MMBtu") to 400,000 MMBtu.

Gevo was granted registration approval by the U.S. Environmental Protection Agency ("EPA") in 2022, allowing us to participate in its Renewable Fuel Standard Program ("RFS Program") to receive renewable identification numbers ("RINs"). During the first quarter of 2023, we received approval for a temporary pathway under California's Low Carbon Fuel Standard ("LCFS") program. We realized substantial sales for our environmental attributes of both LCFS credits and RINs in 2023.

We believe the trust and reputation we have attained in the RNG industry, in combination with our understanding of the various and complex environmental attributes, gives us a competitive advantage. We intend to leverage our relationships to identify and execute new project opportunities. Typically, new development opportunities come from our existing relationships with dairy owners who value our reputation in the industry.

We exercise financial discipline in pursuing projects by targeting attractive risk-adjusted project returns, whether selling RNG into the markets or using it to lower CI scores at our Net-Zero Projects. We will monitor biogas supply availability across our portfolio and seek to maximize our production by expanding operations when economically feasible.

#### **Competitive Advantages**

We believe that our vertically integrated set of technologies and business systems (including our extensive portfolio of several hundred patents and patent applications, trade-secrets, and proprietary production technologies) creates competitive advantage through (i) access to multiple opportunities to drive the CI score of our products down, (ii) opportunities to address needs in the chemicals, food, feed, plastics and materials markets, (iii) to drive production costs very low to maximize margins, (iv) deploy production technology that is readily scalable and robust from an operating point of view, (v) through Verity Tracking, and (vi) modular design of production facilities which can help to facilitate rapid deployment of production assets. The vertical business systems enable Gevo to capture value from selling protein and vegetable oil, capturing biogenic carbon, and generating carbon value at state and federal levels.

#### Carbohydrates as Feedstocks

Carbohydrate feedstocks exceed all other potential renewable carbon feedstock sources by several orders of magnitude on a worldwide basis. In the Midwest region of the U.S. corn is an ideal feedstock for multiple reasons. On a per acre basis, field corn (not food corn) is one of the most productive crops to produce protein and oil, as well as carbohydrates. The non-carbohydrate co-products from the field corn kernel represent the majority of the nutritional value of the kernel and could be delivered into the food chain. By selling the protein, oil and animal feed into the food chain markets, it would offset a portion of the cost of acquiring the corn. We believe about 50% of the cost of corn can be offset by manufacturing valuable products for the food chain. The remaining carbohydrates are used as a feedstock for fermentation.

We believe that in the U.S., carbohydrates produced from corn are the most sustainable and lowest cost renewable carbon source that can be used as feedstock for alcohol to hydrocarbon processes to produce hydrocarbon fuels. In the future, we expect to evaluate the commercial use of carbohydrates from sources other than corn (e.g., of sugar cane, molasses or other cellulosic sugars derived from wood, agricultural residues and waste) as the cost to acquire those carbohydrates becomes competitive, and the sustainability profile (and related CI scores) become acceptable. We expect our future feedstocks to be chosen on the collective basis of (i) cost, (ii) carbon and/or sustainability footprint with associated value, (iii) positive contribution to food chain where possible, and (iv) availability of the feedstock at a practical scale.

#### Proprietary Carbohydrate Conversion Technologies

Three technologies are required to convert carbohydrates to SAF and other renewable hydrocarbons: (i) the fermentation process to convert carbohydrates to alcohols; (ii) the chemical processing technology to make the hydrocarbon fuel products; and (iii) the technology and know-how to mitigate the fossil based GHG emissions from the integrated fermentation and fuel production plants.

We have two ways of producing alcohols via fermentation from carbohydrates: (i) ethanol, which has two carbons, and (ii) isobutanol, which has four carbons. Ethanol can be a building block for SAF, diesel fuel, naptha and chemical products. Isobutanol can be a building block for gasoline hydrocarbons, SAF and chemical products. Ethanol technology is well known and readily available. Isobutanol technology is relatively new and has yet to be scaled to the size of current ethanol production, but it offers long-term potential in enabling lower CI scores and allowing for the production of chemical products, and high value gasoline hydrocarbons.

We believe that we possess proprietary know-how to integrate alcohol production and chemical processing to make SAF and other renewable hydrocarbons that should lower the CI score of our renewable hydrocarbon products, and have filed patents on the overall process.

Alcohols can be converted to hydrocarbon products with catalytic chemical processing techniques analogous to those used in the petrochemical industry. We have been working with Axens North America, Inc. ("Axens") to use their technology on this process since they have already scaled it up and they have licensed to many commercial production facilities. Axens brings technologies with over 60 related patents, engineering packages, proprietary catalysts and certain proprietary equipment required to convert alcohols into SAF and they will provide certain process guarantees to us.

Integration of the production systems with various renewable or de-fossilized energy sources will be essential. Our Net-Zero plant concept depends upon a variety of decarbonization methods to ensure the operability of the plant while also reducing and eliminating the need for fossil-based energy. We have partnered with companies such as Zero6 Energy, formerly Juhl Energy, to develop the technology suite for this decarbonization.

We own and operate a development scale plant in Luverne, Minnesota (the "Luverne Facility"). This development scale plant enables us to solve the practical issues involved with scale up of new technologies and testing of new unit operations. Gevo may use the Luverne Facility in the future to prove out processes, process concepts, unit operations and for other purposes in order to optimize feedstocks and the processes used for producing hydrocarbons from alcohols. Currently, the activities at the Luverne Facility are minimized to care and maintenance, as the Company has shifted focus to the Net-Zero Projects.

#### Verity

It is critical that we can prove the CI of our products, ensuring that these values are accurate and auditable. The mission of Verity ("Verity"), including Verity Tracking and Verity Carbon Solutions, is to document CI and other sustainability attributes and apply Distributed Ledger Technology, commonly referred to as blockchain, to create a record of the products throughout the entire business system. Verity starts by calculating carbon intensity of feedstocks from data collected at the farm and field level. We plan to track these feedstocks through production at our plants where we intend to use a mix of renewable electricity, biogas, renewable hydrogen and other potentially decarbonized energy sources in production. The CI data would then be combined to deliver a comprehensive CI reduction in a finished renewable fuel. The resulting CI reduction value has potential to be quantified as a digital asset and monetized in voluntary or compliance carbon markets, and providing compliance needs for tax incentives while preventing double-counting. We believe that in the future, regenerative agricultural practices have the potential to sequester large quantities of soil organic carbon while improving soil health.

There is increasing regulatory and stakeholder pressure on global corporations to lower emissions. These trends are driving demand for carbon credits, giving rise to two sets of markets, the regulated compliance carbon market and the unregulated voluntary carbon market, both of which could grow meaningfully in the coming decades. The total value of major compliance carbon markets is expected to be greater than \$800 billion in 2023, according to Bloomberg. Verity intends to document and account for carbon capture in conjunction with scientifically supported measurement techniques. The potential for Verity is broad and could be applicable to tracking the CI of various items beyond Gevo's internal businesses, including, but not limited to, renewable fuels, food, feed and industrial products through their respective business systems and value chains. Our robust scientific measurement, reporting, and verification plan and approach is expected to provide a high-quality credit that should meet regulated compliance and unregulated carbon markets.

In March 2023, we entered into a joint development framework agreement with Southwest Iowa Renewable Energy; in August 2023, we entered into a joint development framework agreement with a second ethanol producer in the Midwest that has over 100 million gallons of capacity; and in October 2023 we entered into an agreement with a third ethanol producer in the Southwest. These agreements include commercial terms and profit-sharing frameworks. As we grow Verity as an externally facing business, we are working to sign up additional ethanol and biofuel customers. Each of these agreements will focus on implementing Verity technology and developing the market for carbon credits to help farmers and biofuel producers quantify the CI reductions for their products.

During the second quarter of 2023, we launched the Verity Tracking platform (the "Platform") with farmers in the Lake Preston, South Dakota area who participated in our 2022 grower program. In its initial release, the Platform allows the users to measure, report, verify, and view the CI scores at both the farm average and field-by-field levels. The Platform provides insights into the contributors and removers behind the CI, helping users to understand the factors that drive differences in CI performance between fields. Users can also compare their scores with the U.S. national average calculated by the GREET model.

#### **Our Facilities and Projects**

#### Development Scale Facility

As described above, we currently own a development scale plant, the Luverne Facility. The Luverne Facility was originally constructed in 1998 and is located on approximately 55 acres of land containing approximately 50,000 square feet of building space. In 2022, the activities at our Luverne Facility were transitioned to care and maintenance, market development, and customer education, as we shifted focus to our Net-Zero Projects. The workforce adjustment allowed us to retain key personnel and redeploy some resources to our NZ1 and RNG projects to provide valuable knowledge and experience for the future strategic growth of the Company. The Luverne Facility is well equipped and positioned as a development site as it provides a unique opportunity to showcase our decarbonization and business systems and raise awareness for future partnerships, investors, and local communities, even though operations at the site have been minimized. Future operations, if any, will be tailored to support a focus on advancing our technology, testing, optimizing alternative feedstocks and yeast strains, and unit operations as well as partnership development for fuels and specialty chemicals with integrated solutions for GHG reductions. We continue to evaluate incentive opportunities recently introduced by the Inflation Reduction Act, which may positively impact the future economics of our operation at Luverne.

#### RNG Facilities

We developed Gevo's initial RNG project, Gevo RNG, in Northwest Iowa to generate RNG captured from dairy cow manure which is supplied by three dairies located in Northwest Iowa. Gevo RNG has a designed capacity of 400,000 MMBtu of RNG per year. The RNG is sold into the California market under dispensing agreements BP Canada Energy Marketing Corp. and BP Products North America Inc. (collectively, "BP") have in place with Clean Energy Fuels Corp., the largest fueling infrastructure in the U.S. for RNG. We commenced construction of the Gevo RNG project in April 2021, and in the third quarter of 2022, the Gevo RNG project ramped up production of biogas, raw biogas upgrading to RNG and the injection of RNG into an interconnected natural gas pipeline.

We have four leases for land and three fuel supply agreements related to the Gevo RNG project. Under these contracts, we lease land from dairy farmers on which we have built a gas upgrading unit, three anaerobic digesters, related equipment and pipelines. These leases expire at various dates between 2031 and 2050.

#### **Development Properties**

In July 2022, we purchased approximately 240 acres of land for NZ1 in Lake Preston, South Dakota, followed by a groundbreaking ceremony in Lake Preston in September 2022. Refer to the section entitled "Greenfield Projects" above for additional information about NZ1.

#### Headquarters

Our corporate headquarters and research and development laboratories are located in Englewood, Colorado and are leased. Our lease terminates in January 2029 and the leased space is approximately 19,241 square feet.

#### Competition

We face competitors in each market that we focus on, some of which are limited to individual markets, and some of which will compete with us across all of our target markets. Many of our competitors have greater financial resources, more comprehensive product lines, broader market presence, longer standing relationships with customers, longer operating histories, greater production capabilities, stronger brand recognition and greater marketing resources than we do which could make it difficult for us to compete.

Our renewable hydrocarbons, including SAF, compete with the incumbent petroleum-based fuels industry, as well as renewable fuels companies. The incumbent petroleum-based fuels industry makes the vast majority of the world's gasoline, jet and diesel fuels and blendstocks. The petroleum-based fuels industry is mature and includes a substantial base of infrastructure for the production and distribution of petroleum-derived products, however, the industry faces challenges from its dependence on petroleum. High and volatile oil prices should provide an opportunity for renewable producers relying on biobased feedstocks like corn, which in recent years have had lower price volatility than oil, to compete.

Renewable fuels companies may provide substantial competition in the hydrocarbon fuels markets. These renewable fuel competitors are numerous and include both large established companies and numerous startups. Government tax incentives for renewable fuel producers and regulations such as the Inflation Reduction Act Clean Fuel Production Credit, RFS Program, California LCFS program, and programs emerging in other states such as Illinois help provide opportunities for renewable fuels producers to compete. We believe that we have the advantage of being able to target conversion of alcohols into specific high-value molecules such as SAF, other renewable hydrocarbons and various chemical products.

#### **Intellectual Property and Technologies**

We seek protection for our intellectual property under patent, copyright, trademark and trade secret laws.

Since the Company was founded, we have submitted hundreds of patent applications in the U.S. and in various foreign jurisdictions. These patent applications are for our technologies and specific methods and products that support our business. We continue to file new patent applications, for which terms extend up to 20 years from the filing date in the U.S. and for various terms in international jurisdictions. We expect to continue to develop and build our intellectual property portfolio to address unmet technology and market needs going forward.

We have filed and prosecuted, and intend to continue to file and prosecute, patent applications and maintain trade secrets, as is consistent with our business plan, in an ongoing effort to protect our intellectual property.

We have a strong proprietary technology position. Our technology pathway converts carbohydrates to alcohols via a fermentation process. The alcohols are then converted to hydrocarbon fuels using a catalytic chemical process. By using renewable energy across the production process, in combination with sustainable feedstocks, like low carbon non-food corn, the GHG emissions can be substantially reduced or eliminated as measured across the whole of the life cycle. The processes used to convert carbohydrates to drop in hydrocarbons using isobutanol as the intermediate alcohol is protected by a global patent portfolio with more than 300 patents, as well as proprietary processes and know-how. Certain production technology to convert ethanol to hydrocarbons has been exclusively licensed to Gevo in the U.S. by Axens, and incorporates more than 60 patents, as well as proprietary production technology and know-how. Additionally, we have multiple patents and patent applications covering the ethanol to hydrocarbons routes.

We have a proprietary fermentation yeast biocatalyst that has been designed to consume carbohydrates and produce isobutanol as a product. Our technology team developed our proprietary biocatalyst to efficiently convert fermentable sugars of all types into isobutanol by engineering isobutanol pathways into the biocatalyst. The advantage of this biocatalyst is that it (i) works in large scale fermentation systems, and (ii) can operate in complex biological mixtures such as corn mash or molasses and produce a suitable clean isobutanol product. The technology is designed to use carbohydrate feedstocks, similar to ethanol technology. For example, carbohydrates from non-food corn, sugar cane, molasses or cellulosic sugars each could be used depending upon cost and availability. While we believe that the majority of the development work on a commercially viable isobutanol producing yeast is complete, we expect to continue to make additional improvements targeted to improve its performance.

#### **Government Regulation - Environmental Compliance**

Regulation by governmental authorities in the U.S. and other countries is a significant factor in the development, manufacture and marketing of second-generation renewable fuels. In particular, renewable fuels are subject to rigorous testing and premarket approval requirements by the EPA's Office of Transportation and Air Quality and regulatory authorities in other countries. In the U.S., various federal and, in some cases, state statutes and regulations also govern or impact the manufacturing, safety, storage and use of renewable fuels. The process of seeking required approvals and the continuing need for compliance with applicable statutes and regulations requires the expenditure of substantial resources.

We are subject to various federal, state and local environmental laws and regulations, including those relating to the discharge of materials into the air, water and ground, the generation, storage, handling, use, transportation and disposal of hazardous materials and the health and safety of our employees. These laws and regulations require us to obtain environmental permits and comply with numerous environmental restrictions as we construct and operate isobutanol assets. They may require expensive pollution control equipment or operational changes to limit actual or potential impacts to the environment. A violation of these laws, regulations or permit conditions can result in substantial fines, natural resource damage, criminal sanctions, permit revocations or facility shutdowns.

There is a risk of liability for the investigation and cleanup of environmental contamination at each of the properties that we own or operate and at off-site locations where we arrange for the disposal of hazardous substances. If these substances are or have been disposed of or released at sites that undergo investigation or remediation by regulatory agencies, we may be responsible under the Comprehensive Environmental Response, Compensation and Liability Act or other environmental laws for all or part of the costs of investigation and remediation. We may also be subject to related claims by private parties alleging property damage and personal injury due to exposure to hazardous or other materials at or from the properties. Some of these matters may require us to expend significant amounts for investigation and cleanup or other costs. We are not aware of any material environmental liabilities relating to contamination at or from our facilities or at off-site locations where we have transported or arranged for the disposal of hazardous substances.

In addition, new laws, new interpretations of existing laws, increased governmental enforcement of environmental laws or other developments could require us to make significant additional expenditures. Continued government and public emphasis on environmental issues can be expected to result in increased future investments in environmental controls at our facilities which cannot be estimated at this time. Present and future environmental laws and regulations applicable to our operations, more vigorous enforcement policies and discovery of currently unknown conditions could all require us to make substantial expenditures. For example, our air emissions are subject to the Clean Air Act, the Clean Air Act Amendments of 1990 and similar state and local laws and associated regulations. Under the Clean Air Act, the EPA has promulgated National Emissions Standards for Hazardous Air Pollutants ("NESHAP"), which could apply to facilities that we own or operate if the emissions of hazardous air pollutants exceed certain thresholds. If a facility we operate is authorized to emit hazardous air pollutants above the threshold level, then we might still be required to come into compliance with another NESHAP at some future time. New or expanded facilities might be required to comply with both standards upon startup if they exceed the hazardous air pollutant threshold. In addition to the costs for achieving and maintaining compliance with these laws, more stringent standards may also limit our operating flexibility.

As a condition to granting the permits necessary for operating our facilities, regulators could make demands that increase our construction and operations costs, which might force us to obtain additional financing. For example, unanticipated water discharge limits could sharply increase construction costs for our projects. Permit conditions could also restrict or limit the extent of our operations. We cannot guarantee that we will be able to obtain or comply with the terms of all necessary permits to complete the retrofit of an ethanol plant. Failure to obtain and comply with all applicable permits and licenses could halt our construction and could subject us to future claims.

Our products benefit from the RFS Program in that our RNG is currently eligible for Renewable Identification Numbers ("RINS") that have value based on the current RFS Program. The RFS Program could change, impacting our products, positively or negatively.

Various systems are being put in place around the world to measure CI and the reduction of GHGs, with the intent of creating a system to monetize the value of the reduction of carbon. In order to benefit from such systems, companies need to have their products qualified through a regulatory process. There is no guarantee that any benefit could be gained. In 2019, we submitted a design pathway application to the California Air Resources Board to gain approval for low-carbon intensity ethanol utilizing beef manure biogas as a process input under the LCFS, and we may also seek approval under similar programs in the future.

#### **People and Culture**

#### Higher Purpose

Our employees strive to make environmental and social impacts in the world. Our employees are also guided by our code of business conduct and ethics, which helps them to uphold and strengthen our standards of integrity and innovation while continuously improving our environment, health, safety and sustainability. Our world and business may change, but our core values are a constant in everything we do.

#### Employees

As of December 31, 2023, we had 103 employees in North America. We also retain consultants, independent contractors, and temporary and part-time workers. None of our facilities in the U.S. are covered by collective bargaining agreements. The Gevo team is made up of scientists, research and development experts, software developers, data engineers, operations, administrative and business development professionals, skilled trades and energy technicians.

	Total
Employment	
Full-time	101
Part-time Part-time	2
Total	103
<u>Department</u>	
Project Development	31
Research and Development	16
Production	13
General, administrative and business development	43
Total	103
<u>Location</u>	
Colorado	44
Texas	11
Iowa	11
Minnesota	9
New Mexico	7
South Dakota	5
Illinois	5
Other States	8
Foreign	3
Total	103

#### Human Rights

Gevo honors human rights and respects the individual dignity of all people globally. Our commitment to human rights requires that we understand and carry out our responsibilities consistent with our values and practices. We strive to ensure that human rights are upheld for our employees and all workers in our supply chain. Our commitment to human rights is defined in the code of business conduct and ethics, our supplier code of conduct, our dealer code of conduct and related policies and practices, which establish clear guidelines for our employees, suppliers and dealers while helping to inform our business decisions. We do not tolerate human rights abuses, such as forced labor, unlawful child labor or human trafficking. We are proud to contribute to the places where we work and support the residents of these places.

#### Code of Business Conduct and Ethics

We are committed to conducting business in accordance with the highest ethical standards. This means how we conduct ourselves is more than just a matter of policy and law, it is a reflection of our core values. Our code of business conduct and ethics provides specific guidance to all of our employees, outlining how they can and must uphold and strengthen the integrity that defines us. We maintain a global compliance hotline to allow for concerns to be brought forward.

#### Health and Safety

We strive to achieve safety excellence through increased focus on leading indicators, risk reduction, health and safety management systems, and prevention to protect the public health and environmental quality in our communities, as well as the health and safety of our employees, customers and neighbors. We strive to comply with all health and safety laws and regulations that apply to our business. We provide site safety orientation for all employees and guests as well as periodic refresher training for employees at a level appropriate for their role. We have received no violations and are proud that we have never had a fatality at a Gevo facility. During 2023, we had one reportable injury, no lost time incidents, and a total recordable injury rate of 0.93.

We are serious about maintaining the well-being of our employees and families, paying 100% of the premiums for health, dental and vision insurance for whole families. Despite the significant increases in premium costs, we continue to pay the premiums for disability and life insurance to assist in maintaining living standards when issues arise. We continue to be agile in addressing employee needs in the quickly evolving environment while being transparent across the workforce.

#### Diversity and Inclusion

In order to ensure that each of our employees can bring their full selves to work, we strive to foster a diverse, equitable, and inclusive workplace where all voices are heard and included. We continue to champion policies, practices and behaviors that amplify innovation on behalf of people, community and the planet. Diversity, equity and inclusion ("DEI") are critical to our success as an organization. Incorporating DEI into our business practices enhances innovation and enables our best talent to thrive in an environment where diverse perspectives are celebrated. This requires deliberate intention and action on the part of every employee and leader. We will continue to push forward on the path to a more diverse, equitable and inclusive culture and have committed to interview and consider at least one qualified woman and person of color for every open role, vice president and higher, including at the senior executive level and the Board of Directors.

We are proud of the vibrant tapestry of people represented within our team, including individuals of African descent, Latinx heritage, and Asian backgrounds, as well as individuals of diverse sexual orientations and gender identities.

Building a diverse and inclusive workforce is a top priority at Gevo. While we acknowledge that we have further progress to make, we are proud of the significant strides we have taken in recent years. In 2023, our non-management workforce saw a surge in female representation (35%) and increased representation across several minority groups including Hispanic/Latino (10%) and Black/African American (3%). At the leadership level, female representation increased to 33%, and we are actively developing programs to cultivate talent from diverse backgrounds for future leadership roles.

	Decem	December 31,	
Women	2022	2023	
Non-Management	32 %	35 %	
Women Leaders	22 %	33 %	
Total	28 %	34 %	

Decen		ber 31,
Diversity	2022	2023
Non-Management		
Asian	2 %	5 %
Black or African American	4 %	3 %
Hispanic or Latino	9 %	10 %
Two or More Races	2 %	3 %
Diversity	17 %	21 %
<u>Management</u>		
Asian	3 %	3 %
Black or African American	8 %	5 %
Hispanic or Latino	6 %	3 %
Two or More Races	6 %	5 %
Diversity	22 %	15 %

We recognize that our diversity journey is ongoing, and we haven't yet reached our full potential. The decline in the overall diversity percentage of our leaders (from 22% in 2022 to 15% in 2023) reflects a decrease from the prior year of 7%. This shift underscores the importance of maintaining momentum in expanding representation across all backgrounds. We are transparent about our data and committed to using it to guide our progress. We will continue to hold ourselves accountable and report regularly on our diversity and inclusion efforts.

Board composition fosters diverse perspectives and strengthens the Board's ability to understand and address the needs of a broad stakeholder base. With 33% female representation among independent directors, the Board demonstrates a dedication to gender equality and harnesses the talents of a wider pool of leadership. The inclusion of 17% Hispanic independent board directors reflects the Company's commitment to diversity in its leadership and aligns with the demographics of its customers and communities

#### Attraction, Retention and Engagement

We are currently operating in an extremely challenging talent market. Market hiring surges, increased attrition and shifting work expectations have significantly impacted the attraction and retention of talent, creating a hyper-competitive marketplace. We understand that our long-term success will require a differentiated, targeted approach to talent attraction and retention. In response to these challenges, we took a number of actions in 2023 in an effort to enhance our ability to attract and retain diverse talent:

- We continued the annual talent review process to advance our internal talent placements, as well as plan for succession and growth. Further, we extended our leadership development program to more managers, of which 78% of the participants identify as a woman and/or of Asian, African or Hispanic heritage.
- We provide a 401(K) matching program to support employees, with a matching contribution of up to 4% of their deferral in the Company's stock.
- Our employees are enthusiastic about enriching their communities. We continued to support a program to recognize their dedication and began matching community service efforts with up to 16 hours of paid time off.

We are committed to providing employment opportunities for people in our local communities. We partner with local technical colleges and universities to offer scholarships, tuition reimbursement and internships to students in the Energy programs and partner with them in showcasing non-traditional careers to achieve gender equity. Our continued support of this scholarship program has awarded four scholarships to date.

Our employees are highly engaged with our mission. We promote discussion and alignment through monthly town hall sessions with all employees, led by our CEO, Patrick Gruber, as well as fostering open-door conversations with all members of management.

Further, we found that our employees could be effective while working outside the Gevo offices. Gevo's management philosophy is to lead with trust in our employees and support a culture which enables employees to do their best work. And, as a company focused on reducing the world's carbon footprint, we hold that value for our employees as well and encourage them to reduce their personal carbon footprint and work from their homes, as their respective positions allow. This policy has allowed us to attract talent we might not otherwise have if we had restricted hiring to certain geographies.

#### **Available Information**

Our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K and any amendments to those reports (including related exhibits and supplemental schedules) filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended, are made available, free of charge, through our website, as soon as reasonably practicable after such reports have been filed with, or furnished to, the SEC. Our website address is www.gevo.com. Information on our website is not incorporated by reference into, and does not constitute a part of, this report.

#### Item 1A. Risk Factors

You should carefully consider the risk factors described below before you decide to invest in our securities. The risks described below are not the only ones facing us. Our business is also subject to the risks that affect many other companies, such as competition, technological obsolescence, labor relations, general economic conditions, geopolitical changes and international operations. Additional risks and uncertainties not presently known to us or that we currently believe are immaterial may also impair our business operations and our liquidity. The risks described below could cause our actual results to differ materially from those contained in the forward-looking statements we have made in this Report, the information incorporated herein by reference and those forward-looking statements we may make from time to time.

#### Risk Related to our Business and Strategy

#### We have a history of net losses, and we may not achieve or maintain profitability.

We incurred net losses of \$66.2 million and \$98.0 million during the years ended December 31, 2023 and 2022, respectively. As of December 31, 2023, we had an accumulated deficit of \$721.6 million. We expect to incur losses and negative cash flows from operating activities for the foreseeable future. We currently derive revenue primarily from the sale of RNG and related environmental attributes produced at Gevo RNG.

Furthermore, we expect to spend significant amounts on the further development and commercial implementation of our strategic plans and technology.

We also expect to spend significant amounts on (i) developing and financing our Net-Zero projects and other similar growth projects, (ii) marketing, general and administrative expenses associated with our planned growth, and (iii) management of operations as a public company. As a result, we expect to continue to incur new losses for the foreseeable future. We do not expect to achieve profitability during the foreseeable future and may never achieve it. If we fail to achieve profitability, or if the time required to achieve profitability is longer than we anticipate, we may not be able to continue our business operations. Even if we do achieve profitability, we may not be able to sustain or increase profitability on a quarterly or annual basis.

We will require substantial additional financings to achieve our goals, and a failure to obtain this capital when needed or on acceptable terms could force us to delay, limit, reduce or terminate our development and commercialization efforts.

We operate in a capital-intensive industry and will continue to need substantial amounts of capital to execute on our business plans. We believe that we will continue to expend substantial resources for the foreseeable future on further growth of our business, including developing, constructing, financing and acquiring facilities necessary for the production of our products on a commercial scale. These expenditures may, among other things, include costs associated with our Net-Zero Projects, research and development, developing biogas processing projects and wind projects, obtaining government and regulatory approvals, and negotiating offtake agreements for our products. In addition, other unanticipated costs may arise.

To date, we have funded our operations primarily through equity offerings and issuances of debt. Based on our current plans and expectations, we will require additional funding at the corporate and/or project level to achieve our goals. We currently expect to finance the construction of NZ1 and any other Net Zero Projects at the subsidiary level using third party capital. In addition, our plans and expectations may change as a result of factors currently unknown to us, and we may need additional funds sooner than expected and may seek to raise additional funds through public or private debt or equity financings. We may also choose to seek additional capital sooner than required due to favorable market conditions or strategic considerations.

Our future capital requirements will depend on many factors, including:

- the timing of and costs involved in financing and constructing our Net-Zero Projects, including NZ1;
- the timing of and costs involved in obtaining permits and compliance with applicable regulations;
- the timing and costs associated with any future capital projects or expansions;

- · the costs involved in maintaining the Luverne Facility;
- our ability to gain market acceptance for our products;
- our ability to negotiate financeable offtake agreements for the products we produce, and the timing and terms of those agreements, including terms related to sales price;
- our ability to negotiate sales of our products and the timing and terms of those sales, including terms related to sales price;
- our ability to establish and maintain strategic partnerships, licensing or other arrangements and the timing and terms of those arrangements; and
- the cost of preparing, filing, prosecuting, maintaining, defending and enforcing patent, trademark and other intellectual property claims, including litigation costs and the outcome of such litigation.

Additional funds may not be available when we need them, on terms that are acceptable to us, or at all. If needed funds are not available to us on a timely basis, we may be required to delay, limit, reduce or terminate:

- our Net-Zero Projects, including NZ1;
- our plans to enter into agreements with strategic partners;
- our development of future capital projects or expansions;
- our efforts to prepare, file, prosecute, maintain and enforce patent, trademark and other intellectual property rights and defend against claims by others that we may be violating their intellectual property rights; and/or
- our activities in negotiating and performing under offtake agreements that may be necessary for the commercialization of our products.

Our business is capital-intensive in nature and we rely on external financing to fund our growth strategy, including the development and construction of our Net-Zero Projects and other similar growth projects. Limitations on access to external financing could adversely affect our operating results.

We are in a capital-intensive business and we rely heavily on external financing for the costs of development and construction of our growth projects, such as NZ1, and other projected capital expenditures. Completion of our growth projects will require significant capital expenditures and construction costs. The recovery of the capital investment in our growth projects will generally occur over a long period of time. As a result, we must obtain funds from external sources to help develop and construct our existing project pipeline, to help finance the acquisition of system components, to help identify and develop new projects, to help fund research and development expenses and to help pay the general and administrative costs of operating our business. We may not be able to obtain the needed funds on terms acceptable to us, or at all. If we are unable to raise additional funds when needed, we could be required to delay development and construction of projects, reduce the scope of, abandon or sell some or all of our growth projects or default on our contractual commitments in the future, any of which would have a material adverse effect on our business, financial condition and operating results.

Our proposed growth projects may not be completed or, if completed, may not perform as expected or achieve profitability. Our project development activities may consume a significant portion of our management's focus, and if not successful, reduce our profitability.

We plan to grow our business by building multiple production facilities, including greenfield and brownfield projects. Development projects may require us to spend significant sums for engineering, permitting, legal, financial advisory and other expenses before we determine whether a development project is feasible, economically attractive or capable of being financed.

Our development projects are typically planned to be large and complex, and we may not be able to complete them. There can be no assurance that we will be able to negotiate the required agreements, overcome any local opposition, or obtain the necessary licenses, permits and financing. Failure to achieve any of these elements may prevent the development and construction of a project. If that were to occur, we could lose all of our investment in development expenditures and may be required to write off project development assets.

## We may be unable to successfully perform under current or future offtake agreements to provide our products, which could harm our commercial prospects.

We have entered into several offtake agreements pursuant to which we agreed to sell our products. Under certain of these offtake agreements, the purchasers agreed to pay for and receive, or cause to be received by a third party, or pay for even if not taken, the renewable hydrocarbon products under contract (a "take-or-pay" arrangement). The timing and volume commitment of certain of these agreements are conditioned upon, and subject to, our ability to complete the construction of a new or expanded production facility (the "Facility"). However, in order to commence construction of and complete the Facility, we must secure third-party financing. We cannot assure you that we will be able to obtain adequate financing on favorable terms, or at all. Furthermore, we have not demonstrated that we can meet the production levels and specifications contemplated in certain of our current offtake agreements, or future offtake agreements. If our production is slower than we expect, we experience production delays, if demand decreases or if we encounter difficulties in successfully completing the Facility or producing our renewable hydrocarbon products to specification, our counterparties may terminate our existing offtake agreements and potential customers may be less willing to negotiate definitive offtake agreements with us, which would adversely impact our performance and results of operations.

In addition, from time to time, we may enter into letters of intent, memoranda of understanding and other largely non-binding agreements or understandings with potential customers or partners in order to develop our business and the markets that we serve. We can make no assurance that legally binding, definitive agreements reflecting the terms of such non-binding agreements will be completed with such customers or partners, or at all.

## Our offtake agreements, including our take-or-pay purchase agreements, are subject to significant conditions precedent and, as a result, the revenues that we expect from such contracts may never be realized.

Our ability to realize revenue under our offtake agreements, including our take-or-pay purchase agreements, is not guaranteed and is subject to significant conditions precedent. In order to actually realize revenue under such contracts, we are required to, among other things, complete the Facility or acquire, construct or retrofit a production facility at another suitable location, which is, in turn, dependent on our ability to secure adequate financing. If we are unable to raise sufficient capital on acceptable terms, or at all, the revenues under such contracts may never be achieved. Our ability to obtain adequate financing will depend on, among other things, the status of our product development, market conditions for our products, our financial condition and general conditions in the capital, financial and debt markets at the time such financing is sought. In addition, any further equity or debt financings could result in the dilution of ownership interests of our then-current stockholders. Furthermore, even if we are able to satisfy all conditions precedent to our take-or-pay contracts, including completion of the Facility or acquiring, constructing or retrofitting a production facility at another suitable location and securing adequate funding, we still may never realize the full amount of revenue that we expect or project to earn from such contracts. In any event, our failure to realize the expected revenue under our offtake agreements would have a material adverse effect on our business, financial condition, results of operation and liquidity.

