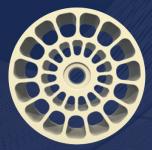






2022 ANNUAL REPORT



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

### Form 10-K

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 For the fiscal year ended December 31, 2022

□ TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from \_\_\_\_\_ to \_\_\_\_

or

Commission File Number: 001-34112



### Energy Recovery, Inc.

(Exact Name of Registrant as Specified in its Charter)

Delaware

(State or Other Jurisdiction of Incorporation)

1717 Doolittle Drive San Leandro, California 94577

(Address of Principal Executive Offices) (Zip Code)

(510) 483-7370

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Securities Exchange Act of 1934:

Title of each class	Trading Symbol	Name of each exchange on which registered
Common Stock, \$0.001 par value	ERII	Nasdaq Stock Market

#### Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark whether the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes 🗹 No 🗆

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes 🗆 No 🗹

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes  $\square$  No  $\square$ 

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes  $\boxtimes$  No  $\square$ 

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act:

Large accelerated filer 🗹 Accelerated filer 🗆 Non-accelerated filer 🗆 Smaller reporting company 🗆 Emerging growth company 🗆

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

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report.

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements.

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's executive officers during the relevant recovery period pursuant to \$240.10D-1(b).

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes 🗆 No 🗹

The aggregate market value of the voting stock held by non-affiliates amounted to approximately \$1.06 billion on June 30, 2022.

The number of shares of the registrant's common stock outstanding as of February 16, 2023 was 56,279,294 shares.

### DOCUMENTS INCORPORATED BY REFERENCE

As noted herein, the information called for by Part III is incorporated by reference to specified portions of the registrant's definitive proxy statement to be filed in conjunction with the registrant's 2023 Annual Meeting of Stockholders, which is expected to be filed not later than 120 days after the registrant's fiscal year ended December 31, 2022.

01-0616867 (I.R.S. Employer Identification No.) [This page intentionally left blank]

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### Forward-Looking Information

This Annual Report on Form 10-K for the year ended December 31, 2022, including Part II, Item 7, "Management's Discussion and Analysis of Financial Condition and Results of Operations" (the "MD&A") and certain information incorporated by reference, contain forward-looking statements within the "safe harbor" provisions of the Private Securities Litigation Reform Act of 1995. Forward-looking statements in this report include, but are not limited to, statements about our expectations, objectives, anticipations, plans, hopes, beliefs, intentions or strategies regarding the future.

Forward-looking statements represent our current expectations about future events, are based on assumptions, and involve risks and uncertainties. If the risks or uncertainties occur or the assumptions prove incorrect, then our results may differ materially from those set forth or implied by the forward-looking statements. Our forward-looking statements are not guarantees of future performance or events.

Words such as "expects," "anticipates," "aims," "projects," "intends," "plans," "believes," "estimates," "seeks," "continue," "could," "may," "potential," "should," "will," "would," variations of such words and similar expressions are also intended to identify such forward-looking statements. These forward-looking statements are subject to risks, uncertainties and assumptions that are difficult to predict; therefore, actual results may differ materially and adversely from those expressed in any forward-looking statements. Readers are directed to risks and uncertainties identified under Part I, Item 1A, "Risk Factors," and elsewhere in this report for factors that may cause actual results to be different from those expressed in these forward-looking statements. Except as required by law, we undertake no obligation to revise or update publicly any forward-looking statements for any reason.

Forward-looking statements in this report include, without limitation, statements about the following:

- our belief that the pressure exchanger is the industry standard for energy recovery in the seawater reverse osmosis desalination ("SWRO") industry;
- forecasted production and evaluations and judgments regarding supply chain matters, particularly in light of the global supply environment;
- our belief that we have sufficient raw material and finished goods to mitigate supply chain issues;
- our belief that the scalability and versatility of our platform can help us achieve success in emerging markets similar to SWRO;
- our belief that the Ultra PX<sup>™</sup> addresses key challenges associated with treating industrial wastewater in a range of reverse osmosis ("RO") applications;
- our belief that the Ultra PX can accelerate adoption of RO in the growing zero liquid discharge ("ZLD") and minimum liquid discharge ("MLD") markets;
- our belief that the Ultra PX can help make RO the preferred treatment option to achieve ZLD and MLD requirements by enhancing RO's affordability and efficiency compared to thermal treatment options.
- our estimate that our life-to-date installed energy recovery devices ("energy recovery devices") have saved water desalination customers approximately \$3.9 billion in energy costs and helped our customers avoid over 30 terawatt-hours of energy usage, which represents approximately a 4% reduction in the global energy consumption for potable water utilities;
- our belief that pressure exchanger technology can provide benefits to our customers, including the reduction of capital expenditures and energy use;
- our belief that our pressure exchanger technology can address inefficiencies and waste within industrial systems and processes that involve high-pressure and low-pressure fluid flows;
- our belief that our PX<sup>®</sup> Pressure Exchanger<sup>®</sup> ("PX") has helped make SWRO an economically viable and more sustainable option in the production of potable water;
- our belief that our hydraulic turbochargers deliver substantial savings and ease of integration into desalination systems;
- our anticipation that markets not traditionally associated with desalination, such as the United States of America (the "U.S.") and China will inevitably develop and provide further revenue growth opportunities;
- our belief that countries around the world will continue to mandate ZLD or MLD requirements for specific industries;
- our belief that leveraging the Ultra PX with RO will significantly lower thermal demand;
- our belief that the PX Q400 will be the highest-performing and highest capacity PX available for SWRO desalination and industrial wastewater facilities;
- our belief that, as the existing thermal technology is replaced with RO technology, demand for our products will be created;
- our belief that our PX offers market-leading value with the highest technological and economic benefit;

- our belief that ongoing operating costs rather than capital expenditures is the key factor in the selection of an energy recovery device solution for megaproject ("MPD") customers;
- our estimate that MPD customer projects represent revenue opportunities from approximately \$1 million to \$21 million;
- our estimate that the total capital investments by MPD customers in these large-scale infrastructure projects may range between \$50 million to over \$1 billion;
- our belief that initial capital expenditure rather than future ongoing operating costs is the key factor in the selection of an energy recovery device solution for original equipment manufacturer ("OEM") projects;
- our estimate that OEM customer projects represent revenue opportunities up to \$1 million;
- our estimate that the total capital investments by OEM customers in these projects are typically up to \$50 million;
- our belief that our PX has a competitive advantage, as compared to the Flowserve Corporation's ("Flowserve") DWEER
  product, because our devices are made with highly durable and corrosion-resistant aluminum oxide ("alumina") ceramic parts
  that are designed for a life of more than 25 years, are warrantied for high efficiencies, and cause minimal unplanned downtime,
  resulting in lower lifecycle cost and cost-effective energy recovery solutions;
- our belief that our PX has a distinct competitive advantage over Flowserve, Fluid Equipment Development Company ("FEDCO") and Danfoss Group's energy recovery devices because our devices provide significantly higher energy savings, have lower lifecycle maintenance costs, and are made of highly durable and corrosion-resistant alumina ceramic parts;
- our belief that our hydraulic turbochargers compete favorably with FEDCO's turbochargers based on efficiency, price, and because our hydraulic turbochargers have design advantages that enhance operational flexibility and serviceability;
- our belief that our pump solutions are competitive with these solutions because our pumps are developed specifically for RO desalination, are highly efficient, feature product-lubricated bearings, and are often purchased to compliment our energy recovery devices in small- to medium-sized plants;
- our belief that our pump solutions offer a competitive advantage compared to our competitors' solutions because our energy recovery devices provide the lowest life-cycle cost and are, therefore, the most cost-effective solutions for the RO desalination application;
- our belief that leveraging our pressure exchanger technology will unlock new commercial opportunities in the future;
- our belief that sales of carbon dioxide ("CO<sub>2</sub>") refrigeration systems will increase in response to regulations and supermarkets' search for safe natural refrigerants;
- our belief that our pressure exchanger technology can significantly aid in the reduction of the operating costs of CO<sub>2</sub> refrigeration systems by recycling the pressure energy of CO<sub>2</sub> gas thereby significantly reducing the energy needed to operate these systems;
- our belief that the PX G1300<sup>™</sup> could eventually alter the standard refrigeration system architecture by reducing costs for retail end users such as grocery stores;
- our belief that we will be able to achieve efficiencies across a wider range of temperatures that exceed incumbent CO<sub>2</sub> refrigeration technologies;
- our belief that the Ultra PX<sup>™</sup> can address the key challenges associated with treating industrial wastewater in ultra highpressure reverse osmosis ("UHPRO") applications;
- our belief that the Ultra PX can help make UHPRO the preferred treatment option to achieve ZLD and MLD requirements by enhancing UHPRO's affordability and efficiency compared to thermal treatment options;
- our belief that our Ultra PX enables customers to optimize their wastewater treatment process for ZLD and MLD;
- our objective of finding new applications for our technology and developing new products for use outside of desalination;
- our belief that our current facilities will be adequate for the foreseeable future;
- our belief that by investing in research and development, we will be well positioned to continue to execute on our product strategy;
- our expectation that sales outside of the U.S. will remain a significant portion of our revenue;
- our belief that the integration of Environmental, Social, and Governance ("ESG") principles into our corporate and risk
  management strategies can strengthen our existing business as well as our efforts to develop new applications of pressure
  exchanger technology for high-pressure fluid-flow environments;
- the development of major public health concerns, including the COVID-19 outbreak or other pandemics arising globally, and the future impact of such major public health concerns, and specifically in the short-term the COVID-19 pandemic, on our business and operations;
- the timing of our receipt of payment for products or services from our customers;

- our belief that our existing cash and cash equivalents, our short and/or long-term investments, and the ongoing cash generated from our operations, will be sufficient to meet our anticipated liquidity needs for the foreseeable future, with the exception of a decision to enter into an acquisition and/or fund investments in our latest technology arising from rapid market adoption that could require us to seek additional equity or debt financing;
- our expectation that, as we expand our international sales, a portion of our revenue could be denominated in foreign currencies and the impact of changes in exchange rates on our cash and operating results;
- our expectation of increased sales and marketing expenditures for 2023 and 2024;
- our belief that we will be in compliance with the terms of the existing credit agreement, as amended, in the future;
- our expectation that we will continue to receive a tax benefit related to U.S. federal foreign-derived intangible income;
- our expectation that we will be able to enforce our intellectual property ("IP") rights;
- our expectation that the adoption of new accounting standards will not have a material impact on our financial position or results of operations;
- · the outcome of proceedings, lawsuits, disputes and claims;
- · the impact of losses due to indemnification obligations;
- the impact of changes in internal control over financial reporting; and
- other factors disclosed under Part I, Item 1, "Business," Item 1A, "Risk Factors," and Item 2, "Properties," and Part II, Item 7, MD&A, and Item 7A, "Quantitative and Qualitative Disclosures about Market Risk," and elsewhere in this Form 10-K.

You should not place undue reliance on these forward-looking statements. These forward-looking statements reflect management's opinions only as of the date of the filing of this Annual Report on Form 10-K. All forward-looking statements included in this document are subject to additional risks and uncertainties further discussed under Part I, Item 1A, "Risk Factors," and are based on information available to us as of February 22, 2023. We assume no obligation to update any such forward-looking statements. Certain risks and uncertainties could cause actual results to differ materially from those projected in the forward-looking statements. These forward-looking statements are disclosed from time to time in our Quarterly Reports on Form 10-Q and Current Reports on Form 8-K filed with or furnished to the Securities and Exchange Commission (the "SEC"), as well as in Part I, Item 1A, "Risk Factors," within this Annual Report on Form 10-K.

It is important to note that our actual results could differ materially from the results set forth or implied by our forward-looking statements. The factors that could cause our actual results to differ from those included in such forward-looking statements are set forth under the heading Item 1A, "Risk Factors," in our Quarterly Reports on Form 10-Q, and in our Annual Reports on Form 10-K, and from time-to-time, in our results disclosed on our Current Reports on Form 8-K.

We provide our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, Proxy Statements, Forms 3, 4 and 5 filed by or on behalf of directors, executive officers and certain large shareholders, and any amendments to those documents filed or furnished pursuant to the Securities Exchange Act of 1934, free of charge on the Investor Relations section of our website, www.energyrecovery.com. These filings will become available as soon as reasonably practicable after such material is electronically filed with or furnished to the SEC. From time to time, we may use our website as a channel of distribution of material company information.

We also make available in the Investor Relations section of our website our corporate governance documents including our code of business conduct and ethics and the charters of the audit, compensation and nominating and governance committees. These documents, as well as the information on the website, are not intended to be part of this Annual Report on Form 10-K. We use the Investor Relations section of our website as a means of complying with our disclosure obligations under Regulation FD. Accordingly, you should monitor the Investor Relations section of our website in addition to following our press releases, SEC filings and public conference calls and webcasts.

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### PART I

### Item 1 — Business

### Overview

Energy Recovery, Inc. (the "Company", "Energy Recovery", "we", "our" and "us") designs and manufactures solutions that make industrial processes more efficient and sustainable. Leveraging our pressure exchanger technology, which generates little to no emissions when operating, our solutions lower costs, save energy, reduce waste and minimize emissions for companies across a variety of industrial processes. As the world coalesces around the urgent need to address climate change and its impacts, we are at the forefront on helping companies reduce their energy consumption in their industrial and commercial processes, which in turn, reduces their carbon footprint. We believe that our customers do not have to sacrifice quality and cost savings for sustainability and are committed to developing solutions that drive long-term value – both financial and environmental.

The original product application of our technology, the PX<sup>®</sup> Pressure Exchanger<sup>®</sup> ("PX") energy recovery device was a major contributor to the advancement of the seawater reverse osmosis desalination ("SWRO") process, significantly lowering the energy intensity and cost of water production globally from the application of SWRO. The PX, which we believe is the industry standard for energy recovery in the SWRO industry, is up to 98% efficient, operates with minimal maintenance, and outlasts most other components of the system in which it is incorporated. We have since introduced our technology to the fast growing industrial wastewater market, such as battery manufacturers, mining operations, and manufacturing plants that discharge wastewater with significant levels of metals and pollutants, as well as the commercial and industrial refrigeration market.

Research and development ("R&D") has been, and remains, an essential part of our history, culture and corporate strategy. Since our formation, we have developed leading technology and engineering expertise through the evolution of our pressure exchanger technology, which can enhance environmental sustainability and improve productivity by reducing waste and energy consumption in pressurized fluid-flow systems. This versatile technology works as a platform to build product applications and is at the heart of many of our products. In addition, we have engineered and developed ancillary devices, such as our hydraulic turbochargers and circulation booster pumps that complement our energy recovery devices.

As discussed further under the Research, Development and Technology section under Part I, Item 1 of this report, today, we are applying our core technology in new and important ways, building new products to accelerate environmental sustainability across more industries.

We have been incorporated in the state of Delaware since 2001. Our headquarters and principal R&D and manufacturing facility is located in San Leandro, California. In addition, we have manufacturing and warehouse space in Tracy, California and offices in Katy, Texas. We are a global team with sales and worldwide on-site technical support. We maintain international direct sales offices and technical support centers to service customers in Europe, Latin America, the Middle East and Asia.

### Environmental, Social, and Governance Program

We released our third annual Environmental, Social, and Governance ("ESG") report, which details our efforts to accelerate the environmental sustainability of our customers' operations and to manage ESG risks and opportunities in our own operations. We strive to be a responsible corporate citizen, and we believe our ESG program provides us with a strategic roadmap to become a more sustainable and resilient business. Our ESG report, which outlines our goals and the positive environmental impacts of our products, aligns to leading sustainability frameworks and reporting standards, including the Sustainability Accounting Standards Board as well as select disclosures from the Global Reporting Initiative, the United Nations Sustainable Development Goals, and the Task Force on Climate-related Financial Disclosures ("TCFD"). Our ESG efforts resulted in an increase in our MSCI, Inc. ("MSCI") rating position from A to a rating of AA in April 2022, maintaining our inclusion in the MSCI ESG Leaders Indexes.

Our ESG program and goals, which we believe are highly influential to our business success, focus on four key ESG topics – Employees, Environmental & Climate Change Risks, Innovation & Opportunity and Products. These topics were identified through a materiality assessment that solicited internal and external stakeholder perspectives. Since we first announced our goals and associated targets in 2021, we have made progress in all of these areas, most notably including our first full accounting of greenhouse gas (or "GHG") emissions associated with our business. This accounting is foundational to our efforts to respond to the TCFD's recommendations by the end of 2024, which we view as critical to our sustainability performance and to ensure that we are addressing anticipated regulations.

*Employees* — We recognize our success relies on our employees. We are investing in workforce health and safety and the continued development of our staff. This includes improvements, such as safety training software, and achieving the International Organization for Standardization ("ISO") 45001 certification, an occupational health and safety standard certification. We recognize the important role each employee plays in making us a stronger and more sustainable company. To this end, we have set a goal to provide 100% of our new hires with sustainability training within three months of their hire date. We have also received the "Great Place to Work Certification" by the Great Place To Work Institute, a leader in evaluating employee experience, reflecting both a high degree of satisfaction within our workforce and our meaningful commitment to employee well-being. For more information on our employees and programs, please see Human Capital Resources below.

*Environmental & Climate Change Risks* — We are engaged in a comprehensive assessment to identify our short-, medium-, and long-term climate-related risks and opportunities. We expect to qualitatively describe those risks and opportunities in our next ESG report as part of our efforts to align to the TCFD's recommendations by the end of 2024. Furthermore, in September 2022, we obtained certification to the ISO 14001 Environmental Management Standard, which is another critical component to help us manage our environmental and climate change risks in an ever-evolving landscape.

Innovation & Opportunity — Our goal is to double emissions reductions through customer usage of our products over our 2019 baseline by the end of 2025. As mentioned in our 2021 ESG report, we are well on our way, having increased our customers' energy savings through the use of our products by nearly 40% since 2019.

*Products* — We are committed to delivering products our customers can trust, with high standards of quality and safety. Our goal is to maintain the historically low failure rate of our products. In addition, we measure our product quality and safety by monitoring financial impacts from warranty events and other product incidents.

Our complete 2021 ESG report and disclosures can be found on our website at: https://energyrecovery.com/about-us/environmentalsocial-governance/. We have included this website address only as an inactive textual reference and do not intend it to be an active link to our website.

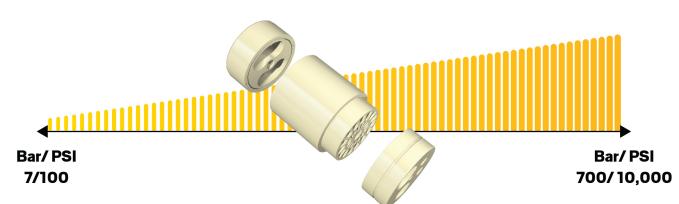
### Markets

We offer a suite of products for the desalination and industrial wastewater markets, which include municipal and industrial wastewater treatment. These products include our energy recovery devices, and high-pressure feed and recirculation booster pumps. In addition, we are also focused on applying our pressure exchanger technology to new markets and industrial verticals. For example, we have recently introduced a solution to reduce energy consumption in refrigeration and other systems that use carbon dioxide ("CO<sub>2</sub>"), an environmentally sustainable alternative to traditional hydrofluorocarbon-based systems, and, in 2022, commissioned two units based on our pressure exchanger technology platform.

### The PX Technology

Our success has been built on the strength of our PX using our proprietary pressure exchanger technology platform and is the center and structure of our product applications and solutions. Our highly-developed pressure exchanger technology is capable of allowing our PX to recycle pressure energy by transferring this energy from one high pressure column of fluid (liquid or gas) to a low-pressure column of fluid, while generating little to no emission during operation. This technology platform is applicable to a wide-range of industries where high pressure fluids exist, and assists in lowering operating costs while concurrently minimizing emissions and unplanned downtime.

The pressure exchanger technology is highly versatile and acts like a fluid piston, transferring liquid or gas energy ranging from operating pressures between 100 pounds per square inch ("psi"), or 7 bar, and as high as 10,000 psi, or 700 bar, through continuous batch process of pressure exchanges, with efficiencies up to 98%.