#### Fluctuations in the price of corn and other feedstocks may affect our cost structure.

Our approach to the renewable fuels and chemicals markets is dependent on the price of corn and other feedstocks that will be used to produce our products. A decrease in the availability of plant feedstocks or an increase in price may have a material adverse effect on our financial condition and operating results. At certain levels, prices may make these products uneconomical to use and produce and we may be unable to pass the full amount of feedstock cost increases on to our customers, which would make it unprofitable for us to operate in these markets. In addition, passing along increased pricing to our customers could result in fewer or reduced orders or customer loss altogether. No assurance can be given that we will be able to purchase corn and other feedstocks at or near prices which would provide us with positive margins.

The price and availability of corn and other plant feedstocks may be influenced by general economic, market and regulatory factors. These factors include weather conditions, pests, global or regional growing conditions, including plant disease, farming decisions, government policies and subsidies with respect to agriculture and international trade, increasing input costs, prices for alternative crops, global political or economic issues and conflicts and shifts in global

demand and supply. For example, corn prices may increase significantly in response to drought conditions in the midwestern region of the U.S. and any resulting decrease in the supply of corn could lead to the restriction of corn supplies, which in turn could cause further increases in the price of corn. The significance and relative impact of these factors on the price of plant feedstocks is difficult to predict.

#### Fluctuations in petroleum prices and customer demand patterns may reduce demand for renewable fuels.

Our renewable fuels may be considered an alternative to petroleum-based fuels. Therefore, if the price of oil falls, any revenues that we generate from renewable fuel products could decline and we may be unable to produce products that are a commercially viable alternative to petroleum-based fuels. In such cases, we may not be able to offer our customers an attractive price for our fuels, market adoption of our fuels could be slowed or limited and/or we may be forced to reduce the prices at which we sell our fuels in order to try to attract new customers or prevent the loss of demand from existing customers. Additionally, demand for liquid transportation fuels, including renewable fuels, may decrease due to economic conditions or other factors outside of our control, which could have a material adverse impact on our business and results of operations.

Any decline in the value of carbon credits associated with our products could have a material adverse effect on our results of operations, cash flow and financial condition.

The sale of our products is often dependent on the value of carbon credits under the RFS Program, LCFS and other similar regulatory regimes. The value of these credits fluctuates based on market forces outside of our control. There is a risk that the supply of low-carbon alternative fuels outstrips demand, resulting in the value of carbon credits declining. Any decline in the value of carbon credits associated with our products could have a material adverse effect on our results of operations, cash flow and financial condition.

#### We may not be successful in the commercialization of alcohol-to-SAF projects utilizing Axens technology.

Our future success on alcohol-to-SAF projects depends on, among other things, our ability to produce commercial quantities of SAF from ethanol using Axens technology. We may encounter challenges in scaling up the Axens technology and/or the technology may not work as expected, or at all on a commercial scale. In addition, the cost to construct commercial alcohol-to-SAF facilities or the production costs associated with the operation of such facilities may be higher than we project. If we encounter such difficulties in scaling or constructing alcohol-to-SAF projects, it could significantly affect our profitability and have a material adverse impact on our business and results of operations.

The technological and logistical challenges associated with producing, marketing, selling and distributing renewable hydrocarbon products are complex, and we may not be able to resolve any difficulties that arise in a timely or cost-effective manner, or at all.

We have limited experience operating, and have never built, a commercial renewable hydrocarbon facility. We believe that we understand the engineering and process characteristics necessary to successfully build the additional facilities that we are contemplating and to scale up to larger facilities. Our assumptions, however, may prove to be incorrect. Accordingly, we cannot be certain that we will be able to consistently produce renewable hydrocarbon products in an economical manner in commercial quantities. In addition, we expect to incur significant capital expenditures to build out our Net-Zero projects and produce renewable hydrocarbon products. If we fail to build or scale up the facilities required to produce our renewable hydrocarbon products or are unable to consistently produce renewable hydrocarbon products economically on a commercial scale or in commercial volumes, our commercialization of renewable hydrocarbon products and our business, financial condition and results of operations will be materially adversely affected.

Our actual costs may be greater than expected in developing our growth projects, causing us to realize significantly lower profits or greater losses on our projects.

We generally must estimate the costs of completing a specific project to prior to the construction of the project. The actual cost of labor and materials and other important costs may vary from the costs we originally estimated. These

variations may cause the gross profit of a project to materially differ from what we originally estimated. Cost overruns on our growth projects could occur due to changes in a variety of factors such as:

- failure to properly estimate costs of engineering, materials, equipment, labor or financing;
- unanticipated technical problems with the structures, materials or services;
- unanticipated project modifications;
- changes in the costs of equipment, materials, labor or contractors;
- our suppliers' or contractors' failure to perform;
- changes in laws and regulations; and
- delays caused by weather conditions.

As projects grow in size and complexity, multiple factors may contribute to reduced profit or greater losses, and depending on the size of the particular project, variations from the estimated project costs could have a material adverse effect on our business. For example, if project costs exceed our estimates, it could cause us to realize significantly lower profits or greater losses on our projects.

#### We may be unable to produce renewable hydrocarbon products in accordance with customer specifications.

We may be unable to produce renewable hydrocarbon products to meet customer specifications, including those defined in ASTM D7862 "Standard Specification for Butanol for Blending with Gasoline for Use as Automotive Spark-Ignition Engine Fuel," ASTM D7566 "Standard Specifications for Aviation Turbine Fuel Containing Synthesized Hydrocarbons" or specifications to carbon intensity standards. We may need to add additional processing steps or incur capital expenditures in order to meet customer specifications which could add significant costs to our production process. If we fail to meet specific product or volume specifications contained in an offtake agreement, the customer may have the right to seek an alternate supply of renewable hydrocarbon products and/or terminate the agreement completely, and we could be required to pay shortfall fees or otherwise be subject to damages. A failure to successfully meet the specifications of our potential customers could decrease demand, hinder market adoption of our products, and harm our reputation, thus having a material adverse impact on our business and results of operations.

# Our experience may not be sufficient to operate commercial-scale facilities and we may encounter substantial difficulties operating commercial plants or expanding our business.

We have limited experience operating commercial-scale RNG and renewable hydrocarbon facilities concurrently. Accordingly, we may encounter significant difficulties operating at a commercial scale once we expand our production capabilities, including at our Gevo RNG and Net-Zero Projects. The skills and knowledge gained in operating our current facilities may not be sufficient to support the for successful operation of a large-scale production facility or the Facility, and we may be required to expend significant time and money to develop our capabilities in large-scale facility operation. We may also need to hire new employees or contract with third parties to help manage our operations, and our performance will suffer if we are unable to hire qualified parties or if they perform poorly. Any production delays or volume or other issues resulting from our inability to operate at a commercial scale could result in additional capital expenditures and investment, reduced sales volumes, loss of customers, harm to our reputation and could have a material adverse impact on our financial condition and results of operations.

In addition, integrating new facilities with our existing operations may prove difficult. Rapid growth, resulting from our operation of, or other involvement with, renewable hydrocarbon facilities or otherwise, may impose a significant burden on our administrative and operational resources. To effectively manage our growth and execute our expansion plans, we will need to expand our administrative and operational resources substantially and attract, train, manage and retain qualified management, technicians and other personnel. We may be unable to do so. Failure to meet the operational challenges of developing and managing increased production, or failure to otherwise manage our growth, may have a material adverse effect on our business, financial condition and results of operations.

Even if we are successful in producing our products on a commercial scale, we may not be successful in negotiating additional fuel offtake agreements or pricing terms to support the growth of our business.

We expect that many of our customers will be large companies with extensive experience operating in the fuels or chemicals markets. We lack significant commercial operating experience and may face difficulties in developing marketing expertise in these fields. Our business model relies upon our ability to successfully negotiate, structure and fulfill long-term offtake agreements for our products. Certain agreements with existing and potential customers may initially only provide for the purchase of limited quantities from us. Our ability to increase our sales will depend in large part upon our ability to retain existing customers and expand these existing customer relationships into long-term offtake agreements. Maintaining and expanding our existing relationships and establishing new ones can require substantial investment without any assurance from customers that they will place significant orders. In addition, many of our potential customers may be more experienced in these matters than we are, and we may fail to successfully negotiate these agreements in a timely manner or on favorable terms which, in turn, may force us to slow our production, dedicate additional resources to increasing our storage capacity and/or dedicate resources to sales in spot markets. Furthermore, should we become more dependent on spot market sales, our profitability will become increasingly vulnerable to short-term fluctuations in the price and demand for petroleum-based fuels and competing substitutes.

If we engage in acquisitions, we will incur a variety of costs and may potentially face numerous risks that could adversely affect our business and operations.

If appropriate opportunities become available, we may acquire businesses, assets, technologies or products to enhance our business in the future. In connection with any future acquisitions, we could, subject to certain limitations in the agreements governing our indebtedness at such time:

- issue additional equity securities which would dilute our current stockholders;
- incur substantial debt to fund the acquisitions; or
- · assume significant known or unknown liabilities.

Acquisitions involve numerous risks, including problems integrating the purchased operations, technologies or products, unanticipated costs and other liabilities, diversion of management's attention from our core business, adverse effects on existing business relationships with current and/or prospective partners, customers and/or suppliers, risks associated with entering markets in which we have no or limited prior experience and potential loss of key employees. Other than our acquisition of the Luverne Facility, we have not engaged in acquisitions in the past, and do not have experience in managing the integration process. Therefore, we may not be able to successfully integrate any businesses, assets, products, technologies or personnel that we might acquire in the future without a significant expenditure of operating, financial and management resources, if at all. The integration process could divert management time from focusing on operating our business, result in a decline in employee morale and cause retention issues to arise from changes in compensation, reporting relationships, future prospects or the direction of the business. In addition, we may acquire companies that have insufficient internal financial controls, which could impair our ability to integrate the acquired company and adversely impact our financial reporting. If we fail in our integration efforts with respect to acquisitions and are unable to efficiently operate as a combined organization, our business, financial condition and results of operations may be materially adversely affected.

If we engage in joint ventures, we will incur a variety of costs and may potentially face numerous risks that could adversely affect our business and operations.

If appropriate opportunities become available, we may enter into joint ventures with various parties. Realizing the anticipated benefits of joint ventures involves a number of potential challenges. The failure to meet these challenges could seriously harm our financial condition and results of operations. In addition, these arrangements typically involve restrictions on actions that the joint venture may take without the approval of the other parties, which could limit our ability to manage the joint venture in a manner that serves our best interests. Finally, joint ventures are complex and time

consuming and we may encounter unexpected difficulties or incur unexpected costs related to such arrangements, including:

- difficulties negotiating joint venture agreements with favorable terms and establishing relevant performance metrics;
- the inability to meet applicable performance targets;
- difficulties obtaining the permits and approvals required to produce and sell products in different geographic areas;
- complexities associated with managing the potential geographic separation of facilities;
- diversion of management attention from ongoing business concerns to matters related to the joint ventures;
- difficulties maintaining effective relationships with personnel from different corporate cultures; and
- the inability to generate sufficient revenue to offset retrofit costs.

If we lose key personnel, including key management personnel, or are unable to attract and retain additional personnel, it could delay our product development programs and harm our research and development efforts, make it more difficult to pursue partnerships or develop our own products or otherwise have a material adverse effect on our business.

Our business is complex and we intend to target a variety of markets. Therefore, it is critical that our management team and employee workforce are knowledgeable in the areas in which we operate. The departure, illness or absence of any key members of our management, including our named executive officers, or the failure to attract or retain other key employees who possess the requisite expertise for the conduct of our business, could prevent us from developing and commercializing our products for our target markets and entering into partnerships or licensing arrangements to execute our business strategy, as could the loss of any key scientific staff, or the failure to attract or retain other key scientific employees. We may not be able to attract or retain qualified employees in the future due to the intense competition for qualified personnel among biotechnology and other technology-based businesses, particularly in the advanced renewable fuels area, or due to the limited availability of personnel with the qualifications or experience necessary for our renewable chemicals and advanced renewable fuels business. If we are not able to attract and retain the necessary personnel to accomplish our business objectives, we may experience staffing constraints that will adversely affect our ability to meet the demands of our partners and customers in a timely fashion or to support our internal research and development programs. In particular, our product and process development programs are dependent on our ability to attract and retain highly skilled scientists. Competition for experienced scientists and other technical personnel from numerous companies and academic and other research institutions may limit our ability to do so on acceptable terms. All of our employees are at-will employees, meaning that either the employee or we may terminate their employment at any time.

Our planned activities will require additional expertise in specific industries and areas applicable to the products and processes developed through our technology platform or acquired through strategic or other transactions, especially in the end markets that we seek to penetrate. These activities will require the addition of new personnel, and the development of additional expertise by existing personnel. The inability to attract personnel with appropriate skills or to develop the necessary expertise could impair our ability to grow our business

We may face substantial competition from companies with greater resources and financial strength, which could adversely affect our performance and growth.

We may face substantial competition in the markets for renewable hydrocarbon products. Our competitors include companies in the incumbent petroleum-based industry as well as those in the nascent renewable fuels industry. The incumbent petroleum-based industry benefits from a large established infrastructure, production capability and business relationships. The incumbents' greater resources and financial strength provide significant competitive advantages that we may not be able to overcome in a timely manner. Academic and government institutions may also develop technologies which will compete with us.

Our ability to compete successfully will depend on our ability to develop proprietary products that reach the market in a timely manner and are technologically superior to and/or are less expensive than other products on the market. Many of our competitors have substantially greater production, financial, research and development, personnel

and marketing resources than we do. In addition, certain of our competitors may also benefit from local government subsidies and other incentives that are not available to us. As a result, our competitors may be able to develop competing and/or superior technologies and processes, and compete more aggressively and sustain that competition over a longer period of time than we could. Our technologies and products may be rendered obsolete or uneconomical by technological advances or entirely different approaches developed by one or more of our competitors. As more companies develop new intellectual property in our markets, the possibility of a competitor acquiring patent or other rights that may limit our products or potential products increases, which could lead to litigation. Furthermore, to secure purchase agreements from certain customers, we may be required to enter into exclusive supply contracts, which could limit our ability to further expand our sales to new customers. Likewise, major potential customers may be locked into long-term, exclusive agreements with our competitors, which could inhibit our ability to compete for their business.

In addition, various governments have recently announced a number of spending programs focused on the development of clean technologies, including alternatives to petroleum-based fuels and the reduction of carbon emissions. Such spending programs could lead to increased funding for our competitors or a rapid increase in the number of competitors within those markets.

Our limited resources relative to many of our competitors may cause us to fail to anticipate or respond adequately to new developments and other competitive pressures. This failure could reduce our competitiveness and market share, adversely affect our results of operations and financial position and prevent us from obtaining or maintaining profitability.

#### Business interruptions may have an adverse impact on our business and our financial results.

We are vulnerable to natural disasters and other events that could disrupt our operations, such as riots, civil disturbances, war, terrorist acts, pandemics and other public health crises, weather conditions, electricity rationing, floods, infections in our laboratory or production facilities or those of our contract manufacturers and other events beyond our control. We do not have a detailed disaster recovery plan. In addition, we may not carry sufficient business interruption insurance to compensate us for losses that may occur. Any losses or damages we incur could have a material adverse effect on our cash flows and success as an overall business.

#### Our business and operations would suffer in the event of IT system failures or a cyber-attack.

Our business is dependent on proprietary technologies, processes and information that we have developed, much of which is stored on our computer systems. We also have entered into agreements with third parties for hardware, software, telecommunications and other information technology ("IT") services in connection with our operations. Our operations depend, in part, on how well we and our vendors protect networks, equipment, IT systems and software against damage from a number of threats, including, but not limited to, cable cuts, damage to physical plants, natural disasters, intentional damage and destruction, fire, power loss, hacking, computer viruses, vandalism, theft, malware, ransomware and phishing attacks. Any of these and other events could result in IT system failures, delays, a material disruption of our business or increases in capital expenses. Our operations also depend on the timely maintenance, upgrade and replacement of networks, equipment and IT systems and software, as well as preemptive expenses to mitigate the risks of failures.

Furthermore, the importance of such information technology systems and networks and systems has increased due to many of our employees working remotely. Additionally, if one of our service providers were to fail and we were unable to find a suitable replacement in a timely manner, we could be unable to properly administer our outsourced functions.

As cyber threats continue to evolve, we may be required to expend significant additional resources to continue to modify or enhance our protective measures or to investigate and remediate any information security vulnerabilities. While we have implemented security resources to protect our data security and information technology systems, such measures may not prevent such events. Significant disruption to our IT system or breaches of data security could have a material adverse effect on our business, financial condition and results of operations.

#### We may engage in hedging transactions, which could adversely impact our business.

In the future, we may engage in hedging transactions to offset some of the effects of volatility in commodity prices. Hedging activities may cause us to suffer losses, such as if we purchase a position in a declining market or sell a position in a rising market. Furthermore, hedging would expose us to the risk that we may have under- or over-estimated our need for a specific commodity or that the other party to a hedging contract may default on its obligation. If there are significant swings in commodity prices, or if we purchase more corn for future delivery than we can process, we may have to pay to terminate a futures contract, resell unneeded corn inventory at a loss or produce our products at a loss, all of which would have a material adverse effect on our financial performance. We may vary the hedging strategies we undertake, which could leave us more vulnerable to increases in commodity prices or decreases in the prices of our products. Future losses from hedging activities and changes in hedging strategy could have a material adverse effect on our operations.

Ethical, legal and social concerns about genetically engineered products and processes, and similar concerns about feedstocks grown on land that could be used for food production, could limit or prevent the use of our products, processes and technologies and limit our revenues.

Some of our processes involve the use of genetically engineered organisms or genetic engineering technologies. Additionally, our feedstocks may be grown on land that could be used for food production, which subjects our feedstock sources to "food versus fuel" concerns. If we are not able to overcome the ethical, legal and social concerns relating to genetic engineering or food versus fuel, our products and processes may not be accepted widely enough for our business to be profitable, or at all. Any of the risks discussed below could result in increased expenses, delays or other impediments to our programs or the public acceptance and commercialization of products and processes dependent on our technologies or inventions.

Our ability to develop and commercialize one or more of our technologies, products or processes could be limited by the following factors:

- public attitudes about the safety and environmental hazards of, and ethical concerns over, genetic research and genetically
  engineered products and processes, which could influence public acceptance of our technologies, products and processes;
- public attitudes regarding and potential changes to laws governing ownership of genetic material, which could harm our
  intellectual property rights with respect to our genetic material and discourage others from supporting, developing or
  commercializing our products, processes and technologies;
- public attitudes and ethical concerns surrounding production of feedstocks on land which could be used to grow food, which could influence public acceptance of our technologies, products and processes;
- governmental reaction to negative publicity concerning genetically engineered organisms, which could result in greater government regulation of genetic research and derivative products; and
- governmental reaction to negative publicity concerning feedstocks produced on land which could be used to grow food, which
  could result in greater government regulation of feedstock sources.

The subjects of genetically engineered organisms and food versus fuel have received negative publicity, which has aroused public debate. Any negative publicity (even if relating to the actions or products of a competitor or partner) could have a negative impact on our business and/or perceptions of our products. This could result in lower revenue and profits. This adverse publicity could also lead to greater regulation and trade restrictions on imports of genetically engineered products or feedstocks grown on land suitable for food production. Additionally, the use of social media platforms and similar devices, provide an opportunity for the immediate and farreaching dissemination of information, including inaccurate information. Information concerning us or our products may be posted on such platforms at any time, and such information may be adverse to our interests or may be inaccurate, each of which may harm our performance, prospects, or business. The harm may be immediate without affording us an opportunity for redress or correction.

The biocatalysts that we develop have significantly enhanced characteristics compared to those found in naturally occurring enzymes or microbes. While we produce our biocatalysts only for use in a controlled industrial environment, the release of such biocatalysts into uncontrolled environments could have unintended consequences. Any

adverse effect resulting from such a release could have a material adverse effect on our business and financial condition, and we may be exposed to liability for any resulting harm.

## As our products have not previously been used as a commercial fuel in significant amounts, their use subjects us to product liability risks

SAF has not been used as a commercial fuel in large quantities or for a long period of time. Research regarding SAF and its distribution infrastructure is ongoing. Although SAF has been tested on some engines, there is a risk that SAF may damage engines or otherwise fail to perform as expected. If SAF degrades the performance or reduces the life-cycle of engines, or cause them to fail to meet emissions standards, market acceptance could be slowed or stopped, and we could be subject to product liability claims. A significant product liability lawsuit could substantially impair our production efforts and could have a material adverse effect on our business, reputation, financial condition and results of operations.

#### We may not be able to use some or all of our net operating loss carry-forwards to offset future income.

We have net operating loss carryforwards due to prior period losses generated before January 1, 2023, which if not utilized will begin to expire at various times over the next 20 years. If we are unable to generate sufficient taxable income to utilize our net operating loss carryforwards, these carryforwards could expire unused and be unavailable to offset future income tax liabilities.

In addition, under Section 382 of the Internal Revenue Code of 1986, as amended (the "Code"), a corporation that undergoes an "ownership change" (generally defined as a greater than 50% change (by value) in its equity ownership over a three-year period) is subject to limitation on its ability to utilize its pre-change net operating loss carry-forwards, or net operating losses, to offset future taxable income. We undertook a detailed study of our net operating loss carryforwards through December 31, 2023 to determine whether such amounts are likely to be limited by Section 382 of the Code. As a result of this analysis, we currently believe any Section 382 of the Code limitations will significantly impact our ability to offset income with available net operating loss carryforwards. We have experienced more than one ownership change in prior years, and the issuance of shares in connection with our initial public offering itself triggered an ownership change. In addition, future changes in our stock ownership, which may be outside of our control, may trigger an ownership change, as may future equity offerings or acquisitions that have equity as a component of the purchase price.

# Competitiveness of our products for fuel use (including RNG) depends in part on government economic incentives for renewable energy projects or other related policies that could change.

We depend, in part, on international, federal, state and local government incentives, including but not limited to RINs, LCFS credits in California, Clean Fuel Program credits in Oregon, Renewable Energy Credits ("RECs"), rebates, tax credits and other incentives to end users, distributors, system integrators and manufacturers of renewable energy projects, that promote the use of renewable energy. These government economic incentives could be reduced or eliminated altogether, or the categories of renewable energy qualifying for such government economic incentives could be changed. These renewable energy program incentives are subject to regulatory oversight and could be administratively or legislatively changed in a manner that could have a material adverse effect on our operations. Reductions in, changes to, or eliminations or expirations of governmental incentives could result in decreased demand for, and lower revenues from, our projects and products. Further, our ability to generate revenue from the various government economic incentives depends on our strict compliance with the applicable federal and state programs, which are complex and can involve a significant degree of judgment. If the agencies that administer and enforce these programs disagree with our judgments, otherwise determine that we are not in compliance, conduct reviews of our activities or make changes to the programs, then our ability to generate revenue from the economic incentives could be temporarily restricted pending completion of reviews or as a penalty, permanently limited or lost entirely, and we could also be subject to fines or other sanctions.

In addition, we may be required to register our projects or qualify our products with the federal government, various states or other countries. Delays in obtaining registration or qualification of our projects or products could delay future revenues and could adversely affect our cash flows. Further, we typically make a large investment in our projects

prior to receiving registration and/or qualification. Failure of our projects or products to qualify for government economic incentives could have a material adverse effect on our business.

#### In order to benefit from RINs and LCFS credits, our RNG projects are required to be registered and are subject to regulatory audit.

We are required to register an RNG project with the EPA and relevant state regulatory agencies. Further, we qualify our RINs through a voluntary Quality Assurance Plan. By registering our RNG project with the EPA's voluntary Quality Assurance Plan, we are subject to quarterly third-party audits and semi-annual on-site visits of our projects to validate generated RINs and overall compliance with the RFS program. We are also subject to a separate third party's annual attestation review. The Quality Assurance Plan provides a process for RIN owners to follow, for an affirmative defense to civil liability, if used or transferred Quality Assurance Plan verified RINs were invalidly generated. A project's failure to comply could result in remedial action by the EPA, including penalties, fines, retirement of RINs, or termination of the project's registration, any of which could adversely affect our business, financial condition and results of operations.

#### Our RNG project has, and any future digester project may not be able to achieve the operating results we expect from these projects.

Our RNG project is dependent on the LCFS credits and RINs produced at the dairy farms that make up part of our RNG project. In the event that CARB reduces the CI score that it applies to waste conversion projects, such as dairy digesters, the number of LCFS credits for RNG generated at our RNG project will decline. Additionally, revenue from LCFS credits also depends on the price per LCFS credit, which is driven by various market forces, including the supply of and demand for LCFS credits, which in turn depends on the demand for traditional transportation fuel and the supply of renewable fuel from other renewable energy sources, and mandated CI targets, which determine the number of LCFS credits required to offset LCFS deficits, and which increase over time. A significant decline in the value of LCFS credits could require us to incur an impairment charge on our RNG project and could adversely affect our business, financial condition and results of operations.

#### **Risks Related to Intellectual Property**

Our ability to compete may be adversely affected if we are unsuccessful in defending against any claims by competitors or others that we are infringing upon their intellectual property rights.

The various bioindustrial markets in which we operate or plan to operate are subject to frequent and extensive litigation regarding patents and other intellectual property rights. In addition, many companies in intellectual property-dependent industries, including the renewable energy industry, have employed intellectual property litigation as a means to gain an advantage over their competitors. As a result, we may be required to defend against claims of intellectual property infringement that may be asserted by our competitors against us and, if the outcome of any such litigation is adverse to us, it may affect our financial condition and our ability to compete effectively.

Litigation, interferences, opposition proceedings or other intellectual property proceedings inside and outside of the U.S. may divert management time from focusing on business operations, could cause us to spend significant amounts of money and may have no guarantee of success. Any future intellectual property litigation could also force us to do one or more of the following:

- stop selling, incorporating, manufacturing or using our products that use the subject intellectual property;
- obtain from a third party asserting its intellectual property rights, a license to sell or use the relevant technology, which license
  may not be available on reasonable terms, or at all;
- redesign those products or processes that use any allegedly infringing or misappropriated technology, which may result in significant cost or delay to us, or which redesign could be technically infeasible;
- · pay attorneys' fees and expenses; or
- pay damages, including the possibility of treble damages in a patent case if a court finds us to have willfully infringed certain intellectual property rights.

We are aware of a significant number of patents and patent applications relating to aspects of our technologies filed by, and issued to, third parties. We cannot assure you that we will ultimately prevail if any of this third-party intellectual property is asserted against us.

Our ability to compete may be adversely affected if we do not adequately protect our proprietary technologies or if we lose some of our intellectual property rights through costly litigation or proceedings.

Our success will depend in part on our ability to obtain patents and maintain adequate protection of our intellectual property covering our technologies and products and potential products in the U.S. and other countries. We have adopted a strategy of seeking patent protection in the U.S. and in certain foreign countries with respect to certain of the technologies used in or relating to our products and processes. We own rights to hundreds of issued patents and filed patent applications in the U.S. and in various foreign jurisdictions. When and if issued, patents would expire at the end of their term and any patent would only provide us commercial advantage for a limited period of time, if at all. Our patent applications are directed to our enabling technologies and to our methods and products which support our business in the advanced renewable fuels and renewable chemicals markets. We intend to continue to apply for patents relating to our technologies, methods and products as we deem appropriate.

Only some of the patent applications that we have filed in the U.S. or in any foreign jurisdictions, and only certain of the patent applications filed by third parties in which we own rights, have been issued. A filed patent application does not guarantee a patent will issue and a patent issuing does not guarantee its validity, nor does it give us the right to practice the patented technology or commercialize the patented product. Third parties may have or obtain rights to "blocking patents" that could be used to prevent us from commercializing our products or practicing our technology. The scope and validity of patents and success in prosecuting patent applications involve complex legal and factual questions and, therefore, issuance, coverage and validity cannot be predicted with any certainty. Patents issuing from our filed applications may be challenged, invalidated or circumvented. Moreover, third parties could practice our inventions in secret and in territories where we do not have patent protection. Such third parties may then try to sell or import products made using our inventions in and into the U.S. or other territories and we may be unable to prove that such products were made using our inventions. Additional uncertainty may result from implementation of the Leahy-Smith America Invents Act, enacted in September 2011, as well as other potential patent reform legislation passed by the U.S. Congress and from legal precedent handed down by the Federal Circuit Court and the U.S. Supreme Court, as they determine legal issues concerning the scope, validity and construction of patent claims. Because patent applications in the U.S. and many foreign jurisdictions are typically not published until 18 months after filing, or in some cases not at all, and because publication of discoveries in the scientific literature often lags behind the actual discoveries, there is additional uncertainty as to the validity of any patents that may issue and the potential for "blocking patents" coming into force at some future date. Accordingly, we cannot ensure that any of our currently filed or future patent applications will result in issued patents, or even if issued, predict the scope of the claims that may issue in our and other companies' patents. Any proceedings challenging our patents may result in the claims being amended or canceled. If the claims are amended or canceled, the scope of our patent claims may be narrowed, which may reduce the scope of protection afforded by our patent portfolio. Given that the degree of future protection for our proprietary rights is uncertain, we cannot ensure that (i) we were the first to make the inventions covered by each of our filed applications, (ii) we were the first to file patent applications for these inventions, (iii) the proprietary technologies we develop will be patentable, (iv) any patents issued will be broad enough in scope to provide commercial advantage and prevent circumvention, and (v) competitors and other parties do not have or will not obtain patent protection that will block our development and commercialization activities.

These concerns apply equally to patents we have licensed, which may likewise be challenged, invalidated or circumvented, and the licensed technologies may be obstructed from commercialization by competitors' "blocking patents." In addition, we generally do not control the patent prosecution and maintenance of subject matter that we license from others. Generally, the licensors are primarily or wholly responsible for the patent prosecution and maintenance activities pertaining to the patent applications and patents we license, while we may only be afforded opportunities to comment on such activities. Accordingly, we are unable to exercise the same degree of control over licensed intellectual property as we exercise over our own intellectual property and we face the risk that our licensors will not prosecute or maintain it as effectively as we would like.

In addition, unauthorized parties may attempt to copy or otherwise obtain and use our products or technology. Monitoring unauthorized use of our intellectual property is difficult, particularly where, as here, the end products reaching the market generally do not reveal the processes used in their manufacture, and particularly in certain foreign countries where the local laws may not protect our proprietary rights as fully as in the U.S., so we cannot be certain that the steps we have taken in obtaining intellectual property and other proprietary rights will prevent unauthorized use of our technology. If competitors are able to use our technology without our authorization, our ability to compete effectively could be adversely affected and our business could be harmed. Moreover, competitors and other parties such as universities may independently develop and obtain patents for technologies that are similar to or superior to our technologies. If that happens, the potential competitive advantages provided by our intellectual property may be adversely affected. We may then need to license these competing technologies, and we may not be able to obtain licenses on reasonable terms, if at all, which could cause material harm to our business. Accordingly, litigation may be necessary for us to assert claims of infringement, enforce patents we own or license, protect trade secrets or determine the enforceability, scope and validity of the intellectual property rights of others.

Our commercial success also depends in part on not infringing patents and proprietary rights of third parties, and not breaching any licenses or other agreements that we have entered into with regard to our technologies, products and business. We cannot be certain that patents have not or will not be issued to third parties that could block our ability to obtain patents or to operate our business as we would like, or at all. There may be patents in some countries that, if valid, may block our ability to commercialize products in those countries if we are unsuccessful in circumventing or acquiring rights to these patents. There may also be claims in patent applications filed in some countries that, if granted and valid, may also block our ability to commercialize products or processes in these countries if we are unable to circumvent or license them.

As is commonplace in the biotechnology industries, some of our directors, employees and consultants are or have been employed at, or associated with, companies and universities that compete with us or have or will develop similar technologies and related intellectual property. While employed at these companies, these employees, directors and consultants may have been exposed to or involved in research and technology similar to the areas of research and technology in which we are engaged. Though we have not received such a complaint, we may be subject to allegations that we, our directors, employees or consultants have inadvertently or otherwise used, misappropriated or disclosed alleged trade secrets or confidential or proprietary information of those companies. Litigation may be necessary to defend against such allegations and the outcome of any such litigation would be uncertain.

Under some of our research agreements, our partners share joint rights in certain intellectual property we develop. Such provisions may limit our ability to gain commercial benefit from some of the intellectual property we develop and may lead to costly or time-consuming disputes with parties with whom we have commercial relationships over rights to certain innovations.

If any other party has filed patent applications or obtained patents that claim inventions also claimed by us, we may have to participate in interference, derivation or other proceedings declared by the USPTO to determine priority of invention and, thus, the right to the patents for these inventions in the U.S. These proceedings could result in substantial cost to us even if the outcome is favorable. Even if successful, such a proceeding may result in the loss of certain claims. Even successful outcomes of such proceedings could result in significant legal fees and other expenses, diversion of management time and efforts and disruption in our business. Uncertainties resulting from initiation and continuation of any patent or related litigation could harm our ability to compete and have an adverse impact on our financial condition.

### We may not be able to enforce our intellectual property rights throughout the world.

The laws of some foreign countries do not protect intellectual property rights to the same extent as federal and state laws in the U.S. Many companies have encountered significant problems in protecting and enforcing intellectual property rights in certain foreign jurisdictions, and, particularly with any future international partners, we may face new and increased risks and challenges in protecting and enforcing our intellectual property rights abroad. The legal systems of certain countries, particularly certain developing countries, do not favor the enforcement of patents and other intellectual property protection, particularly those relating to bioindustrial technologies. This could make it difficult for us to stop the infringement of our patents or misappropriation of our other intellectual property rights. Proceedings to enforce our patents and other proprietary rights in foreign jurisdictions could result in substantial costs and divert our

efforts and attention from other aspects of our business. Accordingly, our efforts to enforce our intellectual property rights in such countries may be inadequate to obtain a significant commercial advantage from the intellectual property that we develop.

## Confidentiality agreements with employees and others may not adequately prevent disclosures of trade secrets and other proprietary information.

We rely in part on trade secret protection to protect our confidential and proprietary information and processes. However, trade secrets are difficult to protect. We have taken measures to protect our trade secrets and proprietary information, but these measures may not be effective. We require new employees and consultants to execute confidentiality agreements upon the commencement of an employment or consulting arrangement with us. These agreements generally require that all confidential information developed by the individual or made known to the individual by us during the course of the individual's relationship with us be kept confidential and not disclosed to third parties. These agreements also generally provide that know-how and inventions conceived by the individual in the course of rendering services to us shall be our exclusive property. Nevertheless, these agreements may not be enforceable, our proprietary information may still be disclosed, third parties could reverse engineer our biocatalysts and others may independently develop substantially equivalent proprietary information and techniques or otherwise gain access to our trade secrets. Costly and time-consuming litigation could be necessary to enforce and determine the scope of our proprietary rights, and failure to obtain or maintain trade secret protection could adversely affect our competitive business position. In addition, an unauthorized breach in our information technology systems may expose our trade secrets and other proprietary information to unauthorized parties. Any exposure of our trade secrets or other proprietary information could harm our competitive position and have an adverse impact on our financial condition.

#### We have received funding from U.S. government agencies, which could negatively affect our intellectual property rights.

Some of our research has been funded by grants from U.S. government agencies. When new technologies are developed with U.S. government funding, the government obtains certain rights in any resulting patents and technical data, generally including, at a minimum, a nonexclusive license authorizing the government to use the invention or technical data for noncommercial purposes. U.S. government funding must be disclosed in any resulting patent applications, and our rights in such inventions will normally be subject to government license rights, periodic progress reporting, foreign manufacturing restrictions and march-in rights. March-in rights refer to the right of the U.S. government, under certain limited circumstances, to require us to grant a license to technology developed under a government grant to a responsible applicant or, if we refuse, to grant such a license itself. March-in rights can be triggered if the government determines that we have failed to work sufficiently towards achieving practical application of a technology or if action is necessary to alleviate health or safety needs, to meet requirements of federal regulations or to give preference to U.S. industry. If we breach the terms of our grants, the government may gain rights to the intellectual property developed in our related research. The government's rights in our intellectual property may lessen its commercial value, which could adversely affect our performance.

### Risks Related to Legal and Regulatory

The U.S. renewable fuels industry is highly dependent upon certain federal and state legislation and regulation and any changes in legislation or regulation could have a material adverse effect on our results of operations, cash flows and financial condition.

The EPA has implemented the RFS Program pursuant to the Energy Policy Act of 2005 (the "Energy Policy Act") and the Energy Independence and Security Act of 2007. The RFS Program sets annual quotas for the quantity of renewable fuels that must be blended into motor fuels consumed in the U.S. The domestic market for renewable fuels is significantly impacted by federal mandates under the RFS Program for volumes of renewable fuels required to be blended with gasoline. Future demand for renewable fuels will be largely dependent upon incentives to blend renewable fuels into motor fuels, including the price of renewable fuels relative to the price of gasoline, the relative octane value of the renewable fuel, constraints in the ability of vehicles to use higher renewable fuel blends, the RFS Program and other applicable environmental requirements. Any significant increase in production capacity above the RFS Program

minimum requirements may have an adverse impact on renewable fuel prices. Any change in government policies regarding the RFS Program could have a material adverse effect on our business and the results of our operations.

Waivers of the RFS minimum levels of renewable fuels included in motor fuels or of the requirements by obligated parties to comply with the regulations could have a material adverse effect on our results of operations. Under the Energy Policy Act, the U.S. Department of Energy, in consultation with the Secretary of Agriculture and the Secretary of Energy, may waive the renewable fuels mandate with respect to one or more states if the Administrator of the EPA determines that implementing the requirements would severely harm the economy or the environment of a state, a region or the nation, or that there is inadequate supply to meet the requirement. Additionally, the EPA has exercised the authority to waive the requirements of the RFS minimum levels for certain small refiners. Any waiver of the RFS minimum levels with respect to one or more states would reduce demand for renewable fuels and could cause our results of operations to decline and our financial condition to suffer. Further activity by the EPA to waive the requirements for small refiners could cause softening of pricing in the industry and cause our results of operations to similarly decline.

A critical state program is California's LCFS program, which is designed to reduce GHG emissions associated with transportation fuels used in California by ensuring that the fuel sold in California meets declining targets for such emissions. The regulation quantifies life-cycle GHG emissions by assigning a CI score to each transportation fuel based on that fuel's life-cycle assessment. Each petroleum fuel provider, generally the fuel's producer or importer (the "Regulated Party"), is required to ensure that the overall CI score for its fuel pool meets the annual CI target for a given year. A Regulated Party's fuel pool can include gasoline, diesel and their blend stocks and substitutes. This obligation is tracked through credits and deficits. Fuels with a CI score lower than the annual standard earn a credit, and fuels that are higher than the standard result in a deficit. Several other states also have or are considering adopting this model. Oregon's Clean Fuels Program, enacted in 2009 and implemented in 2016, operates using a credit system similar to the California LCFS program. Any changes to California's LCFS program or failure of other states to implement similar programs could have a material adverse effect on our business and the results of our operations.

Reductions or changes to existing regulations and policies may present technical, regulatory and economic barriers, which may significantly reduce demand for renewable fuels or our ability to supply our products.

The market for renewable fuels is heavily influenced by foreign, federal, state and local government laws, regulations and policies. Changes in these laws, regulations and policies or how these laws, regulations and policies are implemented and enforced could cause the demand for renewable fuels to decline and deter investment in the research and development of renewable fuels.

Concerns associated with renewable fuels, including land usage, national security interests and food crop usage, continue to receive legislative, industry and public attention. This attention could result in future legislation, regulation and/or administrative action that could adversely affect our business. Any inability to address these requirements and any regulatory or policy changes could have a material adverse effect on our business, financial condition and results of operations.

Additionally, our renewable hydrocarbon plants may emit GHG. Any changes in state or federal emissions regulations, including the passage of cap-and-trade legislation or a carbon tax, could limit our production of renewable hydrocarbon products and increase our operating costs, which could have a material adverse effect on our business, financial condition and results of operations. The results of U.S. elections could lead to changes in federal or state laws and regulations that could have a material adverse effect on our business, prospects, financial condition and results of operations.

Negative attitudes toward renewable energy projects from the U.S. government, other lawmakers and regulators, and activists could adversely affect our business, financial condition and results of operations.

Parties with an interest in other energy sources, including lawmakers, regulators, policymakers, environmental and advocacy organizations or other activists may invest significant time and money in efforts to delay, repeal or otherwise negatively influence regulations and programs that promote renewable energy. Many of these parties have substantially greater resources and influence than we have. Further, changes in U.S. federal, state or local political, social or economic conditions, including a lack of legislative focus on these programs and regulations, could result in their

modification, delayed adoption or repeal. Any failure to adopt, delay in implementing, expiration, repeal or modification of these programs and regulations, or the adoption of any programs or regulations that encourage the use of other energy sources over renewable energy, could adversely affect our business, financial condition and results of operations.

Any claims relating to improper handling, storage or disposal of hazardous materials or noncompliance with applicable laws and regulations could be time consuming and costly and could adversely affect our business and results of operations.

Our research and development processes involve the use of hazardous materials, including chemical, radioactive and biological materials. Our operations also produce hazardous waste. We cannot eliminate entirely the risk of accidental contamination or discharge and any resultant injury from these materials. Federal, state and local laws and regulations govern the use, manufacture, storage, handling and disposal of, and human exposure to, these materials. We may be sued for any injury or contamination that results from our use or the use by third parties of these materials, and our liability may exceed our total assets. Although we believe that our activities conform in all material respects with environmental laws, there can be no assurance that violations of environmental, health and safety laws will not occur in the future as a result of human error, accident, equipment failure or other causes. Compliance with applicable environmental laws and regulations may be expensive, and the failure to comply with past, present or future laws could result in the imposition of fines, third-party property damage, product liability and personal injury claims, investigation and remediation costs, the suspension of production or a cessation of operations, and our liability may exceed our total assets. Liability under environmental laws can be joint and several and without regard to comparative fault. Environmental laws could become more stringent over time, imposing greater compliance costs and increasing risks and penalties associated with violations, which could impair our research, development or production efforts and harm our business.

Our international activities may increase our exposure to potential liability under anti-corruption, trade protection, tax and other laws and regulations.

In the course of our relationships with international partners, we may become subject to certain foreign tax, environmental and health and safety regulations that did not previously apply to us or our products. Such regulations may be unclear, not consistently applied and subject to sudden change. Implementation of compliance policies could result in additional operating costs, and our failure to comply with such laws, even inadvertently, could result in significant fines and/or penalties.

Additionally, the Foreign Corrupt Practices Act and other anti-corruption laws and regulations ("Anti-Corruption Laws") prohibit corrupt payments by our employees, vendors or agents. Even with implementation of policies, training and internal controls designed to reduce the risk of corrupt payments, our employees, vendors or agents may violate our policies. Our international partnerships may significantly increase our exposure to potential liability. Our failure to comply with Anti-Corruption Laws could result in significant fines and penalties, criminal sanctions against us, our officers or our employees, prohibitions on the conduct of our business, and damage to our reputation.

#### **Risks Related to Owning Our Securities**

We may not be able to comply with all applicable listing requirements or standards of The Nasdaq Capital Market and Nasdaq could delist our common stock.

Our common stock is listed on The Nasdaq Capital Market, and in order to maintain that listing, we must satisfy applicable Nasdaq continued listing requirements. The inability to comply with applicable listing requirements or standards of The Nasdaq Stock Market LLC ("Nasdaq") could result in the delisting of our common stock, which could have a material adverse effect on our financial condition and could cause the value of our common stock to decline. Delisting of our common stock could also adversely affect our ability to raise additional financing, could significantly affect the ability of our investors to trade our securities and could negatively affect the value and liquidity of our common stock. Delisting could also have other negative results, including the potential loss of confidence by employees and fewer business development opportunities.

On February 29, 2024, we received notice from Nasdaq that the Company is not in compliance with Nasdaq Listing Rule 5550(a)(2) (the "Minimum Bid Price Requirement"), as the minimum bid price of our common stock had been below \$1.00 per share for the previous 30 consecutive business days. The notice has no immediate effect on the listing or trading of our common stock.

We have 180 calendar days, or until August 27, 2024, to regain compliance with the Minimum Bid Price Requirement. To regain compliance, the minimum bid price of our common stock must meet or exceed \$1.00 per share for a minimum of ten consecutive business days during this 180-calendar day grace period. In the event we do not regain compliance with the Minimum Bid Price Requirement by August 27, 2024, we may be eligible for an additional 180-calendar day compliance period. If we do not qualify for the second compliance period or fail to regain compliance during the second 180-day period, then Nasdaq will notify us of its determination to delist our common stock, at which point we will have an opportunity to appeal the delisting determination to a hearings panel.

We intend to actively monitor the bid price of our common stock and may, if appropriate, consider implementing available options to regain compliance with the Minimum Bid Price Requirement. There can be no assurance that we will regain compliance with the Minimum Bid Price Requirement or maintain compliance with any of the other Nasdaq continued listing requirements.

The market price of our common stock may be adversely affected by the future issuance and sale of additional shares of our common stock or by our announcement that such issuances and sales may occur.

We cannot predict the size of future issuances or sales of shares of our common stock in connection with future acquisitions or capital raising activities, or the effect, if any, that such issuances or sales may have on the market price of our common stock. The issuance and sale of substantial amounts of shares of our common stock, or the announcement that such issuances and sales may occur, could adversely affect the market price of our common stock.

Future issuances of our common stock or instruments convertible or exercisable into our common stock may materially and adversely affect the price of our common stock and cause dilution to our existing stockholders.

Historically, we have raised capital by issuing common stock and warrants in public offerings because no other reasonable sources of capital were available. These public offerings of common stock and warrants have materially and adversely affected the prevailing market prices of our common stock and caused significant dilution to our stockholders. We have also historically raised capital or refinanced outstanding debt through the issuance of convertible notes.

We may need to raise capital through these public offerings of common stock, warrants and convertible debt in the future.

We may obtain additional funds through public or private debt or equity financings, subject to certain limitations in the agreements governing our indebtedness. If we issue additional shares of common stock or instruments convertible into common stock, it may materially and adversely affect the price of our common stock.

#### Raising capital at a subsidiary, or project, level would result in lower revenues attributable back to us.

We operate in a capital-intensive business and in order to construct our facilities, we need to raise large amounts of capital. In order to finance the construction of NZ1 and any other Net-Zero Projects, we currently expect to raise capital at the subsidiary level using third party capital. By raising capital at a project level, any equity in that project that is sold to a third party would result in lower ownership of that project by us. Thus, we would only be entitled to the revenues and expenses that are proportionate to our level of ownership in the project. If we are required to sell a large portion of the equity in our projects to third parties, it may have a material adverse effect on our business, financial condition and operating results.

# Our stock price may be volatile, and your investment in our securities could suffer a decline in value.

The market price of shares of our common stock has experienced significant price and volume fluctuations. We cannot predict whether the price of our common stock will rise or fall. A variety of factors may have a significant effect on our stock price, including:

- actual or anticipated fluctuations in our liquidity, financial condition and operating results;
- the position of our cash and cash equivalents;
- the capital costs required to construct our Net-Zero Projects;
- our ability to obtain certain regulatory permits or approvals for our production facilities, including our Net-Zero Projects;
- actual or anticipated changes in our growth rate relative to our competitors;
- actual or anticipated fluctuations in our competitors' operating results or changes in their growth rate;
- announcements of technological innovations by us, our partners or our competitors;
- announcements by us, our partners or our competitors of significant acquisitions, strategic partnerships, joint ventures or capital commitments:
- the entry into, modification or termination of licensing arrangements, marketing arrangements, and/or research, development, commercialization, supply, off-take or distribution arrangements;
- our ability to consistently produce commercial quantities of our products;
- additions or losses of customers or partners;
- our ability to obtain certain regulatory approvals for the use of our products in various fuels and chemicals markets;
- commodity prices, including oil, ethanol and corn prices;
- additions or departures of key management or scientific personnel;
- competition from existing products or new products that may emerge;
- issuance of new or updated research reports by securities or industry analysts;
- fluctuations in the valuation of companies perceived by investors to be comparable to us;
- litigation involving us, our general industry or both;
- disputes or other developments related to proprietary rights, including patents, litigation matters and our ability to obtain patent protection for our technologies;
- announcements or expectations of additional financing efforts or the pursuit of strategic alternatives;
- changes in existing laws, regulations and policies applicable to our business and products, and the adoption of or failure to adopt carbon emissions regulation;
- sales of our common stock or equity-linked securities, such as warrants, by us or our stockholders;
- share price and volume fluctuations attributable to inconsistent trading volume levels of our shares;
- general market conditions in our industry; and
- general economic and market conditions.

Furthermore, the stock markets have experienced extreme price and volume fluctuations that have affected and continue to affect the market prices of equity securities of many companies. These fluctuations often have been unrelated or disproportionate to the operating performance of those companies. These broad market and industry fluctuations, as well as general economic, political and market conditions such as recessions, interest rate changes or international currency fluctuations, may negatively impact the market price of shares of our common stock, regardless of our operating performance, and cause the value of your investment to decline.

Additionally, in the past, companies that have experienced volatility in the market price of their stock have been subject to securities class action litigation or other derivative shareholder lawsuits. We may be the target of this type of litigation in the future. Securities litigation against us could result in substantial costs and divert our management's attention from other business concerns, which could seriously harm our business regardless of the outcome.

The price of our common stock could also be affected by possible sales of common stock by investors who view our warrants as a more attractive means of equity participation in us and by hedging or engaging in arbitrage

activity involving our common stock. The hedging or arbitrage could, in turn, affect the trading prices of our warrants, if any trading market becomes established, or any common stock that holders receive upon exercise of such warrants.

Sales of a substantial number of shares of our common stock or securities linked to our common stock, such as our warrants (should an established market for such securities then exist), in the public market could occur at any time. These sales, or the perception in the market that such sales may occur, could reduce the market price of our common stock.

In addition, certain holders of our outstanding common stock have rights, subject to certain conditions, to require us to file registration statements covering their shares and to include their shares in registration statements that we may file for ourselves or other stockholders.

# The estimates and assumptions on which our financial projections are based may prove to be inaccurate.

Our financial projections, including any projected investment returns on projects, sales or earnings guidance or outlook that we may provide from time to time, are dependent on estimates and assumptions related to, among other things, industry growth, product and plant development, estimated capital expenses for growth development projects, market share projections, product pricing and sale, customer interest in our products, availability of government incentives, tax rates, accruals for estimated liabilities, and our ability to raise sufficient funds or generate sufficient cash flow to continue operations and/or expand our production capabilities. Our financial projections are based on historical experience and on various other estimates and assumptions that we believe to be reasonable under the circumstances and at the time they are made, and our actual results may differ materially from our financial projections.

# Raising additional capital may cause dilution to our existing stockholders, restrict our operations or require us to relinquish rights to our technologies.

We may seek additional capital through a combination of public and private equity offerings, debt financings, strategic partnerships and licensing arrangements. To the extent that we raise additional capital through the sale or issuance of equity, warrants or convertible debt securities, the ownership interest of our existing shareholders will be diluted, and the terms of such securities may include liquidation or other preferences that adversely affect your rights as a stockholder. If we raise capital through debt financing, it may involve agreements that include covenants further limiting or restricting our ability to take certain actions, such as incurring additional debt, making capital expenditures or declaring dividends. If we raise additional funds through strategic partnerships or licensing agreements with third parties, we may have to relinquish valuable rights to our technologies or grant licenses on terms that are not favorable to us. If we are unable to raise additional funds when needed, we may be required to delay, limit, reduce or terminate our development and commercialization efforts.

# We do not anticipate paying cash dividends, and accordingly, stockholders must rely on stock appreciation for any return on their investment.

We have never paid cash dividends on our common stock and we do not expect to pay cash dividends on our common stock at any time in the foreseeable future. The future payment of dividends directly depends upon our future earnings, capital requirements, financial requirements and other factors that our board of directors will consider. As a result, only appreciation of the price of our common stock, which may never occur, will provide a return to stockholders. Investors seeking cash dividends should not invest in our common stock.

If securities or industry analysts do not publish research or reports about our business, or publish negative reports about our business, our stock price and trading volume could decline. The trading market for our common stock will be influenced by the research and reports that securities or industry analysts publish about us or our business.

We do not have any control over securities or industry analysts. If one or more of the analysts who cover us downgrade our common stock or change their opinion of our common stock, our common stock price would likely decline which in turn would likely cause a decline in the value of our warrants. If one or more of these analysts cease coverage of us or fail to regularly publish reports on us, we could lose visibility in the financial markets, which could cause our common stock price and the price of our warrants to decline or the trading volume of our common stock to decline.

We are subject to anti-takeover provisions in our certificate of incorporation, our bylaws and under Delaware law that could delay or prevent an acquisition of the Company, even if the acquisition would be beneficial to our stockholders.

Provisions in our certificate of incorporation and our bylaws may delay or prevent an acquisition of the Company. Among other things, our certificate of incorporation and bylaws provide for a board of directors that is divided into three classes with staggered three-year terms, provide that all stockholder action must be effected at a duly called meeting of the stockholders and not by a consent in writing, and further provide that only our board of directors may call a special meeting of the stockholders. These provisions may also frustrate or prevent any attempts by our stockholders to replace or remove our current management by making it more difficult for stockholders to replace members of our board of directors, who are responsible for appointing the members of our management team. Furthermore, because we are incorporated in Delaware, we are governed by the provisions of Section 203 of the Delaware General Corporation Law (the "DGCL"), which prohibits, with some exceptions, stockholders owning in excess of 15% of our outstanding voting stock from merging or combining with us. Finally, our charter documents establish advance notice requirements for nominations for election to our board of directors and for proposing matters that can be acted upon at stockholder meetings. Although we believe these provisions together provide an opportunity to receive higher bids by requiring potential acquirers to negotiate with our board of directors, they would apply even if an offer to acquire the Company may be considered beneficial by some stockholders.

Our certificate of incorporation provides that, unless we consent in writing to the selection of an alternative forum, the Court of Chancery of the State of Delaware will be the sole and exclusive forum for substantially all disputes between us and our stockholders, which could limit our stockholders' ability to obtain a favorable judicial forum for disputes with us or our directors, officers or employees.

Our certificate of incorporation provides that the Court of Chancery of the State of Delaware shall, unless we consent in writing to the selection of an alternative forum, be the sole and exclusive forum for (i) any derivative action or proceeding brought on behalf of the Company, (ii) any action asserting a claim of breach of a fiduciary duty owed by any director, officer or other employee of the Company to the Company or its stockholders, (iii) any action asserting a claim arising pursuant to any provision of the Delaware General Corporation Law, or (iv) any action asserting a claim governed by the internal affairs doctrine, in each case subject to said Court of Chancery having personal jurisdiction over the indispensable parties named as defendants therein.

The exclusive forum provision may limit a stockholder's ability to bring a claim in a judicial forum that it finds favorable for disputes with us or our directors, officers, employees or agents, which may discourage such lawsuits against us and our directors, officers, employees and agents. Stockholders who do bring a claim in the Court of Chancery could face additional litigation costs in pursuing any such claim, particularly if they do not reside in or near the State of Delaware. The Court of Chancery may also reach different judgments or results than would other courts, including courts where a stockholder considering an action may be located or would otherwise choose to bring the action, and such judgments or results may be more favorable to us than to our stockholders. Alternatively, if a court were to find the choice of forum provision contained in our certificate of incorporation to be inapplicable or unenforceable in an action, we may incur additional costs associated with resolving such action in other jurisdictions, which could adversely affect our business and financial condition. Notwithstanding the foregoing, the exclusive forum provision shall not preclude or contract the scope of exclusive federal or concurrent jurisdiction for actions brought under the Exchange Act or the Securities Act, or the respective rules and regulations promulgated thereunder.

Any person or entity purchasing or otherwise acquiring any interest in any of our securities shall be deemed to have notice of and consented to these provisions. This exclusive forum provision may limit a stockholder's ability to bring a claim in a judicial forum of its choosing for disputes with us or our directors, officers or other employees, which may discourage lawsuits against us and our directors, officers and other employees.

If a court were to find the exclusive forum provision contained in our certificate of incorporation to be inapplicable or unenforceable in an action, we may incur additional costs associated with resolving such action in other jurisdictions, which could harm our business, results of operations and financial condition. Even if we are successful in defending against these claims, litigation could result in substantial costs and be a distraction to management and other employees.

# Item 1B. Unresolved Staff Comments

None.

# Item 1C. Cybersecurity

We have an information security program designed to identify, protect, detect and respond to and manage reasonably foreseeable cybersecurity risks and threats. To protect our information systems from cybersecurity threats, we use various security tools that help prevent, identify, escalate, investigate, resolve and recover from identified vulnerabilities and security incidents in a timely manner. These include, but are not limited to, internal reporting, monitoring and detection tools.

We regularly assess risks from cybersecurity and technology threats and monitor our information systems for potential vulnerabilities. We use a widely-adopted risk quantification model to identify, measure and prioritize cybersecurity and technology risks and develop related security controls and safeguards. We conduct regular reviews and tests of our information security program and also leverage other exercises (e.g., penetration and vulnerability testing) to evaluate the effectiveness of our information security program and improve our security measures and planning. The results of these reviews and exercises are reported to the Audit Committee.

While we have not, as of the date of this Form 10-K, experienced a cybersecurity threat or incident that resulted in a material adverse impact to our business or operations, there can be no guarantee that we will not experience such an incident in the future. Such incidents, whether or not successful, could result in our incurring significant costs related to, for example, rebuilding our internal systems, implementing additional threat protection measures, defending against litigation, responding to regulatory inquiries or actions, paying damages, providing customers with incentives to maintain a business relationship with us, or taking other remedial steps with respect to third parties, as well as incurring significant reputational harm. In addition, these threats are constantly evolving, thereby increasing the difficulty of successfully defending against them or implementing adequate preventative measures.

Our Chief People Officer oversees our information security program. Team members who support our information security program have relevant educational and industry experience. The team provides regular reports to senior management on various cybersecurity threats, assessments and findings.

The Board oversees our enterprise risk assessment, where we assess key risks within the company, including security and technology risks and cybersecurity threats. The Audit Committee oversees our cybersecurity risk and receives regular reports from our Chief People Officer on various cybersecurity matters, including risk assessments, mitigation strategies, areas of emerging risks, incidents and industry trends, and other areas of importance.

# Item 3. Legal Proceedings

From time to time, we have been and may again become involved in legal proceedings arising in the ordinary course of our business. We are not presently a party to any litigation that we believe to be material and we are not aware of any pending or threatened litigation against us that we believe could have a material adverse effect on our business, operating results, financial condition or cash flows.

# Item 4. Mine Safety Disclosures

Not Applicable.

# PART II

# Item 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

#### **Market Information**

The Company's common stock is listed and traded on The Nasdaq Capital Market under the symbol "GEVO".

#### **Holders of Record**

As of January 31, 2024, there were approximately 69 holders of record of our common stock. We believe that the number of beneficial owners is substantially greater than the number of record holders because a large portion of our common stock is held of record through brokerage firms in "street name."

# **Dividends**

No cash dividends have been paid on our common stock to date, nor do we anticipate paying dividends in the foreseeable future. Any future determination to declare cash dividends on our common stock will be made at the discretion of our Board of Directors, subject to compliance and limitations under our debt arrangements in effect at such time.

# Recent Sales of Unregistered Securities; Use of Proceeds from Registered Securities

None

# Purchases of Equity Securities by the Issuer

On May 30, 2023, the Board authorized a stock repurchase program, under which the Company may repurchase up to \$25 million of its common stock. The primary goal of the repurchase program is to allow the Company to opportunistically repurchase shares, while maintaining its ability to fund development projects. Under the stock repurchase program, the Company may repurchase shares from time to time in the open market or through privately negotiated transactions. The timing, volume and nature of stock repurchases, if any, will be in the Company's sole discretion and will be dependent on market conditions, applicable securities laws, and other factors. The stock repurchase program may be suspended or discontinued at any time and does not have an expiration date.

The Company did not repurchase any shares of common stock under the stock repurchase program during the three months or fiscal year ended December 31, 2023.

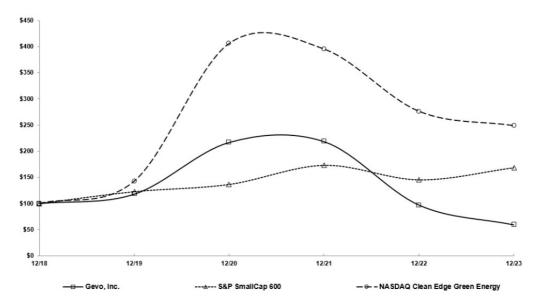
# Performance Graph

The following information is not deemed to be "soliciting material" or to be "filed" with the SEC or subject to Regulation 14A or 14C under the Exchange Act or to the liabilities of Section 18 of the Exchange Act, and will not be deemed to be incorporated by reference into any filing of the Company under the Securities Act of 1933, as amended (the "Securities Act"), or the Exchange Act, except to the extent the Company specifically incorporates it by reference into such a filing.

The following line graph compares the cumulative total shareowner return on our common stock against the cumulative total return of the S&P Smallcap 600 Index and the NASDAQ Clean Edge Green Energy Index for the each of the five years ended December 31, 2023. The graph assumes a \$100 investment in our common stock and each index at December 31, 2018.

# COMPARISON OF 5 YEAR CUMULATIVE TOTAL RETURN

Among Gevo, Inc., The S&P Smallcap 600 Index and the NASDAQ Clean Edge Green Energy Index



	Dec	2018	De	cember 31, 2019	De	2020 2020	De	2021	De	cember 31, 2022	De	2023
Gevo, Inc.	\$	100.00	\$	117.86	\$	216.84	\$	218.37	\$	96.94	\$	59.18
S&P Smallcap 600		100.00		122.78		136.64		173.29		145.39		168.73
NASDAQ Clean Edge Green Energy		100.00		142.67		406.35		395.62		276.35		248.97

The information in the graph will not be considered solicitation material, nor will it be filed with the SEC or incorporated by reference into any future filing under the Securities Act or the Exchange Act, unless we specifically incorporate it by reference into our filing.

Item 6. [Reserved]

# Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with our audited financial statements and related notes appearing elsewhere in this Annual Report on Form 10-K (this "Annual Report"). Some of the information contained in this discussion and analysis and set forth elsewhere in this Annual Report, including information with respect to our plans and strategy for our business, includes forward-looking statements that involve risks and uncertainties. You should review the section titled "Risk Factors" in Part I, Item 1A of this Annual Report for a discussion of important factors that could cause actual results to differ materially from the results described in or implied by the forward-looking statements contained in the following discussion and analysis.

# **Company Overview**

We are a growth-oriented, carbon abatement company with the mission of solving greenhouse gas emissions for those sectors of the transportation industry that are not amenable to electrification or hydrogen. We believe that the market size for hydrocarbon fuels will continue to remain significant in the long-term even with the rapid adoption of electric vehicles and hydrogen technologies.

We are focused on transforming renewable energy into energy-dense liquid hydrocarbons that can be used as renewable fuels, such as sustainable aviation fuel ("SAF"), with the potential to achieve a "net-zero" greenhouse gas ("GHG") footprint. We believe that this addresses the global need of reducing GHG emissions with "drop in" sustainable alternatives to petroleum fuels. We use the Argonne National Laboratory's Greenhouse gases, Regulated Emissions, and Energy use in Transportation model (the "GREET Model") to measure, predict and verify GHG emissions across the life cycle of our products. The "net-zero" concept means Gevo expects that by using sustainably grown feedstock (e.g., low till, no-till and dry corn cultivation), renewable and substantially decarbonized energy sources, drop-in hydrocarbon fuels can be produced that have a net-zero, full life cycle footprint measured from the capture of renewable carbon through the burning of the fuel.

Our primary market focus, given current demand and growing customer interest, is hydrocarbon fuels, and SAF in particular. We believe that SAF from carbohydrates to alcohol is the most economically viable approach for carbon abatement. We also have commercial opportunities for other renewable hydrocarbon products, such as RNG; hydrocarbons for gasoline blendstocks and diesel fuel; ingredients for the chemical industry, such as ethylene and butenes; plastics and materials; and other chemicals. Global fuel consumption by commercial airlines continues to remain strong, with global fuel consumption of more than 100 MGPY and growing.

#### **Project Updates**

Net-Zero Projects. Our concept of "Net-Zero Projects" is a series of planned facilities to produce energy dense liquid hydrocarbons using renewable energy and our proprietary technology. Our initial Net-Zero Project, Net-Zero 1 ("NZ1"), is expected to be located in Lake Preston, South Dakota, and is being currently designed to produce approximately 65 million gallons per year ("MGPY") of total hydrocarbon volumes, including 60 MGPY of SAF, which would fulfill part of our approximately 350 MGPY of SAF and hydrocarbon supply agreements. The liquid hydrocarbons, when burned, are expected to have a "net-zero" GHG footprint. Along with the hydrocarbons, NZ1 is expected to produce approximately 695,000 tons per year of high-value protein products for use in the food chain and more than 34 million pounds per year of corn oil. Our products will be produced in three steps: the first step is milling the corn to produce the carbohydrates needed for the production of SAF while simultaneously enabling the production of protein and oil; the second step produces alcohols using carbohydrate-based fermentation; and the third step is the conversion of the alcohols into hydrocarbons.

We work with several technology, design and equipment partners, most notably Fluid Quip Technologies (FQT), Axens, and Praj. FQT and Axens provide area operation designs which have been incorporated into Gevo's proprietary overall design of low CI carbohydrate-to-hydrocarbon plants, such as NZ1 plant. Praj is working with us on the proprietary design and construction of prefabricated process modules for our plants. Our partners are working with us on proprietary process designs that have the potential to lower capital and operating cost in the future. The advantage of utilizing Fluid Quip and Axens area operation and related process designs which are well proven in other applications, we believe we have chosen technology which is substantially de-risked.

We completed the value engineering on our NZ1 project and are proceeding with detailed engineering, modularization design, and capital costs updates. We are currently refining project cost estimates with engineering, procurement, and construction ("EPC") partners to identify cost saving opportunities, and currently expect to finance the construction of NZ1 at the subsidiary level using a combination of Company equity and third-party capital, to include non-recourse debt. The Company expects to have invested a cumulative total of \$236 to \$286 million of cash equity in the project at financial close. Cash distributions from future NZ1 earnings would be proportionate to Gevo's ownership in NZ1 under this expected financing structure. The use of project debt and third party equity allows us to conserve capital for use on other growth projects. We expect to apply similar development and financing strategies to future Net-Zero Projects to enable growth of SAF production to meet demand for SAF.