### Pressure Exchanger Technology Operating Range

Our patented PX family of products leverages our pressure exchanger technology and includes a variety of sizes defined by the flow of the plant ranging as low as 20 gallons per minute and up to 400 gallons per minute per device; however, our customers can design their energy recovery systems to achieve unlimited capacities by installing our PX in parallel and in multiple arrays. Our technology has been deployed into the largest industrial and municipal water treatment plants in the world and, we believe, the scalability and versatility of our platform can achieve similar success in the emerging markets we are targeting.

### **Technology Conversion**

The thermal desalination process was the dominant seawater desalination technology employed throughout the 1990s. In this process, thermal energy is used to evaporate water from heated seawater and subsequently condenses the vapor to produce pure water. Starting in the early 1990s, due to many factors including the introduction and greater usage of energy recovery devices, the process of choice for the desalination industry shifted from thermal- to membrane-based reverse osmosis ("RO") desalination.

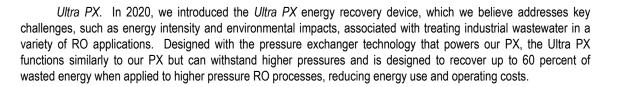
Over the past two decades RO desalination technology has become the predominant technology, supplanting thermal desalination technology as today's desalination technology of choice. As water desalination plants that use the thermal desalination technology age, the industry expects the majority of these plant owners to replace their existing thermal technology with RO desalination technology. These conversions are driving new demand for RO desalination process equipment, which in turn creates demand for our products.

We also see a similar technology conversion in the industrial wastewater market. Thermal technologies have been the technology of choice for RO systems seeking to maximize the removal of industrial waste from the water used in the manufacturing process, such as in zero liquid discharge processes, where all water is recovered and contaminants are reduced to solid waste, and minimum liquid discharge processes, where near-zero liquid discharge processes produce small volumes of liquid waste. Similar to seawater desalination, thermal technologies are an energy- and cost-intensive method for cleaning water in these discharge processes, with up to fifty percent of costs typically stemming from thermal treatments. Even in treatment facilities that adopt RO, zero and minimum liquid discharge processes will still require a small amount of thermal treatment to achieve their objectives. However, leveraging the Ultra PX<sup>™</sup> with RO will significantly lower thermal demand, saving energy and reducing emissions.

### Solutions

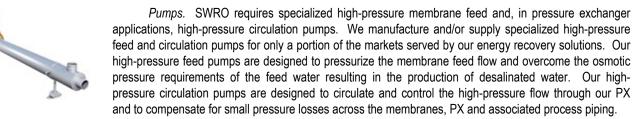
As reported in our recent ESG report, we estimated that in 2021, our life-to-date installed energy recovery devices have saved our customers approximately \$3.9 billion in energy costs and helped our customers avoid approximately 30 terawatt-hours of energy usage. Our family of energy recovery devices include our PX, Ultra PX, and our line of hydraulic turbochargers and pumps.

*PX*, high efficiency isobaric energy recovery devices. Our PX is made of a ceramic rotor supported by a highly efficient hydrodynamic and hydrostatic bearing system. Products in this family are designed for use in a variety of RO processes within the water treatment industry, including seawater and brackish desalination, as well as industrial wastewater filtration.



While RO adoption in industrial wastewater treatment is in its early stages, we believe our Ultra PX can help accelerate adoption of RO in the growing zero and minimum liquid discharge markets. Furthermore, we believe the Ultra PX can help make RO the preferred treatment option to achieve zero and minimum liquid discharge requirements by enhancing RO's affordability and efficiency compared to thermal treatment options, similar to the impact of our PX in the seawater desalination market.

Hydraulic turbochargers, high efficiency centrifugal energy recovery devices. Our AT and LPT hydraulic turbochargers are used in low-pressure brackish and high-pressure seawater desalination systems and industrial wastewater treatment. Our hydraulic turbocharger product lines are highly efficient with stateof-the-art engineering in a compact configuration. We believe our hydraulic turbochargers deliver substantial savings, operational benefits, and ease of integration into systems. With custom-designed hydraulics that allow for optimum performance over a wide range of operating conditions, our turbocharger technology offers solutions to capital cost constrained single-stage RO applications, inter-stage boost applications typically found in brackish water desalination and some industrial wastewater treatment systems, as well as in the processing of natural gas.



### Water Treatment

The world's need for clean water is intensifying, driven by population growth, industrialization, rapid urbanization, and climate change. Apart from seasonal variations, the supply of fresh water generally remains fixed and is already decreasing in some geographic areas. These trends make the markets we serve, such as desalination and treatment and re-use of industrial wastewater, increasingly critical to meet growing global water demand. Our goal in these markets is to lower the costs and emissions associated with water production and treatment.

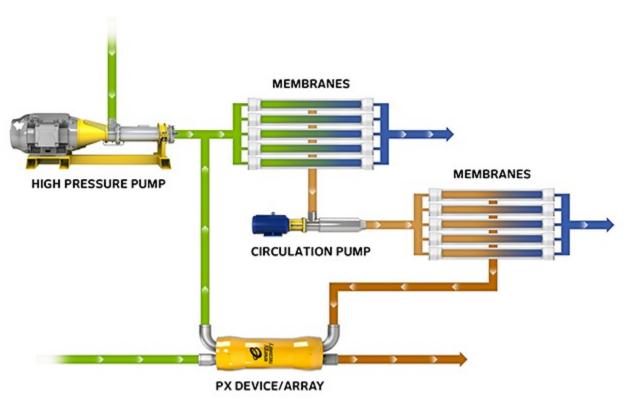




Reverse osmosis is the preferred technology in the vast majority of desalination, and growing in importance in industrial wastewater applications. As the industry leader in energy recovery devices, we deliver efficient, scalable solutions for recovering otherwise wasted energy in the RO process, thereby allowing our customers to reduce their capital expenditures, as well as lower operating costs and reduce carbon emissions associated with the production of clean potable water. We also offer high-pressure multi- and single-stage centrifugal pumps designed to complement our energy recovery devices for a wide range of RO plant capacities and applications.

### Desalination

In 2021, worldwide seawater desalination plants using our products produced over 28 million cubic meters of water per day ("m<sup>3</sup>/day"), enough to provide for more than 14% of the United States of America (the "U.S.") population's daily water needs. As water scarcity grows in communities across the globe, we are proud of our impact in enabling more affordable, sustainable access to this vital resource.



### **Desalination and Industrial Wastewater Process Flow**

\* Incoming seawater is simultaneously routed to a high-pressure pump and the PX, allowing the customer to reduce the main high pressure pump size by 60%. Desalination and industrial wastewater process flow diagram incorporating our PX is for illustration purposes only. Actual configuration may vary.

Seawater Reverse Osmosis Desalination. Energy intensive pumps are used to pressurize feed waters with varying concentrations of salts, minerals and contaminants, which is then forced through a semi-permeable membrane to achieve the desired water quantity and quality. This process results in fresh water, suitable for potable, agricultural and industrial use and a highly concentrated and pressurized concentrate or brine stream. Rather than dissipating or "wasting" the pressure energy from the discharge brine, our PX, the most widely used energy recovery solution, can transfer the pressure energy from the high-pressure discharge stream directly to a portion of the low-pressure filtered feed water, thereby reducing the amount of flow required by the main high-pressure processes' pumps. Our highly efficient technology can recycle this pressure energy at efficiencies up to 98%. This results in a more efficient process as the size of the high-pressure pumps are greatly reduced, no longer need to be sized for full membrane feed flow, and are now re-sized for the permeate flow, thus reducing the energy usage by up to 60%. As a result, our PXs have helped make seawater desalination an economically viable and more sustainable option in the production of potable water.

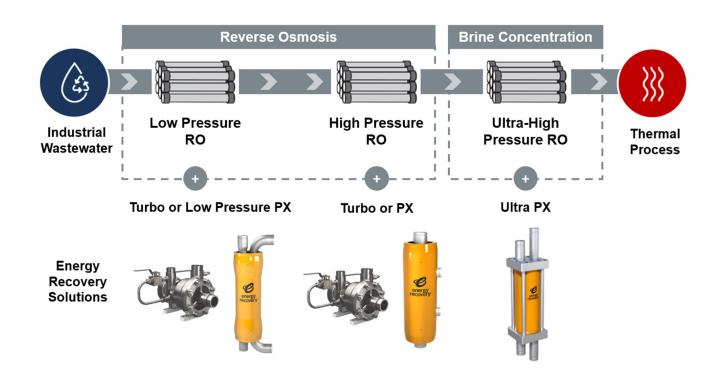
Industrial Wastewater

Brackish Water Reverse Osmosis Desalination. The brackish RO process is similar to that of seawater. Brackish water typically has lower salt, mineral and contaminant content than seawater, therefore, fewer solids need to be removed and less energy is expended on pressuring the feed water. Due to the lower cost and available pressure energy involved, our low pressure PX and hydraulic turbochargers generally have characteristics more applicable to the brackish process. The amount of salts in the feed water will ultimately determine the system design and operating conditions which, in turn, will drive decisions related to the specification or type of energy recovery device to be employed, if any.

Seawater and brackish desalination have been our primary markets for revenue generation. These markets range from small, decentralized desalination plants, such as those used in cruise ships and resorts, to large-scale ("mega") project desalination plants, defined as those which produce over 50 thousand m<sup>3</sup>/day. Because of the geographical location of many significant water desalination projects, geopolitical and economic events can influence the timing of expected projects. We anticipate that markets traditionally not associated with desalination, such as the U.S. and China, will inevitably develop and provide further revenue growth opportunities.

Both seawater and brackish market opportunities are represented by newly constructed water treatment ("greenfield") projects, and existing water treatment ("brownfield") projects. These opportunities include retrofits, upgrades and plant expansions, that either operate without an energy recovery device(s) or utilize alternative energy recovery device technologies. The greenfield market has been the key market for our water business and represents large scale projects that are typically public in nature and involve a formal tendering process; while smaller projects, which are not as common and which may be private in nature, may or may not involve a formal tendering process. Typical brownfield facilities face higher energy consumption and reduced plant availability due to legacy technologies and include improvements to existing operations, equipment upgrades and potential expansions of existing capacity.

We work directly with the project bidders, generally large engineering, procurement and construction firms ("EPC"), end-users and industry consultants, to specify our products prior to the project being awarded, where possible. Once the project is awarded to an EPC, our normal sales process ensues. The greenfield market is highly competitive, and the tendering process pays close attention to the cost to desalinate water (i.e., dollars per cubic meter of water produced). Retrofit opportunities may or may not have a formal tendering process. We typically approach the plant operators, owners and/or end-users of these facilities to present our leading life-cycle cost value-proposition.



### Energy Recovery Devices Utilized During Each Stage in the Treatment Train

The industrial wastewater market covers a wide range of industries and geographies. As governments across the globe increase their focus on water conservation and reuse, and limiting the amount of pollution, they are establishing more stringent requirements for wastewater treatment to maximize water recovery, including zero and minimum liquid discharge regulations.

Zero or minimum liquid discharge applications are being observed in countries throughout the world with China and India leading the way. We expect this trend to continue to expand as we observe the implementation of regulations on the discharge of industrial wastewater effluents as the world responds to the growing gap between water availability and water demand while focusing on decreasing and/or eliminating pollution from these industries.

Many companies are also under pressure from investors and other stakeholders to adopt more sustainable water reuse practices and to reduce their reliance on existing water resources. Sectors such as automotive, including electric vehicles, chemicals, pulp and paper, textiles, semiconductors, and other heavy industries are often large polluters and/or water consumers. Their water usage can compete with municipal and agricultural water resources, further straining potable water supply in areas already struggling with water scarcity.

A variety of RO technologies may be utilized in the industrial wastewater applications where our energy recovery solutions may be utilized. Such processes are typically multi-staged, with each stage increasing in pressure as the wastewater is filtered to recover clean water from a wastewater stream and concentrate pollutants to a level where they can be economically utilized or safely disposed, rather than discharged into waterways. Our energy recovery solutions can be applied to each of these stages: our hydraulic turbochargers and low-pressure PX technologies at pressures below 400 psi; our flagship PX at pressures between 400-1200 psi; and our Ultra PX at pressures between 1200-1800 psi.

We have a full suite of products to serve the various process stages in industrial wastewater treatment. Some treatment plants seek to concentrate the dissolved pollutants to an extent that they produce very little or no discharge of pollutants. These treatment facilities are often associated with the mineral extraction, mining, textile, pulp and paper, power generation, and chemical manufacturing industries.

### **Project Channels**

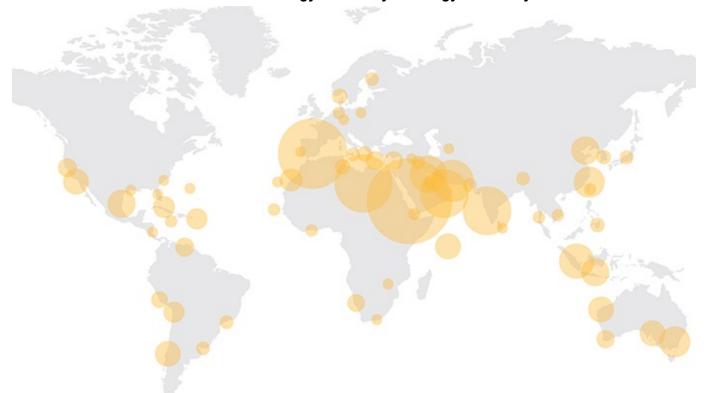
We separate our sales into three distinct channels due to financial and other commercial and technical aspects of the projects. We identify these sales channels as megaproject ("MPD"), original equipment manufacturers ("OEM") and aftermarket ("AM").

*Megaproject.* MPD customers are major firms that develop, design, build, own and/or operate large-scale desalination plants with capacities greater than 50 thousand m<sup>3</sup>/day. A majority of our water treatment revenue comes from these customers. Our MPD customers have the required desalination expertise to engineer, undertake procurement for, construct, and sometimes own and operate, large-scale desalination plants or megaprojects. Due to the project structures and capacities of these megaprojects, ongoing operating costs and life cycle costs, rather than the initial capital expenditures are the key factor in the MPD customers' selection of an energy recovery device solution. As such, MPD customers most often select our PX, which we believe offers market-leading value with the highest technological and economic benefit. We work with our MPD customers to specify and optimize our PX solutions for their plant designs. The average time between project tender and shipment ranges from 16 to 36 months, or more. Each megaproject represents revenue opportunities ranging from approximately \$1 million to \$21 million. We estimate that the total capital investments by MPD customers in these large-scale infrastructure projects may range between \$50 million to over \$1 billion.

Original Equipment Manufacturer. OEM customers are companies that supply equipment, packaged systems, and various operating and maintenance solutions for small to medium-sized desalination and industrial wastewater plants, utilized by commercial and industrial entities, as well as national, state and local municipalities worldwide. We sell to our OEM customers a broad set of our products, including our PX, hydraulic turbochargers, high-pressure pumps and circulation booster pumps, and associated services. OEM projects comprise plants processing up to 50 thousand m<sup>3</sup>/day, such as those located in local municipalities, hotels and resorts, power plants, cruise ships, agricultural sectors, and other industrial sites. In addition, these OEM customers purchase our solutions for mobile, decentralized "quick water" or emergency water solutions. Unlike megaprojects, OEM projects are smaller in scope and, as such, the initial capital expenditure, rather than future ongoing operating costs, is often more of a factor in selection of an energy recovery device solution in desalination. Accordingly, we sell not only our PX, but also our hydraulic turbochargers, which offer a lower cost alternative to our PX. The typical OEM project timeline from project tender to shipment ranges from one to 16 months. Each OEM project typically represents revenue opportunities up to \$1 million. We estimate that the total capital investments by OEM customers in these projects are typically up to \$50 million. Aftermarket. AM customers are desalination or industrial wastewater plant owners and/or operators who can utilize our technology to upgrade or keep their plant running, and usually have our solutions installed and in operation. We provide spare parts and repair services, field services and various commissioning activities. We leverage our industry expertise in supporting our existing installed base to ensure that our energy recovery solutions are being operated effectively and efficiently in order to maximize plant availability and overall profitability of the facility operations, as required by our industry partners and customers.

#### Sales and Marketing

Our strategically located direct sales force offers our products through capital sale to our customers around the world. We maintain a sales and service footprint in strategic territories, allowing rapid response to our customers' needs, such as in the U.S., China, India, Latin America, Spain, Saudi Arabia and the United Arab Emirates. Our team is comprised of individuals with many years of desalination and water treatment industry expertise. Aligning to the geographic breadth of our current and potential future customers, our product marketing approach includes a strategic presence at water industry events across various regions. In addition, we leverage our industry and market intelligence to develop new solutions and services that can be adopted by our growing customer base.



### Global Installations of Energy Recovery's Energy Recovery Solutions

A significant portion of our revenue is from outside of the U.S. Additional segment and geographical information regarding our product revenue is included in Note 2, "Revenue," Note 9, "Segment Reporting," and Note 10, "Concentrations," of the Notes to Consolidated Financial Statements in Part II, Item 8, "Financial Statements and Supplementary Data," of this Annual Report on Form 10-K (the "Notes").

### Competition

The market for energy recovery devices, high-pressure pumps, and circulation booster pumps, is competitive. As the demand for fresh water increases and the market expands, we expect competition to persist and intensify. We have three main competitors for our products: Flowserve Corporation ("Flowserve"); Fluid Equipment Development Company ("FEDCO"); and Danfoss Group ("Danfoss"). We believe our solutions offer a competitive advantage compared to our competitors' solutions because our energy recovery devices provide the lowest life-cycle cost and are, therefore, the most cost-effective solutions for the RO desalination application.

In the market for megaprojects, our PX competes primarily with Flowserve's DWEER product. We believe our PX has a competitive advantage, as compared to the DWEER product, because our devices (1) are made with highly durable and corrosion-resistant aluminum oxide ("alumina") ceramic parts that are designed for a life of more than 25 years, (2) are warrantied for high efficiencies, and (3) cause minimal unplanned downtime, resulting in lower lifecycle cost and cost-effective energy recovery solutions. Additionally, our PX offers optimum scalability with a quick startup, as well as no scheduled maintenance.

In the market for small- to medium-sized desalination plants and numerous industrial wastewater market verticals, our energy recovery solutions compete with certain Flowserve, FEDCO and Danfoss products. We believe that our PX has a distinct competitive advantage over our competitor's solutions because our devices provide significantly higher energy savings, have lower lifecycle maintenance costs, and are made of highly durable and corrosion-resistant alumina ceramic parts. We also believe, our products outperform our competition with respect to quality, flexibility, and durability. This is represented by our unmatched list of references (i.e., installed capacity). Our hydraulic turbochargers compete with FEDCO's turbochargers based on efficiency, price, and because our hydraulic turbochargers have design advantages that enhance operational flexibility and serviceability. Both Flowserve and Danfoss have launched new energy recovery devices in 2022.

In the applicable market and flow ranges that we serve for high-pressure pumps and circulation pumps, our solutions compete with pumps manufactured by Danfoss, FEDCO, Flowserve, KSB Aktiengesellschaft, Torishima Pump Mfg. Co., Ltd., Sulzer Pumps, Ltd., and other companies. We believe that our pump solutions are competitive with these solutions because our pumps are developed specifically for RO desalination, are highly efficient, feature product-lubricated bearings, and are often purchased to compliment our energy recovery devices in small- to medium-sized plants.

### Seasonality

There is no specific seasonality to highlight that occurs throughout a calendar year. We often experience substantial fluctuations in product revenue from quarter-to-quarter and from year-to-year primarily due to the timing and execution of our MPD shipments, which vary from year to year.

### **Emerging Technologies**

Today, we are leveraging our pressure exchanger technology platform to develop novel product applications and diversify into new industries. We continue to push the limits of what our core pressure exchanger technology can do, which we believe will unlock new commercial opportunities in the future.