We have substantially completed the engineering design of NZ1. We have substantially completed value engineering and we are now focusing on detail engineering with an EPC partner, to reduce and contractually finalize a negotiated lump-sum, fixed price agreement whereby the EPC will build and deliver the plant. This detail engineering work is focused specifically on increasing the modularization of component parts on the NZ1 plant design, which means that we expect that the process equipment would be built into modules at a factory, then the modules would be assembled onsite at NZ1, with the goal of minimizing specialized field work typical in plant construction of this type. This approach is expected to lower the risk and cost of, and access to, skilled labor at the site and reduce the supply chain constrictions for some of our long-lead equipment. Increasing the modularization of the plant design is also expected to reduce our spend in advance of securing third-party equity and debt financing for NZ1 and increase the certainty of construction schedule for those counterparties.

In order to achieve full construction financing for NZ1, we need to secure third-party equity and debt. Upon receiving an invitation from the U.S. Department of Energy ("DOE"), we submitted a Part II Application for a DOE loan guarantee for a direct lending from Federal Financing Bank. In August 2023, Gevo was invited to enter the due diligence and underwriting phases with DOE. Given the current interest rate environment and general macroeconomic conditions, a DOE-guaranteed loan is our most attractive debt option and is expected to offer the lowest cost of debt for the project. We expect that obtaining a DOE-guaranteed loan will have the benefit of reducing the overall amount of equity required to finance NZ1 and should result in higher project equity returns for investors which should increase the likelihood of Gevo successfully financing NZ1. The DOE loan application process is targeted to be complete in 2024. We expect that our NZ1 plant start-up date will occur twenty-four to thirty months after the NZ1 financing closes, the timing of which is uncertain. In parallel with the DOE-guaranteed loan process, we continue to explore debt financing for NZ1 without the benefit of the DOE-guaranteed loan. We are also working to secure access to carbon capture and sequestration at the site.

We are evaluating and performing early site development work at several sites in the U.S. for other greenfield sites. These sites include several greenfield locations that are particularly advantageous in terms of potential economics, opportunities to decarbonize, and time to market. In addition, we are pursuing potential Net-Zero Projects with several existing ethanol plant sites. Existing ethanol plants need to be decarbonized with renewable energy or de-fossilized energy and/or carbon sequestration. Gevo has developed a preferred list of potential partners and sites with decarbonization in mind and is engaged in preliminary feasibility and development discussions with several of these potential partners. We plan to give priority to existing industrial plant sites that have attractive potential economics and high predictability of timeline for decarbonization.

**Renewable Natural Gas Project.** The Gevo RNG project started up and began producing and injecting initial volumes of biogas in 2022, during the project's testing and ramp-up period. The project achieved stable production levels and surpassed our annual production target of 310,000 MMBtu for 2023. In addition, we completed an expansion to the Gevo RNG project to increase its annual design capacity from 355,000 MMBtu to 400,000 MMBtu.

Gevo's revenue from the RNG project in Northwest Iowa (the "RNG Project") stems from sales of RNG and from the environmental attributes associated with its RNG sales, including the attributes available from California's Low Carbon Fuel Standard ("LCFS") program and the U.S. Environmental Protection Agency ("EPA") Renewable Fuels Standard ("RFS") program to receive renewable identification numbers ("RINs"). Gevo was granted registration approval by the EPA in 2022, allowing us to participate in its Renewable Fuel Standard Program ("RFS Program") to receive renewable identification numbers ("RINs").

During the first quarter of 2023, we received approval for a temporary pathway under California's Low Carbon Fuel Standard ("LCFS") program. We continue to realize substantial sales for our environmental attributes of both LCFS credits and RINs in 2023.

Verity. It is critical that we can prove the CI of our products, ensuring that these values are accurate and auditable. The mission of Verity ("Verity"), including Verity Tracking and Verity Carbon Solutions, is to document CI and other sustainability attributes and apply Distributed Ledger Technology, commonly referred to as blockchain, to create a record of the products throughout the entire business system. Verity starts by calculating carbon intensity of feedstocks from data collected at the farm and field level. We plan to track these feedstocks through production at our plants where we intend to use a mix of renewable electricity, biogas, renewable hydrogen and other potentially decarbonized energy sources in production. The CI data would then be combined to deliver a comprehensive CI reduction in a finished renewable fuel. The resulting CI reduction value has potential to be quantified as a digital asset and monetized in voluntary or compliance carbon markets, and providing compliance needs for tax incentives while preventing double-counting. We believe that in the future, regenerative agricultural practices have the potential to sequester large quantities of soil organic carbon while improving soil health.

There is increasing regulatory and stakeholder pressure on global corporations to lower emissions. These trends are driving demand for carbon credits, giving rise to two sets of markets, the regulated compliance carbon market and the unregulated voluntary carbon market, both of which could grow meaningfully in the coming decades. The total value of major compliance carbon markets is expected to be greater than \$800 billion in 2023, according to Bloomberg. Verity intends to document and account for carbon capture in conjunction with scientifically supported measurement techniques. The potential for Verity is broad and could be applicable to tracking the CI of various items beyond Gevo's internal businesses, including, but not limited to, renewable fuels, food, feed and industrial products through their respective business systems and value chains. Our robust scientific measurement, reporting, and verification plan and approach is expected to provide a high-quality credit that should meet regulated compliance and unregulated carbon markets.

In March 2023, we entered into a joint development framework agreement with Southwest Iowa Renewable Energy; in August 2023, we entered into a joint development framework agreement with a second ethanol producer in the Midwest that has over 100 million gallons of capacity; and in October 2023, we entered into an agreement with a third ethanol producer in the Southwest. These agreements include commercial terms and profit-sharing frameworks. As we grow Verity as an externally facing business, we are working to sign up additional ethanol and biofuel customers. Each of these agreements will focus on implementing Verity technology and developing the market for carbon credits to help farmers and biofuel producers quantify the CI reductions for their products.

During the second quarter of 2023, we launched the Verity Tracking platform (the "Platform") with farmers in the Lake Preston, South Dakota area who participated in our 2022 grower program. In its initial release, the Platform allows the users to measure, report, verify, and view the CI scores at both the farm average and field-by-field levels. The Platform provides insights into the contributors and removers behind the CI, helping users to understand the factors that drive differences in CI performance between fields. Users can also compare their scores with the U.S. national average calculated by the GREET model.

Key Verity project highlights include:

- Verity Carbon Solution began development in 2020 as a necessary and value-added services for our SAF production;
- 3 ethanol producer customers contracted, and growing;
- 2% of the total US ethanol market or more than 300 million gallons per year;

- 100% farmer retention in the grower program comprising 65,000 acres and growing;
- Total value pool of all major global compliance carbon markets in 2023 was \$800 billion;
- Capital light, fee-based, industry agnostic business

Luverne Facility. In 2022, the activities at our Luverne Facility were transitioned to care and maintenance, market development, and customer education, as we shifted focus to our Net Zero Projects. The workforce adjustment which resulted allowed us to retain key personnel and redeploy some resources to our NZ1 and RNG projects to provide valuable knowledge and experience for the future strategic growth of the Company. The Luverne Facility is well equipped and positioned as a development site as it provides a unique opportunity to showcase our decarbonization and business systems and raise awareness for future partnerships, investors, and local communities, even though operations at the site have been minimized. Future operations, if any, will be tailored to support a focus on advancing our technology, testing, optimizing alternative feedstocks and yeast strains, and unit operations as well as partnership development for fuels and specialty chemicals with integrated solutions for GHG reductions. We continue to evaluate incentive opportunities recently introduced by the Inflation Reduction Act, which may positively impact the future economics of our operation at Luverne.

*U.S. Department of Agriculture.* In September 2023, we executed a Notice of Grant and Agreement Award with the U.S. Department of Agriculture ("USDA") for a Partnerships for Climate-Smart Commodities grant of up to \$30.0 million for Gevo's Climate-Smart Farm-to-Flight Program, with project activity beginning for the 2023 crop year. The project expects to create critical structural climate-smart market incentives for low CI corn as well as to accelerate the production of SAF to reduce the sector's dependency on fossil-based fuels. In addition, this program will help provide support and incentive payments for farmers to produce, measure, report and verify low CI corn using climate smart agricultural practices, as well as accelerate development of the low-CI corn supply chain for low-carbon ethanol and SAF.

LG Chem Agreement. In April 2023, we entered into a joint development agreement with LG Chem, Ltd. ("LG Chem") a leading global chemical company to develop bio-propylene for renewable chemicals using our Ethanol-to-Olefins ("ETO") technology. Gevo's proprietary ETO technology can target carbon neutral or carbon negative drop-in replacements for traditional petroleum-based building blocks called olefins, including bio-propylene, which can be used for renewable chemicals or fuels including sustainable aviation fuel. These plant-based, renewable olefins would be derived from atmospheric CO2 captured through photosynthesis and are expected to deliver the same performance in final products on the market today. Under the terms of the agreement, we will provide the core enabling technology it has developed for renewable olefins to be produced from low-carbon ethanol and together the parties will collaborate to accelerate the pilot research, technical scale-up, and commercialization of bio-propylene. LG Chem is expected to bear all scale-up costs for chemicals and make certain payments to Gevo. We received \$1.1 million, net of foreign taxes of \$0.2 million, in the second quarter of 2023 under the agreement, and we expect to receive an additional \$1.2 million over the next two years to help defray costs associated with the joint development efforts. In addition, LG Chem agreed to make certain payments to us upon commencement of commercialization as follows:

- \$5.0 million upon commencement of commercialization, to be paid ratably over a period of five years.
- 1% royalty on Net Sales for the first production facility beginning six years from commercial operation.
- 1% royalty on Net Sales for all subsequent production facilities upon commencement of operations.

# **Nasdaq Listing Rules Compliance**

On February 29, 2024, we received notice from Nasdaq that we were not in compliance with Nasdaq Listing Rule 5550(a)(2) (the "Minimum Bid Price Requirement"), as the minimum bid price of our common stock had been below \$1.00 per share for the previous 30 consecutive business days. We have 180 calendar days, or until August 27, 2024, to regain compliance with the Minimum Bid Price Requirement. To regain compliance, the minimum bid price of our common stock must meet or exceed \$1.00 per share for a minimum of ten consecutive business days during the compliance grace period. In the event we do not regain compliance with the Minimum Bid Price Requirement by August 27, 2024, we may be eligible for an additional 180-calendar day compliance period. Our failure to regain compliance during the compliance period could result in delisting.

# **Key Operating Metrics**

Total operating revenues reflect both sales of RNG and sales of related environmental attributes. As a result, our revenues are primarily affected by unit production of RNG, production of environmental attributes, and the prices at which we monetize such production. The following table summarizes the key operating metrics described above, which metrics we use to measure performance:

	 Year Ended l	Decen				
(in thousands, unless otherwise indicated)	 2023	_	2022	_	Change	Change %
Revenues						2.0/
Natural gas commodity	\$ 659	\$	640	\$	19	3 %
Natural gas environmental attributes - RINs	9,888		214		9,674	4,521 %
Natural gas environmental attributes - LCFS	 4,910				4,910	100 %
Total revenues	\$ 15,457	\$	854	\$	14,603	
Production expenses (1)	\$ 11,481	\$	2,626	\$	8,855	337 %
RNG metrics					,	
RNG production volumes (MMBtu)	314		125		189	151 %
Plus: prior period RNG volumes dispensed in current period	116		_		116	100 %
Less: RNG production volumes not dispensed	(34)		(116)		82	(71)%
Total RNG volumes available for RIN and LCFS generation (2)	396		9		387	4,300 %
RIN metrics	 					
RIN generation <sup>(3)</sup>	4,639		101		4,538	4,493 %
Plus: Prior period RINs	_		_		_	— %
Total RINs available for sale	 4,639		101		4,538	4,493 %
Less: RINs sold	(4,639)		(101)		(4,538)	4,493 %
RIN inventory	 					
RNG volumes not dispensed for RINs (MMBtu) (4)	34		116		(82)	(71)%
Average realized RIN price (5)	\$ 2.13	\$	2.13	\$	_	— %
LCFS metrics						
LCFS generation <sup>(6)</sup>	76		_		76	100 %
Less: LCFS sold	(76)		_		(76)	100 %
LCFS inventory						
RNG volumes not dispensed for LCFS (MMBtu)	34		116		(82)	(71)%
Average realized LCFS price (5)	\$ 64.79	\$	_	\$	64.79	100 %

The higher per unit cost reflects lower production volumes during the commissioning and ramp-up phase, which was substantially completed by the end of Q3 2023.

<sup>(2)</sup> Represents gas production which has not been dispensed to generate RINs and LCFS.

<sup>(3)</sup> RINs are generally generated in the month following the gas being dispensed.

<sup>(4)</sup> One MMBtu of RNG has approximately the same energy content as 11.727 gallons of ethanol, and thus may generate 11.727 RINs under the RFS Program.

<sup>(5)</sup> Realized prices for environmental attributes are net of third-party commissions and thus do not correspond directly to index prices.

<sup>(6)</sup> LCFS credits are generally generated in the calendar quarter following the gas being dispensed.

# **Results of Operations**

The following discussion of our financial condition and results of operations should be read in conjunction with our Consolidated Financial Statements and the notes to those Consolidated Financial Statements appearing in this Annual Report. This discussion contains forward-looking statements that involve significant risks and uncertainties. As a result of many factors, such as those set forth under "Risk Factors" in Part I, Item 1A of this Annual Report, our actual results may differ materially from those anticipated in these forward-looking statements.

This section of this Report discusses year-to-year comparisons between 2023 and 2022. The complete Management's Discussion and Analysis of Financial Condition and Results of Operations for year-to-year comparisons between 2022 and 2021 and other discussions of 2021 items can be found within Part II, Item 7, of our Annual Report on Form 10-K for the year ended December 31, 2022, filed with the SEC on March 9, 2023, which is available free of charge on the SEC's website at www.sec.gov and our corporate website at www.gevo.com.

# Comparison of the Years Ended December 31, 2023 and 2022 (in thousands)

	Year Ended December 31,						
		2023	2022			Change (\$)	Change (%)
Total operating revenues	\$	17,200	\$	1,175	\$	16,025	1,364 %
Operating expenses:							
Cost of production		11,991		8,698		3,293	38 %
Depreciation and amortization		19,007		7,887		11,120	141 %
Research and development expense		6,637		7,427		(790)	(11)%
General and administrative expense		42,628		39,941		2,687	7 %
Project development costs		14,732		10,061		4,671	46 %
Facility idling costs		4,040		4,599		(559)	(12)%
Impairment loss		_		24,749		(24,749)	(100)%
Loss on disposal of assets		_		499		(499)	(100)%
Total operating expenses		99,035		103,861		(4,826)	(5)%
Loss from operations		(81,835)		(102,686)		20,851	(20)%
Other income (expense)							
Interest expense		(2,161)		(1,167)		(994)	85 %
Interest and investment income		19,090		3,481		15,609	448 %
Other income (expense), net		(1,309)		2,365		(3,674)	(155)%
Total other income, net		15,620		4,679		10,941	234 %
Net loss	\$	(66,215)	\$	(98,007)	\$	31,792	(32)%

Operating revenue. During the year ended December 31, 2023, revenue increased \$16.0 million compared to the year ended December 31, 2022, primarily due to sales of RNG and environmental attributes from our RNG project. Sales under our RNG project commenced in the third quarter of 2022. During the year ended December 31, 2023, we sold 313,572 MMBtu of RNG from our RNG project, resulting in biogas commodity sales of \$0.7 million and environmental attribute sales of \$14.8 million, see Key Operating Metrics above. Additionally, we recognized \$1.3 million of licensing and development revenue from the agreement with LG Chem as well as \$0.4 million from the sale of isooctane during the year ended December 31, 2023.

Cost of production. Cost of production increased \$3.3 million during the year ended December 31, 2023, compared to the year ended December 31, 2022, primarily due to the production and sales from our RNG project, which significantly increased in 2023, after the ramp-up phase, as well as lower costs at the idling Luverne Facility in 2023.

Depreciation and amortization. Depreciation and amortization increased \$11.1 million during the year ended December 31, 2023, compared to the year ended December 31, 2022, primarily due to a full three quarters of additional depreciation expense in 2023 for RNG assets placed into service in Q3 2022 and accelerated depreciation on Agri-Energy segment assets due to shorter lives stemming from the impairment assessment during the third quarter of 2022. See Note 4 to the Consolidated Financial Statements for additional information.

Research and development expense. Research and development expense decreased \$0.8 million during the year ended December 31, 2023, compared to the year ended December 31, 2022, primarily due to a reduction of consulting expenses, partially offset by an increase in personnel related costs due to additional headcount added during the year ended December 31, 2023.

General and administrative expense. General and administrative expense increased \$2.7 million during the year ended December 31, 2023, compared to the year ended December 31, 2022, primarily due to increases in personnel costs related to the hiring of highly qualified and skilled professionals, professional consulting fees, and stock-based compensation. On a periodic basis, we assess our Corporate cost allocation estimates. During the year ended December 31, 2023, we performed an assessment which resulted in the implementation of Corporate cost allocations across all segments to reflect the use of centralized administrative functions as well as the allocation of personnel costs related to our project development efforts. If we had applied the most recent cost allocation estimate to the year ended December 31, 2023, it would have resulted in a decrease in General and administrative expense of approximately \$28.4 million, with a corresponding increase primarily to Project development costs, representing the nature of the Company's expenditures related to those growth projects: namely our view that substantial portions of these expenditures may be reimbursed to us upon financial close of NZ1, and their growth-oriented non-recurring and discretionary nature. The allocations did not impact the Company's operating loss or net loss for the year ended December 31, 2023.

*Project development costs.* Project development costs are related to our future Net-Zero Projects and Verity which consist primarily of employee expenses, preliminary engineering costs, and technical consulting costs. Project development costs increased \$4.7 million during the year ended December 31, 2023, compared to the year ended December 31, 2022, primarily due to increases in personnel costs and consulting fees.

Facility idling costs. Facility idling costs are related to care and maintenance of our Luverne Facility. Facility idling costs decreased by \$0.6 million for the year ended December 31, 2023, compared to the year ended December 31, 2022, primarily due to one-time charges recorded during 2022 related to removing flammable and other hazardous items from the site, writing off certain patents, and reduction in the workforce.

Impairment loss. No impairment loss was recorded during the year ended December 31, 2023. During the year ended December 31, 2022, the Company recorded a \$24.7 million impairment loss on long-lived assets, which reduced the carrying value of certain property, plant, and equipment, and a leased right of use asset, at the Agri-Energy segment to its fair value. The impairments recorded relate to the determination to suspend production at the Luverne Facility and shift the plant into an idled, care and maintenance status during the third quarter of 2022. The impact of the one-time impairment charge of \$24.7 million was \$0.11 of basic and diluted impairment loss per share for the year ended December 31, 2022. See Note 4 to the Consolidated Financial Statements for additional information.

Loss on disposal of assets. The Company did not record a loss on disposal of assets for the year ended December 31, 2023. As a result of suspending the production of ethanol at the Luverne Facility, we wrote-off \$0.5 million of costs during the year ended December 31, 2022, related to ancillary equipment and spare parts that are no longer expected to be utilized at the Luverne Facility. The equipment and spare parts had been planned to be used in ethanol production.

Loss from operations. The Company's loss from operations decreased by \$20.9 million during the year ended December 31, 2023, compared to the year ended December 31, 2022, primarily due to increased revenue from RNG operations and LG Chem licensing in 2023, as well as the prior year impairment loss, partially offset by the increase in costs for our Net-Zero, Verity, and USDA Climate-Smart Grant projects.

*Interest expense*. Interest expense increased by \$1.0 million during the year ended December 31, 2023, compared to the year ended December 31, 2022, primarily due to the interest on the 2021 Bonds, which was capitalized into construction in process during the construction phase of our RNG Project in the prior periods.

Interest and investment income. Interest and investment income increased \$15.6 million during the year ended December 31, 2023, compared to the year ended December 31, 2022, primarily due to an increase in interest earned on our cash equivalent investments as a result of higher interest rates.

Other income. Other income decreased \$3.7 million during the year ended December 31, 2023, compared to the year ended December 31, 2022, primarily due to the receipt of \$0.4 million from the USDA's Biofuel Producer Program in 2023 compared to \$2.9 million in 2022. In addition, our termination of the expediting procurement agreement with a local utility resulted in a one-time charge of \$1.6 million in 2023.

#### Sources of Our Revenues

Our current and historic revenues are primarily derived from: (i) the sale of RNG commodities and the related environmental attributes; (ii) licensing and development sales; (iii) hydrocarbon sales consisting primarily of the sale of isooctane derived from our isobutanol and SAF; and (iv) the sale of isobutanol and related products.

# **Principal Components of Our Cost Structure**

Cost of Production. Our cost of production consists primarily of costs directly associated with the production of RNG and other renewable hydrocarbon products, including isobutanol, SAF, and isooctane. Such costs include direct materials, direct labor, other operating costs and certain plant overhead costs. Direct materials include feedstock, denaturant and process chemicals. Direct labor includes compensation (including stock-based compensation) of personnel directly involved in production operations. Other operating costs include utilities and natural gas and wind power usage.

**Research and Development.** Our research and development expense consists of costs incurred to identify, develop and test our technologies for the production of renewable hydrocarbon products and the development of downstream applications thereof. Research and development expense includes personnel costs (including stock-based compensation), consultants and related contract research, facility costs, supplies, license fees paid to third parties for use of their intellectual property and patent rights and other overhead expenses incurred to support our research and development programs.

General and Administrative. General and administrative expense consists of personnel costs (including stock-based compensation), consulting and service provider expenses (including patent counsel-related costs), legal fees, marketing costs, insurance costs, occupancy-related costs, travel and relocation expenses and hiring expenses. Our corporate personnel, consisting of subject matter experts, including chemists, engineers, and sustainability experts, dedicate the majority of their time and efforts for the development of our growth projects. Costs incurred have not yet been allocated to the specific growth projects on the face of our financial statements.

**Project Development Costs.** Project development costs consist of consulting, preliminary engineering costs, personnel expenses (including stock-based compensation) and research and development expenses to support the business activities of our Net-Zero Projects.

**Depreciation and Amortization.** Depreciation and amortization relates to property, plant and equipment associated with the production of RNG and other renewable hydrocarbon products, including isobutanol, SAF, and isooctane, as well as that used in product development.

# **Liquidity and Capital Resources**

As of December 31, 2023, we had cash and cash equivalents of \$298.3 million and current restricted cash of \$77.3 million, totaling \$375.6 million in cash, cash equivalents, and restricted cash. As of December 31, 2023, we had net working capital of \$295.0 million, with \$91.4 million of current liabilities. Our cash equivalents primarily consist of investments in U.S. government money market funds. We expect to use our cash, cash equivalents, and restricted cash for the following purposes: (i) identification, development, engineering, licensing, acquisition and construction of production facilities and the Company's other Net-Zero Projects; (ii) potential investment in RNG projects; (iii) potential development of the Luverne Facility; (iv) operating activities at the Company's corporate headquarters in Colorado, including research and development work; (v) exploration of strategic alternatives and additional financing, including project financing; and (vi) future debt service obligations. We believe as a result of our cash and cash equivalents balances, and the performance of our current and expected operations, we will be able to meet our obligations and other potential cash requirements during the next 12 months from the date of this report.

Since our inception in 2005, we have devoted most of our cash resources to the development and commercialization of routes to efficiently produce fuels and chemicals from carbohydrates, such as renewable feedstock, using alcohols (isobutanol and ethanol) as intermediates. We have incurred losses since inception, have a significant accumulated deficit, and expect to incur losses for the foreseeable future. Historically we have financed our operations primarily with proceeds from the issuance of equity, warrants, debt securities, and borrowings under debt facilities. Our current sources of cash include sales of RNG, environmental attributes, and licensing fees. We may also fund future operations through additional private and/or public offerings of equity or debt securities. In addition, we may seek additional capital, on acceptable terms, through arrangements with strategic partners or from other sources. Notwithstanding, there can be no assurance that we will be able to raise additional funds or achieve or sustain profitability or positive cash flows from operations.

Our transition to profitability is dependent upon, among other things, the successful development and commercialization of our product candidates, the development, licensing, acquisition and construction of commercial level production facilities to support our offtake agreements, the achievement of a level of revenues adequate to support the Company's cost structure, and the ability to raise capital to finance the development, licensing, acquisition, and construction of additional productions facilities.

The following table sets forth the major sources and uses of cash for each of the periods set forth below (in thousands):

	Year Ended December 31,			
	 2023		2022	
Net cash used in operating activities	\$ (53,719)	\$	(44,311)	
Net cash provided by investing activities	\$ 114,129	\$	85,092	
Net cash (used in) provided by financing activities	\$ (189)	\$	138,562	

# **Operating Activities**

Our primary uses of cash from operating activities are personnel-related expenses, and research and development-related expenses, including costs incurred under development agreements, costs of licensing of technology, legal-related costs, expenses for the development and commercialization of routes to efficiently produce fuels and chemicals from renewable feedstock carbohydrates using alcohols (isobutanol and ethanol) as an intermediate.

During the year ended December 31, 2023, net cash used in operating activities was \$53.7 million compared to \$44.3 million for the year ended December 31, 2022. Non-cash charges primarily consisted of depreciation and amortization of \$19.0 million, stock-based compensation expense of \$17.1 million, which reflects higher amortization expense for the stock awards issued in the prior period with higher market value, see Note 16 to the Consolidated Financial Statements for additional information, and non-cash expense of \$0.1 million related to the amortization of marketable securities premiums. The net cash outflow from changes in operating assets and liabilities increased \$23.9 million, primarily due to an increase in cash outflows of \$23.0 million related to prepaid expenses and other current assets, deposits and other assets, \$2.6 million related to increases in accounts receivable as well as \$0.9 million related to accounts payable and accrued liabilities. These were partially offset by \$2.7 million of decreased costs associated with the sale of environmental attribute inventory.

# **Investing Activities**

During the year ended December 31, 2023, we had \$114.1 million in cash provided by investing activities, of which \$168.6 million related to proceeds from sales and maturities of marketable securities, partially offset by \$54.5 million of investments in our capital projects, including \$28.2 million in NZ1, \$6.4 million in the RNG Project, and \$19.9 million in other projects.

We completed the value engineering on our NZ1 project and are proceeding with detailed engineering, modularization design, and capital costs updates. We are currently refining project cost estimates with engineering, procurement, and construction ("EPC") partners to identify cost saving opportunities, and currently expect to finance the construction of NZ1 at the subsidiary level using a combination of Company equity and third-party capital, to include non-recourse debt. The Company expects to have invested a cumulative total of \$236 to \$286 million of cash equity in the project at financial close. Cash distributions from future NZ1 earnings would be proportionate to Gevo's ownership in NZ1 under this expected financing structure. The use of project debt and third party equity allows us to conserve capital for use on other growth projects. We expect to apply similar development and financing strategies to future Net-Zero Projects to enable growth of SAF production to meet demand for SAF.

In 2022, we allocated approximately \$25.0 million to develop our next Net-Zero Project, of which we have spent approximately \$15.0 million. Gevo is in the process of identifying and performing early site development work for additional Net-Zero production locations. These potential sites include greenfield and brownfield (i.e., at an existing ethanol plant) locations that are advantageous in terms of potential economics, opportunities to decarbonize, and time to market.

During the year ended December 31, 2022, we had \$85.1 million in cash provided by investing activities, of which \$299.6 million related to proceeds from sales and maturities of marketable securities, partially offset by the reinvestment of \$130.4 million in marketable securities, and \$84.1 million of investments in our capital projects, including \$34.7 million in the RNG Project, \$43.3 million in NZ1 and \$2.0 million in other Net-Zero Projects, as well as \$4.1 million in other isobutanol related projects.

#### Financing Activities

During the year ended December 31, 2023, we had \$0.2 million of net cash used in financing activities, due to payments for equipment loans and finance lease liabilities.

We currently expect to finance the construction of NZ1 at the subsidiary level using a combination of our own, third-party, and debt capital. The Company expects to retain an equity interest in the project and may invest equity in the project using the proceeds from the reimbursement of the Company's NZ1 development expenditures. Cash distributions from future NZ1 earnings would be proportionate to Gevo's ownership in NZ1 under this expected financing structure which would allow us to conserve and redeploy our capital on other growth projects, including our Net-Zero 2 project ("NZ2"). We expect to apply similar development and financing strategies to NZ2 and future Net-Zero Projects to enable growth of SAF production to meet demand for SAF.

During the year ended December 31, 2022, we had \$138.6 million of net cash provided by financing activities, primarily due to \$139.0 million of net proceeds from the issuance of common stock and common stock warrants in a registered direct offering in June 2022, offset by \$0.4 million of payments primarily for net settlement of common stock under stock plans and certain equipment loans

# **Critical Accounting Estimates**

Our Consolidated Financial Statements are based on the application of U.S. GAAP, which requires us to make estimates and assumptions about future events that affect the amounts reported in our Consolidated Financial Statements and the accompanying notes. Future events and their effects cannot be determined with certainty; therefore, the determination of estimates requires the exercise of judgment. We believe our judgments related to these accounting estimates are appropriate. However, if different assumptions or conditions were to prevail, the results could be materially different from the amounts recorded. We have determined that we have no critical accounting estimates material to our consolidated financial position, results of operations or cash flow related to our consolidated financial statements included in this Report.

# **Recent Accounting Pronouncements**

See Note 2, Summary of Significant Accounting Policies, in Item 8. "Financial Statements and Supplemental Data," of this Report, for a discussion of recent accounting pronouncements.

# Item 7A. Quantitative and Qualitative Disclosures about Market Risk

We are exposed to market risks related to environmental attribute pricing, commodity pricing, interest rate, credit risk with our contract counterparties, and equity price risks. We currently have no foreign exchange risk and do not use derivative financial instruments as part of an overall strategy to manage market risk; however, we may consider such arrangements in the future as we evaluate our business and financial strategy.

# **Environmental Attribute and Commodity Pricing Risk**

We attempt to negotiate the best prices for our environmental attributes and to competitively price our products to reflect the fluctuations in market prices. Reductions in the market prices of environmental attributes may have a material adverse effect on our revenues and profits as they directly reduce our revenues. We have prepared a sensitivity analysis to estimate our exposure to market risk with respect to RIN and LCFS prices. Our analysis, which may differ from actual results, based on our actual 2023 RINs and LCFS sold of approximately \$2.08 and \$64.79 respectively. The estimated annual impact of a hypothetical 10% decrease in the average realized price per RIN and per LCFS credit would have a negative effect on our operating profit of approximately \$1.0 million and \$0.5 million, respectively.

The price of RNG changes in relation to the market prices of wholesale gas. Pricing for wholesale gas is volatile and we expect this volatility to continue in the future. Further, volatility of wholesale gas also creates volatility in the prices of environmental attributes. We have prepared a sensitivity analysis to estimate our exposure to market risk with respect to the market price of wholesale gas. Our analysis, which may differ from actual results, was based on our actual 2023 gas production sold pursuant to contracts that do not provide for a fixed or floor price of approximately \$2.10/MMBtu. The estimated annual impact of a hypothetical 10% decrease in the market price of wholesale gas would not have a material impact on our financial condition or results of operations.

#### **Interest Rate Risk**

We are exposed to market risk related to changes in interest rates. 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 our investments, including cash equivalents, are invested in U.S. treasury or government money market funds. Our analysis, which may differ from actual results, was based on our actual 2023 effective interest rate earned on our cash and cash equivalents. The estimated annual impact of a hypothetical 0.25% decrease in market interest rates would have a negative impact on our interest income of approximately \$2.8 million.

We are exposed to further market risk related to changes in interest rates through our 2021 Bonds, see Footnote 15 to the Consolidated Financial Statements for additional information. Our analysis, which may differ from actual results, was based on the anticipated future interest rate that is expected to be entered into under the 2021 Bond remarketing under a Trust Indenture dated April 1, 2021 (the "Indenture") between the Authority and Citibank, N.A. as trustee (the "Trustee"), which is expected to occur no later than April 1, 2024. We anticipate an increase in our interest rates to 4.5%, with a resulting negative impact on our annual interest expense of \$2.0 million.

# Credit Risk

We are subject to credit risk due to the concentration of our RNG receivables with a limited number of significant customers. This concentration increases our exposure to credit risk on our receivables, since the financial insolvency of these customers could have a significant impact on our results of operations.

# **Equity Price Risk**

We have in the past, and may in the future, seek to acquire additional funding by sale of common stock and other equity. 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 at an acceptable price should the need for new equity funding arise.

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# Item 8. Financial Statements and Supplementary Data

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# REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

Board of Directors and Stockholders

Gevo, Inc.

# Opinion on the financial statements

We have audited the accompanying consolidated balance sheets of Gevo, Inc. (a Delaware corporation) and subsidiaries (the "Company") as of December 31, 2023 and 2022, the related consolidated statements of operations, comprehensive income (loss), changes in stockholders' equity, and cash flows for each of the two years in the period ended December 31, 2023, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2023 and 2022, and the results of its operations and its cash flows for each of the two years in the period ended December 31, 2023, in conformity with accounting principles generally accepted in the United States of America.

#### Basis for opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) ("PCAOB") and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

# Critical audit matter

The critical audit matter communicated below is a matter arising from the current period audit of the financial statements that was communicated or required to be communicated to the audit committee and that: (1) relates to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

Consolidation – Variable interest model

As described in Notes 2 and 22 to the consolidated financial statements, the Company enters into agreements with special purpose entities ("SPEs"), some of which are variable interest entities ("VIEs"). The Company consolidates a VIE if it is deemed to be the primary beneficiary. The Company determines it is the primary beneficiary if it has the power to direct the activities that most significantly impact the VIEs' economic performance and has the obligation to absorb losses or has the right to receive benefits of the VIE that could potentially be significant to the VIE. During September 2022 and February 2023, the Company entered into agreements with Zero6 Energy Development, Inc. ("ZEDI") to develop and construct facilities to provide carbon neutral power to their Net Zero 1 project via the two Project LLCs: Kingsbury County Wind Fuel, LLC and Dakota Renewable Hydrogen, LLC, respectively. In December

2023 the agreements with ZEDI related to the two Project LLCs were amended to remove certain kickout rights that previously existed. Each Project LLC is a VIE, and the Company holds an implicit variable interest in each Project LLC. As of December 2023, the Company has concluded that the removal of the kickout rights from the agreements has resulted in a loss of control and that, therefore, the Company is no longer the primary beneficiary of the Project LLCs. We identified the Company's assessment of the primary beneficiary of the Project LLCs as a critical audit matter.

The principal considerations for our determination that performing procedures relating to the deconsolidation of the Project LLCs as VIEs is a critical audit matter are that (i) there is significant judgment by management when determining whether the Company is the primary beneficiary of the VIEs based on the purpose and design of the project LLCs and other legal rights of the parties, including the determination of which party has power to direct the activities that most significantly affect the economic performance of the VIE, as well as the substance of the arrangements, the right to receive potentially significant benefits, indicators if the parties in the arrangements were acting in the role of agents or de facto agents, and (ii) a high degree of auditor judgment, subjectivity and effort in performing procedures and evaluating audit evidence related to the purpose of each Project LLCs rights and obligations of the variable interest holders, mechanisms for the resolution of disputes among variable interest holders, and other agreements with the legal entity and its variable interest holders.

Our audit procedures related to the assessment of the primary beneficiary of the Project LLCs included the following, among others.

- discussing with management the purpose and design of each VIE
- reading the operating agreements and other related legal documents to understand the rights of each party, including the ability to remove the entity that has the power to direct the activities of the VIE
- evaluating management's analysis of significant activities of each VIE such as capital decisions, financing decisions and operating decisions, and which party, if any, has the power to direct such activities. In our evaluation, we considered the purpose and design of the Project LLCs and other legal rights of the parties, including the significance of the decision-making rights of each party in assessing which party has power to direct the activities that most significantly affect the economic performance of the VIE, as well as the substance of the arrangements. We also considered whether there were indicators that parties to the arrangements were acting in the role of agents or de facto agents.

# /s/ GRANT THORNTON LLP

We have served as the Company's auditor since 2015.

Denver, Colorado

March 7, 2024

# GEVO, INC. CONSOLIDATED BALANCE SHEETS (In thousands, except share and per share amounts)

	Note	Dec	December 31, 2023		ember 31, 2022
Assets					
Current assets					
Cash and cash equivalents		\$	298,349	\$	237,125
Marketable securities	6		_		167,408
Restricted cash	7		77,248		1,032
Trade accounts receivable, net			2,623		476
Inventories	10		3,809		6,347
Prepaid expenses and other current assets	8		4,353		3,034
Total current assets			386,382		415,422
Property, plant and equipment, net	11, 23		211,563		185,174
Restricted cash	7		_		77,219
Operating right-of-use assets	9		1,324		1,331
Finance right-of-use assets	9		210		219
Intangible assets, net	12		6,524		7,691
Deposits and other assets	13		44,319		13,692
Total assets		\$	650,322	\$	700,748
Liabilities					
Current liabilities					
Accounts payable and accrued liabilities	14, 23	\$	22,752	\$	24,760
Operating lease liabilities	9		532		438
Finance lease liabilities	9		45		79
Loans payable	15		130		159
2021 Bonds payable, net	15		67,967		_
Total current liabilities			91,426		25,436
2021 Bonds payable, net	15		´ —		67,223
Loans payable	15		21		159
Operating lease liabilities	9		1,299		1,450
Finance lease liabilities	9		187		183
Other liabilities			_		820
Total liabilities			92,933		95,271
Commitments and Contingencies	19				
Stockholders' Equity					
Common stock, \$0.01 par value per share; 500,000,000 shares authorized;					
240,499,833 and 237,166,625 shares issued and outstanding at December 31, 2023,					
and December 31, 2022, respectively.			2,405		2,372
Additional paid-in capital			1,276,581		1,259,527
Accumulated other comprehensive loss			_		(1,040)
Accumulated deficit			(721,597)		(655,382)
Total stockholders' equity			557,389		605,477
Total liabilities and stockholders' equity		\$	650,322	\$	700,748
Town Incomined and Stockholders equity		<u> </u>	000,022	*	, 50, 7 10

# GEVO, INC. CONSOLIDATED STATEMENTS OF OPERATIONS (In thousands, except share and per share amounts)

		Year Ended December 31,					
	Note		2023		2022		
Total operating revenues	3, 23	\$	17,200	\$	1,175		
Operating expenses:							
Cost of production	16		11,991		8,698		
Depreciation and amortization	11, 12		19,007		7,887		
Research and development expense	16		6,637		7,427		
General and administrative expense			42,628		39,941		
Project development costs	16		14,732		10,061		
Facility idling costs			4,040		4,599		
Impairment loss	4		_		24,749		
Loss on disposal of assets	11, 12		_		499		
Total operating expenses	16		99,035		103,861		
Loss from operations			(81,835)		(102,686)		
Other income (expense)							
Interest expense			(2,161)		(1,167)		
Interest and investment income	6, 7, 20		19,090		3,481		
Other income (expense), net			(1,309)		2,365		
Total other income, net			15,620		4,679		
Net loss		\$	(66,215)	\$	(98,007)		
Net loss per share - basic and diluted	5	\$	(0.28)	\$	(0.44)		
Weighted-average number of common shares outstanding - basic and diluted	5		238,687,621		221,537,262		

# GEVO, INC. CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (LOSS) (in thousands)

		Year Ended I	)ecem	ber 31,
	Note	2023		2022
Net loss		\$ (66,215)	\$	(98,007)
Other comprehensive income (loss):				
Unrealized gain (loss) on available-for-sale securities	6	1,040		(426)
Comprehensive loss		\$ (65,175)	\$	(98,433)

# GEVO, INC. CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY (In thousands, except share amounts)

	Note	Common S Shares	tock Amount	Paid-In Capital	Accumulated Other Comprehensive Loss	Accumulated Deficit	Stockholders' Equity
Balance,							,
December 31, 2021		201,988,662	\$ 2,020	\$ 1,103,224	\$ (614)	\$ (557,375)	\$ 547,255
Issuance of common							
stock and common stock							
warrants, net of issuance							
costs	21	33,333,336	333	138,675	_	_	139,008
Issuance of common							
stock upon exercise of							
warrants	21	4,677	_	3	_	_	3
Non-cash stock-based							
compensation	16	_	_	17,419	_	_	17,419
Stock-based awards and							
related share issuances,							
net	21	1,839,950	19	206	_	_	225
Other comprehensive							
loss		_		_	(426)	_	(426)
Net loss		_	_	_	_	(98,007)	(98,007)
Balance,							
December 31, 2022		237,166,625	\$ 2,372	\$ 1,259,527	\$ (1,040)	\$ (655,382)	\$ 605,477
Non-cash stock-based							
compensation	16	_	_	17,087	_	_	17,087
Stock-based awards and							
related share issuances,							
net	21	3,333,208	33	(33)	_	_	_
Other comprehensive							
income		_	_	_	1,040	_	1,040
Net loss				_	_	(66,215)	(66,215)
Balance,							
December 31, 2023		240,499,833	\$ 2,405	\$ 1,276,581	<u> </u>	\$ (721,597)	\$ 557,389

# GEVO, INC. CONSOLIDATED STATEMENTS OF CASH FLOWS (In thousands)

No	<u> </u>	Year Ended I 2023	Decem	ber 31, 2022
Operating Activities	<u> </u>	2023		2022
Net loss	\$	(66,215)	\$	(98,007)
Adjustments to reconcile net loss to net cash used in operating activities:		(00,200)	•	(20,001)
Impairment loss 4		_		24,749
Loss on disposal of assets	3	_		499
Stock-based compensation 16	5	17,087		17,419
Depreciation and amortization 11,	12	19,007		7,887
Amortization of marketable securities (discount) premium 6		(102)		2,723
Other noncash expense (income)		908		877
Changes in operating assets and liabilities:				
Accounts receivable		(2,147)		502
Inventories 10	)	670		(2,004)
Prepaid expenses and other current assets, deposits and other assets 8, 1	13	(25,620)		(2,591)
Accounts payable, accrued expenses and non-current liabilities 14	1	2,693		3,635
Net cash used in operating activities		(53,719)		(44,311)
Investing Activities				
Acquisitions of property, plant and equipment 11,	23	(54,455)		(84,077)
Acquisition of patent portfolio	2	_		(10)
Proceeds from maturity of marketable securities 6		168,550		299,581
Purchase of marketable securities 6		_		(130,402)
Proceeds from sale of property, plant and equipment	l	34		_
Net cash provided by investing activities		114,129		85,092
Financing Activities				
Debt and equity offering costs	l	_		(10,993)
Proceeds from issuance of common stock and common stock warrants	l	_		150,000
Proceeds from exercise of warrants	l	_		3
Net settlement of common stock under stock plans	5	_		(286)
Payment of loans payable	5	(167)		(150)
Payment of finance lease liabilities 9		(22)		(12)
Net cash (used in) provided by financing activities		(189)		138,562
Net increase in cash and cash equivalents		60,221		179,343
Cash, cash equivalents and restricted cash at beginning of period		315,376		136,033
Cash, cash equivalents and restricted cash at end of period	\$	375,597	\$	315,376

# GEVO, INC. CONSOLIDATED STATEMENTS OF CASH FLOWS—(Continued) (In thousands)

	 Year Ended	Decem	iber 31,
Schedule of cash, cash equivalents and restricted cash	2023		2022
Cash and cash equivalents	\$ 298,349	\$	237,125
Restricted cash (current)	77,248		1,032
Restricted cash (non-current)	_		77,219
Total cash, cash equivalents and restricted cash	\$ 375,597	\$	315,376
	 ,		,
	 Year Ended	Decem	iber 31,
Supplemental disclosures of cash and non-cash investing and financing transactions	2023		2022
Cash paid for interest, net of amounts capitalized	\$ 1,029	\$	522
Non-cash purchase of property, plant and equipment	8,174		13,837
Right-of-use asset purchased with operating lease	199		_

# GEVO, INC. Notes to Consolidated Financial Statements

# 1. Nature of Business, Financial Condition and Basis of Presentation

Nature of business. Gevo, Inc. (Nasdaq: GEVO) ("Gevo", "we", "us", "our", or the "Company," which, unless otherwise indicated, refers to Gevo, Inc. and its subsidiaries), a Delaware corporation founded in 2005, is a growth-oriented, carbon abatement company with the mission of solving greenhouse gas ("GHG") emissions for those sectors of the transportation industry that are not amenable to electrification or hydrogen.

The Company is focused on transforming renewable energy into energy-dense liquid drop-in hydrocarbons that can be used as renewable fuels, such as sustainable aviation fuel ("SAF") and other fuels and chemicals, with the potential to achieve a "net-zero" GHG, or even carbon negative footprint measured by the Argonne National Laboratory's GREET (Greenhouse gases, Regulated Emissions, and Energy use in Transportation) model (the "GREET Model") to measure, predict and verify GHG emissions across the life-cycle. Our "net-zero" concept means production of drop-in hydrocarbon fuels by using sustainably grown feedstocks (e.g., low till, no-till and dry corn cultivation), renewable and substantially decarbonized energy sources, resulting in a net-zero carbon footprint from the full life cycle of the fuel measured from the capture of renewable carbon through the burning of the fuel.

Gevo's primary market focus, given current demand and growing customer interest, is SAF. The Company believes that SAF from carbohydrates to alcohol is the most economically viable approach for carbon abatement. The Company also has commercial opportunities for other renewable hydrocarbon products, such as (i) renewable natural gas, also known as biogas ("RNG"), (ii) hydrocarbons for gasoline blendstocks and diesel fuel, and (iii) plastics, materials and other chemicals. We are engaged in technology, process and intellectual property development targeted to large scale deployment of net-zero hydrocarbon fuels and chemicals. We are developing the marketplace and customers for SAF and other related products. We also are engaged as a developer and enabler/licensor for large scale commercial production, and we expect to be a co-investor on certain projects. Gevo's business model is that of a developer of projects, a licensor, process technology developer, and operator of certain assets in the future.

#### Net-Zero Projects

In early 2021, we announced our proprietary "Net-Zero Projects" that we developed and engineered as a series of planned facilities to produce energy dense liquid hydrocarbons using renewable energy and our proprietary technology. Our Net-Zero Projects will convert renewable energy (e.g., photosynthetic, wind, RNG) from a variety of sources into energy dense liquid hydrocarbons that, when burned in traditional engines, has the potential to achieve net-zero GHG emissions across the whole lifecycle of the liquid fuel: from the way carbon is captured from the atmosphere, processed to make liquid fuel products, and burned as a fuel for planes, cars, trucks, and ships. Gevo has engineered, developed, and owns our Net-Zero plant designs, and the overall Gevo Net-Zero process (i.e., the process to enable carbon-negative olefins, and hydrocarbon fuels with an anticipated net-zero or better carbon footprint measured across the lifecycle of the whole processes). The proprietary Gevo Net-Zero processes and plant designs are based upon the conversion of carbohydrates to alcohols, then the conversion of the alcohols to olefins (i.e., building blocks for chemicals, plastics, and fuels), and then the conversion of the olefins into fuels, all optimized and integrated to achieve a net-zero carbon footprint. In the fermentation section of our plant design, we work with Fluid Quip Technologies, LLC and PRAJ Industries Limited ("PRAJ"), as well as other suppliers of unit operations, and using Axens North America, Inc. ("Axens") as the unit operation technology supplier for producing olefins and fuels. Gevo has developed and owns the overall proprietary plant designs, engineering details, integration technologies, and has filed patents on several process improvements.

In November 2021, Gevo entered into an agreement to exclusively utilize Axens' technology for isobutanol conversion into hydrocarbons. In February of 2022, Gevo and Axens entered into a second exclusive agreement to specifically cover the process steps for ethanol to finished jet fuel.

Our initial Net-Zero Project, Net-Zero 1 ("NZ1"), is expected to be located in Lake Preston, South Dakota, and is being currently designed to produce approximately 65 million gallons per year ("MGPY") of total hydrocarbon volumes, including 60 MGPY of SAF. Along with the hydrocarbons, NZ1 is being currently designed to produce approximately 1,390 million pounds per year of high-value protein products for use in the food chain and more than 34 million pounds per year of corn oil. Our products will be produced in three steps; the first step is milling the corn and the production of protein, oil, and carbohydrates, the second step produces alcohols using fermentation and the third step is the conversion of the alcohols into hydrocarbons.

We also are developing other commercial production projects for SAF at other locations in the United States where we expect to use our Net-Zero plant designs based on work done for NZ1 at Lake Preston. Gevo expects to play the role of project developer, plant design and technology licensor, and investor, based on traditional developer business models where the developer gets a partial ownership stake for developing the project. We may also co-invest in projects to increase our equity ownership in those projects.

# Renewable Natural Gas Project

Gevo's RNG facilities in Northwest Iowa ("NW Iowa RNG") are owned by Gevo NW Iowa RNG, LLC, and produces RNG captured from dairy cow manure supplied by three local dairies. Animal manure can be digested anaerobically to produce biogas, which is then upgraded to pipeline quality gas referred to as RNG. The original design capacity for this project was 355,000 MMBtu. Gevo NW Iowa RNG, LLC sells the produced RNG to the California market through an agreement with BP Canada Energy Marketing Corp. and BP Products North America Inc. (collectively, "BP"). In addition, NW Iowa RNG generates and sells Low Carbon Fuel Standard ("LCFS") credits as well as D3 Renewable Identification Numbers ("RINs") through the production of RNG (collectively, "environmental attributes").

# Luverne Facility

Gevo's development plant in Luverne, Minnesota (the "Luverne Facility"), recorded in the Agri-Energy segment, was originally constructed in 1998 and is located on approximately 55 acres of land, which contains approximately 50,000 square feet of building space. Gevo may use the Luverne Facility in the future to prove our processes, process concepts, unit operations and for other purposes in order to optimize feedstocks and the processes used for producing hydrocarbons from alcohols. Currently, the activities at the Luverne Facility are minimized to care and maintenance, market development, and customer education.

Financial Condition. The Company has incurred consolidated net losses since inception and had a significant accumulated deficit as of December 31, 2023. The Company's cash and cash equivalents totaled \$298.3 million, and short-term restricted cash totaled \$77.2 million as of December 31, 2023.

#### 2. Summary of Significant Accounting Policies

*Principles of Consolidation.* The Consolidated Financial Statements of Gevo include the accounts of its wholly owned subsidiaries. All intercompany balances and transactions have been eliminated in consolidation.

Basis of Presentation. The Consolidated Financial Statements of the Company (which include the accounts of its wholly-owned subsidiaries Gevo Asset, LLC, Gevo RNG Holdco, LLC, Gevo NW Iowa RNG, LLC, Gevo Net-Zero HoldCo, LLC, Gevo Net-Zero 1, LLC, Gevo Net-Zero Operations, LLC, Gevo Net-Zero Asset Management, LLC, and Agri-Energy, LLC) have been prepared pursuant to the rules and regulations of the U.S. Securities and Exchange Commission (the "SEC") and accounting principles generally accepted in the U.S. ("U.S. GAAP") for complete financial statements. These statements reflect all normal and recurring adjustments which, in the opinion of management, are necessary to present fairly the financial position, results of operations and cash flows of the Company at December 31, 2023.

Reclassifications. The Company reclassified certain prior period amounts to conform to the current period presentation. The reclassifications included the categorization of depreciation and amortization on the Consolidated Statements of Operations and had no impact on total revenues, total operating expenses, net loss or stockholders' equity for any period.

Use of Estimates. The preparation of consolidated financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ materially from those estimates.

Concentrations of Credit Risk and Major Customers. The Company's financial instruments that are exposed to concentrations of credit risk consist of cash and cash equivalents in excess of the federally insured limits. The Company's cash and cash equivalents are deposited with high credit-quality financial institutions and are primarily in demand deposit accounts and money market funds. As of December 31, 2023, and 2022, one customer accounted for 100% of trade accounts receivable, net, and 90% and 73% of total revenue, respectively.

Cash, Cash Equivalents and Restricted Cash. The Company maintains its cash and cash equivalents in highly liquid interest-bearing money market accounts or non-interest-bearing demand accounts. The Company considers all highly liquid investments purchased with a maturity of three months or less at the date of acquisition to be cash equivalents. Restricted cash is classified as current or non-current based on the terms of the underlying agreements and represents cash held as deposits and cash collateral for financial letters of credit.

Marketable Securities. The Company's marketable securities consist of marketable debt securities and have been classified and accounted for as available-for-sale. Management determines the appropriate classification of its investments at the time of purchase and reevaluates the classifications at each balance sheet date. The Company classifies its marketable securities as either short-term or long-term based on each instrument's underlying contractual maturity date. Marketable securities with maturities of 12 months or less are classified as short-term and marketable securities with maturities greater than 12 months are classified as long-term. The Company's marketable securities are carried at fair value, with unrealized gains and losses, net of taxes, reported as a component of accumulated other comprehensive loss in shareholders' equity, with the exception of unrealized losses believed to be other-than-temporary, which are reported in earnings in the current period.

*Trade Accounts Receivable, net.* The Company records receivables for products shipped but for which payment has not yet been received. In evaluating its allowance for doubtful accounts for accounts receivable, the Company performs ongoing reviews of its outstanding receivables to determine if any amounts are uncollectible and adjusts the allowance for doubtful accounts accordingly.

Inventories. Inventory is recorded at net realizable value. Isobutanol and ethanol inventory cost consists of the applicable share of raw material, direct labor and manufacturing overhead. Work in process inventory includes unfinished SAF, isooctane and isooctene inventory. Spare Parts inventory consists of the parts required to maintain and operate the Company's Luverne Facility and is recorded at cost. For each reporting period, the Company reviews the value of inventories on hand to estimate the recoverability through future sales. The Company reduces its inventories with adjustments for lower of cost or net realizable value, with cost determined by the average cost method.

Environmental Attribute Inventory. The Company generates D3 Renewable Identification Numbers ("RINs") and Low Carbon Fuel Standard ("LCFS") credits (collectively, "environmental attributes") through the production of RNG used for transportation purposes as prescribed under the Renewable Fuels Standard program ("RFS"). Environmental attribute inventory is included as a component of "Inventories" on the Consolidated Balance Sheets. The Company considers environmental attributes to be a distinguishable product that is generated as an integral component of the production process of RNG as the environmental attributes that are generated can be separated from the underlying commodity and may be sold independently from the RNG produced. As such, the Company considers environmental attributes to be a co-product of the production of RNG and accordingly allocates the costs of production based on the relative sales value of all revenue items for the NW Iowa RNG operations. The value of the environmental attributes is reviewed for potential write-downs based on the net realizable value methodology. Revenue is recognized on these environmental attributes when there is an agreement in place to monetize the credits at an agreed upon price with a customer based upon defined third party market prices and a transfer of control has occurred.

*Property, Plant and Equipment.* Property, plant and equipment are recorded at cost less accumulated depreciation and amortization. Leasehold improvements are amortized over the term of the lease agreement or the service lives of the improvements, whichever is shorter. Assets under construction are depreciated when they are placed into service. Maintenance and repairs are charged to expense as incurred and expenditures for major improvements are capitalized.

Construction in Progress. Construction in progress represents expenditures necessary to bring an asset, project, new facilities or equipment to the condition and location necessary for its intended use and are capitalized and recorded at cost. Once completed and ready for its intended use, the asset is transferred to property, plant and equipment to be depreciated or amortized.

Depreciation and Amortization. Capitalized costs are depreciated or amortized using the straight-line method at rates sufficient to depreciate such costs over the shorter of estimated productive lives of such assets or the useful life of the individual assets. The estimates of productive lives may change, possibly in the near term, resulting in changes to depreciation and amortization rates in future reporting periods.

Impairment of Long-Lived Assets. The Company evaluates the recoverability of the recorded amount of long-lived assets, including property, plant and equipment, licenses, patents, operating lease right-of-use assets, and finance lease right-of-use assets when events or changes in circumstances indicate that their carrying amount may not be recoverable. The carrying amount of a long-lived asset is considered to be impaired if it exceeds the sum of the undiscounted cash flows expected to result from the use and eventual disposition of the assets. If the Company determines that an asset is impaired, it measures the impairment to be recognized as the amount by which the recorded amount of the asset exceeds its fair value. A summary of impairment losses on tangible and intangible assets for the years ended December 31, 2023, and 2022, is included in Note 4, Asset Impairment.

Leases, Right-of-Use Assets and Related Liabilities. The Company enters into various arrangements which constitute a lease as defined by Accounting Standards Codification ("ASC") 842, Leases, as part of its ongoing business activities and operations. Leases represent a contract or part of a contract that conveys the right to control the use of identified property, plant or equipment (an identified asset) for a period of time in exchange for consideration. Such contracts result in both (a) right-of-use assets, which represent the Company's right to use an underlying asset for the term of the contract; and (b) a corresponding lease liability which represents the Company's obligation to make the lease payments arising from the contract. The Company has elected not to recognize a right-of-use asset and lease liability for any lease with an original lease term of 12 months or less. Lease expense for such leases is recognized on a straight-line basis over the lease term.

A lease is classified as a finance lease when one or more of the following criteria are met: (i) the lease transfers ownership of the asset by the end of the lease term, (ii) the lease contains an option to purchase the asset that is reasonably certain to be exercised, (iii) the lease term is for a major part of the remaining useful life of the asset, (iv) the present value of the lease payments equals or exceeds substantially all of the fair value of the asset, or (v) the asset is of such a specialized nature that it is expected to have no alternative use to the lessor at the end of the lease term. If a lease does not meet any of these criteria, the lease is classified as an operating lease.

Lease liabilities are initially measured at the lease commencement date based on the present value of lease payments over the lease term, discounted using an estimate of the Company's incremental borrowing rate for a collateralized loan with the same term and payment as the lease. Right-of-use assets are measured based on the amount of the lease liability adjusted for any lease payments made to the lessor at or before the lease commencement date less any lease incentives received. All right-of-use assets are evaluated for impairment in accordance with accounting standards applicable to long-lived assets.

Renewal options are included in the calculation of our right-of-use assets and lease liabilities when the Company determines that the option is reasonably certain of exercise based on an analysis of the relevant facts and circumstances. Certain of the Company's leases require variable lease payments that do not depend on an index or rate and such payments are excluded from the calculation of the right-of-use asset and lease liability and are recognized as variable lease cost when incurred.

Lease cost for operating leases consists of the fixed lease payments recognized on a straight-line basis over the lease term plus variable lease payments as incurred. Lease cost for finance leases consists of amortization of the right-of-use assets on a straight-line basis over the lease term, interest expense on the lease liability and variable lease payments as incurred.

The Company has elected the practical expedient to account for the lease and non-lease components as a single lease component for its corporate office lease asset class.

Intangible assets. Intangible assets consist of patents. Costs related to patents, including legal fees, are capitalized and amortized over the estimated useful lives using the straight-line method. Amortization expense is recorded in "Depreciation and amortization" in the Operating expenses section of the Consolidated Statements of Operations. For patents purchased in an asset acquisition, the useful life is determined by valuation estimates of remaining economic life. The patents are included in "Intangible assets, net" on the Consolidated Balance Sheets. The Company periodically evaluates the amortization period and carrying value of its patents to determine whether any events or circumstances warrant revised estimated useful life or reduction in value.

Borrowing Costs. The borrowing costs that are directly attributable to the acquisition and construction of an asset that needs a substantially long period of time for its intended use to begin are capitalized and recorded as part of the cost of the asset when expenditures for the asset and borrowing costs have been incurred, and the activities relating to the acquisition and construction that are necessary to prepare the asset for its intended use have commenced. The capitalization of borrowing costs ceases when the asset under acquisition or construction becomes ready for its intended use and the borrowing costs incurred thereafter are recognized in profit or loss for the current period. The capitalization of borrowing costs is suspended during periods in which the acquisition or construction of an asset is interrupted abnormally and the interruption lasts for more than three months, until the acquisition or construction is resumed.

Debt Issuance Costs and Debt Discounts/Premiums. Debt issuance costs are costs with third parties incurred in connection with the Company's debt financings that have been capitalized and are being amortized over the stated maturity period or estimated life of the related debt using the effective interest method. Debt issuance costs are presented as a direct reduction of the carrying amount of the related debt. Debt discounts, including fees paid to lenders, and debt premiums are amortized over the life of the related debt using the effective interest method. Debt discounts and premiums are presented as a reduction and increase, respectively, in the carrying amount of the related debt. Amortization of debt issuance costs, discounts and premiums is included in interest expense.

Warrants. Warrants are classified as a component of permanent equity when they are freestanding financial instruments that are legally detachable and separately exercisable from the shares of common stock with which they were issued, are immediately exercisable, do not embody an obligation for the Company to repurchase its shares, permit the holders to receive a fixed number of shares of common stock upon exercise and do not provide any guarantee of value or return.

Variable Interest Entities. The Company enters into agreements with special purpose entities ("SPEs"), some of which are variable interest entities ("VIEs"), in the ordinary course of business. A legal entity is considered a VIE if it has either a total equity investment that is insufficient to finance its operations without additional subordinated financial support or whose equity holders lack the characteristics of a controlling financial interest. The Company's variable interests arise from contractual or other monetary interests in the entity. The typical condition for a controlling financial interest ownership is holding a majority of the voting interests of an entity; however, a controlling financial interest may also exist in entities, such as VIEs, through arrangements that do not involve controlling voting interests.

The Company consolidates a VIE if it is deemed to be the primary beneficiary. The Company determines it is the primary beneficiary if it has the power to direct the activities that most significantly impact the VIEs' economic performance and has the obligation to absorb losses or has the right to receive benefits of the VIE that could potentially be significant to the VIE. The Company evaluates its relationships with its VIEs on an ongoing basis to determine whether it is the primary beneficiary. See Footnote 22 below for further information.

Revenue Recognition. The Company recognizes revenue in accordance with ASC 606, Revenue from Contracts with Customers ("ASC 606"). Revenue from the Company's point in time product sales is recognized when products are transferred, or services are invoiced and control transferred. The Company has presented the disclosures required by ASC 606, see Note 3, Revenues from contracts with customers and other revenues.

Cost of Production. Cost of production includes costs incurred in operations for the production of RNG and isobutanol, as well as costs for direct materials, direct labor and certain plant overhead costs, and plant utilities including natural gas and wind power. Direct materials consist of dextrose for initial production of isobutanol, corn feedstock, manure feedstock, denaturant, and process chemicals. Direct labor includes compensation of personnel directly involved in production operations. Plant overhead costs primarily consist of plant utilities. The Company purchases natural gas and wind power to power steam generation in the production process and to dry the distillers grains, a by-product of ethanol and related products production.

Research and Development. Research and development costs are expensed as incurred. The Company's research and development costs consist of expenses incurred to identify, develop, and test its technologies for the production of isobutanol and the development of downstream applications thereof. Research and development expense includes personnel costs (including stock-based compensation), consultants and related contract research, facility costs, supplies, license fees and milestone payments paid to third parties for use of their intellectual property and patent rights and other direct and allocated expenses incurred to support the Company's overall research and development programs.

General and Administrative. General and administrative expenses are expensed as incurred. The Company's general and administrative costs consist of personnel costs (including stock-based compensation), consulting and service provider expenses (including patent counsel-related costs), legal fees, marketing costs, insurance costs, occupancy-related costs, travel and relocation expenses and hiring expenses. Our corporate personnel, consisting of subject matter experts, including chemists, engineers, and sustainability experts, dedicate the majority of their time and efforts for the development of our projects. Costs incurred have not yet been allocated to the specific projects on the face of our financial statements.

*Project Development Costs.* Project development costs consist of consulting, preliminary engineering costs, and personnel costs, including stock-based compensation.

Stock-Based Compensation. The Company's stock-based compensation expense includes expenses associated with share-based awards granted to employees and board members. Our stock-based compensation is classified as either an equity award or a liability award in accordance with U.S. GAAP. The fair value of an equity-classified award is determined at the grant date and is amortized on a straight-line basis over the requisite service period. The fair value of a liability-classified award is determined on a quarterly basis through the final vesting date and is amortized based on the current fair value of the award and the percentage of vesting period incurred to date

The grant date fair value for stock option awards is estimated using the Black-Scholes option pricing model and the grant date fair value for restricted stock awards is based upon the closing price of the Company's common stock on the date of grant. The Company recognizes compensation costs for share-based payment awards granted to employees net of actual forfeitures and recognizes stock-based compensation expense for only those awards expected to vest on a straight-line basis over the requisite service period of the award, which is currently the vesting term of up to three years.

The Company accounts for stock-based employee compensation plans under the fair value recognition and measurement provisions in accordance with applicable accounting standards, which require all stock-based payments to employees, including grants of stock options and restricted stock awards, to be measured based on the grant date fair value of the awards, with the resulting expense generally recognized on a straight-line basis over the period during which the employee is required to perform service in exchange for the award

Stock-based compensation expenses related to restricted stock awards and stock options are recorded net of actual forfeitures in our Consolidated Statements of Operations.

Liability awards are subject to variable accounting treatment, such that they are remeasured at fair value each reporting period through the Consolidated Statements of Operations. Any impact of forfeitures is based on actual forfeitures, although not affecting the fair value measurement of the awards, and are reflected at that time as well.

Income Taxes. In preparing the Consolidated Financial Statements, the Company estimates the actual amount of taxes currently payable or receivable as well as deferred tax assets and liabilities attributable to temporary differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases. Deferred tax assets and liabilities are measured using currently enacted tax rates in effect in the years in which those temporary differences are expected to reverse. Deferred tax assets are be reduced by a valuation allowance if, based on the weight of available evidence, it is more likely than not that some portion or all of the deferred tax assets will not be realized. Changes in deferred tax assets and liabilities generally have a direct impact on earnings in the period of the changes. Where applicable tax laws and regulations are either unclear or subject to varying interpretations, it is possible that changes in these estimates could occur that materially affect the amounts of deferred income tax assets and liabilities recorded in the Consolidated Financial Statements.

Each period, we evaluate the likelihood of whether or not some portion or all of each deferred tax asset will be realized and provide a valuation allowance for those deferred tax assets for which it is more likely than *not* that the related benefits will *not* be realized. When evaluating our valuation allowance, we consider historic and future expected levels of taxable income, the pattern and timing of reversals of taxable temporary timing differences that give rise to deferred tax liabilities, and tax planning initiatives. Levels of future taxable income are affected by, among other things, production costs, interest rates, and federal and local legislation. If we determine that all or a portion of the deferred tax assets will not be realized, a valuation allowance will be recorded with a charge to income tax expense. Conversely, if we determine that we will ultimately be able to realize all or a portion of the related benefits for which a valuation allowance has been provided, all or a portion of the related valuation allowance will be reduced with a credit to income tax expense.