### $CO_2$

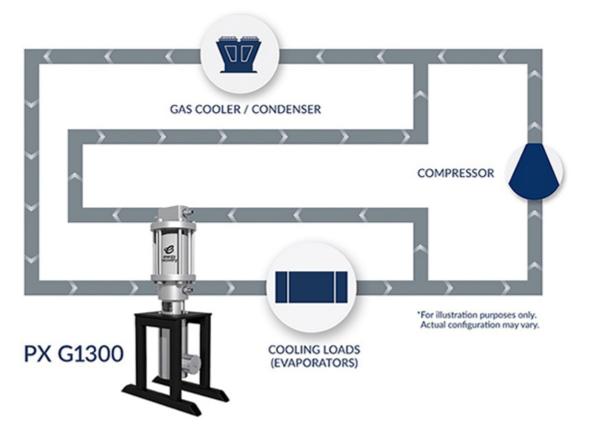
Greenhouse gases have far-ranging environmental and health effects. Greenhouse gases cause climate change by trapping heat, and also contribute to respiratory disease from smog and air pollution, and other effects of climate change, such as extreme weather, food supply disruptions, and increased wildfires. The global refrigeration and heat pumping industries are leading contributors to greenhouse gas emissions, of which the leakage of hydrofluorocarbon refrigerants within these closed systems are the leading contributor. The refrigeration industry is the fastest growing source of greenhouse gas emissions, growing at a rate of approximately 10% to 15%. Worldwide, more than 130 countries have signed on to the Kigali Amendment which establishes a timeline for the mandated phase down of hydrofluorocarbon in both developed and developing countries. In October 2022, the U.S. Environmental Protection Agency (the "EPA") ratified its intention to phase down the production and import of hydrofluorocarbon emissions by 85% by 2036, in accordance with the Kigali Amendment. In addition, certain states in the U.S., such as the states of California and Washington, are also adding regulations requiring supermarkets to change their refrigeration systems and the European Union is similarly moving to limit hydrofluorocarbons with supplemental regulations such as the F-Gas phase down.

All of these regulations are driving the refrigeration industry, as well as supermarket chains looking for a safer source of refrigerants, to shift to  $CO_2$ , which is one of the most sustainable and safe natural refrigerants due to its low toxicity and flammability, as compared to alternative refrigerants, such as ammonia and propane. As the markets catch up to comply, we anticipate the sales of  $CO_2$  refrigeration systems to increase.

The challenge today is to make  $CO_2$  systems less costly and more efficient in order to bolster the economic case for transitioning to environmentally-friendly  $CO_2$  refrigeration, especially in warmer climates where energy consumption in a  $CO_2$  refrigeration system is much higher compared to a hydrofluorocarbon system. We believe our pressure exchanger technology can solve this challenge by reducing energy consumption and lowering the costs of  $CO_2$  systems, similar to what we have achieved in desalination and industrial wastewater applications. Our refrigeration-focused product, the PX G1300<sup>TM</sup> ("PX G"), leverages our existing ceramics, material science, and manufacturing expertise, and could eventually alter the standard refrigeration system architecture by reducing costs for retail end users such as grocery stores. The PX G reduces the energy consumption and operating costs of  $CO_2$  refrigeration systems in a broad range of operating conditions. We see this as a significant accelerator for adoption of  $CO_2$  refrigeration.



The commercial refrigeration market ecosystem has multiple players who integrate the components to build a system. These multiple players include supermarkets, which are the end users of the systems; contractors that assist with the installation and maintenance of the systems; refrigeration system manufacturers; and design consultants that assist in designing and specifying the systems for the supermarkets and the component specifications to the OEMs.



### Refrigeration System Gas Process Flow Incorporating Our PX G1300

\* Low pressure CO<sub>2</sub> is simultaneously routed to a compressor and the PX G1300 which allows the customer to reduce the compressor size. Refrigeration system gas process flow diagram incorporating our PX G1300 is for illustration purposes only. Actual configuration may vary.

### Manufacturing

Our products, including our PX, hydraulic turbochargers, high-pressure pumps, and circulation booster pumps, are designed, produced, assembled and tested in our facilities located in California. Our facilities include advanced ceramics manufacturing and testing equipment.

Alumina ceramic components for our PX are manufactured in-house from high-purity alumina to the final product. As part of our waste management strategies, during the machining phase, when the solid components are shaped, excess high-purity alumina powder is collected, processed, and then reused. Components for our other products also undergo final precision machining to protect the proprietary nature of our manufacturing methods and product designs and to maintain premium quality standards. In addition, the availability of multiple test loops allows us to test every water product we manufacture to its full operating conditions. These test loops, which are a major driver of our water usage, have been modified to allow us to recycle most of the water used in these testing cycles.

We obtain raw, processed and certain pre-machined materials from various suppliers to support our manufacturing operations. A limited number of these suppliers are single source to maintain material consistency and support new product development. A qualified redundant source exists in a majority of cases. Through our vertically integrated ceramics precision manufacturing process, we ensure that all components meet our high standards for quality, durability, and reliability.

We are committed to reducing the environmental impact of our operations. We recognize that as we pursue our strategy of diversified and disciplined growth, our operations and our impact on the environment, may increase. Some of the ways we currently seek to minimize our environmental impact are by reducing consumption of resources through waste management strategies, optimizing the use of renewable energy, and monitoring key environmental indicators. Our efforts to measure and manage our impact will continue to evolve as our business grows. As a commitment to the sustainability of our operations, we have received certification to ISO 14001, the international standard for environmental management systems.

### Research, Development and Technology

Today our investments into R&D are focused on (1) advancing our solutions to better service historical markets, such as desalination; (2) applying our pressure exchanger technology to new markets, such as our recent entries into the industrial wastewater and  $CO_2$  markets; and (3) fundamental research into new applications of our pressure exchanger technology in existing and new verticals.

At the onset of any technology project, we set financial and commercial parameters, such as profitability and market size, to benchmark our success, including these time-based targets: (1) new technologies are expected to be viable within 12 months; (2) plan for commercialization of new products within 24 months of project inception; and (3) forecast a breakeven run rate within 36 months of inception. In addition, we consider broader implications of a new product's impact on environmental and social issues as part of business case development.

We recognize the importance of carefully stewarding resources to support our ongoing R&D program. We maintain advanced analytical and testing capabilities to evaluate our solutions at all company sites. We have developed complex analytical tools which allow us to be less reliant on full-scale testing that is costly and often uses considerable amounts of water and consumable energy. Our advanced numerical modeling and analytical tools allow for 3-dimensional ("3D"), multi-phase, multi-physics, and multi-scale, computational fluid dynamics, fluid structure interactions, thermodynamics and system analysis. Leading-edge modeling and analytical techniques coupled with extensive state of the art experimental capabilities allow us to further refine our existing water and refrigeration technologies, as well as developing new derivatives of our pressure exchanger technology for complex systems and applications.

Our highly skilled engineering team, many of whom carry accreditation from world recognized engineering organizations, specialize in a range of technical fields critical to support our current product lines and advance our incubation initiatives, including core engineering competencies of fluid mechanics and aerodynamics, solid mechanics with expertise in computational fluid dynamics and finite element analysis, bearings design (roller-element, hydrostatic, and hydrodynamic), multi-phase flow, dynamics and controls, acoustics and vibrations, tribology, material science and coatings, pumps and turbines, turbo-machinery, and rotating equipment.

### Information Technology

We rely on our information technology ("IT") and data systems in connection with many of our business activities. As the role of technology in our business expands, so too does the importance of cybersecurity. We take protecting our brand, systems, data, intellectual property, and customer and employee information, seriously. We actively monitor and manage our data systems for security risks (e.g., cybersecurity risks), and look to mitigate these risks through enterprise-wide programs, annual employee training and vulnerability assessments. We have made, and continue to make, investments in a skilled IT workforce and critical technologies.

Our enterprise-wide programs include endpoint security and encryption, network intrusion prevention and detection, a system for managing and installing security patches, updates for third-party applications, and security information and event management ("SIEM") systems that monitor our infrastructure and alert our security operations center of potential cybersecurity issues. We strictly regulate and limit all access to servers and networks at our facilities. Local network access is restricted by domain authentication, using stringent access control lists and virtual local area networks ("VLAN"). We have built additional layers of security for remote-work access to applications and services, such as software-defined perimeters ("SDP"), zero trust network access, and multi-factor authentication ("MFA"). Our IT department regularly performs penetration testing and we engage a third-party penetration testing company to conduct penetration tests to identify and remediate any issues.

Under our enterprise-wide approach to risk management, cybersecurity is a "high-level" risk that is reported to, and overseen by, our Audit Committee of the Board of Directors, which consists of four non-employee independent directors. In addition to the enterprise-wide initiatives, we purchase cybersecurity insurance to protect against a wide range of costs that could be incurred in connection with cybersecurity-related incidents. We continually strengthen and enhance our programs and controls around people, process and technology, and apply risk-based strategies to enhance prevention, detection, and response efforts.

### **Intellectual Property**

We seek patent protection for new technologies, inventions, and improvements that are likely to be incorporated into our solutions. We rely on patents, trade secret laws, and contractual safeguards to protect the proprietary tooling, processing techniques, and other know-how used in the production of our solutions. We have a robust intellectual property ("IP") portfolio consisting of U.S. and international issued patents as well as pending patent applications.

We have registered the following trademarks with the United States Patent and Trademark office: "ERI," "PX," "PX Pressure Exchanger," "Pressure Exchanger," "Ultra PX," "PX PowerTrain," "PX G1300," the Energy Recovery logo, and "Making Desalination Affordable." We have also applied for and received registrations in international trademark offices.

### **Human Capital Resources**

Our employees are key to our company's success. Our unparalleled PX ingenuity, increasing sales and related production growth are all enabled by our employees. Our company is built around innovation and driven by diversity of thought and background. We need employees to challenge the status quo, actively partner to resolve challenges, and seek to continuously improve themselves as well as our operations. We strive for an exciting, safe, and collaborative work environment. We are proud of this culture and believe it creates a vital competitive advantage.

As of December 31, 2022, we had 246 full-time employees, which is approximately 100% of our staffing, and include both permanent and leased employees. Our leased employees include sales and service agents worldwide, and IT support. Our employees are not unionized and we consider our relations with our employees to be good.

Our Code of Business Conduct (our "Code") serves as a critical tool to help all of us recognize and report unethical conduct, while preserving and nurturing our culture. Our Code is reflected in our employee manual and training programs, including our policies against harassment and bullying, and the elimination of bias in the workplace, which we provide to all of our employees.

Our focus is to create an engaged employee experience, throughout the process of attracting, onboarding, developing, and retaining employees. We are committed to supporting employee development as well as providing competitive benefits and a safe workplace. Our employee engagement efforts include newsletters and all-employee town hall meetings, as well as informational meetings, which includes our executive staff meeting with small groups of employees in an informal setting, through which we aim to keep all of our employees wellinformed, increase transparency and promote a culture of open communication. In addition, we provide periodic employee training and development through which we strive to educate and enhance our employee's financial, mental, and physical wellness.

Our compensation and benefit programs are designed to recognize our employees' contributions to value, ingenuity and business results, including variable pay, which rewards each employee for company and individual performance. In addition, all full-time employees and equivalents are included in share-based equity award grants, health and welfare benefits, including mental wellness, time-off, development programs and training, and opportunities to give back to our communities through donations of time and money.

Employee safety remains our top priority. To accomplish our safety goals, we developed and maintain company-wide policies to ensure the safety of each employee, as well as compliance with Occupational Safety and Health Administration ("OSHA"), and the internationally recognized ISO 45001 standards. For further transparency and accountability, we publicly disclose our Total Recordable Incident Rate, Near Miss Frequency Rate, Fatality Rate, and safety training completion rate, as part of our annual ESG reporting.

#### **Additional Information**

Our website is www.energyrecovery.com. We also maintain an Investor Relations website as a routine channel for distribution of important information, including news releases, presentations, and financial statements (https://ir.energyrecovery.com). We intend to use our Investor Relations website as a means of complying with our disclosure obligations under Regulation FD. Accordingly, investors should monitor our Investor Relations website in addition to press releases, Securities and Exchange Commission ("SEC") filings, and public conference calls and webcasts. Our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, all amendments to those reports, and the Proxy Statement for our Annual Meeting of Stockholders are made available, free of charge, in the Investor Relations section of our website, as soon as reasonably practicable after the reports have been filed with, or furnished to, the SEC. The information contained on our website or any other website is not part of this report nor is it considered to be incorporated by reference herein or with any other filing we make with the SEC. Our headquarters and primary manufacturing center is located at 1717 Doolittle Drive, San Leandro, California 94577, and our main telephone number is (510) 483-7370. The SEC maintains an internet site that contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC. The address of the SEC website is http://www.sec.gov. We have included this website address only as an inactive textual reference and do not intend it to be an active link to the SEC website.

### Item 1A — Risk Factors

The following discussion sets forth what management currently believes could be the most significant risks and uncertainties that could impact our businesses, results of operations, and financial condition. Other risks and uncertainties, including those not currently known to us or our management, could also negatively impact our businesses, results of operations, and financial conditions. Accordingly, the following should not be considered a complete discussion of all of the risks and uncertainties we may face. We may amend or supplement these risk factors from time to time in other reports we file with the SEC.

### **Risks Related to our Water Segment**

Our Water segment revenues largely depend on the construction of new and retrofitting of existing water treatment plants, and as a result, our operating results have historically experienced, and may continue to experience, significant variability due to volatility in capital spending, availability of project financing, project timing, execution and other factors affecting the broader water treatment industry.

We currently derive the majority of our Water segment revenues from sales of energy recovery products and services used in newly constructed, large-scale desalination plants and the retrofit of existing desalination plants, particularly in dry or drought-ridden regions of the world. The demand for our products used in the Water segment may decrease if the construction of these desalination plants or the retrofit of existing plants, declines for any reason, including, any global or regional economic downturns, worsening political or regional conditions, changing government priorities, or the impact of any global or regional conflicts.

Other factors that could affect the number and capacity of desalination plants built or the timing of their completion, include the availability of required engineering and design resources; a weak global economy; shortage in the supply of credit and other forms of financing; changes in government regulation, permitting requirements, or priorities; and reduced capital spending for water treatment solutions. Each of these factors could result in reduced or uneven demand for our products. Pronounced variability or delays in the construction of treatment plants or reductions in spending for desalination and industrial wastewater treatment, could negatively impact our Water segment sales and revenue, which in turn could have an adverse effect on our entire business, financial condition, or results of operations and make it difficult for us to accurately forecast our future sales and revenue.

In addition, the desalination industry has been experiencing a technology shift from thermal desalination to SWRO production. If this technology shift does not continue or we are unable to capture the remaining market opportunities created by this shift, our Water segment sales and revenue can be negatively impacted.

### Our Water segment faces competition from a number of companies that offer competing energy recovery and pump solutions. If any one of these companies produces superior technology or offers more cost-effective products, our competitive position in the market could be harmed and our profits may decline.

The market for energy recovery devices and pumps for water treatment plants is competitive and evolving. We expect competition to persist and intensify as the desalination and industrial wastewater markets continue to grow. Competitors have introduced new products in 2022, including new products from Flowserve and Danfoss that directly compete with our flagship energy recovery products. In addition, we expect new competitors to enter the market and existing competitors to introduce improvements to their existing products and additional new products that are directly competitive to our solutions. These new and improved products may be superior to our products and/or could be offered at prices that are considerably less than the cost of our products. The performance and pricing pressure of such new products could adversely affect our market share, competitive position and margins. Some of our current and potential competitors may have significantly greater financial, technical, marketing, and other resources; longer operating histories; or greater name recognition. They may also have more extensive products and product lines that would enable them to offer multi-product or packaged solutions as well as competing products at lower prices or with other more favorable terms and conditions. As a result, our ability to sustain our market share may be adversely impacted, which would affect our business, product margins, operating results, and financial condition. In addition, if one of our competitors were to merge or partner with another company, the change in the competitive landscape could adversely affect our continuing ability to competitors.

### A sustained downturn in the economy could impact the future of new, and the retrofit of, existing desalination plants, and the treatment of various industrial wastewater verticals, which could result in decreased demand for our water products and services.

The demand for our water products and services depends primarily on the continued construction of new large scale desalination plants, the retrofit of existing plants, and the construction of industrial wastewater treatment facilities, particularly in the countries that make up the Gulf Cooperation Council ("GCC"), China, and India. The recent global economic decline and armed conflicts in Ukraine may have a negative economic impact on these and other countries, which may impact the levels of spending on, timing of, and availability of project financing for new desalination and retrofit projects. The inability to secure credit or financing for these projects, may result in the postponement or cancellation of these projects, and/or change government priorities or otherwise reduce spending for water treatment projects, each of which could result in decreased demand for our products and services, which could have an adverse effect on our entire business, financial condition or results of operations.

# We are subject to risks related to product defects, which could lead to warranty claims in excess of our warranty provision or result in a significant or a large number of warranty or other claims in any given year.

We provide a warranty for certain products for a period of 18 to 30 months and provide up to a five-year warranty for the ceramic components of our PX-branded products. We test our products in our manufacturing facilities through a variety of means; however, there can be no assurance that our testing will reveal latent defects in our products, which may not become apparent until after the products have been sold into the market. The testing may not replicate the harsh, corrosive, and varied conditions of the desalination and other plants in which they are installed. It is also possible that components purchased from our suppliers could break down under those conditions. Certain components of our hydraulic turbochargers and circulation booster pumps are custom-made and may not scale or perform as required in product defects. We may incur additional cost of revenue if our warranty provisions are not sufficient to cover the actual cost of resolving issues related to defects in our products. If these additional expenses are significant, they could adversely affect our business, financial condition, and results of operations.

### We may not be able to successfully compete in the industrial wastewater market.

The industrial wastewater market is evolving and covers a wide range of industries and geographies and utilizes a variety of RO technologies. While our products can be a potential solution to these different applications, there is no guarantee that we will be successful in developing market adoption of our industrial wastewater products. While countries like China and India are beginning to mandate zero or minimum liquid discharge requirements for specific industries, in many parts of the world there are no regulations or minimal regulations for treating wastewater. Accordingly, end users in such areas may not be willing to implement industrial wastewater treatment at all or, if they do, may select a competitive or alternative wastewater treatment technology. Similar to the desalination market, there are many competitors and competitors products that can service industrial wastewater industries that do not include reverse osmosis or utilize our products. These competitors may have existing relationships with end users, greater name recognition or significantly greater financial, technical, marketing and other resources that may make it challenging for us to compete in this industry. As a result of the foregoing, we may not be able to successfully develop our industrial wastewater business, develop any market share, or win any large contracts, which would affect our business, operating results and financial condition.

### **Risks Related to our Emerging Technologies Segment**

#### We may not be able to successfully compete in the CO<sub>2</sub> refrigeration market.

For the past decade, the global commercial and refrigeration industry has been shifting away from hydrofluorocarbon-based refrigerants to natural refrigerants such as  $CO_2$  in response to the global hydrofluorocarbon refrigerant phase-down and subsequent environmental regulations. We introduced the PX G1300 energy recovery device for use in  $CO_2$ -based refrigeration systems in 2021 and continue to work on developing market adoption of this new technology. While interest in the PX G1300 has been positive, there is no guarantee that we will be successful in generating sustained interest and broad adoption of our technology on a timeline necessary to meet our goals, or at all. The commercial and industrial refrigeration industry can be slow to adopt new technologies and alternative technologies or refrigerants may emerge, slowing the adoption of the PX G1300. In addition, we may encounter new technological challenges that we will need to solve in order to achieve adoption of the technology. The commercial refrigeration industry is also saturated with very large, established companies who have greater experience and resources than us and there are competing products and technologies that compete against the PX G1300. If we are unable to solve any technological challenges, generate and sustain sufficient interest for our  $CO_2$  refrigeration technology, we may not be able to successfully compete in the  $CO_2$  refrigeration market, which could have an adverse effect on our entire business, financial condition, or results of operation.