In addition, the calculation of income tax expense involves significant management estimation and judgment involving a number of assumptions. In determining these amounts, management interprets tax legislation in each of the jurisdictions in which we operate and makes estimates of the expected timing of the reversal of future tax assets and liabilities. We also make assumptions about future earnings, tax planning strategies and the extent to which potential future tax benefits will be used. We are also subject to assessments by various taxation authorities which may interpret tax legislation differently, which could affect the final amount or the timing of tax payments.

The Company may from time to time be assessed interest or penalties by major tax jurisdictions, although there have been no such assessments historically with any material impact to its financial results. The Company would recognize interest and penalties related to unrecognized tax benefits within the income tax expense line in the accompanying Consolidated Statements of Operations. Accrued interest and penalties would be included within the related tax liability line in the Consolidated Balance Sheets.

Prior Period Financial Statement Immaterial Adjustment. The Company has entered into agreements with Zero6 Energy Development, Inc. ("ZEDI"), a national clean energy expert that provides expertise in capital management, development, engineering, and asset management, to develop and construct facilities to provide carbon neutral power to NZ1 via the two limited liability companies: Kingsbury Country Wind Fuel, LLC ("KCWF") and Dakota Renewable Hydrogen, LLC ("DRH") (collectively, the "Project LLCs"), respectively, to induce the design and construction of the power generation, transmission and distribution facilities that will serve NZ1. The Project LLCs formed to govern the projects are VIEs. In determining whether the Company was the primary beneficiary of the VIEs, the Company considered both qualitative and quantitative factors regarding the nature, size and form of the involvement with the VIE, such as the role in establishing the VIEs and the ongoing rights and responsibilities; the economic interests deemed to be variable interests in the VIEs; the design of the VIEs, including the capitalization structure, subordination of interests, and payment priority, During the third quarter of 2023, the Company identified that the governance structure and operating procedures of the Project LLCs resulted in the Company having the power to control certain significant activities of the Project LLCs, as defined by Accounting Standards Codification 810 ("ASC 810"), Consolidations. Therefore, the Company is the primary beneficiary of the VIEs, and per ASC 810, must consolidate the VIEs. Prior to the third quarter of 2023, the Company did not consolidate the Project LLCs. The Company assessed the materiality of this correction on the previously issued interim and annual financial statements in accordance with SEC Staff Accounting Bulletin No. 99. The Company concluded that the changes were not material to any of the previously issued consolidated financial statements. The Company's primary involvement with the VIEs is to fund the deposits in order to induce the contractor to design and construct the power generation, transmission and distribution facilities that will serve NZ1. These amounts funded will be either fully reimbursed upon completion of the project or used as an investment into the Project LLC. Gevo has contractual priority liens against the equipment and constructed facilities under the contracts. In December 2023 the agreements with ZEDI related to the two Project LLCs were amended to remove certain kickout rights that previously existed. As of December 2023, we have concluded that the removal of the kickout rights from the agreements has resulted in a loss of control and that, therefore, the Company is no longer the primary beneficiary of the Project LLCs, and accordingly no longer consolidates the Project LLCs. See Footnote 22.

A summary of the impact of the adjustment on the Consolidated Balance Sheets for each of the periods ended December 31, 2022, March 31, 2023, and June 30, 2023, respectively, is as follows: an increase to property, plant, and equipment of \$8.3 million, \$19.0 million, and \$19.7 million, and a corresponding decrease in deposits and other assets of \$8.3 million, \$19.0 million, and \$19.7 million. For the period ended March 31, 2023, a summary of the impact of the adjustment on the Consolidated Balance Sheets is as follows: an increase in trade accounts receivable, net, of \$0.1 million and an increase is accounts payable and accrued liabilities of \$0.1 million. For the period ended June 30, 2023, a summary of the impact of the adjustment on the Consolidated Balance Sheets is as follows: a decrease in accounts payable and accrued liabilities of \$0.3 million and a corresponding decrease to deposits and other assets.

Additionally, the following immaterial adjustments were made to the consolidated statements of cash flows associated with the above changes for each of the periods ended September 30, 2022, December 31, 2022, March 31, 2023, and June 30, 2023, respectively, as follows: a decrease in the net cash used in operating activities of \$8.3 million, \$8.3 million, \$10.7 million, and \$11.4 million, and a corresponding decrease in the net cash provided by investing activities reported for the periods then ended, respectively, as a result of these changes. The reclassification was made for presentation purposes and had no impact on the consolidated statements of operations and comprehensive income.

#### Recently Issued, Not Yet Adopted Accounting Pronouncements

Segment Reporting. In November 2023, the FASB issued ASU 2023-07, Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures ("ASU 2023-07"). ASU 2023-07 would enhance disclosures for significant segment expenses for all public entities required to report segment information in accordance with ASC 280. ASC 280 requires a public entity to report for each reportable segment a measure of segment profit or loss that its chief operating decision maker ("CODM") uses to assess segment performance and to make decisions about resource allocations. The amendments in ASU 2023-07 improve financial reporting by requiring disclosure of incremental segment information on an annual and interim basis for all public entities to enable investors to develop more useful financial analyses. Currently, Topic 280 requires that a public entity disclose certain information about its reportable segments. For example, a public entity is required to report a measure of segment profit or loss that the CODM uses to assess segment performance and make decisions about allocating resources. ASC 280 also requires other specified segment items and amounts such as depreciation, amortization and depletion expense to be disclosed under certain circumstances. The amendments in ASU 2023-07 do not change or remove those disclosure requirements. The amendments in ASU 2023-07 also do not change how a public entity identifies its operating segments, aggregates those operating segments, or applies the quantitative thresholds to determine its reportable segments. The amendments in ASU 2023-07 are effective for fiscal years beginning after December 15, 2023, and interim periods within fiscal years beginning after December 15, 2024. Early adoption is permitted. A public entity should apply the amendments in ASU 2023-07 retrospectively to all prior periods presented in the financial statements. The Company is currently evaluating the impact that ASU 2023-07 may have on its financial statements and related disclosures when adopted.

Income Taxes. In December 2023, the FASB issued ASU 2023-09, "Income Taxes (Topic 740): Improvements to Income Tax Disclosures". ASU 2023-09 is intended to enhance the transparency and decision usefulness of income tax disclosures. The amendments in ASU 2023-09 address investor requests for enhanced income tax information primarily through changes to the rate reconciliation and income taxes paid information. Early adoption is permitted. A public entity should apply the amendments in ASU 2023-09 prospectively to all annual periods beginning after December 15, 2024. The Company is currently evaluating the impact of this standard on our consolidated financial statements and related disclosures.

## 3. Revenues from Contracts with Customers and Other Revenue

# **RNG** Revenue

The Company's revenues are primarily comprised of the sale of RNG and related environmental attributes produced at the NW Iowa RNG facility under long-term contracts with customers. Revenue is recognized at a point in time when the Company transfers the product to its customer. The customer obtains control of the product upon RNG delivery into gas pipeline system, whereas the title and control for the environmental attributes are transferred to the customer subsequent to the issuance of such attributes by the relevant regulatory agency. The Company generally has a single performance obligation in our arrangements with customers. The Company's performance obligation related to the sales of RNG and related environmental attributes are satisfied at a point in time upon delivery to the customer. Revenue is measured as the amount of consideration the Company expects to receive in exchange for transferring its products. There is no variable consideration present in the Company's performance obligations. Consideration for each transaction is based upon quoted market prices at the time of delivery. All material contracts have payment terms of between one to three months and there are no return or refund rights.

# Licensing and Development Revenue

The Company's licensing and development revenue is related to a joint development agreement with LG Chem, Ltd. ("LG Chem") to develop bio-propylene for renewable chemicals using Gevo's Ethanol-to-Olefins ("ETO") technology. As the contractually promised intellectual properties ("IP") are not individually distinct, the Company combined each individual IP noted in the contract into a bundle of IP ("IP Rights") that is distinct and accounted for all of the IP Rights promised in the contract as a single performance obligation. The IP Rights granted were "functional IP rights" that have significant standalone functionality. The Company's subsequent activities do not substantively change that functionality and do not significantly affect the utility of the IP to which the licensee has rights. The Company has no further obligation with respect to the grant of IP Rights, including no expressed or implied obligation to maintain or upgrade the technology, or provide future support or services. Licensees legally obtain control of the IP Rights upon execution of the contract. As such, the earnings process is complete and revenue is recognized upon the execution of the contract, when collectability is probable and all other revenue recognition criteria have been met.

#### Other Hydrocarbon Revenue

The Company recorded limited revenues from its development-scale plant, the Luverne Facility, during the year ended December 31, 2023, and 2022. These revenues were promotional in nature and from customer contracts for ethanol sales and related products and hydrocarbon revenues, which included isooctene, isooctane, and SAF. These products were sold mostly on a free-on-board shipping point basis (recognized at a point in time), were independent transactions, did not provide post-sale support or promises to deliver future goods, and were single performance obligations.

The following tables display the Company's revenue by major source based on product type (in thousands):

	Year Ende	d December 31,
Major Goods/Service Line	2023	2022
Renewable natural gas commodity	659	640
Environmental attribute revenue	14,798	214
Licensing and development revenue	1,300	_
Other hydrocarbon revenue - ethanol, isooctane, IBA	443	321
Total operating revenue	\$ 17,200	\$ 1,175

Contract Assets and Trade Receivables. As of December 31, 2023, and 2022, there were no contract assets or liabilities as all customer amounts owed to the Company are unconditional and the Company does not receive payment in advance for its products. Accordingly, amounts owed by customers are included in "Trade accounts receivable, net" on the Company's Consolidated Balance Sheets. In addition, due to the nature of the Company's contracts, there are no costs incurred or to be paid in the future that qualify for asset recognition as a cost to fulfill or obtain a contract. No allowance for doubtful accounts was recorded for each of the years ended December 31, 2023, and 2022.

# 4. Asset Impairment

There were no impairment losses recorded during the year ended December 31, 2023.

During the year ended December 31, 2022, the Company recorded a \$24.7 million impairment loss on long-lived assets, to reduce the carrying value of certain property, plant, and equipment, and a leased right of use ("ROU") asset, at the Agri-Energy, LLC ("Agri-Energy") segment to its fair value. The impairments recorded to date relate to the decision to suspend production at the Luverne Facility and shift the plant into an idled, care and maintenance status during the third quarter of 2022. As a result of this change in use, combined with a sustained history of operating losses, the Company assessed that indicators of impairment were present for long-lived assets within its Agri-Energy reporting segment. The Company therefore performed impairment testing and determined that the carrying amounts of certain property plant and equipment and the leased ROU asset exceeded estimated fair values. The Company estimated the fair value of these asset groups generally using a cost approach which is based on replacement or reproduction costs of the assets and is considered a Level 2 measurement and recorded a corresponding impairment loss under Operating Expenses within the Consolidated Statements of Operations.

#### 5. Net Loss per Share

Basic net loss per share is calculated based on the weighted average number of common shares outstanding for the period. Diluted net loss per share is calculated based on the assumption that stock options and other dilutive securities outstanding, which have an exercise price less than the average market price of the Company's common shares during the period, would have been exercised on the later of the beginning of the period or the date granted, and that the funds obtained from the exercise were used to purchase common shares at the average market price during the period. None of the Company's stock options or other dilutive securities are considered to be dilutive in periods with net losses.

The effect of the Company's dilutive securities is calculated using the treasury stock method and only those instruments that result in a reduction in net income per common share are included in the calculation. Diluted net loss per share excluded common stock equivalents because the effect of their inclusion would be anti-dilutive or would decrease the reported net loss per share. Therefore 50,373 and 69,245 of dilutive common stock equivalents have been excluded for the years ended December 31, 2023, and 2022, respectively, as the Company is in a net loss position. See Notes 16 and 21 for all outstanding options and warrants that were not included in the computation of diluted weighted average common shares outstanding, as the exercise price of the options and warrants exceeded the average price of the Company's common stock during the reporting period, and therefore are anti-dilutive.

Basic and diluted net loss per share is calculated as follows (net loss in thousands):

	 Year Ended December 31,					
	2023		2022			
Net loss	\$ (66,215)	\$	(98,007)			
Basic weighted-average shares outstanding	 238,687,621		221,537,262			
Net loss per share - basic and diluted	\$ (0.28)	\$	(0.44)			

# 6. Marketable Securities

The Company's investments in marketable securities are stated at fair value and are available for sale. During the year ended December 31, 2023, all remaining investments in marketable securities matured with no realized gain or loss. The following table summarizes the Company's investments in marketable securities (in thousands) as of:

		December 31, 2022									
	Maturity		Amortized Cost Basis		Cost		Cost		Gross Unrealized Losses		Fair Value
Marketable securities (current)											
U.S. Treasury notes	Within one year	\$	56,418	\$	(344)	\$	56,074				
U.S. Government-sponsored enterprise securities	Within one year		112,030		(696)		111,334				
Total marketable securities (current)		\$	168,448	\$	(1,040)	\$	167,408				

The cost of securities sold is based upon the specific identification method. Interest income from marketable securities totaled \$0.8 million and \$4.3 million for the years ended December 31, 2023, and 2022, respectively, and is included in "Interest and investment income" in the Consolidated Statements of Operations.

#### 7. Restricted Cash

As of December 31, 2023, current restricted cash of \$77.3 million consists of amounts held as collateral for letters of credit to provide financing support for development and construction of the NW Iowa RNG and NZ1 projects.

The Company entered into an irrevocable direct pay letter of credit (the "Bond Letter of Credit") with Citibank N.A ("Citibank") in April 2021 to support the 2021 Bonds (as defined below) for the development and construction of NW Iowa RNG. See Note 14, Debt, for additional information on the 2021 Bonds. The Bond Letter of Credit has a 0.5% annual fee and expires April 4, 2024 (unless terminated earlier). The Company deposited \$71.2 million with Citibank as restricted cash to secure any amounts drawn under the Bond Letter of Credit. As of December 31, 2023, no amounts have been drawn under the Bond Letter of Credit.

In September 2022, the Company entered into a Pledge and Assignment agreement with Citibank to provide credit support in the form of a letter of credit (the "Power Letter of Credit") from Citibank to a local electric utility company in order to induce the utility company to design and construct the power transmission and distribution facilities that will serve NZ1. The Company deposited \$6.6 million of restricted cash in an account with Citibank to collateralize the Power Letter of Credit, which has a 0.3% annual fee and expires September 30, 2024 (unless terminated earlier). As of December 31, 2023, no amounts have been drawn under the Power Letter of Credit. In January 2024, Citibank was notified by the local electric utility company to close the letter of credit, as the Company has discontinued its relationship with the local utility, and fulfilled all obligations under the Power Letter of Credit.

The Company is entitled to receive interest income on the restricted cash, and recorded interest income of \$3.4 million and \$0.5 million for the years ended December 31, 2023, and 2022, respectively, included in "Other income, net" in the Consolidated Statements of Operations.

#### 8. Prepaid and Other Current Assets

The following table sets forth the components of the Company's prepaid and other current assets (in thousands) as of:

		,		
		2023		2022
Prepaid insurance	\$	568	\$	911
Interest receivable		1,331		514
Prepaid feedstock		1,097		1,097
Other current assets		1,357		512
Total prepaid expenses and other current assets	\$	4,353	\$	3,034

#### 9. Leases, Right-of-Use Assets and Related Liabilities

The Company is party to an operating lease contract for the Company's office and research facility in Englewood, Colorado, which expires in January 2029. The lease contains an option to extend the lease which management does not reasonably expect to exercise, so it is not included in the length of the term. The Company also has one production line piece of equipment with an operating lease that expires in 2024.

The Company has four finance leases for land under arrangements related to NW Iowa RNG. Under these contracts, the Company leases land from dairy farmers on which it has built three anaerobic digesters, and related equipment and pipelines to condition raw biogas from cow manure provided by the farmers. The partially conditioned biogas is transported from the three digester sites to a central gas upgrade system located at the fourth site that upgrades the biogas to pipeline-quality RNG for sale. These leases expire at various dates between 2031 and 2050. The Company accounts for lease components separately from non-lease components for the Company's dairy lease asset class. The total consideration in the lease agreement is allocated to the lease and non-lease components based on their relative standalone selling prices.

The following tables present the (i) other quantitative information and (ii) future minimum payments under non-cancelable financing and operating leases as they relate to the Company's leases (in thousands), except for weighted averages:

	Years Ended December 31			
		2023		2022
Other Information				
Cash paid for amounts included in the measurement of lease liabilities:				
Operating cash flows from finance leases	\$	22	\$	30
Operating cash flows from operating leases		330		928
Finance cash flows from finance leases		2		2
Right-of-use asset obtained in exchange for new operating lease liabilities		199		_
Weighted-average remaining lease term, finance lease (months)		307		311
Weighted-average remaining lease term, operating leases (months)		61		65
Weighted-average discount rate - finance leases (1)		12 %	)	12 %
Weighted-average discount rate - operating leases (1)		6 %	1	5 %

(1) Our leases do not provide an implicit interest rate, and we calculate the lease liability at lease commencement as the present value of unpaid lease payments using our estimated incremental borrowing rate. The incremental borrowing rate represents the rate of interest that we would have to pay to borrow an amount equal to the lease payments on a collateralized basis over a similar term and is determined using a portfolio approach based on information available at the commencement date of the lease.

Year Ending December 31,	Operating Leases		Finance Leases	
2024	\$	617	\$	50
2025		398		27
2026		367		25
2027		335		26
2028		345		26
2029 and thereafter		_		523
Total		2,062		677
Less: amounts representing present value discounts		231		445
Total lease liabilities		1,831		232
Less: current portion		532		45
Non-current portion	\$	1,299	\$	187

#### 10. Inventories

The following table sets forth the components of the Company's inventory balances (in thousands) as of:

	Decem	ber 31,	
	2023		2022
Raw materials	\$ 104	\$	168
Finished goods			
SAF, Isooctane, Isooctene and other	1,167		1,581
Work in process			
Environmental attributes	2,067		4,193
Jet fuel	_		51
Spare parts	471		354
Total inventories	\$ 3,809	\$	6,347

During the years ended December 31, 2023, and 2022, the Company recorded net realizable value adjustments of \$1.9 million and \$0.4 million, respectively, included in Cost of production in the Consolidated Statements of Operations.

#### 11. Property, Plant and Equipment

The following table sets forth the Company's property, plant and equipment by classification (in thousands):

	Useful Life	Decei	mber 31,	,
	(in years)	2023		2022
Land		\$ 6,505	\$	6,452
Plant facilities and infrastructure	5 to 20	77,329		76,900
Machinery and equipment	5 to 20	95,212		87,248
Furniture and office equipment	3 to 7	2,864		2,977
Software	3 to 6	1,636		2,217
Construction in progress		114,332		81,019
Total property, plant and equipment		297,878	2	256,813
Less: accumulated depreciation and amortization		(86,315)	) (	(71,639)
Property, plant and equipment, net		\$ 211,563	\$ 1	85,174

The Company recorded depreciation expenses of \$17.6 million and \$6.5 million for the years ended December 31, 2023, and 2022, respectively.

At December 31, 2023, and 2022, construction in progress included accruals of \$7.0 million and \$13.8 million, respectively.

Construction in progress includes \$34.7 million for Gevo, \$15.5 million for Agri-Energy related to a fractionation and hydrocarbon skid, \$0.6 million for NW Iowa RNG and \$63.5 million for NZ1 at December 31, 2023. Construction in progress includes \$25.9 million for Gevo, \$11.4 million for Agri-Energy, \$1.0 million for NW Iowa RNG and \$42.7 million for NZ1 at December 31, 2022. Construction in progress is not subject to depreciation until the assets are placed into service.

Borrowing costs. Borrowing costs directly attributable to acquisition and construction of an asset are capitalized until it is completed and ready for its intended use, and thereafter are recognized in profit or loss for the current period. The Company did not capitalize interest expense during the year ended December 31, 2023, and capitalized \$0.3 million of interest expense for the year ended December 31, 2022.

# 12. Intangible Assets

Identifiable intangible assets consist of patents, which management evaluates to determine whether they (i) support current products, (ii) support planned research and development, or (iii) prevent others from competing with Gevo's products.

The following tables set forth the Company's intangible assets by classification (in thousands) as of:

	December 31, 2023								
		Gross Carrying Amount		cumulated ortization	In	entifiable tangible ssets, net	Weighted- Average Useful Life (Years)		
Patents	\$	4,580	\$	(1,621)	\$	2,959	7.4		
Defensive assets		4,900		(1,335)		3,565	8.4		
Intangible assets	\$	9,480	\$	(2,956)	\$	6,524	7.9		

	December 31, 2022								
	Gross Carrying Amount				Ir	entifiable ntangible ssets, Net	Weighted- Average Useful Life (Years)		
Patents	\$	4,580	\$	(1,039)	\$	3,541	7.4		
Defensive assets		4,900		(750)		4,150	8.4		
Intangible assets	\$	9,480	\$	(1,789)	\$	7,691	7.9		

The Company recorded amortization expense of \$1.2 million and \$1.3 million for the years ended December 31, 2023, and 2022, respectively.

The following table details the estimated amortization of identifiable intangible assets as of December 31, 2023 (in thousands):

Year Ending December 31,	Patents	Defensive Assets		Defensive Assets		Defensive Assets		Total
2024	\$ 582	\$ 58	6	\$ 1,168				
2025	582	58	6	1,168				
2026	582	58	6	1,168				
2027	582	58	6	1,168				
2028	582	58	6	1,168				
2029 and thereafter	49	63	5	684				
Total intangible assets	\$ 2,959	\$ 3,56	5	\$ 6,524				

# 13. Deposits and Other Assets

The following table sets forth the components of the Company's deposits and other assets (in thousands) as of:

	Year Ended	December 31,
	2023	2022
Deposits (1)	\$ 166	\$ 276
Prepaid feedstock (2)	440	934
Equity interest <sup>(3)</sup>	1,500	1,500
Exclusivity fees (4)	583	2,522
Deposits receivable (5)	33,602	_
Other assets, net <sup>(6)</sup>	8,028	8,460
Total deposits and other assets	\$ 44,319	\$ 13,692

- (1) Deposits for services and products.
- (2) Prepaid feedstock fees, non-current, for the production of RNG.
- (3) The Company directly holds a 4.6% interest in the Series A Preferred Stock of Zero6 Clean Energy Assets, Inc. ("Zero6"), formerly Juhl Clean Energy Assets, Inc., which is not a publicly listed entity with a readily determinable fair value. The Company therefore measures the securities at cost. Recent observable equity raises indicated no impairment issues. This ownership interest is also pledged as collateral against two future obligations to Rock County Wind Fuel, LLC ("RCWF"), a Zero6 subsidiary, see Note 19, Commitments and Contingencies, for additional information.
- (4) Axens North America, Inc. ("Axens") will provide certain alcohol-to-SAF technologies and services exclusively provided to the Company which may be offset against future license fees subject to the delivery of a process design package.
- (5) Deposits provided to a developer of certain wind-farm projects and power utility contractor to induce to design and construct the power generation, transmission and distribution facilities that will serve NZ1, \$5.5 million of which will be either reimbursed or used as an investment into wind generation facility and the remaining \$28.1 million is expected to be fully reimbursed upon completion of the project. Gevo has contractual priority liens against the equipment and constructed facilities under the contracts.
- (6) Payments which were allocated to the non-lease fuel supply, primarily related to sand separation systems, to support NW Iowa RNG fuel supply agreements prior to commencement of operations, being amortized over the life of the project.

#### 14. Accounts Payable and Accrued Liabilities

The following table sets forth the components of the Company's accounts payable and accrued liabilities in the Consolidated Balance Sheets (in thousands):

	 Year Ended December 31,				
	2023	2022			
Accounts payable	\$ 2,718	\$	5,009		
Accrued liabilities	13,411		12,594		
Accrued payroll and related benefits	6,621		5,105		
Accrued sales and use tax	2		2,052		
Total accounts payable and accrued liabilities	\$ 22,752	\$	24,760		

#### 15. Debt

#### 2021 Bond Issuance

On April 15, 2021, on behalf of Gevo NW Iowa RNG, LLC, the Iowa Finance Authority (the "Authority") issued \$68,155,000 of its non-recourse Solid Waste Facility Revenue Bonds (Gevo NW Iowa RNG, LLC Renewable Natural Gas Project), Series 2021 (Green Bonds) (the "2021 Bonds") for NW Iowa RNG. The bond proceeds were used as a source of construction financing alongside equity from the Company. The bonds were issued under a Trust Indenture dated April 1, 2021 (the "Indenture") between the Authority and Citibank, N.A. as trustee (the "Trustee"). The 2021 Bonds mature April 1, 2042. The bonds bear interest at 1.5% per annum during the Initial Term Rate Period, (as defined in the Indenture), payable semi-annually on January 1 and July 1 of each year. The effective interest rate is 1.1%. The bonds are supported by the \$71.2 million Bond Letter of Credit; see Note 7, Restricted Cash. The Trustee can draw sufficient amounts on the Bond Letter of Credit to pay the principal and interest until the first mandatory tender date of April 1, 2024. The bonds are callable and re-marketable on or after October 1, 2022. If the bonds have not been called and re-marketed by the first mandatory tender date, the Trustee may draw on the Bond Letter of Credit to repay the bonds in their entirety at the purchase price. As of December 31, 2023, no amounts have been drawn under the Bond Letter of Credit.

The 2021 Bonds were issued at a premium of \$0.8 million and debt issuance costs were \$3.0 million. The bond debt is classified as current debt and is presented net of the premium and issuance costs, which are being amortized over the life of the bonds using the interest method. As of December 31, 2023, and 2022, the premium balance and the debt issuance cost net of amortization were \$0.1 million, \$0.4 million, \$0.3 million and \$1.3 million, respectively.

#### Loans Payable

In April 2020, the Company and Agri-Energy each entered into a loan agreement with Live Oak Banking Company, pursuant to which the Company and Agri-Energy obtained loans from the SBA PPP totaling \$1.0 million in the aggregate (the "SBA Loans").

In April 2021, the balance of \$0.5 million of the Company's and \$0.1 million of Agri-Energy's loans and accrued interest obtained through the SBA PPP were forgiven. The remaining SBA Loan for Agri-Energy totals \$0.3 million, bears interest at 1.0% per annum and matures in April 2025. Monthly payments of \$8,230, including interest, began on June 5, 2021 and are payable through April 2025.

The summary of the Company's long-term debt is as follows (in thousands) as of:

				Year Ended	31,	
	Interest Rate	Maturity Date		2023		2022
2021 Bonds, net	1.5%	April 2042	\$	67,967	\$	67,223
SBA Loans	1.0%	April 2025		119		224
Equipment	4% to 5%	December 2023 to December 2024		32		94
Total debt			'	68,118		67,541
Less: current portion				(68,097)		(159)
Non-current portion			\$	21	\$	67,382

Future payments for the Company's long-term debt are as follows (in thousands):

Year Ending December 31,	 Total Debt
2024	\$ 68,089
2025	29
Total debt	\$ 68,118

#### 16. Stock-Based Compensation

Equity incentive plans. In February 2011, the Company's stockholders approved the Gevo, Inc. 2010 Stock Incentive Plan (as amended and restated to date, the "2010 Plan") and the Employee Stock Purchase Plan.

The 2010 Plan provides for the grant of non-qualified stock options, incentive stock options, stock appreciation rights, restricted stock awards, restricted stock units and other equity awards to employees and directors of the Company. In May 2023, upon approval of the shareholders at the 2023 Annual Meeting of Stockholders, the 2010 Plan was amended and restated, which increased the number of shares of common stock reserved for issuance under the 2010 Plan to 37,980,074 shares. At December 31, 2023, 13,613,130 shares were available for future issuance under the 2010 Plan.

Stock-based compensation expense. The Company records stock-based compensation expense during the requisite service period for share-based payment awards granted to employees and non-employees.

The following table sets forth the Company's stock-based compensation expense for the periods indicated (in thousands):

	Year Ended December 31,				
	2023		2022		
Equity Classified Awards	 				
Cost of production	\$ 59	\$	(25)		
General and administrative	15,204		14,342		
Other	1,824		2,618		
Total equity classified awards	 17,087		16,935		
Total stock-based compensation	\$ 17,087	\$	16,935		

Stock option award activity. Stock option activity under the Company's stock incentive plans and changes during the year ended December 31, 2023, were as follows:

	Number of Options	Weighted- Average Exercise Price (1)	Weighted- Average Remaining Contractual Term (years)	Aggregate Intrinsic Value
Options outstanding at December 31, 2022	5,945,321	\$ 4.65	9.1	\$ _
Granted	3,368,717	\$ 1.69		\$ _
Canceled or forfeited	(1,204,915)	\$ 4.06		\$ _
Exercised	_	\$ _		\$ _
Options outstanding at December 31, 2023	8,109,123	\$ 3.51	8.8	\$ _
Options vested and expected to vest at December 31, 2023	3,046,060	\$ 4.80	8.0	\$ _

<sup>(1)</sup> Exercise price of options outstanding range from \$1.15 to \$876 as of December 31, 2023. The higher end of the range is due to the impact of several reverse stock splits during the years 2015 to 2018.

During the year ended December 31, 2023, 3.0 million stock options vested. As of December 31, 2023, the total unrecognized compensation expense, net of actual forfeitures, relating to stock options was \$8.6 million, which is expected to be recognized over the remaining weighted-average period of approximately 1.9 years.

The following table sets forth the weighted average Black-Scholes option pricing model assumptions (no dividends were expected) and resulting grant date fair value for the stock options granted during the years ended December 31, 2023, and 2022:

	Year Ended D	ecember 31,
	2023	2022
Risk-free interest rate	4.30 %	2.90 %
Expected volatility factor	153 %	134 %
Expected option life (years)	6.0	6.0
Weighted-average fair value	\$ 1.41	\$ 2.18

There is a maximum contractual term of ten years for the share options. The Company settles stock option exercises with newly issued common shares. No tax benefits were realized by the Company in connection with these exercises as the Company maintains net operating loss carryforwards and has established a valuation allowance against the entire tax benefit.

Restricted Stock. The Company periodically grants restricted stock awards to employees and directors. The vesting period for restricted stock awards granted may be based upon a service period or based upon the attainment of performance objectives. The Company recognizes stock-based compensation over the vesting period, generally two to three years, for awards that vest based upon a service period.

Non-vested restricted stock awards at December 31, 2023, and changes during the year ended December 31, 2023, were as follows:

	Number of Shares	Weighted- Average Grant-Date Fair Value
Outstanding at December 31, 2022	5,254,457	\$ 3.94
Granted	4,208,021	\$ 1.49
Vested and issued	(2,415,824)	\$ 4.08
Canceled or forfeited	(887,313)	\$ 3.39
Non-vested at December 31, 2023	6,159,341	\$ 2.30

The total fair value of restricted stock that vested during the years ended December 31, 2023, and 2022, was \$9.8 million and \$10.2 million, respectively. As of December 31, 2023, the total unrecognized compensation expense, net of actual forfeitures, relating to restricted stock awards was \$10.3 million, which is expected to be recognized over the remaining weighted-average period of approximately 1.8 years. As of December 31, 2023, there are no unvested liability-classified restricted stock awards.

#### 17. Income Taxes

As of December 31, 2023, the Company has a federal and state net operating loss carryover of approximately \$201.2 million and \$138.7 million, respectively, available to offset future income for income tax reporting purposes. The remaining federal net operating loss carryovers do not expire. Of our state net operating loss carryovers, \$137.1 million would expire between the years 2027-2043

We periodically evaluate our net operating loss carryforwards and whether certain changes in ownership have occurred that would limit our ability to utilize a portion of our net operating loss carryforwards pursuant to Internal Revenue Code Section 382. An ownership change may occur, for example, as a result of trading in our stock by significant investors as well as issuance of new equity. As a result of ownership changes in prior years, a portion of our net operating losses have been limited.

The following table sets forth the tax effects of temporary differences that give rise to significant portions of the Company's net deferred tax assets (in thousands):

		,		
		2023		2022
Deferred tax assets, net:				
Net operating loss carryforwards	\$	48,638	\$	40,511
Operating lease assets		(405)		(371)
Operating lease liabilities		545		410
Depreciation		11,421		9,145
Stock compensation		2,530		2,027
Business interest expense		1,110		1,033
Capitalized research cost		7,332		3,334
Other temporary differences		820		691
Deferred tax assets		71,991		56,780
Valuation allowance		(71,991)		(56,780)
Net deferred tax assets	\$	_	\$	_

Beginning in 2022, the Tax Cuts and Jobs Act of 2017 eliminated the option to deduct research and development expenditures in the current year and requires taxpayers to amortize them over five years pursuant to Internal Revenue Code Section 174. The mandatory capitalization requirement increases the deferred tax asset for Capitalized Research Costs by \$3.6 million for the year ended December 31, 2023.

ASC 740, *Income Taxes*, provides for the recognition of deferred tax assets if realization of such assets is more likely than not to occur. Based on management's review of both the positive and negative evidence, which includes our historical operating performance, reported cumulative net losses since inception and difficulty in accurately forecasting results, we have concluded that it is not more likely than not that we will be able to realize all of our U.S. deferred tax assets. Therefore, we have provided a full valuation allowance against deferred tax assets at December 31, 2023 and 2022, respectively.