### We may not be able to develop future new technologies successfully.

We have made a substantial investment in R&D and sales to execute on our diversification strategy into fluid flow markets, including our recent commercial refrigeration products. While we see diversification as core to our growth strategy, there is no guarantee that we will be successful in our efforts. Our model for growth is based in part on our ability to initiate and embrace disruptive technology trends, to enter new markets, both in terms of geographies and product areas, and to drive broad adoption of the products and services that we develop and market. Our competitive position and future growth depend upon a number of factors, including our ability to successfully: (i) innovate, develop and maintain competitive products, and services to address emerging trends and meet customers' needs, (ii) defend our market share against an ever-expanding number of competitors, (iii) enhance our product and service offerings by adding innovative features or disruptive technologies that differentiate them from those of our competitors and prevent commoditization, (iv) develop, manufacture and bring compelling new products and services to market quickly and cost-effectively, (v) attract, develop and retain individuals with the requisite innovation and technical expertise and understanding of customers' needs to develop new technologies, products and services, (vi) continue to invest in manufacturing, research and development, engineering, sales and marketing, and customer support. Any inability to execute this model for growth could damage our reputation, limit our growth, and negatively affect our operation results. In addition, profitability, if any, in new industrial verticals may be lower than in our Water segment, and we may not be sufficiently successful in our diversification efforts to recoup investments. The failure of our technologies, products or services to maintain and gain market acceptance due to more attractive offerings, or customers' slower-than-expected adoption of and investment in our new and innovative technologies could significantly reduce our revenues or market share and adversely affect our competitive position.

### **Risks Related to our General Business**

### Our operating results may fluctuate significantly, making our future operating results difficult to predict and causing our operating results to fall below expectations.

Our operating results may fluctuate due to a variety of factors, many of which are outside of our control. We have experienced significant fluctuations in revenue from quarter-to-quarter and year-to-year, and we expect such fluctuations to continue. In addition, in the past, customer buying patterns led to a significant portion of our sales occurring in the fourth quarter. This presents the risk that delays, cancellations, or other adverse events in the fourth quarter could have a substantial negative impact on annual results. As a result, comparing our operating results on a period-to-period basis may not be meaningful. Since it is difficult for us to anticipate our future results, in the event our revenue or operating results fall below the expectations of investors or securities analysts, our stock price may decline.

### Our sales cycles can be long and unpredictable, and our sales efforts require considerable time and expense. As a result, our sales are difficult to predict and may vary substantially from quarter to quarter, which may cause our operating results to fluctuate.

Our sales efforts involve substantial education of our current and prospective customers about the use and benefits of our energy recovery products. This education process can be time-consuming and typically involves a significant product evaluation process which is particularly pronounced when dealing with product introduction into new fluid flow industrial verticals. In our Water segment, the average sales cycle for our OEM customers, which are involved with smaller desalination plants, ranges from one to 16 months. The average Water segment sales cycle for our international MPD customers, which are involved with larger desalination plants, typically ranges from 16 to 36 months, and may exceed 36 months from time-to-time. These long sales cycles make quarter-by-quarter revenue predictions difficult and results in our expending significant resources well in advance of orders for our products.

# Our business entails significant costs that are fixed or difficult to reduce in the short term while demand for our products is variable and subject to fluctuation, which may adversely affect our operating results.

Our business requires investments in facilities, equipment, research and development, and training that are either fixed or difficult to reduce or scale in the short term. At the same time, the market for our products is variable and has experienced downturns due to factors such as economic recessions, increased precipitation, uncertain global financial markets, and political changes, many of which are outside of our control. During periods of reduced product demand, we may experience higher relative costs and excess manufacturing capacity, resulting in high overhead and lower gross profit margins while causing cash flow and profitability to decline. Similarly, although we believe that our existing manufacturing facilities are capable of meeting current demand and demand for the foreseeable future, the continued success of our business depends on our ability to expand our manufacturing, research and development, and testing facilities to meet market needs. If we are unable to respond timely to an increase in demand, our revenue, gross profit margin, net income, and cash flow may be adversely affected.

### If we are unable to collect unbilled receivables, which are caused in part by holdback provisions, our operating results could be adversely affected.

Our contracts with large EPC firms generally contain holdback provisions that typically delay final installment payments for our products by up to 24 months, after the product has been shipped and revenue has been recognized. Generally, 10% or less of the revenue we recognize pursuant to our customer contracts is subject to such holdback provisions and is accounted for as contract assets. Such holdbacks may result in relatively high unbilled receivables. If we are unable to collect these performance holdbacks, our results of operations would be adversely affected.

### We are exposed to credit risk on our trade accounts receivable, and this risk is heightened during periods when economic conditions worsen.

Some of our outstanding trade receivables are not covered by collateral, third-party bank support or financing arrangements, or credit insurance. Our exposure to credit and collectability risk on our trade receivables may be higher and affected by economic and/or political instability in certain markets, and our ability to mitigate such risks may be limited. While we have procedures to monitor and limit exposure to credit risk on our trade receivables, as well as certain prepayment requirements, there can be no assurance such procedures will effectively limit our credit risk and avoid losses.

# We depend on a limited number of suppliers for some of our components. If our suppliers are not able to meet our demand and/or requirements, our business could be harmed.

We rely on a limited number of suppliers for vessel housings, stainless steel ports, and alumina powder for our portfolio of energy recovery devices and stainless steel castings and components for our hydraulic turbochargers and pumps. Our reliance on a limited number of manufacturers for these supplies involves several risks, including reduced control over delivery schedules, quality assurance, manufacturing yields, production costs caused by rising inflation, and lack of guaranteed production capacity or product supply. We do not have long-term supply agreements with these suppliers but secure these supplies on a purchase order basis. Our suppliers have no obligation to supply products to us for any specific period, in any specific quantity, or at any specific price, except as set forth in a particular purchase order. Our requirements may represent a small portion of the total production capacities of these suppliers, and our suppliers may reallocate capacity to other customers, even during periods of high demand for our products. We have in the past experienced, and may in the future experience, product quality issues and delivery delays with our suppliers due to factors such as high industry demand or the inability of our vendors to consistently meet our quality or delivery requirements. If our suppliers were to cancel or materially change their commitments to us or fail to meet quality or delivery requirements needed to satisfy customer orders for our products, we could lose time-sensitive customer orders, be unable to develop or sell our products cost-effectively or on a timely basis, if at all, and have significantly decreased revenue, which could harm our business, operating results, and financial condition. We may qualify additional suppliers in the future, which would require time and resources. If we do not qualify additional suppliers, we may be exposed to increased risk of capacity shortages due to our dependence on current suppliers.

### Parts of our inventory may become excess or obsolete, which would increase our cost of revenues.

Inventory of raw materials, parts, components, work in-process, or finished products may accumulate, and we may encounter losses due to a variety of factors, including technological change in the water desalination, industrial wastewater and refrigeration markets that result in product changes; long delays in shipment of our products or order cancellations; our need to order raw materials that have long lead times and our inability to estimate exact amounts and types of items needed, especially with regard to the configuration of our high-efficiency pumps; and cost reduction initiatives resulting in component changes within the products.

In addition, we may, from time-to-time, purchase more inventory than is immediately required in order to shorten our delivery time in case of an anticipated increase in demand for our products. If we are unable to forecast demand for our products with a reasonable degree of certainty and our actual orders from our customers are lower than these forecasts, we may accumulate excess inventory that we may be required to write off, and our business, financial condition, and results of operations could be adversely affected.

### We may not generate positive returns on our research and development strategy.

Developing our products is expensive and the investment in product development may involve a long payback cycle. While we believe one of our greatest strengths lies in our innovation and our product development efforts, successfully commercializing such efforts and generating a return can be difficult. We expect that our results of operations may be impacted by the timing and size of these investments. In addition, these investments may take several years to generate positive returns, if ever.

### Business interruptions may damage our facilities or those of our suppliers.

Our operations and those of our suppliers may be vulnerable to interruption by fire, earthquake, flood, and other natural disasters, as well as power loss, telecommunications failure, and other events beyond our control. Our headquarters in California is located near major earthquake faults and has experienced earthquakes in the past. In addition, our facilities in California are located in areas that are subject to public safety power shutdowns ("PSPS"). If a natural disaster occurs or we are subject to PSPS, our ability to conduct our operations could be seriously impaired, which could harm our business, financial condition, results of operations, and cash flows. We cannot be sure that the insurance we maintain against general business interruptions will be adequate to cover all of our losses.

# We are, from time to time, involved in legal proceedings, and may be subject to additional future legal proceedings, that may result in material adverse outcomes.

In addition to the IP litigation risks, we may become involved in the future, in various commercial and other disputes as well as related claims and legal proceedings that arise from time to time in the course of our business. See Note 7, "Commitments and Contingencies – Litigation," of the Notes for information about certain legal proceedings in which we are involved. Our current legal proceedings and any future lawsuits to which we may become a party are, and will likely be, expensive and time consuming to investigate, defend and resolve, and will divert our management's attention. Any litigation to which we are a party may result in an onerous or unfavorable judgment that may not be reversed upon appeal or in payments of substantial monetary damages or fines, or we may decide to settle lawsuits on similarly unfavorable terms, which could have an adverse effect on our business, financial condition, or results of operations.

### Our actual operating results may differ significantly from our guidance.

We release guidance in our quarterly earnings conference calls, quarterly earnings releases, or otherwise, regarding our future performance that represents our management's estimates as of the date of release. This guidance, which includes forward-looking statements, will be based on projections prepared by our management. These projections will not be prepared with a view toward compliance with published guidelines of the American Institute of Certified Public Accountants, and neither our registered public accountant nor any other independent expert or outside party compiles or examines the projections. Accordingly, no such person will express any opinion or any other form of assurance with respect to the projections.

Projections are based upon a number of assumptions and estimates that, while presented with numerical specificity, are inherently subject to significant business, economic and competitive uncertainties and contingencies, many of which are beyond our control and are based upon specific assumptions with respect to future business decisions, some of which will change. We will continue to state possible outcomes as high and low ranges which are intended to provide a sensitivity analysis as variables are changed but are not intended to imply that actual results could not fall outside of the suggested ranges. The principal reason that we release guidance is to provide a basis for our management to discuss our business outlook with analysts and investors. We do not accept any responsibility for any projections or reports published by any such third parties.

Guidance is necessarily speculative in nature, and it can be expected that some or all of the assumptions underlying the guidance furnished by us will not materialize or will vary significantly from actual results. Accordingly, our guidance is only an estimate of what management believes is realizable as of the date of release. Actual results may vary from our guidance and the variations may be material. In light of the foregoing, investors are urged not to rely upon our guidance in making an investment decision regarding our common stock.

Any failure to successfully implement our operating strategy or the occurrence of any of the events or circumstances set forth in this "Risk Factors" section in this Annual Report on Form 10-K could result in the actual operating results being different from our guidance and the differences may be adverse and material.

# In preparing our financial statements we make certain assumptions, judgments and estimates that affect amounts reported in our consolidated financial statements, which, if not accurate, may significantly impact our financial results.

We make assumptions, judgments and estimates for a number of items, including the fair value of financial instruments, goodwill, long-lived assets and other intangible assets, the realizability of deferred tax assets, the recognition of revenue and the fair value of stock awards. We also make assumptions, judgments and estimates in determining the accruals for employee-related liabilities, including commissions and variable compensation, and in determining the accruals for uncertain tax positions, valuation allowances on deferred tax assets, allowances for doubtful accounts, and legal contingencies. These assumptions, judgments and estimates are drawn from historical experience and various other factors that we believe are reasonable under the circumstances as of the date of the consolidated financial statements. Actual results could differ materially from our estimates, and such differences could significantly impact our financial results.

# Our global operations expose us to risks and challenges associated with conducting business internationally, and our results of operations may be adversely affected by our efforts to comply with the laws of other countries, as well as U.S. laws which apply to international operations, such as the U.S. Foreign Corrupt Practices Act ("FCPA") and U.S. export control laws.

We operate on a global basis with offices or activities in Europe, Africa, Asia, South America and North America. We face risks inherent in conducting business internationally, including compliance with international and U.S. laws and regulations that apply to our international operations. These laws and regulations include tax laws, anti-competition regulations, import and trade restrictions, export control laws, and laws which prohibit corrupt payments to governmental officials or certain payments or remunerations to customers, including the U.S. FCPA or other anti-corruption laws that have recently been the subject of a substantial increase in global enforcement. Many of our products are subject to U.S. export law restrictions that limit the destinations and types of customers to which our products may be sold, or require an export license in connection with sales outside the U.S. Given the high level of complexity of these laws, there is a risk that some provisions may be inadvertently or intentionally breached, for example, through fraudulent or negligent behavior of individual employees, our failure to comply with certain formal documentation requirements, or otherwise. Also, we may be held liable for actions taken by our local dealers and partners. Violations of these laws and regulations could result in fines, criminal sanctions against us, our officers or our employees, and prohibitions or conditions on the conduct of our business. Any such violations could include prohibitions or conditions on our ability to offer our products in one or more countries and could materially damage our reputation, our brand, our business, and our operating results. In addition, we operate in many parts of the world that have experienced significant governmental corruption to some degree and, in certain circumstances, strict compliance with anti-bribery laws may conflict with local customs and practices. We may be subject to competitive disadvantages to the extent that our competitors are able to secure business, licenses, or other preferential treatment by making payments to government officials and others in positions of influence or through other methods that relevant law and regulations prohibit us from using. Our success depends, in part, on our ability to anticipate these risks and manage these difficulties. These factors or any combination of these factors may adversely affect our revenue or our overall financial performance.

### Our failure to maintain appropriate ESG practices and disclosures could result in reputational harm, a loss of customer and investor confidence, and adverse business and financial results.

Governments, investors, customers, and employees are enhancing their focus on ESG practices and disclosures, and expectations in this area are rapidly evolving and increasing. While we monitor the various and evolving standards and associated reporting requirements, failure to adequately maintain appropriate ESG practices that meet diverse stakeholder expectations may result in the loss of business, reduced market valuation, an inability to attract customers, and an inability to attract and retain top talent.

### Climate change, or legal or regulatory measures to address climate change, may negatively affect us.

Climate change resulting from increased concentrations of carbon dioxide and other greenhouse gases in the atmosphere could present risks to our operations. Physical risk resulting from acute changes, such as hurricane, tornado, wildfire or flooding, or chronic changes, such as droughts, heat waves or sea level changes, in climate patterns can adversely impact our facilities and operations and disrupt our supply chains and distribution systems. Concern over climate change can also result in new or additional legal or regulatory requirements designed to reduce greenhouse gas emissions and/or mitigate the effects of climate change on the environment, such as taxation of, or caps on the use of, carbon-based energy. Any such new or additional legal or regulatory requirements may increase the costs associated with, or disrupt, sourcing, manufacturing and distribution of our products, which may adversely affect our business and financial statements.

### We must comply with a variety of existing and future laws and regulations, such as ESG initiatives, that could impose substantial costs on us and may adversely affect our business.

Increasingly regulators, customers, investors, employees and other stakeholders are focusing on ESG matters. While we have certain ESG initiatives at the Company, there can be no assurance that regulators, customers, investors, and employees will determine that these programs are sufficiently robust. In addition, there can be no assurance that we will be able to attain any announced goals related to our ESG program, as statements regarding our ESG goals reflect our current plans and aspirations and are not guarantees that we will be able to achieve them within the timelines we announce or at all. Actual or perceived shortcomings with respect to our ESG initiatives and reporting can impact our ability to hire and retain employees, increase our customer base, or attract and retain certain types of investors. In addition, these parties are increasingly focused on specific disclosures and frameworks related to ESG matters. Collecting, measuring, and reporting ESG information and metrics can be costly, difficult and time consuming, is subject to evolving reporting standards, and can present numerous operational, reputational, financial, legal and other risks, any of which could have a material impact, including on our reputation and stock price. Inadequate processes to collect and review this information prior to disclosure could be subject to potential liability related to such information.

#### Acts of War or Terrorism.

Threats or acts of war or terrorism can adversely affect our business. Terrorist attacks in the U.S., Europe and in other countries, and continuing hostilities in the Middle East and elsewhere have created significant instability and uncertainty in the world. These and future events may have a material adverse effect on world financial markets as well as the water industry, as many large existing and planned water desalination plants are located in the Middle East. In addition, threats or acts of war or terrorism can cause our customers to curtail their purchase of our products. These factors or any combination of these factors may adversely affect our revenue or our overall financial performance.

#### If we need additional capital to fund future growth, it may not be available on favorable terms, or at all.

Our primary source of cash historically has been customer payments for our products and services and proceeds from the issuance of common stock. This has funded our operations and capital expenditures. We may require additional capital from equity or debt financing in the future to fund our operations or respond to competitive pressures or strategic opportunities, such as a potential acquisition or the expansion of operations. We may not be able to secure such additional financing on favorable terms, or at all. The terms of additional financing may place limits on our financial and operational flexibility. If we raise additional funds through further issuances of equity, convertible debt securities, or other securities convertible into equity, our existing stockholders could suffer significant dilution in their percentage ownership of our company, and any new securities that we issue could have rights, preferences, or privileges senior to those of existing or future holders of our common stock. If we are unable to obtain necessary financing on terms satisfactory to us, if and when we require it, our ability to grow or support our business and to respond to business challenges or opportunities could be significantly limited.

# We may seek to expand through acquisitions of and investments in other businesses, technologies, and assets. These acquisition activities may be unsuccessful or divert management's attention.

We may consider strategic and complementary acquisitions of and investments in other businesses, technologies, and assets, and such acquisitions or investments are subject to risks that could affect our business, including risks related to:

- the necessity of coordinating geographically disparate organizations;
- implementing common systems and controls;
- integrating personnel with diverse business and cultural backgrounds;
- integrating acquired research and manufacturing facilities, technology and products;
- combining different corporate cultures and legal systems;
- unanticipated expenses related to integration, including technical and operational integration;
- increased costs and unanticipated liabilities, including with respect to registration, environmental, health and safety matters, that
  may affect sales and operating results;
- retaining key employees;
- obtaining required government and third-party approvals;
- legal limitations in new jurisdictions;
- · installing effective internal controls and audit procedures;
- issuing common stock that could dilute the interests of our existing stockholders;
- spending cash and incurring debt;
- assuming contingent liabilities; and
- creating additional expenses.

We may not be able to identify opportunities or complete transactions on commercially reasonable terms, or at all, or actually realize any anticipated benefits from such acquisitions or investments. Similarly, we may not be able to obtain financing for acquisitions or investments on attractive terms. If we do complete acquisitions, we cannot ensure that they will ultimately strengthen our competitive or financial position or that they will not be viewed negatively by customers, financial markets, investors, or the media. In addition, the success of any acquisitions or investments also will depend, in part, on our ability to integrate the acquisition or investment with our existing operations. The integration of businesses that we may acquire is likely to be a complex, time-consuming, and expensive process and we may not realize the anticipated revenues or other benefits associated with our acquisitions if we fail to successfully manage and operate the acquired business. If we fail in any acquisition integration efforts and are unable to efficiently operate as a combined organization utilizing common information and communication systems, operating procedures, financial controls, and human resources practices, our business, financial condition, and results of operations may be adversely affected.

In connection with certain acquisitions, we may agree to issue common stock or assume equity awards that dilute the ownership of our current stockholders, use a substantial portion of our cash resources, assume liabilities, record goodwill and amortizable intangible assets that will be subject to impairment testing on a regular basis and potential periodic impairment charges, incur amortization expenses related to certain intangible assets, and incur large and immediate write-offs and restructuring and other related expenses, all of which could harm our financial condition and results of operations.

### Our success depends, in part, on key personnel whose continued service is not guaranteed.

Our success depends, in part, on the continued availability and service of key personnel, including executive officers and other highly qualified employees, and competition for their talents is intense. We cannot assure that we will retain our key personnel or that we will be able to recruit and retain other highly qualified employees in the future. Losing any key personnel could, at least temporarily, have a material adverse effect on our business, financial position and results of operations.

#### Risks Related to Economic Conditions, including Inflation, the Ukraine Conflict, and Continuing COVID-19 Outbreaks

### Rising inflation may result in increased costs of operations and negatively impact the credit and securities markets generally, which could have a material adverse effect on our results of operations and the market price of our common stock.

Inflation has accelerated in the U.S. and globally due in part to global supply chain issues, the Ukraine-Russia war, a rise in energy prices, and strong consumer demand as economies continue to reopen from restrictions related to the COVID-19 pandemic. An inflationary environment can increase our cost of labor, as well as our other operating costs, which may have a material adverse impact on our financial results. In addition, economic conditions could impact and reduce the number of customers who purchase our products or services as credit becomes more expensive or unavailable. In addition, the U.S. Federal Reserve has raised, and may again raise, interest rates in response to concerns about inflation, which may result in limitations on our ability to access credit or otherwise raise debt and equity capital, if needed.