The following table sets forth reconciling items from income tax computed at the statutory federal rate:

	Year Ended Dec	ember 31,
	2023	2022
Federal income tax at statutory rate	21.0 %	21.0 %
State income taxes, net of federal benefits	6.8 %	1.6 %
Officers compensation limit	(1.8)%	(1.2)%
Stock based compensation	(2.5)%	— %
Other permanent	(0.2)%	(1.0)%
Valuation allowance	(23.3)%	(20.4)%
Effective tax rate	<u> </u>	<u> </u>

Accounting literature regarding liabilities for unrecognized tax benefits provides guidance for the recognition and measurement in financial statements of uncertain tax positions taken or expected to be taken in a tax return. The Company's evaluation was performed for the tax periods from inception to December 31, 2023. The Company is subject to examination by major tax jurisdictions for the years ended December 31, 2018 to 2022.

The Company recognizes uncertain tax positions net, against any operating losses or applicable research credits as they arise. Currently, there are no uncertain tax positions recognized at December 31, 2023 and 2022, respectively.

# 18. Employee Benefit Plan

The Company sponsors the Gevo, Inc. 401(k) Plan (the "401(k) Plan") under Section 401(k) of the Internal Revenue Code. Subject to certain eligibility requirements, the 401(k) Plan covers substantially all employees beginning the month after employment. Employee contributions are deposited by the Company into the 401(k) Plan and may not exceed the maximum statutory contribution amount. Beginning January 1, 2023, the 401(k) Plan was amended to include matching contributions to the 401(k) Plan, with the Company matching 100% of the employee's contributions that are not over 3% of compensation, plus 50% of contributions which are over 3% but are not over 5% of compensation. The matching contributions will be made in shares of the Company's common stock and vest immediately. For the year ended December 31, 2023, accrued matching contributions to the 401(k) Plan was \$0.7 million, equivalent to approximately 0.7 million shares of common stock, to be remitted to participants in Q1 2024. The Company did not provide an employer match during the year ended December 31, 2022.

#### 19. Commitments and Contingencies

Legal Matters. From time to time, the Company has been and may again become involved in legal proceedings arising in the ordinary course of its business. The Company is not presently a party to any litigation and is not aware of any pending or threatened litigation against the Company that it believes could have a material adverse effect on its business, operating results, financial condition or cash flows.

State Tax Audit. During the year ended 2023, the Company was notified of a pending sales and use tax audit by the South Dakota Department of Revenue for the period covering January 2021 through December 2023. Although the final resolution of the Company's sales and use tax audit is uncertain, based on current information, in the opinion of the Company's management, the ultimate disposition of these matters will not have a material adverse effect on the Consolidated Balance Sheets, Statements of Operations, or Liquidity.

*Indemnifications*. In the ordinary course of its business, the Company makes certain indemnities under which it may be required to make payments in relation to certain transactions. As of December 31, 2023, and 2022, the Company did not have any liabilities associated with indemnities.

In addition, the Company indemnifies its officers and directors for certain events or occurrences, subject to certain limitations. The duration of these indemnifications, commitments, and guarantees varies and, in certain cases, is indefinite. The maximum amount of potential future indemnification is unlimited; however, the Company has a director and officer insurance policy that may enable it to recover a portion of any future amounts paid. The Company accrues losses for any known contingent liability, including those that may arise from indemnification provisions, when future payment is probable. No such losses have been recorded to date.

Environmental Liabilities. The Company's operations are subject to environmental laws and regulations adopted by various governmental authorities in the jurisdictions in which it operates. These laws require the Company to investigate and remediate the effects of the release or disposal of materials at its locations. Accordingly, the Company has adopted policies, practices and procedures in the areas of pollution control, occupational health and the production, handling, storage and use of hazardous materials to prevent material environmental or other damage, and to limit the financial liability which could result from such events. Environmental liabilities are recorded when the Company's liability is probable, and the costs can be reasonably estimated. No environmental liabilities have been recorded as of December 31, 2023.

Fuel Supply Commitment. The Company has three long-term fuel supply contracts to source feedstock for the anaerobic digesters at the NW Iowa RNG project. These contracts provide an annual amount of feedstock to be used in the production of RNG.

Zero6 Commitments. In September 2022, the Company entered into a development agreement with Zero6 to construct and operate a wind project for the provision of electric energy for NZ1. Pursuant to the agreement, the Company has committed to pay Zero6 total development charges of \$8.6 million, comprised of advanced development fee payments of \$0.9 million, certain reimbursable costs of \$1.2 million, and \$6.5 million upon completion of the project. The Company is not contractually obligated for the specified development charges until certain milestones are met in future periods, and upon completion of the project. Further, the Company has committed to fund certain discretionary, budgeted costs associated with long lead equipment and engineering services for NZ1, totaling an estimated \$36.0 million. The amount is expected to be fully reimbursed upon completion of the project. Gevo has contractual priority liens against the equipment and constructed facilities under the contracts. See Footnote 22 below for further information.

Additionally, the Company's investment in Zero6, see Note 13 above, is pledged separately as collateral for two commitments for the purchase of wind electricity for the Luverne Facility, as well as the purchase of 100% of RCWF's renewable energy credits. Gevo has a commitment to purchase all of RCWF's electricity. The portion not used by the Luverne Facility is charged to the Company at a lower price.

The estimated commitments as of December 31, 2023, and thereafter are shown below (in thousands):

	 December 31,											
	2024		2025		2026		2027		2028	2029 and thereafter		Total
Fuel Supply Payments	\$ 3,193	\$	2,699	\$	1,718	\$	2,060	\$	2,202	\$ 26,061	\$	37,933
Zero6 Commitment	36,221		7,149		_		_		_	_		43,370
Renewable Energy Credits	128		128		129		128		128	1,455		2,096
Electricity Above Use (Est.)	447		_		_		_		_	_		447
Total	\$ 39,989	\$	9,976	\$	1,847	\$	2,188	\$	2,330	\$ 27,516	\$	83,846

#### 20. Fair Value Measurements

Accounting standards define fair value, outline a framework for measuring fair value, and detail the required disclosures about fair value measurements. Under these standards, fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date in the principal or most advantageous market. Standards establish a hierarchy in determining the fair market value of an asset or liability. The fair value hierarchy has three levels of inputs, both observable and unobservable. Standards require the utilization of the highest possible level of input to determine fair value.

Level 1 – inputs include quoted market prices in an active market for identical assets or liabilities.

Level 2 – inputs are market data, other than Level 1, that are observable either directly or indirectly. Level 2 inputs include quoted market prices for similar assets or liabilities, quoted market prices in an inactive market, and other observable information that can be corroborated by market data.

Level 3 – inputs are unobservable and corroborated by little or no market data.

The carrying value and fair value, by fair value hierarchy, of the Company's financial instruments at December 31, 2023, and 2022, are as follows (in thousands):

				Fair Value M	easure	ements at Dec	ember 31	1, 2023
Cash and cash equivalents (1)	_	air Value at ecember 31, 2023 298,349	\$	Quoted Prices in Active Markets for Identical Assets (Level 1) 298,349	O	ignificant Other Observable Inputs (Level 2)	Unob Ii	nificant servable iputs evel 3)
	-	_, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,			•	
			_	Fair Value M	easure	ments at Dec	ember 31	, 2022
				Quoted Prices in				
				Active	S	ignificant		
	E	air Value at	]	Markets for Identical	0	Other		nificant servable
	_	ecember 31, 2022		Assets (Level 1)	-	Inputs (Level 2)	Iı	iputs evel 3)
Cash and cash equivalents (1)	\$	237,125	\$	237,125	\$		\$	_
Marketable securities	\$	167,408	\$	167,408	\$	_	\$	_

<sup>(1)</sup> Cash and cash equivalents includes \$283.2 million and \$200.7 million invested in U.S. government money market funds as of December 31, 2023, and 2022, respectively.

The Company had no transfers of assets or liabilities between fair value hierarchy levels during the years ended December 31, 2023, and 2022.

For the 2021 Bonds, the fair values are estimated using the Black-Derman-Toy interest rate lattice framework. The effective maturity of the 2021 Bonds was assumed to be April 1, 2024 (three years from issuance) with repayment of 100% of principal on that date. The impact of the Company's optional redemption feature, effective October 1, 2022, is appropriately captured by the Black-Derman-Toy interest rate lattice. The carrying values and estimated fair values of the 2021 Bonds as of December 31, 2023, are summarized as follows (in thousands):

	Carrying Value	Estimated Fair Value
2021 Bonds	\$ 67,967	\$ 67,916

#### 21. Shareholders' Equity

#### **Share Issuances**

In February 2018, the Company commenced an at-the-market offering program, which allows it to sell and issue shares of its common stock from time to time. In 2021, the at-the-market offering program was amended to provide a total capacity of \$500.0 million. As of December 31, 2023, the Company has remaining capacity to issue up to approximately \$360.6 million of common stock under the at-the-market offering program.

Subsequently, in January 2024 the Company filed an updated Form S-3, which included a base prospectus which covers the offer, issuance and sale of up to an aggregate of \$750.0 million of the registrant's common stock, preferred stock, debt securities, depositary shares, warrants, purchase contracts and units and an at-the-market offering prospectus supplement covering the offering, issuance and sale by the registrant of up to a maximum aggregate offering price of \$500.0 million of the Company's common stock that may be issued and sold under an at-the-market-offering agreement.

In June 2022, the Company completed a registered direct offering ("the June 2022 Offering") of an aggregate of 33,333,336 shares of the Company's common stock at a price of \$4.50 per share, accompanied by Series 2022-A warrants to purchase an aggregate of 33,333,336 shares of the Company's common stock (each, a "Series 2022-A Warrant") pursuant to a securities purchase agreement with certain institutional and accredited investors. The Series 2022-A Warrants are exercisable for a term of five years from the date of issuance at an exercise price of \$4.37 per share. As of December 31, 2023, none of the Series 2022-A Warrants had been exercised.

The net proceeds to the Company from the June 2022 Offering were \$139.2 million, after deducting placement agent's fees, advisory fees and other offering expenses payable by the Company, and assuming none of the Series 2022-A Warrants issued in the June 2022 Offering are exercised for cash. The Company intends to use the net proceeds from the June 2022 Offering to fund capital projects, working capital and for general corporate purposes.

#### Warrants

In addition to the Series 2022-A Warrants, the Company has warrants outstanding that were issued in conjunction with a registered direct offering in August 2020 (the "Series 2020-A Warrants"). The Company evaluated the Series 2022-A Warrants and Series 2020-A Warrants for liability or equity classification and determined that equity treatment was appropriate because both the Series 2022-A Warrants and Series 2020-A Warrants do not meet the definition of liability instruments.

The Series 2022-A Warrants and Series 2020-A Warrants are classified as a component of equity because they are freestanding financial instruments that are legally detachable and separately exercisable from the shares of common stock with which they were issued, are immediately exercisable and will expire five years from the date of issuance, do not embody an obligation for the Company to repurchase its shares, and permit the holders to receive a fixed number of shares of common stock upon exercise. In addition, the Series 2022-A Warrants and Series 2020-A Warrants do not provide any guarantee of value or return. The Company valued the Series 2022-A Warrants and Series 2020-A Warrants at issuance using the Black-Scholes option pricing model. The fair value at the issuance date of the Series 2022-A Warrants was \$92.9 million with the key inputs to the valuation model including a weighted average volatility of 151.1%, a risk-free rate of 2.86% and an expected term of five years. The fair value at the issuance date of the Series 2020-A Warrants was \$8.3 million with the key inputs to the valuation model including a weighted average volatility of 130%, a risk-free rate of 0.30% and an expected term of five years.

While the Company believes that its valuation methods are appropriate and consistent with other market participants, it recognizes that the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different estimate of fair value at the reporting date.

On February 17, 2022, the remaining Series K warrants expired with 7,126 unexercised warrants.

The following table sets forth information pertaining to shares issued upon the exercise of warrants:

	Issuance Date	Expiration Date	I	Exercise Price as of ecember 31, 2023	Shares Underlying Warrants on Issuance Date	Shares Issued upon Warrant Exercises as of December 31, 2023	Shares Underlying Warrants Outstanding as of December 31, 2023
Series 2020-A Warrants (1)	7/6/2020	7/6/2025	\$	0.60	30,000,000	29,914,069	85,931
Series 2022-A Warrants (1)	6/8/2022	6/7/2027	\$	4.37	33,333,336	_	33,333,336
Total Warrants					63,333,336	29,914,069	33,419,267

<sup>(1)</sup> Equity-classified warrants.

No warrants were exercised during the year ended December 31, 2023. During the year ended December 31, 2022, common stock was issued as a result of the exercise of warrants as shown below (dollars in thousands):

	Common Stock		
	Issued	Proc	ceeds
Series 2020-A Warrants	4,677	\$	3

# **Share Repurchase Program**

On May 30, 2023, the Board authorized a stock repurchase program, under which the Company may repurchase up to \$25 million of its common stock. The primary goal of the repurchase program is to allow the Company to opportunistically repurchase shares, while maintaining its ability to fund development projects. Under the stock repurchase program, the Company may repurchase shares from time to time in the open market or through privately negotiated transactions. The timing, volume and nature of stock repurchases, if any, will be in the Company's sole discretion and will be dependent on market conditions, applicable securities laws, and other factors. The stock repurchase program may be suspended or discontinued at any time and does not have an expiration date.

The Company did not repurchase any shares of common stock under the stock repurchase program during the years ended December 31, 2023, and 2022.

#### 22. Variable Interest Entities

The Company has entered into agreements with various SPEs to facilitate the development and construction of facilities to provide carbon neutral power to NZ1. These SPEs are structured as a limited liability companies.

#### Nonconsolidated VIEs

During September 2022 and February 2023, the Company entered into agreements with Zero6 Energy Development, Inc. ("ZEDI"), a national clean energy expert that provides expertise in capital management, development, engineering, and asset management, to develop and construct facilities to provide carbon neutral power to NZ1 via the two Project LLCs: Kingsbury County Wind Fuel, LLC ("KCWF") and Dakota Renewable Hydrogen, LLC ("DRH"), respectively. In December 2023 the agreements with ZEDI related to the two Project LLCs were amended to remove certain kickout rights that previously existed.

Each Project LLC is currently funded via advances for certain long lead equipment items from Gevo. The Company has made certain refundable project advances indirectly to the Project LLCs via ZEDI, to induce ZEDI to design and construct the power generation, transmission and distribution facilities that will serve NZ1.

Each Project LLC is a VIE, and the Company holds an implicit variable interest in each Project LLC. As of December 2023, we have concluded that the removal of the kickout rights from the agreements has resulted in a loss of control and that, therefore, the Company is no longer the primary beneficiary of the Project LLCs. The Project LLCs are a VIE because their equity is insufficient to maintain its on-going collateral requirements without additional financial support from the Company.

There was no gain or loss recognized as a result of the deconsolidation of the Project LLCs. We have recognized \$33.6 million in Deposits and other assets related to advances made to the Project LLCs which are reimbursable upon the achievement or failure to achieve certain milestones. Such amounts represent our maximum exposure to loss as a result of our involvement with the Project LLCs.

#### 23. Segments

Operating segments are defined as components of an entity for which discrete financial information is available that is regularly reviewed by the Chief Operating Decision Maker ("CODM") in deciding how to allocate resources to an individual segment and in assessing performance. The Company's Chief Executive Officer is the CODM. The CODM reviews financial information presented on a consolidated basis for purposes of making operating decisions, allocating resources, and evaluating financial performance. As such, management has determined that the Company has organized its operations and activities into three reportable segments: (i) Gevo segment; (ii) Agri-Energy segment; (iii) Renewable Natural Gas segment. Transactions between segments are eliminated in consolidation.

Gevo segment. The Gevo segment is responsible for all research and development activities related to the future production of SAF, commercial opportunities for other renewable hydrocarbon products, such as hydrocarbons for gasoline blendstocks and diesel fuel; ingredients for the chemical industry, such as ethylene and butenes; plastics and materials; and other chemicals. The Gevo segment also develops, maintains and protects its intellectual property portfolio, provides corporate oversight services, and is responsible for development and construction of our Net-Zero Projects and Verity.

Agri-Energy segment. The Agri-Energy segment is currently responsible for the operation of the Company's Luverne Facility, and the development and optimization of the production of isobutanol, ethanol and related products.

Renewable Natural Gas segment. The Renewable Natural Gas segment produces-pipeline quality methane gas captured from dairy cow manure.

		Year Ended December 31, 2023						
		Gevo		Agri-Energy		Renewable Natural Gas		Consolidated
Revenues	\$	1,743	\$		\$	15,457	\$	17,200
Depreciation and amortization	\$	(1,799)	\$	(10,503)	\$	(6,705)	\$	(19,007)
Loss from operations	\$	(64,955)	\$	(12,785)	\$	(4,095)	\$	(81,835)
Interest income	\$	18,957	\$	`	\$	` —	\$	18,957
Interest expense	\$	(354)	\$	(16)	\$	(1,791)	\$	(2,161)
Acquisitions of property, plant, and equipment	\$	43,907	\$	4,154	\$	6,394	\$	54,455
				Year Ended De	cem	ber 31, 2022		
		Gevo		Agri-Energy		Renewable Natural Gas		Consolidated
Revenues	\$	81	\$	240	\$	854	\$	1,175
Depreciation and amortization	\$	(1,573)	\$	(6,002)	\$	(312)	\$	(7,887)
Loss from operations	\$	(58,427)	\$	(40,171)	\$	(4,088)	\$	(102,686)
Interest income	\$	6,118	\$		\$		\$	6,118
Interest expense	\$	(436)	\$	1	\$	(732)	\$	(1,167)
Acquisitions of property, plant, and equipment	\$	45,272	\$	4,091	\$	34,714	\$	84,077
	December 31, 2023							
		Gevo		Agri-Energy		Renewable Natural Gas		Consolidated
Total assets	\$	519,994	\$	28,818	\$	101,510	\$	650,322
		,		,		,		,
				Decembe	r 31	, 2022 Renewable		
		Gevo		Agri-Energy		Natural Gas		Consolidated
Total assets	\$	573,057	\$	34,440	\$	93,251	\$	700,748

#### 24. Subsequent Events.

On February 29, 2024, the Company received notice from Nasdaq that the Company was not in compliance with Nasdaq Listing Rule 5550(a)(2) (the "Minimum Bid Price Requirement"), as the minimum bid price of its common stock had been below \$1.00 per share for the previous 30 consecutive business days. The Company has 180 calendar days, or until August 27, 2024, to regain compliance with the Minimum Bid Price Requirement. To regain compliance, the minimum bid price of our common stock must meet or exceed \$1.00 per share for a minimum of ten consecutive business days during the compliance grace period. In the event the Company does not regain compliance with the Minimum Bid Price Requirement by August 27, 2024, the Company may be eligible for an additional 180-calendar day compliance period.

# Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

None.

#### Item 9A. Controls and Procedures

#### **Evaluation of Disclosure Controls and Procedures**

We maintain disclosure controls and procedures, as such term is defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act, that are designed to provide reasonable assurance that information required to be disclosed by us 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 SEC rules and regulations, and that such information is accumulated and communicated to our management, including our Chief Executive Officer and Principal Financial Officer, as appropriate, to allow timely decisions regarding required financial disclosures. In designing and evaluating the disclosure controls and procedures, 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, and management is required to apply its judgment in evaluating the cost-benefit relationship of possible controls and procedures.

Based on their evaluation, our Chief Executive Officer and our Chief Financial Officer concluded that our disclosure controls and procedures were effective as of December 31, 2023.

#### **Remediation of Material Weakness**

A material weakness is a deficiency, or a combination of deficiencies, in internal control over financial reporting, such that there is a reasonable possibility that a material misstatement of the annual or interim financial statements will not be prevented or detected on a timely basis. In connection with the preparation of the Company's consolidated financial statements for the three and nine months ended September 30, 2023, management identified a material weakness related to the ineffective design of internal controls to identify and evaluate the existence of, and accounting for, variable interest entities ("VIEs"). This material weakness resulted in the failure to timely identify two potential VIEs requiring consolidation at the time the Company entered into the agreements. This material weakness resulted in a prior period adjustment to our consolidated financial statements as of and for the period ended September 30, 2023.

In order to remediate the material weakness, management implemented the following procedures during the year ended December 31, 2023:

- The design and operating effectiveness of the Company's internal controls covering contract reviews and analysis were evaluated
  and new processes and procedures were introduced to ensure new and historical agreements are properly reviewed for the existence
  of potential VIEs.
- A comprehensive review of contracts the Company is party to was performed to ensure proper VIE accounting conclusions were reached.
- Management engaged expert, third-party advisory services to assist in supporting management's analysis and processes, as well as
  further strengthen the precision of management's review controls for the assessment of potential VIEs.

During the fourth quarter of fiscal 2023, the Company completed its testing of the implemented controls. Based on the foregoing remediation activities and testing of controls, management concluded that the material weakness has been fully remediated as of December 31, 2023.

#### Management's Report on Internal Control over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as defined in Rules 13a-15(f) and 15d-15(f) of the Exchange Act. Our internal control over financial reporting is a process designed 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. Our internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of our assets; (ii) provide reasonable assurance that transactions are recorded to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the Company are made only in accordance with authorizations of our management and directors; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of our assets that could have a material effect on our financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Under the supervision and with the participation of our management, including our Chief Executive Officer and our Chief Financial Officer, we conducted an evaluation of the effectiveness of our internal control over financial reporting based on the framework set forth in *Internal Control—Integrated Framework* (2013 framework) issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based upon the results of the evaluation, our management concluded that our internal control over financial reporting was effective as of December 31, 2023.

#### **Changes in Internal Control Over Financial Reporting**

Except for additional control improvements implemented, stemming from the remediation of the material weakness discussed above, there were no changes in our internal control over financial reporting during the quarter ended December 31, 2023 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

#### Item 9B. Other Information

During our last fiscal quarter, the below directors and/or officers, as defined in Rule 16a-1(f), adopted, modified or terminated a "Rule 10b5-1 trading arrangement," as defined in Item 408 of Regulation S-K. The Rule 10b5-1 trading arrangements were each intended to satisfy the affirmative defense in Rule 10b5-1(c)(1).

Name and Title	Action	Date	Duration of Plan	Total Number of Shares of Common Stock to be Purchased or Sold
Patrick Gruber Chief Executive Officer	Terminate	November 15, 2023	June 30, 2023 to November 15, 2023	Up to 2,067,374
Paul Bloom Chief Carbon Officer and Chief Innovation Officer	Terminate	December 8, 2023	June 30, 2023 to December 8, 2023	Up to 358,175

No other directors or officers, as defined in Rule 16a-1(f), adopted, modified and/or terminated a "Rule 10b5-1 trading arrangement," or a "non-Rule 10b5-1 trading arrangement," each as defined in Item 408 of Regulation S-K, during our last fiscal quarter.

#### Item 9C. Disclosure Regarding Foreign Jurisdictions that Prevent Inspections

None.

#### PART III

#### Item 10. Directors, Executive Officers and Corporate Governance

The information required by this item is incorporated by reference to our definitive proxy statement for the 2024 annual meeting of stockholders to be filed with the SEC within 120 days after our fiscal year ended December 31, 2023.

We have a written code of business conduct and ethics in place that applies to all of our directors, officers and employees, including our principal executive officer, principal financial officer, and principal accounting officer. A copy of our code of ethics is available on our website: https://investors.gevo.com/corporate/corporate-governance/. We are required to disclose certain changes to, or waivers from, that code for our senior financial officers. We intend to use our website as a method of disseminating any change to, or waiver from, our code of ethics as permitted by applicable SEC rules.

#### Item 11. Executive Compensation

The information required by this item is incorporated by reference to our definitive proxy statement for the 2024 annual meeting of stockholders to be filed with the SEC within 120 days after our fiscal year ended December 31, 2023.

#### Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

The information required by this item is incorporated by reference to our definitive proxy statement for the 2024 annual meeting of stockholders to be filed with the SEC within 120 days after our fiscal year ended December 31, 2023.

#### Item 13. Certain Relationships and Related Transactions, and Director Independence

The information required by this item is incorporated by reference to our definitive proxy statement for the 2024 annual meeting of stockholders to be filed with the SEC within 120 days after our fiscal year ended December 31, 2023.

#### Item 14. Principal Accountant Fees and Services

The information required by this item is incorporated by reference to our definitive proxy statement for the 2024 annual meeting of stockholders to be filed with the SEC within 120 days after our fiscal year ended December 31, 2023.

# PART IV

# Item 15. Exhibits, Financial Statement Schedules

# (a)(1) Financial Statements

The following Consolidated Financial Statements are included:

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Report of Independent Registered Public Accounting Firm	55
Consolidated Balance Sheets	57
Consolidated Statements of Operations	58
Consolidated Statements of Comprehensive Income (Loss)	59
Consolidated Statements of Stockholders' Equity	60
Consolidated Statements of Cash Flows	61
Notes to Consolidated Financial Statements	63

# (a)(2) Financial Statement Schedules

All financial statement schedules have been omitted because they are not applicable or are not required, or because the information required to be set forth therein is included in the Consolidated Financial Statements or notes thereto.

# (a)(3) Exhibits

Exhibit No.	Description	Form	File No.	Filing Date	Exhibit	Filed Herewith
3.1	Amended and Restated Certificate of Incorporation of Gevo, Inc.	10-K	001-35073	February 24, 2022	3.1	
3.2	Second Amended and Restated Bylaws of Gevo, Inc.	8-K	001-35073	November 24, 2021	3.1	
4.1	Form of Gevo, Inc. Common Stock Certificate.	S-1	333-168792	January 19, 2011	4.1	
4.2	Form of Series 2020-A Warrant.	8-K	001-35073	July 8, 2020	4.1	
4.3	Form of Series 2022-A Warrant.	8-K	001-35073	June 8 2022	4.1	
4.4	Description of Securities.	10-K	001-35073	February 24, 2022	4.3	
10.1#	Gevo, Inc. Amended and Restated 2010 Stock Incentive Plan.	8-K	001-35073	May 25, 2023	10.1	
10.2#	Form of Restricted Stock Unit Agreement under the Amended and Restated 2010 Stock Incentive Plan.	S-1	333-168792	January 19, 2011	10.15	
10.3#	Form of Restricted Shares Award Agreement under the Amended and Restated 2010 Stock Incentive Plan.	10-Q	001-35073	August 8, 2018	10.7	
10.4#	Form of Stock Option Award Agreement under the Amended and Restated 2010 Stock Incentive Plan.	10-Q	001-35073	August 8, 2018	10.6	

	_	Incorporated by Reference			TH. 1	
Exhibit No.	Description	Form	File No.	Filing Date	Exhibit	Filed Herewith
10.5#	Form of Stock Appreciation Rights Award Agreement under the Amended and Restated 2010 Stock Incentive Plan.	10-Q	001-35073	August 8, 2018	10.8	
10.6#	Gevo, Inc. Employee Stock Purchase Plan.	S-8	333-172771	March 11, 2011	4.7	
10.7#	Gevo, Inc. Executive Health Management Plan.	10-Q	001-35073	November 2, 2011	10.1	
10.8#	Form of Indemnification Agreement between Gevo, Inc. and its directors and officers.	S-1	333-168792	January 19, 2011	10.33	
10.9#	Employment Agreement, dated June 4, 2010, by and between Gevo, Inc. and Patrick Gruber.	S-1	333-168792	November 4, 2010	10.14	
10.10#	Amendment Agreement, dated December 21, 2011, by and between Gevo, Inc. and Patrick Gruber.	8-K	001-35073	December 27, 2011	10.1	
10.11#	Second Amendment Agreement, dated February 16, 2015, by and between Gevo, Inc. and Patrick Gruber.	8-K	001-35073	February 17, 2015	10.1	
10.12#	Employment Agreement, dated June 4, 2010, by and between Gevo, Inc. and Christopher Ryan.	S-1	333-168792	November 4, 2010	10.16	
10.13#	Offer Letter, dated November 9, 2019, by and between Gevo, Inc. and L. Lynn Smull.	8-K	001-35073	November 15, 2019	10.1	
10.14#	Offer Letter, dated February 16, 2021, by and between Gevo Inc. and Paul Bloom.	10-Q	001-35073	May 14, 2021	10.6	
10.15†	At-The-Market Offering Agreement, dated January 16, 2024, between Gevo, Inc. and H.C. Wainwright & Co., LLC.	S-3	333-276515	January 16, 2024	1.2	
10.16+	Master Framework Agreement, dated August 13, 2020, by and between Gevo, Inc. and Praj. Industries Ltd.	8-K	001-35073	August 18, 2020	10.1	
10.17+	Base Contract for Sale and Purchase of Natural Gas, dated July 22, 2021, by and between Gevo NW Iowa RNG, LLC, BP Canada Energy Marketing Corp. and BP Products North America Inc.	8-K	001-35073	August 9, 2021	10.1	
10.18+	Special Provisions Attached to and Forming Part of the Base Contract for Sale and Purchase of Natural Gas dated July 22, 2021, by and between Gevo NW Iowa RNG, LLC, BP Canada Energy Marketing Corp. and BP Products North America Inc.	8-K	001-35073	August 9, 2021	10.2	

	_	Incorporated by Reference				
Exhibit No. 10.19+	Description  Biogas Supply Addendum – Vehicle Fuel Segment-Supply Side, dated July 22, 2021, by and between Gevo NW Iowa RNG, LLC, BP Canada	Form 8-K	File No. 001-35073	Filing Date August 9, 2021	10.3	Filed Herewith
	Energy Marketing Corp. and BP Products North America Inc.					
10.20+	Transaction Confirmation relating to the Base Contract, by and between Gevo NW Iowa RNG, LLC and BP Canada Energy Marketing Corp.	8-K	001-35073	August 9, 2021	10.4	
10.21+††	Asset Purchase Agreement, date September 21, 2021, between Butamax Advanced Biofuels LLC and Danisco US Inc., and Gevo, Inc.	8-K	001-35073	September 23, 2021	10.1	
10.22	Bond Financing Agreement, dated as of April 1, 2021, by and between Gevo NW Iowa RNG, LLC and the Iowa Finance Authority.	8-K	001-35073	April 15, 2021	10.1	
10.23++	Letter of Credit Reimbursement Agreement, dated as of April 1, 2021, by and between Gevo, Inc. and Citibank, N.A.	8-K	001-35073	April 15, 2021	10.2	
10.24+	Fuel Supply Agreement, dated March 16, 2022, by and between Gevo, Inc. and Delta Air Lines, Inc.	8-K	001-35073	March 22, 2022	10.1	
10.25+	Fuel Supply Agreement, dated March 18, 2022, by and between Gevo, Inc. and British Airways plc.	8-K	001-35073	March 21, 2022	10.1	
10.26+	Fuel Supply Agreement, dated July 18, 2022, by and between Gevo, Inc. and American Airlines, Inc.	8-K	001-35073	July 22, 2022	10.1	
10.27++	First Amended and Restated Transaction Confirmation, by and between Gevo NW Iowa RNG, LLC BP Canada Energy Marketing Corp, and BP Products North America Inc.	10-Q	001-35073	August 8, 2022	10.2	
10.28#	Gevo, Inc. Change in Control Severance Plan	8-K	001-35073	December 2, 2022	10.1	
10.29+	Master Framework Agreement for Ethanol to Jet Collaboration, dated September 22, 2021, by and between Axens North America, Inc. and Gevo, Inc.	10-Q	001-35073	August 10, 2023	10.1	
10.30+	Amended and Restated Fuel Supply Agreement, dated March 15, 2023, by and between Gevo, Inc. and Kolmar Americas, Inc.	10-Q	001-35073	March 15, 2023	10.1	

	_					
Exhibit No.	Description	Form	File No.	Filing Date	Exhibit	Filed Herewith
10.31+	Side Agreement, dated May 5, 2023, by and between Axens North America, Inc. and Gevo, Inc.	10-Q	001-35073	August 10, 2023	10.2	
10.32+	Technology Access Agreement, dated May 5, 2023, by and among Gevo, Inc., Phillips 66 Company and Archer-Daniels-Midland Company	10-Q	001-35073	August 10, 2023	10.3	
10.33+	Extension Agreement to the Master Framework Agreement for ETJ Collaboration, dated December 11, 2023, by and between Gevo, Inc. and Axens North America, Inc.	8-K	001-35073	December 13, 2023	10.1	
10.34	Amendment No. 1 to Fuel Sales Agreement, dated December 2, 2022, by and between Gevo, Inc. and Delta Air Lines, Inc.					X
10.35	Amendment No. 2 to Fuel Sales Agreement, dated November 27, 2023, by and between Gevo, Inc. and Delta Air Lines, Inc.					X
10.36	Amendment No. 1 to Fuel Sales Agreement, dated December 12, 2023, by and between Gevo, Inc. and British Airways plc					X
10.37+	Amendment No. 1 to Fuel Sales Agreement, dated December 13, 2023, by and between Gevo, Inc. and American Airlines, Inc.					X
21.1	List of Subsidiaries.					X
23.1	Consent of Grant Thornton LLP.					X
31.1	Section 302 Certification of the Principal Executive Officer.					X
31.2	Section 302 Certification of the Principal Financial Officer.					X
32.1 *	Section 906 Certifications of the Principal Executive Officer and the Principal Financial Officer.					*
97	Gevo, Inc. Compensation Recovery Policy					X
101.INS	Inline XBRL Instance Document (the Instance Document does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document)					X

		Incorporated by Reference					
Exhibit No.	Description	Form	File No.	Filing Date	Exhibit	Filed Herewith	
101.SCH	Inline XBRL Taxonomy Extension Schema					X	
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase					X	
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase					X	
01.LAB	Inline XBRL Taxonomy Extension Label Linkbase					X	
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase					X	
104	Cover Page Interactive Data File (embedded within the Inline XBRL and contained in Exhibit 101)						

- † Certain portions have been omitted pursuant to a confidential treatment request. Omitted information has been filed separately with the SEC
- + Certain portions of the exhibit have been omitted pursuant to Rule 601(b)(10) of Regulation S-K. The omitted information is (i) not material and (ii) would likely cause competitive harm to the Company if publicly disclosed.
- ++ Confidential portions of the exhibit have been redacted from the filed version of the exhibit and are marked with a \*\*\*
- †† Schedules have been omitted pursuant to Item 601(a)(5) of Regulation S-K. The Company hereby undertakes to supplementally furnish copies of any omitted schedules to the Securities and Exchange Commission upon request.
- # Indicates a management contract or compensatory plan or arrangement.
- \* Furnished herewith

# (b) Exhibits

See Item 15(a)(3) above.