Our ability to pass on such increases in costs in a timely manner depends on market conditions, and the inability to pass along cost increases could result in lower gross margins. Increases in interest rates, especially if coupled with reduced government spending and volatility in financial markets, may have the effect of further increasing economic uncertainty and heightening these risks. In an inflationary environment, we may be unable to raise the sales prices of our products and services at or above the rate at which our costs increase, which could reduce our profit margins and have a material adverse effect on our financial results. We also may experience lower than expected sales and potential adverse impacts on our competitive position if there is a decrease in customer spending or a negative reaction to our pricing. A reduction in our revenue would be detrimental to our financial condition and could also have an adverse impact on our future growth. Further, increased interest rates could have a negative effect on the securities markets generally which may, in turn, have a material adverse effect on the market price of our common stock.

#### Uncertainty in the global geopolitical landscape and macro-economic environment may impact our operations outside the U.S.

There is uncertainty as to the position the U.S. will take with respect to world affairs. This uncertainty may include such issues as the U.S. support for existing treaty and trade relationships with other countries, including, notably, China. This uncertainty, together with other recent key global events, such as recently enacted currency control regulations and tariff regimes in or against China, ongoing terrorist activity, and potential hostilities in the Middle East, may adversely impact (i) the ability or willingness of non-U.S. companies to transact business in the U.S., including with us; (ii) our ability to transact business in other countries, including the Middle East, where many of the water megaprojects are planned; (iii) regulation and trade agreements affecting U.S. companies; (iv) global stock markets (including The NASDAQ Global Select Market Composite on which our common shares are traded); and (v) general global economic conditions. Furthermore, in connection with increasing tensions related to the ongoing conflict between Russia and Ukraine, the U.S. government has stated it is considering imposing enhanced export controls on certain products and sanctions on certain industry sectors and parties in Russia. Further escalation of geopolitical tensions could have a broader impact that expands into other markets where we do business, which could adversely affect our business and/or our supply chain, business partners or customers in the broader region. All of these factors are outside of our control, but may nonetheless cause us to adjust our strategy in order to compete effectively in global markets.

# Our supply chain may be materially adversely impacted due to global events, including continuing COVID-19 outbreaks, transportation delays and the armed conflict in Ukraine.

We rely upon the facilities of our global suppliers to support our business. Our supply chain can be adversely affected by a variety of global events, including COVID-19 restrictions, transportation delays, and the armed conflict in Ukraine. As a result of these types of global events and resulting governmental and business reactions, our suppliers may not have the materials, capacity, or capability to supply our components according to our schedule and specifications. Further, there may be logistics issues, including our ability and our supply chain's ability to quickly ramp up production, labor issues and transportation demands that may cause further delays. Supply chain constraints have intensified due to COVID-19 and may further intensify due to other global events, contributing to existing global shortages. The unavailability of any component or supplier could result in production delays, underutilized facilities, and loss of access to critical raw materials and parts for producing and supporting our tools, and could impact our ongoing capacity expansion and our ability to fulfill our product delivery obligations. If our suppliers' operations are curtailed, we may need to seek alternate sources of supply, which may be more expensive. Alternate sources may not be available or may result in delays in shipments to us from our supply chain and subsequently to our customers, each of which would affect our results of operations. These types of disruptions and governmental restrictions may also result in the inability of our customers to obtain materials necessary for their full production, which could also result in reduced demand for our products. While disruptions and governmental restrictions, as well as related general limitations on movement around the world, are expected to be temporary, the duration of the production and supply chain disruption, and related financial impact, cannot be estimated at this time. Should the production and distribution closures continue for an extended period of time, the impact on our supply chain could have a material adverse effect on our results of operations and cash flows. Business disruptions could also negatively affect the sources and availability of components and raw materials that are essential to the operation of our business. Moreover, our customers source a range of equipment, supplies and services from other suppliers with operations around the world, and any reduction in supply capacity at those customers' factories may reduce or even halt those customers' projects and result in a decrease in the demand for our products.

### **Risks Related to Information Technology**

### We may have risks associated with security of our information technology systems.

We make significant efforts to maintain the security and integrity of our information technology systems and data. Despite significant efforts to create security barriers to such systems, it is virtually impossible for us to entirely mitigate this risk. Although we have sufficient controls in place, we have implemented additional enhanced security features and monitoring procedures. There is a risk of industrial espionage, cyberattacks, such as LOG4J, misuse or theft of information or assets, or damage to assets by people who may gain unauthorized access to our facilities, systems, or information. Such cybersecurity breaches, misuse, or other disruptions could lead to the disclosure of confidential information, improper usage and distribution of our IP, theft, manipulation and destruction of private and proprietary data, and production downtimes. Although we actively employ measures to prevent unauthorized access to our financial results and any legal action in connection with any such cybersecurity breach could be costly and time-consuming and may divert management's attention and adversely affect the market's perception of us and our products. In addition, we must frequently expand our internal information system is expensive to expand and must be highly secure due to the sensitive nature of our customers' information that we transmit. Building and managing the support necessary for our growth places significant demands on our management and resources. These demands may divert these resources from the continued growth of our business and implementation of our business strategy.

# Our actual or perceived failure to adequately protect personal data could adversely affect our business, financial condition and results of operations.

A wide variety of provincial, state, national, foreign, and international laws and regulations apply to the collection, use, retention, protection, disclosure, transfer, and other processing of personal data. These privacy and data protection-related laws and regulations are evolving, with new or modified laws and regulations proposed and implemented frequently and existing laws and regulations subject to new or different interpretations. Further, our legal and regulatory obligations in foreign jurisdictions are subject to unexpected changes, including the potential for regulatory or other governmental entities to enact new or additional laws or regulations, to issue rulings that invalidate prior laws or regulations, or to increase penalties significantly. Compliance with these laws and regulations can be costly and can delay or impede the development and offering of new products and services.

For example, the General Data Protection Regulation, which became effective in May 2018, imposes more stringent data protection requirements, and provides for significantly greater penalties for noncompliance, than the European Union laws that previously applied. Additionally, California recently enacted legislation, the California Privacy Rights Act ("CPRA"), which amends the California Consumer Privacy Act. The CPRA took effect on January 1, 2023, and will be enforced from July 1, 2023. We may be subject to additional obligations relating to personal data by contract that industry standards apply to our practices. Our actual or perceived failure to comply with applicable laws and regulations or other obligations to which we may be subject relating to personal data, or to protect personal data from unauthorized access, use, or other processing, could result in enforcement actions and regulatory investigations against us, claims for damages by customers and other affected individuals, fines, damage to our reputation, and loss of goodwill, any of which could have a material adverse effect on our operations, financial performance, and business. Further, evolving and changing definitions of personal data and personal information, including the classification of internet protocol addresses, machine identification information, location data, and other information, may limit or inhibit our ability to operate or expand our business, including limiting business relationships and partnerships that may involve the sharing or uses of data, and may require significant costs, resources, and efforts in order to comply.

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

### If we are unable to protect our technology or enforce our intellectual property rights, our competitive position could be harmed, and we could be required to incur significant expenses to enforce our rights.

Our competitive position depends on our ability to establish and maintain proprietary rights in our technology and to protect our technology from copying by others. We rely on trade secret, patent, copyright, and trademark laws, as well as confidentiality agreements with employees and third parties, all of which may offer only limited protection. We hold a number of U.S. and counterpart international patents, and when their terms expire, we could become more vulnerable to increased competition. The protection of our IP in some countries may be limited. While we have expanded our portfolio of patent applications, we do not know whether any of our pending patent applications will result in the issuance of patents or whether the examination process will require us to narrow our claims, and even if patents are issued, they may be contested, circumvented, or invalidated. Moreover, while we believe our issued patents or patents that may be issued in the future may not provide us with proprietary protection or competitive advantages, and as with any technology, competitors may be able to develop similar or superior technologies now or in the future. In addition, our granted patents may not prevent misappropriation of our technology, particularly in foreign countries where IP laws may not protect our proprietary rights as fully as those in the U.S. This may render our patents impaired or useless and ultimately expose us to currently unanticipated competition. Protecting against the unauthorized use of our products, trademarks, and other proprietary rights is expensive, difficult, and in some cases, impossible. Litigation may be necessary in the future to enforce or defend our IP rights or to determine the validity and scope of the proprietary rights of others. IP litigation could result in substantial costs and diversion of management resources, either of which could harm our business.

### Claims by others that we infringe their proprietary rights could harm our business.

Third parties could claim that our technology infringes their IP rights. In addition, we or our customers may be contacted by third parties suggesting that we obtain a license to certain of their IP rights that they may believe we are infringing. We expect that infringement claims against us may increase as the number of products and competitors in our market increases and overlaps occur. In addition, to the extent that we gain greater visibility, we believe that we will face a higher risk of being the subject of IP infringement claims. Any claim of infringement by a third party, even those without merit, could cause us to incur substantial costs defending against the claim and could distract management from our business. Furthermore, a party making such a claim, if successful, could secure a judgment that requires us to pay substantial damages. A judgment against us could also include an injunction or other court order that could prevent us from offering our products. In addition, we might be required to seek a license for the use of such IP, which may not be available on commercially reasonable terms, or at all. Alternatively, we may be required to develop non-infringing technology, which could require significant effort and expense and may ultimately not be successful. Any of these events could seriously harm our business. Third parties may also assert infringement claims against our customers. Because we generally indemnify our customers if our products infringe the proprietary rights of third parties, any such claims would require us to initiate or defend protracted and costly litigation on their behalf in one or more jurisdictions, regardless of the merits of these claims. If any of these claims succeed, we may be forced to pay damages on behalf of our customers.

### **Risks Related to Tax and Governmental Regulations**

### The enactment of legislation implementing changes in taxation of international business activities, the adoption of other corporate tax reform policies, or changes in tax legislation or policies could materially impact our financial position and results of operations.

Our future effective tax rates could be subject to volatility or adversely affected by changes in tax laws, regulations, accounting principles, or interpretations thereof. In addition, the U.S. Tax Cuts and Jobs Act ("Tax Act") enacted in 2017, made significant changes to the taxation of U.S. business entities that may have a meaningful impact to our provision for income taxes. These changes included a reduction to the federal corporate income tax rate, the current taxation of certain foreign earnings, the imposition of base-erosion prevention measures which may limit the deduction of certain transfer pricing payments, foreign derived intangible income deductions, capitalization of R&D expenses beginning in the 2022 tax year, and possible limitations on the deductibility of net interest expense or corporate debt obligations. The U.S. Department of the Treasury continues to issue regulations that affect various components of the Tax Act. Our future effective tax rate may be impacted by changes in interpretation of the regulations, as well as additional legislation and guidance regarding the Tax Act.

In addition, many countries are beginning to implement legislation and other guidance to align their international tax rules with the Organisation for Economic Co-operation's Base Erosion and Profit Shifting recommendations and action plan that aim to standardize and modernize global corporate tax policy, including changes to cross-border tax, transfer-pricing documentation rules, and nexus-based tax incentive practices. As a result of the heightened scrutiny of corporate taxation policies, prior decisions by tax authorities regarding treatments and positions of corporate income taxes could be subject to enforcement activities, and legislative investigation and inquiry, which could also result in changes in tax policies or prior tax rulings. Any such changes in policies or rulings may also result in the taxes we previously paid being subject to change.

Due to the scale of our international business activities any substantial changes in international corporate tax policies, enforcement activities or legislative initiatives may materially and adversely affect our business, the amount of taxes we are required to pay and our financial condition and results of operations generally.

# Changes in tax laws or regulations that are applied adversely to us or our customers may have a material adverse effect on our business, cash flow, financial condition or results of operations.

New income, sales, use or other tax laws, statutes, rules, regulations or ordinances could be enacted at any time, which could adversely affect our business operations and financial performance. Further, existing tax laws, statutes, rules, regulations or ordinances could be interpreted, changed, modified or applied adversely to us. For example, the Tax Act, the Coronavirus Aid, Relief, and Economic Security Act, and the Inflation Reduction Act enacted many significant changes to the U.S. tax laws. Future guidance from the Internal Revenue Service and other tax authorities with respect to such legislation may affect us, and certain aspects thereof could be repealed or modified in future legislation. The Biden administration and Congress periodically make and propose tax law changes, some of which could have an adverse effect on our operations, cash flows and results of operations and contribute to overall market volatility. In addition, it is uncertain if and to what extent various states will conform to federal tax legislation. Changes in corporate tax rates, the realization of net deferred tax assets relating to our operations, the taxation of foreign earnings, and the deductibility of expenses under the Tax Act or future reform legislation could have a material impact on the value of our deferred tax assets, could result in significant one-time charges, and could increase our future U.S. tax expense.

# The U.S. Congress may make substantial changes to fiscal, regulation and other federal policies that may adversely affect our business, financial condition, operating results and cash flows.

Changes in general economic conditions in the U.S. or other regions could adversely affect our business. There have been and may be significant changes in, and uncertainty with respect to, legislation, regulation and government policy. While it is not possible to predict whether and when any such changes will occur, changes at the local, state or federal level could impact our business. Specific legislative and regulatory proposals that could have a material impact on us include, but are not limited to, modifications to international trade policy; public company reporting requirements; and environmental regulation.

We cannot predict what actions may ultimately be taken with respect to tariffs or trade relations between the U.S. and other countries, what products may be subject to such actions, or what actions may be taken by the other countries in retaliation. Accordingly, it is difficult to predict how such actions may impact our business, or the business of our customers. Our business operations, as well as the businesses of our customers on which we are substantially dependent, are located in various countries at risk for escalating trade disputes, including the U.S. and China. Any resulting trade wars could have a significant adverse effect on world trade and could adversely impact our revenues, gross margins and business operations.

### Regulations related to conflict minerals could adversely impact our business.

The SEC adopted annual disclosure and reporting requirements for those companies who use conflict minerals mined from the Democratic Republic of Congo (also referred to as the "DRC") and adjoining countries in their products. Based on our purchasing policy and supplier selection, it is considered unlikely that any conflict minerals are used in the manufacturing of our products. Nevertheless, we are continuing reasonable country of origin inquiry and have implemented a program of due diligence on the source and chain of custody for conflict minerals. There are costs associated with complying with these disclosure requirements, including loss of customers and potential changes to products, processes, or sources of supply. The implementation of these rules could adversely affect the sourcing, supply, and pricing of materials used in our products. As there may be only a limited number of suppliers offering "conflict free" minerals, we cannot be sure that we will be able to obtain necessary materials from such suppliers in sufficient quantities or at competitive prices. Also, we may face reputational challenges if we determine that certain of our products contain minerals not determined to be conflict-free or if we are unable to sufficiently verify the origins for all conflict minerals used in our products through the procedures we have implemented.

### **Risks Related to our Internal Control**

# Changes in the U.S. generally accepted accounting principles ("GAAP") could adversely affect our financial results and may require significant changes to our internal accounting systems and processes.

We prepare our consolidated financial statements in conformity with U.S. GAAP. These principles are subject to interpretation by the Financial Accounting Standards Board ("FASB"), the SEC and various bodies formed to interpret and create appropriate accounting principles and guidance. The FASB periodically issues new accounting standards on a variety of topics. For information regarding new accounting standards, please refer to Note 1, "Description of Business and Significant Accounting Policies – Recent Accounting Pronouncements," of the Notes. These and other such standards generally result in different accounting principles, which may significantly impact our reported results or could result in variability of our financial results.

# We are required to evaluate the effectiveness of our internal control over financial reporting and publicly disclose material weaknesses in our controls. Any adverse results from such evaluation may adversely affect investor perception, and our stock price.

Section 404 of the Sarbanes-Oxley Act of 2002 requires our management to assess the effectiveness of our internal control over financial reporting and to disclose in our filing if such controls were unable to provide assurance that a material error would be prevented or detected in a timely manner. We have an ongoing program to review the design of our internal controls framework in keeping with changes in business needs, implement necessary changes to our controls design and test the system and process controls necessary to comply with these requirements. If in the future, our internal controls over financial reporting are determined to be not effective resulting in a material weakness or significant deficiency, investor perceptions regarding the reliability of our financial statements may be adversely affected which could cause a decline in the market price of our stock and otherwise negatively affect our liquidity and financial condition.

### **Risks Related to our Common Stock**

### Insiders and principal stockholders will likely have significant influence over matters requiring stockholder approval.

Our directors, executive officers, and other principal stockholders beneficially own, in the aggregate, a substantial amount of our outstanding common stock. These stockholders could likely have significant influence over all matters requiring stockholder approval, including the election of directors and approval of significant corporate transactions such as a merger or other sale of our company or our company's assets.

### The market price of our common stock may continue to be volatile.

The market price of our common stock has been, and is likely to continue to be, volatile and subject to fluctuations. Changes in the stock market generally, as it concerns our industry, as well as geopolitical, economic, and business factors unrelated to us, may also affect our stock price. Significant declines in the market price of our common stock or failure of the market price to increase could harm our ability to recruit and retain key employees, reduce our access to debt or equity capital, and otherwise harm our business or financial condition. In addition, we may not be able to use our common stock effectively as consideration in connection with any future acquisitions.

# Anti-takeover provisions in our charter documents and under Delaware law could discourage, delay, or prevent a change in control of our company and may affect the trading price of our common stock.

Provisions in our amended and restated certificate of incorporation and bylaws may have the effect of delaying or preventing a change of control or changes in our management. Our amended and restated certificate of incorporation and amended and restated bylaws include provisions that:

- authorize our Board of Directors to issue, without further action by the stockholders, up to 10,000,000 shares of undesignated preferred stock;
- require that any action to be taken by our stockholders be effected at a duly called annual or special meeting and not by written consent;
- specify that special meetings of our stockholders can be called only by our Board of Directors, the chairman of the board, the chief executive officer, or the president;
- establish an advance notice procedure for stockholder approvals to be brought before an annual meeting of our stockholders, including proposed nominations of persons for election to our Board of Directors;
- · provide that our directors may be removed only for cause;
- provide that vacancies on our Board of Directors may be filled only by a majority vote of directors then in office, even though less than a quorum;
- specify that no stockholder is permitted to cumulate votes at any election of directors; and
- require a super-majority of votes to amend certain of the above-mentioned provisions.

In addition, we are subject to the provisions of Section 203 of the Delaware General Corporation Law regulating corporate takeovers. Section 203 generally prohibits us from engaging in a business combination with an interested stockholder subject to certain exceptions.

# Our business could be negatively affected as a result of actions of activist shareholders, and such activism could impact the trading value of our securities.

In recent years, shareholder activists have become involved in numerous public companies. Shareholder activists frequently propose to involve themselves in the governance, strategic direction and operations of the company. Such proposals may disrupt our business and divert the attention of our Board of Directors, management and employees, and any perceived uncertainties as to our future direction resulting from such a situation could result in the loss of potential business opportunities, interfere with our ability to execute our strategic plan, be exploited by our competitors, cause concern to our current or potential customers, and make it more difficult to attract and retain qualified personnel and business partners, all of which could adversely affect our business. A proxy contest for the election of directors at our annual meeting could also require us to incur significant legal fees and proxy solicitation expenses. In addition, actions of activist shareholders may cause significant fluctuations in our stock price based on temporary or speculative market perceptions or other factors that do not necessarily reflect the underlying fundamentals and prospects of our business.

### Our shareholders may experience future dilution as a result of future equity offerings.

In the future, we may offer additional shares of our common stock or other securities convertible into or exchangeable for our common stock in order to raise additional capital. We cannot assure our shareholders that we will be able to sell shares or other securities in any other offering at a price per share that is equal to or greater than the price per share our shareholders paid for our shares. Investors purchasing shares or other securities in the future could have rights, preferences or privileges senior to those of our shareholders and our shareholders may experience dilution. Our shareholders may incur additional dilution upon the exercise of any outstanding stock options or warrants, the issuance of shares of restricted stock, the vesting of restricted stock units, or the issuance, vesting or exercise of other equity awards.

# We do not intend to pay cash dividends in the foreseeable future and, consequently, our shareholders' ability to achieve a return on their investment will depend on the appreciation in the price of our common stock.

We have never declared or paid cash dividends on our common stock and we do not intend at this time to pay any cash dividends on our common stock in the foreseeable future. We currently expect to utilize any future earnings for use in the operation and expansion of our business. In addition, the terms of our revolving credit facility restrict our ability to pay dividends and any future credit facilities, loan agreements, debt instruments or other agreements may further restrict our ability to pay dividends. Payments of future dividends, if any, will be at the discretion of our Board of Directors after taking into account various factors, including our business, results of operations and financial condition, current and anticipated cash needs, plans for expansion and any legal or contractual limitations on our ability to pay dividends. As a result, capital appreciation, if any, of our common stock will be our shareholders' sole source of potential gain for the foreseeable future.

## Item 1B — Unresolved Staff Comments

None.

# Item 2 — Properties

We lease approximately 171,000 square feet ("ft<sup>2</sup>") of office and warehouse space located in San Leandro, California for product manufacturing, research and development, and executive and administrative activities under a lease that expires in 2028.

We lease 25,200 ft<sup>2</sup> of office and warehouse space and approximately 4.5 acres of land adjacent to the office space located in Katy, Texas under a lease that expires in 2029.

We lease approximately 54,429 ft<sup>2</sup> of office and warehouse space located in Tracy, California that supplements the existing manufacturing, warehousing and distribution of our energy recovery devices under a lease that expires in 2030.

Additionally, we lease offices located in Dubai, United Arab Emirates; and Shanghai, Peoples Republic of China. We believe that these facilities will be adequate for our purposes for the foreseeable future.

## Item 3 — Legal Proceedings

See Note 7, "Commitments and Contingencies – Litigation" of the Notes which is incorporated by reference into this Item 3, for a description of the lawsuits pending, if any, against us.

## 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**

Our common stock is listed on the Nasdaq Stock Market - The NASDAQ Global Select Market Composite under the symbol "ERII."

#### Stockholders

As of December 31, 2022, there were approximately 17 stockholders of record of our common stock as reported by our transfer agent, one of which is Cede & Co., a nominee for Depository Trust Company ("DTC"). All of the shares of common stock held by brokerage firms, banks, and other financial institutions as nominees for beneficial owners are deposited into participant accounts at DTC and are therefore considered to be held of record by Cede & Co., as one stockholder.

## **Dividend Policy**

We have never declared or paid any dividends on our common stock, and we do not currently intend to pay any dividends on our common stock for the foreseeable future. Any future determination to pay dividends on our common stock will be, subject to applicable law, at the discretion of our Board of Directors, and will depend upon, among other factors, our results of operations, financial condition, capital requirements, and contractual restrictions in loan or other agreements.

#### Sales of Unregistered Securities

None.

#### Stock Repurchase Program

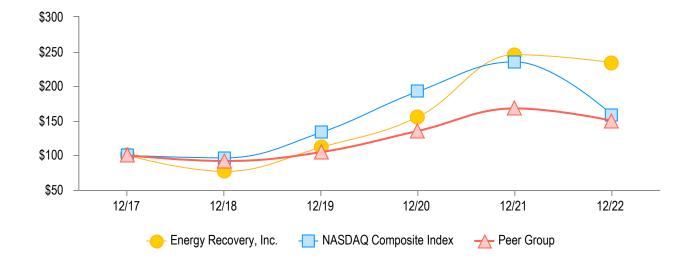
Our Board of Directors has authorized various share repurchase programs since 2012. Since the initial authorization of the share repurchase programs, we have spent an aggregate \$80.5 million, including commissions, to repurchase 8,148,512 shares. As of December 31, 2022, there are no active authorized share repurchase plans.

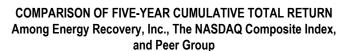
## **Stock Performance Graph**

The following graph shows the cumulative total stockholder return of an investment of \$100 on December 31, 2017 in (i) our common stock, (ii) the NASDAQ Composite Index, (iii) and a peer group for the current fiscal year ("Peer Group"). Cumulative total return assumes the reinvestment of dividends, although dividends have never been declared on our stock, and is based on the returns of the component companies weighted according to their capitalization as of the end of each annual period. For each reported year, the reported dates are the last trading dates of our annual year.

The NASDAQ Composite Index tracks the aggregate total return performance of equity securities traded on the Nasdaq Stock Market. The Peer Group tracks the weighted average total return performance of equity securities of nine companies that management believes Energy Recovery, Inc. is closely aligned during the years presented. As we evolve and grow into new industries, management expects to expand or rebalance the companies within this peer group. The companies within the Peer Group are: Badger Meter, Inc.; Evoqua Water Technologies Corp.; Flowserve Corp; Franklin Electronic Co., Inc.; The Gorman-Rupp Company; Itron, Inc.; Kurita Water Industries Ltd.; Pentair plc; and Primo Water Corp. The return of each component issuer of the Peer Group is weighted according to the respective issuer's stock market capitalization at the end of each period for which a return is indicated. Our stock price performance shown in the graph below is not indicative of future stock price performance.

The following graph and its related information is not "soliciting material," is not deemed "filed" with the Securities and Exchange Commission, and is not to be incorporated by reference into any filing of the Company under the Securities Act of 1933, as amended or the Securities Exchange Act of 1934, as amended, whether made before or after the date hereof and irrespective of any general incorporation language contained in such filing.





			As of Dec	emb	er 31,		
	2017	2018	2019		2020	2021	2022
Energy Recovery, Inc.	\$ 100.00	\$ 76.91	\$ 111.89	\$	155.89	\$ 245.60	\$ 234.17
NASDAQ Composite Index	100.00	96.41	133.30		192.47	235.15	158.64
Peer Group	100.00	91.91	104.87		135.47	167.89	150.25

# Item 6 — [Reserved]

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

The following Management Discussion and Analysis of Financial Condition and Results of Operations is intended to help the reader understand our results of operations and financial condition. It should be read in conjunction with the Consolidated Financial Statements and related Notes included in Part II, Item 8, "Financial Statements and Supplementary Data," in this Annual Report on Form 10-K.

#### Overview

Our reportable operating segments consist of the water and emerging technologies segments. These segments are based on the industries in which the technology solutions are sold, the type of energy recovery device or other technology sold and the related solution and service or, in the case of emerging technologies, where revenues from new and/or potential devices utilizing our pressure exchanger technology can be brought to market. Other factors for determining the reportable operating segments include the manner in which management evaluates the performance of the Company combined with the nature of the individual business activities. In addition, our corporate operating expenses include expenditures in support of the water and emerging technologies segments, as well as R&D expenditures applicable to potential future industry verticals, or enabling technologies that could benefit either or both existing business units.

#### 2022 Highlights, Economic Conditions, Challenges, and Risks

In 2022, we remained focused on supporting our organically growing business operationally, expanding opportunities in our existing Water segment, as well as further proving out the performance of our new PX G1300 for CO<sub>2</sub> refrigeration, all while managing our operating costs to grow prudently.

In our Water Segment, we launched the PX Q400 pressure exchanger, the next evolution of our industry-leading PX pressure exchanger technology. The PX Q400 is the new flagship solution in our PX family of products and we expect it to be the highest-performing and highest-capacity PX available for SWRO and industrial wastewater facilities. We continue to develop new products for both the desalination and industrial wastewater businesses to maintain competitiveness and expand the breadth of these markets.

In our Emerging Technologies segment, we successfully installed and commissioned the PX G1300 fully integrated with the CO<sub>2</sub> refrigeration units in supermarkets in the U.S. and Europe and reported on initial performance in the field. In addition, we expanded our team to increase outreach to customers in the market. We also expanded marketing efforts at trade shows and conferences, and more traditional digital and print marketing, in the effort to grow awareness of the PX G1300 and Energy Recovery in this new market.

## The Global Economic and Political Environment

The markets for our products are dynamic and constantly evolving. We could be faced with competitive, economic, regulatory or climate-related factors that are beyond our control.

We experienced some inflation in labor, material, freight and other overhead costs related to the manufacturing of our products in 2022, which negatively affected our margin, most notably affecting our hydraulic turbocharger and circulation booster pump product lines. Although costs had stabilized towards the end of 2022, this trend could continue in 2023 depending on events outside of our control, such as the Russia-Ukraine war, as well as political relations between countries such as China and Saudi Arabia where we do significant business.

In addition, growing uncertainty in specific emerging economies in which we sell our products remains a risk. These risks include local inflation and depreciating currencies which could affect the ability of our customers to pay outstanding invoices or purchase our products, which are generally denominated in U.S. dollars. While this effect has been nominal to date, depending on how events evolve in 2023, we could see them affect our ability to sell product in some countries in the short-term, or increased risk to some of our trade receivables. We continue to monitor these events carefully, and utilize letters of credit, prepayments and other methods to reduce our credit risk with companies in affected countries.

Our Middle East and Asia markets provide a significant portion of our total revenue. Over the long-term, demand for our energy recovery devices could become correlated to global macroeconomic and geopolitical factors, which remain uncertain. Any disruption to the economic factors and regulations in this region may adversely affect our financial results.

Refer to Part I, Item 1, "Business," and Part I, Item 1A, "Risk Factors," of this Form 10-K for further discussion of these trends and other risks.

## **Results of Operations**

A discussion regarding our financial condition and results of operations for the year ended December 31, 2021, compared to the year ended December 31, 2020, can be found under Item 7 in our Annual Report on Form 10-K for the year ended December 31, 2021, filed with the SEC on February 24, 2022, which is available free of charge on the SEC's website at http://www.sec.gov and at our investor relations website (https://ir.energyrecovery.com).

## Revenues

Revenues by channel customers are presented in the following table.

		Years Ended	Decem	ber 31,			
	 2022			2021			
	\$	% of Revenue		\$	% of Revenue	Change	
			(In	thousands, except	percentages)		
Megaproject	\$ 81,888	65%	\$	75,391	73%	\$ 6,497	9%
Original equipment manufacturer	28,858	23%		17,604	17%	11,254	64%
Aftermarket	14,845	12%		10,909	10%	3,936	36%
Total revenues	\$ 125,591	100%	\$	103,904	100%	\$ 21,687	21%

The Megaproject ("MPD") channel has been the main driver of our long-term growth as revenue from this channel benefits from the growing number of projects as well as an increase in the capacity of these projects. The higher revenues for the year ended December 31, 2022, compared to prior year, were due primarily to higher shipments of PXs and an increase in average selling price. Comparative differences over the prior year's revenue are subject to timing of delivery of PXs, which is dependent on the MPD project shipment cycle.

The Original Equipment Manufacturer ("OEM") channel, where we sell into a wide variety of industries in both the desalination and industrial wastewater markets, contains projects smaller in size and of shorter duration. In the year ended December 31, 2022, compared to the prior year, desalination revenues increased 47% with key growth attributed to Asia and the Middle East and Africa markets. Growth in this channel was due primarily to an increase in projects restarting after the COVID-19 slowdown. The remaining increase was due primarily to the Asia market industrial wastewater revenues.

The Aftermarket ("AM") channel revenues generally fluctuate from year-to-year depending on support and services rendered to our installed customer base. In the year ended December 31, 2022, as compared to prior year, we believe the increase in desalination revenues is a result of our customers consuming their existing spare parts inventory and strategically increasing their stock of critical components in advance of greater expected water needs in the near future. The AM channel revenues were higher due primarily to spare parts consumption in the Middle East and Africa, Asia, and America regions.

#### **Concentration of Revenue**

Revenues attributable to domestic and international sales as a percentage of total revenue is presented in the following table.

	Years Ended [	December 31,
	2022	2021
United States	1%	1%
International	99%	99%
Total product revenue	100%	100%

			Years Ended	Dece	mber 31,			
		2022					2021	
	 Water	Emerging echnologies	 Total		Water	Т	Emerging echnologies	Total
			(In thou	isands	5)			
Middle East and Africa	\$ 86,227	\$ 94	\$ 86,321	\$	78,348	\$	53	\$ 78,401
Asia	24,777	_	24,777		18,639		—	18,639
Americas	8,544	34	8,578		3,264		_	3,264
Europe	5,880	35	5,915		3,600		—	3,600
Total revenues	\$ 125,428	\$ 163	\$ 125,591	\$	103,851	\$	53	\$ 103,904

Revenues attributable to primary geographical markets and segment is presented in the following table.

The following table presents all customers accounting for 10% or more of our revenues. Although certain customers might account for greater than 10% of our revenues at any one point in time, the concentration of revenues between a limited number of large customers shifts regularly, depending on timing of shipments. The percentages by customer reflect specific relationships or contracts that would concentrate our revenue for the periods presented and does not indicate a trend specific to any one customer.

		Years Ended	December 31,
	Segment	2022	2021
Customer A	Water	**	21%
Customer B	Water	15%	10%
Customer C	Water	18%	11%
Customer D	Water	**	16%
Customer E	Water	11%	**

<sup>\*</sup> Zero or less than 10%.

## **Gross Profit and Gross Margin**

Gross profit represents our revenue less our cost of revenue. Our cost of revenue consists primarily of raw materials, personnel costs (including share-based compensation), manufacturing overhead, warranty costs, depreciation expense and manufactured components.

		Years Ended	Decem	ber 31,				
	2022			2021				
	\$	Gross Margin		\$	Gross Margin	Char	nge in Product Gro	ss Profit
			(In	n thousands, except pe	rcentages)			
Gross profit and gross margin	\$ 87,356	69.6%	\$	71,234	68.6%	\$	16,122	22.6%

The increase in gross profit for the years ended December 31, 2022 was due primarily to increased shipments of PXs and an increase in gross margin. Gross margin increased 100 basis points due primarily to change in average selling price and lower variable manufacturing costs incurred, partially offset by product mix and rising material and fixed manufacturing costs.

# **Operating Expenses**

			Yea	r Ended Deo	cemb	oer 31, 2022					Yea	ar Ended Deo	cemb	er 31, 2021	
	Emerging Water Technologies				Corporate Total			Emerging Water Technologies				0	orporate	 Total	
								(In tho	usand	s)					
General and administrative	\$	6,936	\$	4,104	\$	17,301	\$	28,341	\$	6,342	\$	5,162	\$	13,670	\$ 25,174
Sales and marketing		11,065		3,047		2,165		16,277		9,559		937		1,664	12,160
Research and development		4,151		13,758				17,909		2,589		17,480		_	 20,069
Total operating expenses	\$	22,152	\$	20,909	\$	19,466	\$	62,527	\$	18,490	\$	23,579	\$	15,334	\$ 57,403

Overall operating expenditures grew \$5.1 million, or 9.0% for the year, which included one-time expenses and accelerated depreciation associated with the termination of VorTeq activities in June 2022 of \$1.3 million. Excluding those one-time expenses, operating expenditures grew 5.9% for the year. Our operating expenditures was broadly driven by four factors:

- Investments in people to support our operations in our fast growing desalination business, as well as in support of growth in our new businesses;
- Increased investments in sales and marketing (S&M") to drive future growth in our existing and new businesses, which includes employees, trade shows, and other sales and marketing activities;
- Inflation, especially notable in our general and administrative ("G&A") expenses; and
- Investments in new research and development in support of our existing and new Water businesses, as well as in new products in our Emerging Market segment, in particular in CO<sub>2</sub> refrigeration.

The total material changes of G&A, S&M and R&D operating expenses for the current year, compared to the prior year, are discussed within the following segment and corporate operating expense discussions.

Water Segment. The increase in the segment operating expenses of \$3.7 million, or 19.8%, was due primarily to investments in S&M and R&D. In S&M, we expanded sales and marketing efforts by increasing spend in employee compensation and marketing and travel costs in desalination in response to an opening world post COVID-19 as well as in support of the launch of our new PX Q400 pressure exchanger, and the growth of our industrial wastewater business. In addition, we recognized a one-time litigation settlement. In R&D, we invested in the development of new products to support needs in the industrial wastewater market, as well as in continued product development for the evolving desalination market. R&D increases included higher employee compensation and testing-related costs.

*Emerging Technologies Segment.* The decrease of the segment operating expenses of \$2.7 million, or (11.3)%, was due to lower costs related to our decision to cease the VorTeq commercialization efforts in 2022, partially offset by one-time expenses related to this cessation of activities. We continued to invest in employees in support of the development of our CO<sub>2</sub> product roadmap, as well as in product development testing. In addition, we more than tripled S&M spend largely through increased employee compensation costs and share-based compensation as we grew the team to develop this new market. The decrease of VorTeq costs was related to lower R&D headcount and testing activities.

Corporate Operating Expenses. The increase in corporate operating expenses of \$4.1 million, or 26.9%, was due primarily to higher infrastructure costs incurred as we prepare for future growth in industrial wastewater and CO<sub>2</sub> markets, as well as continued growth in the desalination market. The increase was due primarily to an increase in G&A and S&M costs, such as an increase in headcount, higher employee-related costs, administrative costs, consulting costs, and an increase in depreciation expense related to our San Leandro, California facility improvements. These increases were partially offset by lower legal, software and licensing costs.

## Other Income, Net

	_	Years Ended	December 31,	
		2022	2021	
		(In the	ousands)	
Interest income	9	S 908	\$	204
Other non-operating income (expense), net		334		(31)
Total other income, net	4	5 1,242	\$	173

The increase in Total other income, net in the year ended December 31, 2022, compared to the prior year, was due primarily to higher interest yields on our investment-grade marketable debt instruments. Other non-operating income for the year ended December 31, 2022 was related to the sale of fixed assets.

#### **Income Taxes**

	 Years Endeo	l Decemb	oer 31,		
	2022		2021		Change
	 (In t	housands	, except percer	ntages)	
Provision for (benefit from) income taxes	\$ 2,022	\$	(265)	\$	2,287
Effective tax rate	8%		(2%)		

The provision for income taxes in 2022, as compared to the benefit from income taxed in 2021, was due primarily to an increase in income from operations and lower share-based compensation tax benefits, partially offset by a tax benefit of \$1.8 million related to Foreign Derived Intangible Income ("FDII") in 2022.

The fiscal year 2022 effective tax rate included a benefit of \$1.8 million related to FDII, a benefit of \$1.3 million related to tax deductions from stock-based compensation related windfalls, and a benefit of \$1.0 million related to U.S. federal R&D credits.

The fiscal year 2021 effective tax rate included a benefit of \$2.9 million related to tax deductions from stock-based compensation related windfalls and a benefit of \$1.0 million related to U.S. federal R&D credits.

See Note 8, "Income Taxes," of the Notes for further discussion regarding further information related to our tax rate reconciliation.

## Liquidity and Capital Resources

## Overview

From time-to-time, management and our Board of Directors review our liquidity and future cash needs and may make a decision on (1) the return of capital to our shareholders through a share repurchase program or dividend payout; or (2) seek additional debt or equity financing. As of December 31, 2022, our principal sources of liquidity consisted of (i) unrestricted cash and cash equivalents of \$56.4 million; (ii) investment-grade short-term and long-term marketable debt instruments of \$36.5 million that are primarily invested in U.S. treasury securities, corporate notes and bonds, and municipal and agency notes and bonds; and (iii) accounts receivable, net of allowances, of \$34.1 million. As of December 31, 2022, there was unrestricted cash of \$0.9 million held outside the U.S. We invest cash not needed for current operations predominantly in investment-grade, marketable debt instruments with the intent to make such funds available for operating purposes as needed. Although these securities are available for sale, we generally hold these securities to maturity, and therefore, do not currently see a need to trade these securities in order to support our liquidity needs in the foreseeable future. We believe the risk of this portfolio to us is in the ability of the underlying companies to cover their obligations at maturity, not in our ability to trade these securities at a profit. Based on current projections, we believe existing cash balances and future cash inflows from this portfolio will meet our liquidity needs for at least the next 12 months.

#### Short-term Contract Assets

As of December 31, 2022, we had \$1.7 million of short-term contract assets which represents unbilled trade receivables from certain Water segment contract sales which include contractual holdback provisions, pursuant to which we will invoice the final retention payment due within the next 12 months. The customer holdbacks represent amounts intended to provide a form of security for the customer; and accordingly, these contract assets have not been discounted to present value. The retention payments with no performance conditions are recorded as trade receivables.