# (c) Financial Statement Schedules

See Item 15(a)(2) above.

# Item 16. Form 10-K Summary

None.

# SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this Report to be signed on its behalf by the undersigned, thereunto duly authorized.

# Gevo, Inc. (REGISTRANT)

By: /s/ Alisher Nurmat
Alisher Nurmat, CPA

Vice President of Accounting and Treasurer
(Principal Accounting Officer)

Date: March 7, 2024

Pursuant to the requirements of the Securities Exchange Act of 1934, this Report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated:

Signatures	Title	Date
/s/ PATRICK R. GRUBER Patrick R. Gruber, Ph.D.	Chief Executive Officer (Principal Executive Officer) and Director	March 7, 2024
/s/ L. LYNN SMULL  L. Lynn Smull	Chief Financial Officer (Principal Financial Officer)	March 7, 2024
/s/ ALISHER NURMAT Alisher Nurmat, CPA	Vice President of Accounting and Treasurer (Principal Accounting Officer)	March 7, 2024
/s/ WILLIAM H. BAUM William H. Baum	Chairperson of the Board of Directors	March 7, 2024
/s/ GARY W. MIZE Gary W. Mize	Director	March 7, 2024
/s/ ANDREW J. MARSH Andrew J. Marsh	Director	March 7, 2024
/s/ JAIME GUILLEN Jaime Guillen	Director	March 7, 2024
/s/ CAROL J. BATTERSHELL  Carol J. Battershell	Director	March 7, 2024
/s/ ANGELO AMORELLI Angelo Amorelli	Director	March 7, 2024
/s/ MARY KATHRYN ELLET  Mary Kathryn Ellet	Director	March 7, 2024

# Subsidiaries of Gevo, Inc.

Name of Subsidiary	Jurisdiction
Gevo Asset, LLC (fka Gevo Development, LLC)	Delaware
Gevo RNG Holdco, LLC	Delaware
Gevo NW Iowa RNG, LLC	Delaware
Agri-Energy, LLC	Minnesota
Gevo Net-Zero Holdco, LLC	Delaware
Gevo Net-Zero 1, LLC	Delaware
Gevo Net-Zero Operations, LLC	Delaware
Gevo Net-Zero Asset Management, LLC	Delaware

#### CONSENT OF INDEPENDENT CERTIFIED PUBLIC ACCOUNTANTS

We have issued our report dated March 7, 2024, with respect to the consolidated financial statements included in the Annual Report of Gevo, Inc. on Form 10-K for the year ended December 31, 2023. We consent to the incorporation by reference of said report in the Registration Statements of Gevo, Inc. on Forms S-8 (File No. 333-172771, File No. 333-195264, File No. 333-207172, File No. 333-212391, File No. 333-226689, File No. 333-232267, File No. 333-239275, File No. 333-257971, and File No. 333-272380) and on Forms S-3 (File No. 333-276515, File No. 333-252229, and File No. 333-226686).

/s/ GRANT THORNTON LLP

Denver, Colorado March 7, 2024

#### CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER

- I, Patrick R. Gruber, certify that:
- 1. I have reviewed this Annual Report on Form 10-K of Gevo, 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 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;
  - 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 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):
  - 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.

Date: March 7, 2024 /s/ Patrick R. Gruber

> Patrick R. Gruber Chief Executive Officer (Principal Executive Officer)

#### CERTIFICATION OF PRINCIPAL FINANCIAL OFFICER

- I, L. Lynn Smull, certify that:
- 1. I have reviewed this Annual Report on Form 10-K of Gevo, 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 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 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):
  - 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.

Date: March 7, 2024

/s/ L. Lynn Smull

L. Lynn Smull Chief Financial Officer (Principal Financial Officer)

# CERTIFICATIONS PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002 (18 U.S.C. SECTION 1350)

- I, Patrick R. Gruber, Chief Executive Officer of Gevo, Inc. (the "Company"), and I, Lynn Smull, Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:
- (1) The Annual Report on Form 10-K of the Company for the year ended December 31, 2023, (the "Report") fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company for the period covered by the Report.

/s/ Patrick R. Gruber

Patrick R. Gruber Chief Executive Officer (Principal Executive Officer)

Date: March 7, 2024

/s/ L. Lynn Smull

L. Lynn Smull Chief Financial Officer (Principal Financial Officer)

Date: March 7, 2024

#### **GEVO, INC.**

#### COMPENSATION RECOVERY POLICY

#### Adopted as of November 10, 2023

Gevo, Inc., a Delaware corporation (the "<u>Company</u>"), has adopted a Compensation Recovery Policy (this "<u>Policy</u>") as described below. This Policy is effective as of October 2, 2023 (the "<u>Effective Date</u>") and replaces, effective as of that date, the Company's Compensation Clawback Policy adopted as of April 1, 2022 (the "<u>Prior Policy</u>"). The Prior Policy remains in effect with respect to compensation Received (as defined below) prior to the Effective Date.

#### 1. Overview

The Policy sets forth the circumstances and procedures under which the Company shall recover Erroneously Awarded Compensation from Covered Persons in accordance with rules issued by the United States Securities and Exchange Commission (the "SEC") under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and the Nasdaq Stock Market and, to the extent this Policy is in any manner deemed inconsistent with such rules, this Policy shall be treated as retroactively amended to be compliant with such rules. Capitalized terms used and not otherwise defined herein shall have the meanings given to such terms in Section 3 below.

# 2. Compensation Recovery Requirement

In the event the Company is required to prepare a Financial Restatement, the Company shall recover reasonably promptly all Erroneously Awarded Compensation with respect to such Financial Restatement, and each Covered Person shall be required to take all actions necessary to enable such recovery.

#### 3. Definitions

- a. "Applicable Recovery Period" means the three completed fiscal years immediately preceding the Restatement Date for a Financial Restatement. In addition, in the event the Company has changed its fiscal year: (i) any transition period of less than nine months occurring within or immediately following such three completed fiscal years shall also be part of such Applicable Recovery Period and (ii) any transition period of nine to 12 months will be deemed to be a completed fiscal year.
- b. "<u>Applicable Rules</u>" means any rules or regulations adopted by the Exchange pursuant to Rule 10D-1 under the Exchange Act and any applicable rules or regulations adopted by the SEC pursuant to Section 10D of the Exchange Act.
- c. "Board" means the Board of Directors of the Company.
- d. "<u>Committee</u>" means the Compensation Committee of the Board or, in the absence of such committee, a majority of independent directors serving on the Board.

- e. "Covered Person" means any Executive Officer. A person's status as a Covered Person with respect to Erroneously Awarded Compensation shall be determined as of the time of receipt of such Erroneously Awarded Compensation regardless of the person's current role or status with the Company (e.g., if a person began service as an Executive Officer after the beginning of an Applicable Recovery Period, that person would not be considered a Covered Person with respect to Erroneously Awarded Compensation Received before the person began service as an Executive Officer, but would be considered a Covered Person with respect to Erroneously Awarded Compensation Received after the person began service as an Executive Officer where such person served as an Executive Officer at any time during the performance period for such Erroneously Awarded Compensation).
- f. "Erroneously Awarded Compensation" means the amount of any Incentive-Based Compensation Received by a Covered Person on or after the Effective Date, while the Company has a class of securities listed on a national securities exchange or a national securities association, and during the Applicable Recovery Period that exceeds the amount that otherwise would have been Received by the Covered Person had such compensation been determined based on the restated amounts in a Financial Restatement, computed without regard to any taxes paid. Calculation of Erroneously Awarded Compensation with respect to Incentive-Based Compensation based on stock price or total shareholder return, where the amount of Erroneously Awarded Compensation is not subject to mathematical recalculation directly from the information in a Financial Restatement, shall be based on a reasonable estimate of the effect of the Financial Restatement on the stock price or total shareholder return upon which the Incentive-Based Compensation was based, and the Company shall maintain documentation of the determination of such reasonable estimate and provide such documentation to the Exchange in accordance with the Applicable Rules.
- g. "Exchange" means the Nasdaq Stock Market LLC.
- h. "Executive Officer" means any person who served the Company in any of the following roles, Received Incentive-Based Compensation after beginning service in any such role (regardless of whether such Incentive-Based Compensation was Received during or after such person's service in such role) and served in such role at any time during the performance period for such Incentive-Based Compensation: the president, the principal financial officer, the principal accounting officer (or if there is no such accounting officer the controller), any vice president in charge of a principal business unit, division, or function (such as sales, administration, or finance), any other officer who performs a policy making function, or any other person who performs similar policy making functions for the Company. Executive officers of parents or subsidiaries of the Company may be deemed Executive Officers if they perform such policy making functions for the Company.
- i. "Financial Reporting Measures" mean measures that are determined and presented in accordance with the accounting principles used in preparing the Company's financial statements, any measures that are derived wholly or in part from such measures (including, for example, a non-GAAP financial measure), and stock price and total

shareholder return. A Financial Reporting Measure need not be presented within the financial statements or included in a filing with the SEC.

- j. "Financial Restatement" means a restatement of previously issued financial statements of the Company due to the material noncompliance of the Company with any financial reporting requirement under the securities laws, including any required restatement to correct an error in previously-issued financial statements that is material to the previously-issued financial statements or that would result in a material misstatement if the error were corrected in the current period or left uncorrected in the current period.
- k. "<u>Incentive-Based Compensation</u>" means any compensation provided, directly or indirectly, by the Company or any of its subsidiaries that is granted, earned, or vested based, in whole or in part, upon the attainment of a Financial Reporting Measure.
- Incentive-Based Compensation is deemed "<u>Received</u>" in the Company's fiscal period during which
  the Financial Reporting Measure specified in the Incentive-Based Compensation award is attained,
  even if the payment, vesting or grant of the Incentive-Based Compensation occurs after the end of
  that period.
- m. "Restatement Date" means, with respect to a Financial Restatement, the earlier to occur of: (i) the date the Board, a committee of the Board, or the officer or officers of the Company authorized to take such action if Board action is not required, concludes, or reasonably should have concluded, that the Company is required to prepare the Financial Restatement or (ii) the date a court, regulator or other legally authorized body directs the Company to prepare the Financial Restatement.

#### 4. Exception to Compensation Recovery Requirement

The Company may elect not to recover Erroneously Awarded Compensation pursuant to this Policy if the Committee determines that recovery would be impracticable, and one or more of the following conditions, together with any further requirements set forth in the Applicable Rules, are met: (i) the direct expense paid to a third party, including outside legal counsel, to assist in enforcing this Policy would exceed the amount to be recovered, and the Company has made a reasonable attempt to recover such Erroneously Awarded Compensation; or (ii) recovery would likely cause an otherwise tax-qualified retirement plan to fail to be so qualified under applicable regulations.

#### 5. Tax Considerations

To the extent that, pursuant to this Policy, the Company is entitled to recover any Erroneously Awarded Compensation that is Received by a Covered Person, the gross amount Received (i.e., the amount the Covered Person Received, or was entitled to receive, before any deductions for tax withholding or other payments) shall be returned by the Covered Person.

#### 6. Method of Compensation Recovery

The Committee shall determine, in its sole discretion, the method for recovering Erroneously Awarded Compensation hereunder, which may include, without limitation, any one or more of the following:

- a. requiring reimbursement of cash Incentive-Based Compensation previously paid;
- b. seeking recovery of any gain realized on the vesting, exercise, settlement, sale, transfer or other disposition of any equity-based awards;
- c. cancelling or rescinding some or all outstanding vested or unvested equity-based awards;
- d. adjusting or withholding from unpaid compensation or other set-off;
- e. cancelling or offsetting against planned future grants of equity-based awards; and/or
- f. any other method permitted by applicable law or contract.

Notwithstanding the foregoing, a Covered Person will be deemed to have satisfied such person's obligation to return Erroneously Awarded Compensation to the Company if such Erroneously Awarded Compensation is returned in the exact same form in which it was Received; provided that equity withheld to satisfy tax obligations will be deemed to have been Received in cash in an amount equal to the tax withholding payment made.

# 9. Policy Interpretation

This Policy shall be interpreted in a manner that is consistent with the Applicable Rules and any other applicable law and shall otherwise be interpreted (including in the determination of amounts recoverable) in the business judgment of the Committee. The Committee shall take into consideration any applicable interpretations and guidance of the SEC in interpreting this Policy, including, for example, in determining whether a financial restatement qualifies as a Financial Restatement hereunder. To the extent the Applicable Rules require recovery of Incentive-Based Compensation in additional circumstances besides those specified above, nothing in this Policy shall be deemed to limit or restrict the right or obligation of the Company to recover Incentive-Based Compensation to the fullest extent required by the Applicable Rules.

#### 10. Policy Administration

This Policy shall be administered by the Committee. The Committee shall have such powers and authorities related to the administration of this Policy as are consistent with the governing documents of the Company and applicable law. The Committee shall have full power and authority to take, or direct the taking of, all actions and to make all determinations required or provided for under this Policy and shall have full power and authority to take, or direct the taking of, all such other actions and make all such other determinations not inconsistent with the specific terms and provisions of this Policy that the Committee deems to be necessary or

appropriate to the administration of this Policy. The interpretation and construction by the Committee of any provision of this Policy and all determinations made by the Committee under this Policy shall be final, binding and conclusive.

# 11. Compensation Recovery Repayments not Subject to Indemnification

Notwithstanding anything to the contrary set forth in any agreement with, or the organizational documents of, the Company or any of its subsidiaries, Covered Persons are not entitled to indemnification for Erroneously Awarded Compensation or for any claim or losses arising out of or in any way related to Erroneously Awarded Compensation recovered under this Policy.

# Amendment No. 1 To Fuel Sales Agreement

This Amendment (this "Amendment"), made as of December 2, 2022 (the "Amendment Effective Date"), by and between Gevo, Inc., a Delaware corporation ("Seller"), and Delta Air Lines, Inc., a Delaware corporation ("Buyer"), amends the Fuel Sales Agreement dated as of March 16, 2022 (the "Agreement"). Each of Seller and Buyer is referred to in this Amendment as a "Party" and collectively are referred to herein as the "Parties." Capitalized terms not otherwise defined in this Amendment shall have the respective meanings assigned to them in the Agreement.

NOW, THEREFORE, in consideration of the mutual covenants hereinafter set forth and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby agree to amend the Agreement as follows:

- 1. Section 3.5 of the Agreement is hereby amended by replacing "75,000,000 gallons of Fuel per year" with "85,000,000 gallons of Fuel per year."
- 2. Article 8 of the Agreement is hereby amended by replacing the two references to "75 million gallons of Fuel per year" with "85 million gallons of Fuel per year".
- 3. Appendix A of the Agreement is hereby replaced in its' entirety with the Appendix A attached hereto.
- 4. This Amendment: (a) constitutes the entire agreement between the parties with respect to the amendment(s) set forth herein and supersedes all prior understandings, agreements, written or oral, between the parties relating thereto; and (b) shall prevail over any conflicting terms and conditions in the Agreement. Except to the extent amended hereby, the Agreement shall be and remain in full force and effect.
- 5. This Amendment may be executed in multiple counterparts, each of which when so executed and delivered shall constitute a duplicate original and all counterparts together shall constitute one and the same instrument. Buyer shall only be bound by this Amendment upon its execution and return of such executed counterpart to the Seller. The Parties acknowledge and agree that any document or signature delivered by facsimile. PDF or other electronic transmission shall be deemed to be an original executed document for the purposes hereof and such execution and delivery shall be considered valid, binding and effective for all purposes.

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Gevo, Inc.

Delta Air Lines, Inc.

By: /s/ Tim Cesarek

By: /s/ Dan Janki

Name: Tim Cesarek

Name: Dan Janki

IN WITNESS WHEREOF, the parties have caused this Amendment to be executed by their duly authorized

Title: Chief Commercial Officer Title: Chief Financial Officer

representatives as of the Amendment Effective Date.

Signature Page – Amendment No. 1 to Fuel Supply Agreement

# **CORSIA ELIGIBLE FUEL CLAIM FORM**

Note: for each claim of emissions reductions from the use of CORSIA eligible fuels, please replicate this form and fill separately.

, ,			
Fuel Claim #:			
a) Purchase date			
	the meet CODOIA elimik	la fivalissa assumbana di Han tha fassanti sussi sasa dal	
Please enter the date when t	The fleat CORSIA eligible	le fuel was purchased. Use the format yyyy-mm-dd.	
b) Identification of the pr	roducor of the CO	PSIA aligible fuel	
b) identification of the pi		NOIA eligible luci	
b1) Name of producer of t	he neat CORSIA e	ligible fuel	
Please enter the name of the	fuel producer.		
-			
b2) Address of the produc	cer of the neat CO	RSIA eligible fuel	
Please enter the address of		_	
Address:		-	
City:			
State/Province/Region:			
Postcode/ZIP:			
Country:			
Country.			
a) Final production			
c) Fuel production			
c1) Date of production of	the neat CORSIA	eligible fuel	
Please enter the date of prod	luction of the neat COR	SIA eligible fuel. Use the	
format yyyy-mm-dd.			
•			
c2) Location of the produ	ction of the neat (	CORSIA eligible fuel	
Please enter the address of		_	
Address:	,		
City:			
State/Province/Region:			
Postcode/ZIP:			
Country:			
	_		
c3) Batch identification no	umber:		
c4) Mass of each batch of	neat CORSIA elig	jible fuel produced	
Please enter the total mass of	of each batch of neat CC	ORSIA eligible fuel	
produced (in tonnes).		•	
d) Fuel type			
d) i dei type			
14) = 66 1			
d1) Type of fuel			
	(i.e., Jet-A, Jet-A1, Jet-I	B, AvGas) for the purpose of computation of Life	
Cycle Emissions factors.			
•			
d2) Feedstock type			
, .	on the feedstock used t	o create the neat CORSIA eligible fuel.	
react the mornaton	o rocastoon asca t	5 5. 52.5 110 Hour Gorton Conginio Idol.	
10.0			
d3) Conversion process			
Please enter the conversion	process (i.e., a type of t	echnology used to convert a feedstock into neat CORSIA	

# d) Portion of batch purchased (if needed)

# d1) Percentage

eligible fuel).

If less than an entire batch of neat CORSIA eligible fuel is purchased, please enter the proportion of neat CORSIA eligible fuel batch purchased (in percentage terms).

d2) Mass of batch purchased					
Please enter the mass of CORSIA eligible fuel batch purchased					
(in tonnes).					
e) Mass of neat CORSIA eligible fuel					
Please enter the total mass of all batches of neat CORSIA eligible fuel included in the claim (in tonnes).					
r rease eriter the total mass of all batches of heat o'ch chy engine faci metadea in an	s dann (in tormes).				
f) Sustainability documentation					
Please provide evidence that the fuel satisfies the CORSIA Sustainability Criteria i.e.	., reference of attached valid certification document.				
g) Life Cycle Emissions Values of the CORSIA eligible fuel					
g/ === 0 0 0 0 ==== 0 0 0 0 0 0 0 0 0 0 0					
g1) Default or Actual Life Cycle Emissions					
value (LS <sub>f</sub> )					
Please enter the Life Cycle Emissions value (in gCO 2					
e/MJ).					
g2) Default or Actual Core Life Cycle Assessment					
(LCA) value					
Please enter the Core Life Cycle Assessment (LCA) value (in					
gCO <sub>2</sub> e/MJ).					
g3) Default Induced Land Use Change (ILUC) value					
Please enter the Induced Land Use Change (ILUC) value (in					
gCO <sub>2</sub> e/MJ).					
h) Intermediate purchaser 1 (if needed)					
If the aeroplane operator claiming emissions reductions from the use of CORSIA eli	gible fuels is not the original				
purchaser of the fuel from the producer (e.g., the aeroplane operator purchased fuel	=				
distributor), include the identity and contact					
information of these purchaser(s).					
h1) Name of the intermediate purchaser 1.					
Please enter the name of the intermediate purchaser 1.					
h2) Address of the intermediate purchaser 1.					
Please enter the address of the intermediate purchaser 1.					
Address:					
City:					
State/Province/Region:					
Postcode/ZIP:					
Country:					
i) Intermediate purchaser 2 (if needed)					
Please include the identity and contact information of the intermediate purchaser 2.					
i1) Name of the intermediate purchaser 2.					
Please enter the name of the intermediate purchaser 2.					
i2) Address of the intermediate purchaser 2.					
Please enter the address of the intermediate purchaser 2.					

Address:	
City:	
State/Province/Region:	
Postcode/ZIP:	
Country:	

# j) CORSIA eligible fuel shipper

# j1) Name of the CORSIA eligible fuel shipper.

Please enter the name of the party responsible for shipping of the neat CORSIA eligible fuel to the fuel blender.

	D/ / // · · ·	IA eligible fuel shipper.					
		the party responsible for shipping of the neat CORSIA eligible fuel to the fuel					
	blender.		1				
	Address:		-				
	City:						
	State/Province/Region:						
	Postcode/ZIP:						
	Country:						
k)	Fuel blender						
k1)	Name of the fuel blen	der					
,		e party responsible for blending neat CORSIA eligible fuel with aviation fuel.					
	riease enter the name of the	party responsible for blending fleat CORSIA eligible fuel with aviation fuel.					
- 1							
k2)	Address of the fuel b	ender					
	Please enter the address of	the party responsible for blending neat CORSIA eligible fuel with aviation fuel.					
	Address:						
	City:						
	State/Province/Region:						
	Postcode/ZIP:						
	Country:						
+)	Location of blending						
	Please enter the location wh	ere the neat CORSIA eligible fuel is blended with aviation fuel.					
	Address:						
	City:						
	State/Province/Region:						
	Postcode/ZIP:						
	Country:						
	Country.						
	Neet CODEIA aligible	fuel resolved					
111)	Neat CORSIA eligible	idel received					
m1)	Date the neat CORSIA	a eligible fuel was received					
	Please enter the date the ne	at CORSIA eligible fuel was received by blender. Use the					
	format yyyy-mm-dd.						
'							
	Mass of noat COPSIA	aligible fuel received					
m2\	m2) Mass of neat CORSIA eligible fuel received						
m2)		A CORCIA aligible first received					
	Please enter the mass of nea	at CORSIA eligible fuel received					
		at CORSIA eligible fuel received					
	Please enter the mass of nea	at CORSIA eligible fuel received					
	Please enter the mass of nea (in tonnes).						
	Please enter the mass of neat (in tonnes).  Blend ratio of neat CC	DRSIA eligible fuel and aviation fuel					
	Please enter the mass of neat (in tonnes).  Blend ratio of neat CC						
	Please enter the mass of neat (in tonnes).  Blend ratio of neat CC	DRSIA eligible fuel and aviation fuel					
n)	Please enter the mass of nead (in tonnes).  Blend ratio of neat CC Please enter the blend ratio of the control	DRSIA eligible fuel and aviation fuel of neat CORSIA eligible fuel and aviation fuel.					
n) o)	Please enter the mass of neat (in tonnes).  Blend ratio of neat CC Please enter the blend ratio Documentation demo	DRSIA eligible fuel and aviation fuel of neat CORSIA eligible fuel and aviation fuel.					
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n)     	Please enter the mass of neat (in tonnes).  Blend ratio of neat CC Please enter the blend ratio Documentation demo	DRSIA eligible fuel and aviation fuel of neat CORSIA eligible fuel and aviation fuel.  Instrating blending on demonstrating that the batch or batches of CORSIA eligible fuel were blended					
n)       	Please enter the mass of neat (in tonnes).  Blend ratio of neat CC Please enter the blend ratio Documentation demo	DRSIA eligible fuel and aviation fuel of neat CORSIA eligible fuel and aviation fuel.  Instrating blending on demonstrating that the batch or batches of CORSIA eligible fuel were blended					
n)	Please enter the mass of neat (in tonnes).  Blend ratio of neat CC Please enter the blend ratio of the please enter the blend ratio of the please provide documentation demonstration deviation fuel (e.g., the surface).	ORSIA eligible fuel and aviation fuel of neat CORSIA eligible fuel and aviation fuel.  Instrating blending on demonstrating that the batch or batches of CORSIA eligible fuel were blended absequent Certificate of Analysis of the blended fuel).					
n) o)	Please enter the mass of neat (in tonnes).  Blend ratio of neat CC Please enter the blend ratio of the please enter the blend ratio of the please provide documentation into aviation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please ple	DRSIA eligible fuel and aviation fuel of neat CORSIA eligible fuel and aviation fuel.  Instrating blending on demonstrating that the batch or batches of CORSIA eligible fuel were blended absequent Certificate of Analysis of the blended fuel).  eligible fuel claimed					
n)   o)	Please enter the mass of neat (in tonnes).  Blend ratio of neat CC Please enter the blend ratio of the please enter the blend ratio of the please provide documentation into aviation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please ple	ORSIA eligible fuel and aviation fuel of neat CORSIA eligible fuel and aviation fuel.  Instrating blending on demonstrating that the batch or batches of CORSIA eligible fuel were blended absequent Certificate of Analysis of the blended fuel).					
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n)   o)	Please enter the mass of neat (in tonnes).  Blend ratio of neat CC Please enter the blend ratio of the please enter the blend ratio of the please provide documentation into aviation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please ple	DRSIA eligible fuel and aviation fuel of neat CORSIA eligible fuel and aviation fuel.  Instrating blending on demonstrating that the batch or batches of CORSIA eligible fuel were blended absequent Certificate of Analysis of the blended fuel).  eligible fuel claimed					
n)   o)	Please enter the mass of neat (in tonnes).  Blend ratio of neat CC Please enter the blend ratio of the please enter the blend ratio of the please provide documentation into aviation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please ple	DRSIA eligible fuel and aviation fuel of neat CORSIA eligible fuel and aviation fuel.  Instrating blending on demonstrating that the batch or batches of CORSIA eligible fuel were blended absequent Certificate of Analysis of the blended fuel).  eligible fuel claimed					
n) o)	Please enter the mass of neat (in tonnes).  Blend ratio of neat CC Please enter the blend ratio of the please enter the blend ratio of the please provide documentation into aviation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please provide documentation fuel (e.g., the sum of the please ple	DRSIA eligible fuel and aviation fuel of neat CORSIA eligible fuel and aviation fuel.  Instrating blending on demonstrating that the batch or batches of CORSIA eligible fuel were blended absequent Certificate of Analysis of the blended fuel).  eligible fuel claimed					

#### Amendment No. 2 To Fuel Sales Agreement

This Amendment (this "Amendment"), made as of November 27, 2023 (the "Amendment Effective Date"), by and between Gevo, Inc., a Delaware corporation ("Seller"), and Delta Air Lines, Inc., a Delaware corporation ("Buyer"), amends the Fuel Sales Agreement dated as of March 16, 2022, as amended by Amendment No. 1 dated as of December 2, 2022 (the "Agreement"). Each of Seller and Buyer is referred to in this Amendment as a "Party" and collectively are referred to herein as the "Parties." Capitalized terms not otherwise defined in this Amendment shall have the respective meanings assigned to them in the Agreement.

NOW, THEREFORE, in consideration of the mutual covenants hereinafter set forth and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby agree to amend the Agreement as follows:

- 1. Section 3.2(i) of the Agreement is hereby amended by replacing "December 31, 2023" with "December 31, 2024"
- 2. Section 3.2.(ii) of the Agreement is hereby amended by replacing "June 1, 2024" with "December 31, 2024".
- 3. This Amendment: (a) constitutes the entire agreement between the parties with respect to the amendment(s) set forth herein and supersedes all prior understandings, agreements, written or oral, between the parties relating thereto; and (b) shall prevail over any conflicting terms and conditions in the Agreement. Except to the extent amended hereby, the Agreement shall be and remain in full force and effect.
- 4. This Amendment may be executed in multiple counterparts, each of which when so executed and delivered shall constitute a duplicate original and all counterparts together shall constitute one and the same instrument. Buyer shall only be bound by this Amendment upon its execution and return of such executed counterpart to the Seller. The Parties acknowledge and agree that any document or signature delivered by facsimile. PDF or other electronic transmission shall be deemed to be an original executed document for the purposes hereof and such execution and delivery shall be considered valid, binding and effective for all purposes.

[Remainder of Page Intentionally Left Blank]

IN WITNESS WHEREOF, the parties have caused this Amendment to be executed by their duly authorized representatives as of the Amendment Effective Date.

Gevo, Inc.	Delta Airlines, Inc.
By: /s/ Andrew Shafer	By: <u>/s/ Kelly Nodzak</u>
Name: Andrew Shafer	Name: Kelly Nodzak
Title: Chief Marketing, Customer and Brand Officer	Title: Director Fuel Procurement, Delta Air Lines

#### Amendment No. 1 to Fuel Sales Agreement

This Amendment (this "Amendment"), made as of December 12, 2023 (the "Amendment Effective Date"), by and between Gevo, Inc., a Delaware corporation ("Seller"), and British Airways plc, a U.K. registered public limited company ("Buyer"), amends the Fuel Sales Agreement dated as of March 18, 2022 (the "Agreement"). Each of Seller and Buyer is referred to in this Amendment as a "Party" and collectively are referred to herein as the "Parties." Capitalized terms not otherwise defined in this Amendment shall have the respective meanings assigned to them in the Agreement.

NOW, THEREFORE, in consideration of the mutual covenants hereinafter set forth and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby agree to amend the Agreement as follows:

 Section 2.10 of the Agreement is hereby amended by replacing "December 31, 2023" with "December 31, 2024".

This Amendment: (a) constitutes the entire agreement between the Parties with respect to the amendment(s) set forth herein and supersedes all prior understandings, agreements, written or oral, between the Parties relating thereto; and (b) shall prevail over any conflicting tenns and conditions in the Agreement. Except to the extent amended hereby, the Agreement shall be and remain in full force and effect.

This Amendment may be executed in multiple counterparts, each of which when so executed and delivered shall constitute a duplicate original and all counterparts together shall constitute one and the same instrument. Buyer shall only be bound by this Amendment upon its execution and return of such executed counterpart to the Seller. The Parties acknowledge and agree that any document or signature delivered by facsimile, PDF, or other electronic transmission shall be deemed to be an original executed document for the purposes hereof, and such execution and delivery shall be considered valid, binding, and effective for all purposes.

[Remainder of page intentionally left blank]

IN WITNESS WHEREOF, the Parties have caused this Amendment to be executed by their duly authorized representatives as of the Amendment Effective Date.

Gevo, Inc. British Airways plc

By: /s/Andrew Shafer By: /s/ Jim Davies

Name: Andy Shafer Name: Jim Davies

Title: Chief Marketing, Customer and

Brand Officer

Title: Programme Director – Sustainable Flight

# CERTAIN CONFIDENTIAL INFORMATION, IDENTIFIED BY BRACKETED ASTERISKS "[\*\*\*\*\*]", HAS BEEN OMITTED FROM THIS EXHIBIT BECAUSE IT IS BOTH (I) NOT MATERIAL AND (II) WOULD BE COMPETITIVELY HARMFUL IF PUBLICLY DISCLOSED.

Amendment No. 1 To Fuel Sales Agreement

This Amendment (this "Amendment"), made as of December 13, 2023 (the "Amendment Effective Date"), by and between Gevo, Inc., a Delaware corporation ("Seller"), and American Airlines, Inc, a Delaware corporation ("Buyer"), amends the Fuel Sales Agreement dated as of July 18, 2022 (the "Agreement"). Each of Seller and Buyer is referred to in this Amendment as a "Party" and collectively are referred to herein as the "Parties." Capitalized terms not otherwise defined in this Amendment shall have the respective meanings assigned to them in the Agreement.

NOW, THEREFORE, in consideration of the mutual covenants hereinafter set forth and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby agree to amend the Agreement as follows:

- 1. Section 2.10 of the Agreement is hereby amended by replacing "[\*\*\*\*\*]" with "[\*\*\*\*\*]".
- 2. This Amendment: (a) constitutes the entire agreement between the Parties with respect to the amendment(s) set forth herein and supersedes all prior understandings, agreements, written or oral, between the Parties relating thereto; and (b) shall prevail over any conflicting terms and conditions in the Agreement. Except to the extent amended hereby, the Agreement shall be and remain in full force and effect.
- 3. This Amendment may be executed in multiple counterparts, each of which when so executed and delivered shall constitute a duplicate original and all counterparts together shall constitute one and the same instrument. Buyer shall only be bound by this Amendment upon its execution and return of such executed counterpart to the Seller. The Parties acknowledge and agree that any document or signature delivered by facsimile. PDF or other electronic transmission shall be deemed to be an original executed document for the purposes hereof and such execution and delivery shall be considered valid, binding and effective for all purposes.

[Remainder of Page Intentionally Left Blank]

IN WITNESS WHEREOF, the parties have caused this Amendment to be executed by their duly authorized representatives as of the Amendment Effective Date.

Gevo, Inc. American Airlines, Inc.

By: /s/ Chris Ryan By: /s/ Jill Blickstein

Name: Chris Ryan Name: Jill Blickstein

Title: President Title: Vice President – Sustainability