#### **Credit Arrangements**

We entered into a credit agreement with JPMorgan Chase Bank, N.A. ("JPMC") on December 22, 2021 ("Credit Agreement") to provide us with additional capital to fuel our growth and expansion into emerging markets utilizing our pressure exchanger technology. The Credit Agreement, which will expire on December 21, 2026, provides a committed revolving credit line of \$50.0 million and includes both a revolving loan and a letters of credit ("LCs") component. As of December 31, 2022, we were in compliance with all covenants under the Credit Agreement.

On July 15, 2022, the Company and JPMC agreed to a modification of the Credit Agreement to change the indicated reference rate from London Interbank Offered Rate ("LIBOR") to Secured Overnight Financing Rate ("SOFR"). Changes in the Credit Agreement reference rate to SOFR did not materially change the provisions defined in the original Credit Agreement nor did this change affect our financial statements.

Under the Credit Agreement, as of December 31, 2022, there were no revolving loans outstanding. In addition, as of December 31, 2022, under the LCs component, we utilized \$16.7 million of the maximum allowable credit line of \$25.0 million, which included newly issued LCs, and previously issued and unexpired stand-by letters of credits ("SBLCs") and certain non-expired commitments under the previous Loan and Pledge Agreement with Citibank, N.A., which are guaranteed under the Credit Agreement.

As of December 31, 2022, there was \$15.5 million of outstanding LCs. These LCs had a weighted average remaining life of approximately 16 months. See Note 6, "Lines of Credit," of the Notes for further discussion related to the Credit Agreement.

## **Cash Flows**

	Years Ended	Dec	ember 31,	
	 2022		2021	Change
			(In thousands)	
Net cash provided by operating activities	\$ 12,631	\$	13,526	\$ (895)
Net cash used in investing activities	(6,946)		(20,563)	13,617
Net cash used in financing activities	(23,668)		(12,792)	(10,876)
Effect of exchange rate differences on cash and cash equivalents	 (20)		(68)	 48
Net change in cash, cash equivalents and restricted cash	\$ (18,003)	\$	(19,897)	\$ 1,894

## **Cash Flows from Operating Activities**

Net cash provided by operating activities is subject to the project driven, non-cyclical nature of our business. Operating cash flow can fluctuate significantly from year to year, due to the timing of receipts of large project orders. Operating cash flow may be negative in one year and significantly positive in the next, consequently individual quarterly results and comparisons may not necessarily indicate a significant trend, either positive or negative.

The lower net cash provided by operating activities in the current year, compared to the net cash provided by operating activities in the prior year, was due primarily to the timing of shipments late in the current year and the related increase in accounts receivable due to the timing of cash collections. In addition, although there was an increase in finished goods, our overall investment in purchases of raw materials was consistent with the prior year.

#### **Cash Flows from Investing Activities**

Net cash used in investing activities primarily relates to sales, maturities and purchases of investment-grade marketable debt instruments, such as corporate notes and bonds, and capital expenditures supporting our growth. We believe our investments in marketable debt instruments are structured to preserve principal and liquidity while at the same time maximizing yields without significantly increasing risk. The lower cash used in investing activities in the current year, compared to the prior year, was due primarily to an increase in investment in marketable debt instruments of \$13.9 million in 2021. In mid-2021, we changed our investment strategy from holding highly liquid money market funds to investing in marketable debt instruments, which provided higher interest yields. Capital expenditures were lower in 2022, as compared to 2021, due primarily to our investment in facility improvements in our San Leandro, California office, and facility and manufacturing capacity in our Tracy, California location, in 2021.

#### Cash Flows from Financing Activities

Net cash used in financing activities primarily relates to the share repurchases under our board authorized share repurchase program and offset by issuance of equity from our equity incentive plans. The higher net cash used in financing activities for the current year, as compared to the net cash used in financing activities for the prior year, was due primarily to an increase of share repurchases of \$3.3 million under the March 2021 Authorization and lower cash of \$7.6 million from issuance of equity related to our employee equity incentive plans.

#### Liquidity and Capital Resource Requirements

We believe that our existing resources and cash generated from our operations will be sufficient to meet our anticipated capital requirements for at least the next 12 months. However, we may need to raise additional capital or incur additional indebtedness to continue to fund our operations or to support acquisitions in the future and/or to fund investments in our latest technology arising from rapid market adoption. These needs could require us to seek additional equity or debt financing. Our future capital requirements will depend on many factors including the continuing market acceptance of our products, our rate of revenue growth, the timing of new product introductions, the expansion of our R&D, manufacturing and S&M activities, the timing and extent of our expansion into new geographic territories and the amount and timing of cash used for stock repurchases. In addition, we may enter into potential material investments in, or acquisitions of, complementary businesses, services or technologies in the future which could also require us to seek additional equity or debt financing. Should we need additional liquidity or capital funds, these funds may not be available to us on favorable terms, or at all.

*Facility and Equipment Leases.* We lease facilities and equipment under fixed noncancelable operating leases that expire on various dates through fiscal year 2030. See Note 7, "Commitments and Contingencies – Operating Lease Obligations," of the Notes for additional information related to our fixed noncancelable operating leases.

Purchase Order Arrangements. We have purchase order arrangements with our vendors for which we have not received the related goods or services. These arrangements are subject to change based on our sales demand forecasts. We have the right to cancel the arrangements prior to the date of delivery. The purchase order arrangements are related to various raw materials and component parts, as well as capital equipment. See Note 7, "Commitments and Contingencies – Purchase Obligations," of the Notes for additional information related to our purchase order arrangements.

Off-balance Sheet Arrangements. During the periods presented, we did not have any relationships with unconsolidated entities or financial partnerships such as entities often referred to as structured finance or special purpose entities which would have been established for the purpose of facilitating off-balance sheet arrangements or other contractually narrow or limited purposes.

#### **Critical Accounting Policies and Estimates**

Our Consolidated Financial Statements are prepared in accordance with U.S. GAAP. These accounting principles require us to make estimates and judgments that can affect the reported amounts of assets and liabilities as of the date of the Consolidated Financial Statements as well as the reported amounts of revenue and expense during the periods presented. We believe that the estimates and judgments upon which we rely are reasonable based upon information available to us at the time that we make these estimates and judgments. To the extent that there are material differences between these estimates and actual results, our consolidated financial results will be affected. The accounting policies that reflect our more significant estimates and judgments and which we believe are the most critical to aid in fully understanding and evaluating our reported financial results are revenue recognition; valuation of stock options; valuation and impairment of goodwill; inventory; and deferred taxes and valuation allowances on deferred tax assets.

The following is not intended to be a comprehensive list of all of our accounting policies or estimates. See Note 1, "Description of Business and Significant Accounting Policies," of the Notes for further detailed discussion regarding our accounting policies and estimates.

#### **Revenue Recognition**

Revenues are recognized when control of the promised goods or services is transferred to our customers in an amount that reflects the consideration we expect to be entitled to in exchange for those goods or services. At the inception of each contract, performance obligations are identified and the total transaction price is allocated to the performance obligations. Our contracts with customers may include multiple performance obligations. For such arrangements, we allocate revenue to each performance obligation based on its relative stand-alone selling price. We generally determine standalone selling prices based on the prices charged to customers. With respect to termination, we do not have the ability to cancel a contract for convenience. In general, customers can cancel for convenience upon the payment of a termination fee that covers costs and profit. It is rare for customers to cancel contracts. See Note 1, "Description of Business and Significant Accounting Policies – Significant Accounting Policies, §Revenue Recognition (Product and Service Revenue Recognition - Water Segment)," of the Notes for more detail on Water segment product and service revenue recognition.

#### Stock-based Compensation

We account for share-based compensation according to U.S. GAAP relating to share-based payments, which requires the measurement and recognition of compensation expense for all share-based awards made to employees and directors based on estimated fair values on the grant date. This guidance requires that we estimate the fair value of share-based awards on the date of grant, and recognize as expense the value of the portion of the award that is ultimately expected to vest over the requisite service period. See Note 1, "Description of Business and Significant Accounting Policies – Significant Accounting Policies, §Stock-based Compensation" and Note 12, "Stock-based Compensation," of the Notes for further discussion of our accounting policy and stock-based compensation activities, respectively.

#### Goodwill

Our goodwill represents the excess of the purchase price of a business combination over the fair value of the net assets acquired. Goodwill impairment testing requires significant judgment and management estimates, including, but not limited to, the determination of (i) the number of reporting units, (ii) the goodwill and other assets and liabilities to be allocated to the reporting units and (iii) the fair values of the reporting units. The estimates and assumptions described above, along with other factors such as discount rates, will significantly affect the outcome of the impairment tests and the amounts of any resulting impairment losses. We perform a quantitative assessment of goodwill for impairment on an annual basis during the third quarter of each year, and between annual tests, a qualitative assessment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. If these interim qualitative factors were to indicate that it is more-likely-than-not that the fair value of the reporting unit is less than its carrying value, we would then perform a quantitative assessment, which would consist primarily of a discounted cash flow ("DCF") analysis to determine the fair value of the reporting unit's goodwill. To the extent the carrying amount of the reporting unit's allocated goodwill exceeds the unit's fair value, we recognize an impairment of goodwill for the excess up to the amount of goodwill of that reporting unit. See Note 1, "Description of Business and Significant Accounting Policies – Significant Accounting Policies, §Goodwill" and Note 4, "Other Financial Information – Goodwill and Other Intangible Assets, §Goodwill," of the Notes for further discussion of our accounting policy and goodwill activities, respectively.

#### Inventories

We determine at each balance sheet date how much, if any, of our inventory may ultimately prove to be either unsalable or unsalable at its carrying cost. Reserves are established to effectively adjust the carrying value of such inventory to lower of cost (first-in, first-out method) or net realizable value. To determine the appropriate level of valuation reserves, we evaluate current stock levels in relation to historical and expected patterns of demand for all of our products. We evaluate the need for changes to valuation reserves based on market conditions, competitive offerings, and other factors on a regular basis. See Note 1, "Description of Business and Significant Accounting Policies – Significant Accounting Policies, §Inventories" and Note 4, "Other Financial Information – Inventories, net," of the Notes for further discussion of our accounting policy and estimates, and inventory activities, respectively.

#### Income Taxes

Our annual tax rate is determined based on our income and the jurisdictions where it is earned, statutory tax rates, and the tax impacts of items treated differently for tax purposes than for financial reporting purposes. Also inherent in determining our annual tax rate are judgments and assumptions regarding the recoverability of certain deferred tax balances, and our ability to uphold certain tax positions. We are subject to complex tax laws, in the U.S. and numerous foreign jurisdictions, and the manner in which they apply can be open to interpretation. Realization of deferred tax assets is dependent upon generating sufficient taxable income in the appropriate jurisdiction in future periods, which involves business plans, planning opportunities, and expectations about future outcomes. Our assessment relies on estimates and assumptions, and may involve a series of complex judgments about future events. We use an estimate of our annual effective tax rate at each interim period based on the facts and circumstances available at that time, while the actual effective tax rate is calculated at year-end. See Note 1, "Description of Business and Significant Accounting Policies – Significant Accounting Policies, §Income Taxes," of the Notes for further discussion of our income tax policy and our tax valuation allowance, respectively.

#### **Recent Accounting Pronouncements**

Refer to Note 1, "Description of Business and Significant Accounting Policies – Recent Accounting Pronouncements," of the Notes.

#### Item 7A — Quantitative and Qualitative Disclosures About Market Risk

Our exposure to market risk may be found primarily in two areas, foreign currency and interest rates.

#### **Foreign Currency Risk**

Our foreign currency exposures are due to fluctuations in exchange rates for the U.S. dollar ("USD") versus the British pound, Saudi riyal, Emirati dirham, European euro, Chinese yuan, Indian rupee and Canadian dollar. Changes in currency exchange rates could adversely affect our consolidated operating results or financial position.

Our revenue contracts have been denominated in the USD. At times, our international customers may have difficulty in obtaining the USD to pay our receivables, thus increasing collection risk and potential bad debt expense. As we expand our international sales, a portion of our revenue could be denominated in foreign currencies. As a result, our cash and operating results could be increasingly affected by changes in exchange rates.

In addition, we pay many vendors in foreign currency and, therefore, are subject to changes in foreign currency exchange rates. Our international sales and service operations incur expense that is denominated in foreign currencies. This expense could be materially affected by currency fluctuations. Our international sales and services operations also maintain cash balances denominated in foreign currencies. To decrease the inherent risk associated with translation of foreign cash balances into our reporting currency, we do not maintain excess cash balances in foreign currencies.

We have not hedged our exposure to changes in foreign currency exchange rates because expenses in foreign currencies have been insignificant to date and exchange rate fluctuations have had little impact on our operating results and cash flows. In addition, we do not have any exposure to the Russian ruble.

#### Interest Rate and Credit Risks

The primary objective of our investment activities is to preserve principal and liquidity while at the same time maximizing yields without significantly increasing risk. We invest primarily in investment-grade short-term and long-term marketable debt instruments that are subject to counter-party credit risk. To minimize this risk, we invest pursuant to an investment policy approved by our board of directors. The policy mandates high credit rating requirements and restricts our exposure to any single corporate issuer by imposing concentration limits.

As of December 31, 2022, our investment portfolio of \$36.5 million, in investment-grade marketable debt instruments, such as U.S. treasury securities, corporate notes and bonds, and municipal and agency notes and bonds, are classified as either short-term and/or long-term investments on our Consolidated Balance Sheets. These investments are subject to interest rate fluctuations and will decrease in market value if interest rates increase. To minimize the exposure due to adverse shifts in interest rates, we maintain investments with a weighted average maturity of less than five months. As of December 31, 2022, a hypothetical 1% increase in interest rates would have resulted in a less than \$0.1 million decrease in the fair value of our investments in marketable debt instruments.

# Item 8 — Financial Statements and Supplementary Data

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## REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the stockholders and the Board of Directors of Energy Recovery, Inc.

#### **Opinion on the Financial Statements**

We have audited the accompanying consolidated balance sheets of Energy Recovery, Inc. and subsidiaries (the "Company") as of December 31, 2022 and 2021, the related consolidated statements of operations, comprehensive income, stockholders' equity, and cash flows, for each of the three years in the period ended December 31, 2022, 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, 2022 and 2021, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2022, in conformity with accounting principles generally accepted in the United States of America.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2022, based on criteria established in *Internal Control — Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated February 22, 2023, expressed an unqualified opinion on the Company's internal control over financial reporting.

## 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 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. 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.

#### Revenue Recognition — Refer to Notes 1, 2 and 10 to the financial statements

#### Critical Audit Matter Description

Revenue in the Company's Water segment is recognized upon transfer of control of products which typically follows transfer of title upon shipment or delivery in accordance with International Commercial Terms. The processing and recording of the Company's revenue transactions is a combination of automated and manual processes (i.e. the revenue transactions are recorded automatically upon invoice generation at the time of shipment, whereas the review process remains relatively manual to ensure control has properly transferred to recognize revenue) and therefore, the Company uses a precise set of procedures to ensure revenue is accurate for each transaction. For the year ended December 31, 2022, the Company recorded \$125.4 million in product revenue for the Water segment.

We identified the Company's revenue recognition processes as a critical audit matter as the Company has a significant volume of revenue transactions throughout the year and a manual process to generate accurate data to process and record revenue in line with when risk is transferred to the customers. This required an increased extent of effort to audit these revenue transactions.

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## How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to revenue recognition included the following, among others:

- We tested the design and effectiveness of controls over the recognition of revenue.
- We obtained an understanding of the nature of the revenue recognition process through inquiry with the Company personnel responsible for the invoices as well as review of the contracts with the customers.
- For a sample of processed revenue transactions, we traced and agreed the calculation of the Company's recorded revenue and the timing of revenue recognition to source documents such as the agreed upon terms with the customer and shipping records, as well as the related invoices generated within the system and evaluated any differences.

/s/ Deloitte & Touche LLP

San Francisco, California February 22, 2023

We have served as the Company's auditor since 2018.

# REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the stockholders and the Board of Directors of Energy Recovery, Inc.

## **Opinion on Internal Control over Financial Reporting**

We have audited the internal control over financial reporting of Energy Recovery, Inc. and subsidiaries (the "Company") as of December 31, 2022, based on criteria established in *Internal Control — Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2022, based on criteria established in *Internal Control — Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2022, based on criteria established in *Internal Control — Integrated Framework (2013)* issued by COSO.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated financial statements as of and for the year ended December 31, 2022, of the Company and our report dated February 22, 2023, expressed an unqualified opinion on those financial statements.

## **Basis for Opinion**

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying "Management's Report on Internal Control Over Financial Reporting." Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the 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 audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

## Definition and Limitations of Internal Control over Financial Reporting

A company's 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. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, 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.

/s/ Deloitte & Touche LLP

San Francisco, California February 22, 2023

# ENERGY RECOVERY, INC. CONSOLIDATED BALANCE SHEETS

		Decem	1,		
		2022		2021	
	(In the	ousands, except sh	ares ar	nd per share data)	
ASSETS					
Current assets:	•		•	- ( 0-0	
Cash and cash equivalents	\$	56,354	\$	74,358	
Short-term investments		33,479		31,332	
Accounts receivable, net		34,062		20,615	
Inventories, net		28,366		20,383	
Prepaid expenses and other assets		5,606		5,075	
Total current assets		157,867		151,763	
Long-term investments		3,058		2,298	
Deferred tax assets, net		10,263		11,421	
Property and equipment, net		19,580		20,361	
Operating lease, right of use asset		13,115		14,653	
Goodwill and other intangible assets		12,790		12,827	
Other assets, non-current		366		367	
Total assets	\$	217,039	\$	213,690	
LIABILITIES AND STOCKHOLDERS' EQUITY		,	_	,	
Current liabilities:					
Accounts payable	\$	814	\$	909	
Accrued expenses and other liabilities		14,693	,	13,994	
Lease liabilities		1,600		1,564	
Contract liabilities		1,195		3,318	
Total current liabilities		18,302		19,785	
Lease liabilities, non-current		13,278		14,879	
Other liabilities, non-current		121		247	
Total liabilities		31,701		34,911	
		01,701		01,011	
Commitments and contingencies (Note 7)					
Stockholders' equity:					
Preferred stock, \$0.001 par value; 10,000,000 shares authorized; no shares issued or outstanding at December 31, 2022 and 2021		_		_	
Common stock, \$0.001 par value; 200,000,000 shares authorized; 64,225,391 shares issued and 56,076,879 shares outstanding at December 31, 2022 and 63,544,419 shares issued and 56,823,266 shares		64		64	
outstanding at December 31, 2021		64		64	
Additional paid-in capital		204,957		195,593	
Accumulated other comprehensive loss		(349)		(149)	
Treasury stock, at cost, 8,148,512 shares repurchased at December 31, 2022 and 6,721,153 shares repurchased at December 31, 2021		(80,486)		(53,832)	
Retained earnings		61,152		37,103	
Total stockholders' equity		185,338		178,779	
Total liabilities and stockholders' equity	\$	217,039	\$	213,690	

# ENERGY RECOVERY, INC. CONSOLIDATED STATEMENTS OF OPERATIONS

		Years Ended December 31,						
	2022			2021	2020			
		(In the	ousands,	, except per share	data)			
Product revenue	\$ 125	,591	\$	103,904	\$	92,091		
Cost of product revenue	38	,235		32,670		28,249		
Product gross profit	87	,356		71,234		63,842		
License and development revenue		_		—		26,895		
Operating expenses:								
General and administrative	28	,341		25,174		25,535		
Sales and marketing	16	,277		12,160		8,127		
Research and development	17	,909		20,069		23,449		
Impairment of long-lived assets		_		_		2,332		
Total operating expenses	62	,527		57,403		59,443		
Income from operations	24	,829		13,831		31,294		
Other income (expense):								
Interest income		908		204		913		
Other non-operating income (expense), net		334		(31)		(74)		
Total other income, net	1	,242		173		839		
Income before income taxes	26	,071		14,004		32,133		
Provision for (benefit from) income taxes	2	,022		(265)		5,746		
Net income	\$ 24	,049	\$	14,269	\$	26,387		
Net income per share:								
Basic	\$	0.43	\$	0.25	\$	0.47		
Diluted	\$	0.42	\$	0.24	\$	0.47		
Number of shares used in per share calculations:								
Basic	56	,221		56,993		55,709		
Diluted	57	,641		58,723		56,637		

# ENERGY RECOVERY, INC. CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

	Y	ear End	led December 3	1,	
	 2022		2021		2020
		(Ir	thousands)		
Net income	\$ 24,049	\$	14,269	\$	26,387
Other comprehensive (loss) income, net of tax					
Foreign currency translation adjustments	15		(68)		26
Unrealized (loss) gain on investments	(215)		(134)		64
Total other comprehensive (loss) income, net of tax	(200)		(202)		90
Comprehensive income	\$ 23,849	\$	14,067	\$	26,477

# ENERGY RECOVERY, INC. CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY

		Years Ended December	31,
	2022	2021	2020
		(In thousands, except share	s)
Common stock	<b>^</b>		<b>*</b> • • • •
Beginning balance	\$ 64		\$ 61
Issuance of common stock, net		- 2	1
Ending balance	64	4 64	62
Additional paid-in capital			
Beginning balance	195,593	3 179,161	170,028
Issuance of common stock, net	2,986	5 10,552	4,373
Stock-based compensation	6,378	5,880	4,760
Ending balance	204,957	7 195,593	179,161
Accumulated other comprehensive (loss) income			
Beginning balance	(149	9) 53	(37
Other comprehensive (loss) income	, , , , , , , , , , , , , , , , , , ,		,
Foreign currency translation adjustments	15	5 (68)	26
Unrealized (loss) gain on investments	(215		64
Total other comprehensive (loss) income, net	(200	<u>,                                     </u>	90
Ending balance	(349	0) (149)	53
Treasury stock			
Beginning balance	(53,832	2) (30,486)	(30,486
Common stock repurchased	(35,652		(50,400
Ending balance	(80,486	<u> </u>	(30,486
	(00,400	6) (53,832)	(30,400
Retained earnings			
Beginning balance	37,103		(3,553
Net income	24,049		26,387
Ending balance	61,152	2 37,103	22,834
Total stockholders' equity	\$ 185,338	3 \$ 178,779	\$ 171,624
Common stock issued (shares)			
Beginning balance	63,544,419	61,798,004	60,717,702
Issuance of common stock, net	680,972		1,080,302
Ending balance	64,225,391		61,798,004
Treasury stock (shares)			
Beginning balance	6,721,153	5,455,935	5,455,935
Common stock repurchased	1,427,359		5,455,950
Ending balance			5,455,935
	8,148,512	6,721,153	0,400,930
Total common stock outstanding (shares)	56,076,879	56,823,266	56,342,069

# ENERGY RECOVERY, INC. CONSOLIDATED STATEMENTS OF CASH FLOWS

		31,	3			
		2022		2021		2020
				(In thousands)		
Cash flows from operating activities:						
Net income	\$	24,049	\$	14,269	\$	26,387
Adjustments to reconcile net income to cash provided by operating activities						
Stock-based compensation		6,508		6,053		4,787
Depreciation and amortization		4,764		4,502		3,891
ROU asset depreciation		1,538		1,437		1,408
Amortization of premiums and discounts on investments		680		570		390
Deferred income taxes		1,158		(391)		5,867
Impairment of long-lived assets		_		_		2,332
Other non-cash adjustments		(201)		955		395
Changes in operating assets and liabilities:						
Accounts receivable, net		(13,480)		(8,823)		1,098
Contract assets		(1,227)		1,399		(1,200)
Inventories, net		(8,282)		(8,766)		(1,622)
Prepaid and other assets		138		314		415
Accounts payable		138		(155)		(205)
Accrued expenses and other liabilities		(1,062)		396		153
Contract liabilities		(2,090)		1,766		(27,226)
Net cash provided by operating activities		12,631		13,526		16,870
Cash flows from investing activities:						
Sales of marketable securities		_		_		10,573
Maturities of marketable securities		39,756		35,019		55,667
Purchases of marketable securities		(43,572)		(48,903)		(12,855)
Capital expenditures		(4,232)		(6,684)		(6,785)
Proceeds from sales of fixed assets		1,102		5		(-,) 
Net cash (used in) provided by investing activities		(6,946)		(20,563)		46,600
Cash flows from financing activities:						
Net proceeds from issuance of common stock		2,986		10,554		4,397
Tax payment for employee shares withheld		_				(23)
Repurchase of common stock		(26,654)		(23,346)		
Net cash (used in) provided by financing activities		(23,668)		(12,792)		4,374
Effect of exchange rate differences on cash and cash equivalents		(20)		(68)		26
Net change in cash, cash equivalents and restricted cash		(18,003)		(19,897)		67,870
Cash, cash equivalents and restricted cash, beginning of year	¢	74,461	¢	94,358	¢	26,488
Cash, cash equivalents and restricted cash, end of year	\$	56,458	\$	74,461	\$	94,358
Supplemental disclosure of cash flow information:	¢	0	¢	070	¢	40
Cash received for income tax refunds	\$	2	\$	270	\$	13
Cash paid for income taxes		549		76		52
Supplemental disclosure on non-cash investing and financing transactions:						
Purchases of property and equipment in trade accounts payable, and accrued expenses and other liabilities	\$	740	\$	421	\$	322
Non-cash lease liabilities arising from obtaining right of use assets		_		_		6,384

#### Note 1 — Description of Business and Significant Accounting Policies

Energy Recovery, Inc. and its wholly-owned subsidiaries (the "Company" or "Energy Recovery") designs and manufactures solutions that make industrial processes more efficient and sustainable. Leveraging the Company's pressure exchanger technology, which generates little to no emissions when operating, the Company's solutions lower costs, save energy, reduce waste and minimize emissions for companies across a variety of industrial processes. As the world coalesces around the urgent need to address climate change and its impacts, the Company is helping companies reduce their energy consumption in their industrial processes, which in turn, reduces their carbon footprint. The Company believes that its customers do not have to sacrifice quality and cost savings for sustainability and is committed to developing solutions that drive long-term value – both financial and environmental. The Company's solutions are marketed, sold in, or developed for, the fluid-flow and gas markets, such as seawater and industrial wastewater desalination, natural gas, chemical processing and refrigeration systems, under the trademarks ERI<sup>®</sup>, PX<sup>®</sup>, Pressure Exchanger<sup>®</sup>, PX<sup>®</sup> Pressure Exchanger<sup>®</sup> ("PX"), Ultra PX<sup>™</sup>, PX G<sup>™</sup>, PX G1300<sup>™</sup>, PX PowerTrain<sup>™</sup>, AT<sup>™</sup>, and Aquabold<sup>™</sup>. The Company owns, manufactures and/or develops its solutions, in whole or in part, in the United States of America (the "U.S.").

#### **Basis of Presentation**

The Consolidated Financial Statements include the accounts of Energy Recovery, Inc. and its wholly-owned subsidiaries. All intercompany accounts and transactions have been eliminated in consolidation.

#### Reclassifications

Certain prior period amounts have been reclassified in the Consolidated Statements of Operations, Consolidated Statements of Cash Flows and certain notes to the Consolidated Financial Statements to conform to the current period presentation.

#### **Use of Estimates**

The preparation of Consolidated Financial Statements, in conformity with U.S. generally accepted accounting principles ("GAAP"), requires the Company's management to make judgments, assumptions and estimates that affect the amounts reported in the Consolidated Financial Statements and accompanying notes.

The accounting policies that reflect the Company's significant estimates and judgments and that the Company believes are the most critical to aid in fully understanding and evaluating its reported financial results are revenue recognition; valuation of stock options; useful life and valuation of equipment; valuation and impairment of goodwill; inventory; deferred taxes and valuation allowances on deferred tax assets; evaluation and measurement of contingencies, and warranty obligations. Those estimates could change, and as a result, actual results could differ materially from those estimates.

Although there has been uncertainty and disruption in the global economy, supply chain and financial markets, the Company is not aware of any specific event or circumstance that would require an update to its estimates or judgments or a revision of the carrying value of its assets or liabilities as of February 22, 2023, the date of issuance of this Annual Report on Form 10-K. These estimates may change, as new events occur and additional information is obtained. Actual results could differ materially from these estimates under different assumptions or conditions. The Company undertakes no obligation to update publicly these estimates for any reason after the date of this Annual Report on Form 10-K, except as required by law.

## **Significant Accounting Policies**

#### Cash and Cash Equivalents

The Company considers all highly liquid investments with an original or remaining contractual maturity on date of purchase of less than or equal to three months to be classified and presented as cash equivalents on the Consolidated Balance Sheets. Cash equivalents are stated at cost, which approximates fair value. The Company's cash and cash equivalents may include demand deposit accounts with large financial institutions, institutional money market funds, U.S. treasury securities, and corporate notes and bonds. The Company monitors the creditworthiness of the financial institutions, institutional money market funds, and corporations in which the Company invests its surplus funds. The Company has experienced no credit losses from its cash investments.

# Allowance for Doubtful Accounts

The Company records a provision for doubtful accounts based on historical experience and an estimate of the expected credit losses. In estimating the allowance for doubtful accounts, the Company considers, among other factors, the aging of the accounts receivable, its historical write-offs, the credit worthiness of each customer, and general economic conditions. Account balances are charged off against the allowance when the Company believes that it is probable that the receivable will not be recovered. Actual write-offs may be in excess of the Company's estimated allowance.

#### Short-term and Long-term Investments

The Company's short-term and long-term investments consist primarily of investment-grade debt securities, such as U.S. treasury securities, corporate notes and bonds, and municipal and agency notes and bonds, all of which are classified as available-for-sale. Available-for-sale securities are carried at fair value. Amortization or accretion of premium or discount is included in other income (expense) on the Consolidated Statements of Operations. Changes in the fair value of available-for-sale securities are reported as a component of accumulated other comprehensive loss within stockholders' equity on the Consolidated Balance Sheets. Realized gains and losses on the sale of available-for-sale securities are determined by specific identification of the cost basis of each security.

The Company categorizes and classifies short-term and long-term available-for-sale investments on the Company's Consolidated Balance Sheets as follows:

- Short-term investments: Investments purchased with an original or remaining maturity at time of purchase greater than three months and that are expected to mature within 12 months from the balance sheet date are classified as short-term investments and are presented in current assets.
- Long-term investments: Investments purchased with an original or remaining maturity at time of purchase greater than three
  months and that are expected to mature more than 12 months from the balance sheet date are classified as long-term
  investments and are presented in non-current assets.

## Inventories

Inventories are stated at the lower of cost (using the first-in, first-out "FIFO" method) or net realizable value. The Company calculates inventory valuation adjustments for excess and obsolete inventory based on current inventory levels, movement, expected useful lives, and estimated future demand of the products and spare parts.

# **Property and Equipment**

Property and equipment is recorded at cost and reduced by accumulated depreciation. Depreciation expense is recognized over the estimated useful lives of the assets using the straight-line method. The following table presents the estimated useful life, or range of useful lives, of the Company's property and equipment. Maintenance and repairs are charged directly to expense as incurred.

	Minimum	Maximum
Machinery and equipment (excluding equipment used for manufacturing of ceramic components)	3 years	7 years
Machinery and equipment used for manufacturing of ceramic components	3 years	10 years
Leasehold improvements <sup>(1)</sup>	1 year	6.4 years
Software <sup>(2)</sup>	3 years	5 years
Office equipment, furniture, and fixtures	3 years	5 years
Automobiles	1 year	7 years

(1) Leasehold improvements represent remodeling and retrofitting costs for leased office and manufacturing space and are depreciated over the shorter of either the estimated useful lives or the term of the lease. See Note 7, Commitments and Contingencies, §Operating Lease Obligations, for further discussion of lease terms.

<sup>(2)</sup> Software purchased for internal use consists primarily of amounts paid for perpetual licenses to third-party software providers and implementation costs.

Estimated useful lives are periodically reviewed, and when appropriate, changes are made prospectively. When certain events or changes in operating conditions occur, asset lives may be adjusted and an impairment assessment may be performed on the recoverability of the carrying amounts. The Company evaluates the recoverability of long-lived assets by comparing the carrying amount of an asset to estimated future net undiscounted cash flows generated by the asset (asset group). If such assets are considered to be impaired, the impairment recognized is measured as the amount by which the carrying amount of the assets exceeds the fair value of the assets. The evaluation of recoverability involves estimates of future operating cash flows based upon certain forecasted assumptions, including, but not limited to, revenue growth rates, gross profit margins, and operating expenses.

## Leases

The Company determines if an arrangement is a lease, or contains a lease, at the inception of the arrangement and evaluates whether the lease is an operating or a finance lease at the commencement date. The Company recognizes right-of-use ("ROU") assets and lease liabilities for operating leases with terms greater than 1 year. ROU assets represent the Company's right to use an asset for the lease term, while lease liabilities represent the Company's obligation to make lease payments. Operating lease ROU assets and liabilities are recognized based on the present value of lease payments over the lease term at the lease commencement date. The Company uses the implicit interest rate or, if not readily determinable, its incremental borrowing rate as of the lease commencement date to determine the present value of lease payments. The incremental borrowing rate is based on the Company's unsecured borrowing rate, adjusted for the effects of collateral. Operating lease ROU assets are recognized net of any lease prepayments and incentives. Based on materiality, the Company accounts for both the non-lease components and related lease components as a single lease component. Lease terms may include options to extend or terminate the lease when it is reasonably certain that the Company will exercise that option. Operating lease expense is recognized on a straight-line basis over the lease term.

The Company applies lease modifications that change the contractual terms and conditions of a lease, that were not part of the original lease, and grants additional right of use with a price consistent with the market, as a new lease. These modifications will be assessed in compliance with the above parameters. For other types of lease modification, the modified lease is reassessed and all new assumptions are applied in the calculation of the updated lease liability and the ROU asset.

#### Goodwill

Our goodwill represents the excess of the purchase price of a business combination over the fair value of the net assets acquired. Goodwill is not amortized but is evaluated annually (July 1) for impairment at the reporting unit level or when indicators of a potential impairment are present. Goodwill impairment testing requires significant judgment and management estimates, including, but not limited to, the determination of (i) the number of reporting units, (ii) the goodwill and other assets and liabilities to be allocated to the reporting units and (iii) the fair values of the reporting units. The estimates and assumptions described above, along with other factors such as discount rates, will significantly affect the outcome of the impairment tests and the amounts of any resulting impairment losses. We perform a quantitative assessment of goodwill for impairment on an annual basis during the third quarter of each year, and between annual tests, a qualitative assessment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. If these interim qualitative factors were to indicate that it is more-likely-than-not that the fair value of the reporting unit is less than its carrying value, we would then perform a quantitative assessment, which would consist primarily of a discounted cash flow ("DCF") analysis to determine the fair value of the reporting unit's goodwill. The forecast of future cash flows, which is based on the Company's best estimate of future net sales and operating expenses, is based primarily on expected category expansion, pricing, market segment, and general economic conditions. In addition, the Company incorporates other significant inputs to its fair value calculations, including discount rate and market multiples, to reflect current market conditions. To the extent the carrying amount of the reporting unit's allocated goodwill exceeds the unit's fair value, we recognize an impairment of goodwill for the excess up to the amount of goodwill of that

#### Fair Value of Financial Instruments

The Company's financial instruments include cash and cash equivalents, restricted cash, investments in marketable securities, accounts receivable, and accounts payable. The carrying amounts for these financial instruments reported in the Consolidated Balance Sheets approximate their fair values. See Note 5, "Investments and Fair Value Measurements," for further discussion related to fair value.

#### **Revenue Recognition**

Revenues are recognized when control of the promised goods or services is transferred to the Company's customers, in an amount that reflects the consideration the Company expects to be entitled to in exchange for those goods or services. Performance obligations are identified and the total transaction price is allocated to the performance obligations at execution of the contract.

The Company's payment terms vary based on the credit risk of its customer. For certain customer types, the Company requires payment before the products or services are delivered to the customer. The Company performs an evaluation of customer credit worthiness on an individual contract basis to assess whether collectability is reasonably assured at the inception of the contract. As part of this evaluation, the Company considers many factors about the individual customer, including the underlying financial strength of the customer and/or partnership consortium and the Company's prior history or industry-specific knowledge about the customer and its supplier relationships. For smaller projects, the Company requires the customer to remit payment generally within 30 to 60 days after product delivery. In some cases, if credit worthiness cannot be determined, prepayment or other security is required.

Sales commissions are expensed as incurred when product revenue is earned. These costs are recorded within sales and marketing expenses.

#### Arrangements with Multiple Performance Obligations and Termination for Convenience

The Company's contracts with customers may include multiple performance obligations. For such arrangements, the Company allocates revenue to each performance obligation based on its relative stand-alone selling price. The Company generally determines stand-alone selling prices based on the prices charged to customers.

With respect to termination, the Company does not have the ability to cancel the contract for convenience. In general, customers can cancel for convenience upon the payment of a termination fee that covers costs and profit. It is rare for customers to cancel contracts.

## Practical Expedients and Exemptions

In the Water segment, the time period between when the Company transfers control of products to the customer and the payment for the products is, in general, less than one year and, therefore, the practical expedient with respect to a financing component has been adopted by the Company.

With respect to taxes, the Company has made the policy election to exclude taxes from the measurement of the transaction price.

The Company does not disclose the value of unsatisfied performance obligations for (i) contracts with an original expected length of one year or less; and (ii) contracts for which the Company recognizes revenue at the amount to which the Company has the right to invoice for services performed.

#### Contract Costs

The Company recognizes the incremental cost of obtaining contracts as an expense when incurred if the amortization period of the assets that the Company otherwise would have recognized is one year or less. The costs of obtaining contracts are included in sales and marketing expenses.

#### Product and Service Revenue Recognition - Water Segment

In the Company's Water segment, a contract is established by a written agreement (executed sales order, executed purchase order or stand-alone contract) with the customer with fixed pricing, and a credit risk assessment is completed prior to the signing of the agreement to ensure that collectability is reasonably assured.

The Company adheres to consistent pricing in the stand-alone sale of products and services. The Company does not generally bundle performance obligations in the Water segment. Performance obligations consist of delivery of products, such as the Company's PXs, hydraulic turbochargers, pumps and spare parts. Service obligations, such as commissioning, which are not material, are deferred as contract liabilities until the services are performed.

The transfer of control for the Company's products follows transfer of title which typically occurs upon shipment or delivery of the equipment in accordance with International Commercial Terms (commonly referred to as "incoterms"). The specified product performance criteria for the Company's products pertain to the ability of the Company's product to meet its published performance specifications and warranty provisions, which the Company's products have demonstrated on a consistent basis. This factor, combined with historical performance metrics, provides the Company's management with a reasonable basis to conclude that the products will perform satisfactorily upon commissioning of the plant. Installation is relatively simple, requires no customization, and is performance has been completed upon shipment or delivery when title transfers based on the shipping terms, and that product revenue is recognized at a point in time.

The Company does not provide its customers with a right of product return; however, the Company will accept returns of products that are deemed to be damaged or defective when delivered that are covered by the terms and conditions of the product warranty. Product warranty is provided consistent with the industry and is considered to be an assurance warranty, not a separate performance obligation. Product returns and warranty charges have not been material.

For large projects, stand-alone contracts are utilized. For these contracts, consistent with industry practice, the Company's customers typically require their suppliers, including the Company, to accept contractual holdback provisions (also referred to as a retention payment) whereby the final amounts due under the sales contract are remitted over extended periods of time or alternatively, stand-by letters of credit are issued. These retention payments are generally 10% or less of the total contract amount and are due and payable based upon the contractual milestone billing, generally up to 24 to 36 months from the date of product delivery. These retention payments with performance conditions are recorded as contract assets and align with the product warranty period. Given that they are not material in the context of the contract, they are not considered to be a financing component.

Shipping and handling charges billed to customers are pass-through from the freight forwarder to the customer and are included in product revenue. The cost of shipping to customers is included in product cost of revenue.

#### License and Development Revenue Recognition - Emerging Technologies Segment

Revenue is recognized when control of the promised goods or services is transferred to customers. For example, stand-alone selling price was established at the inception of a license agreement by taking the transaction to market on a non-exclusive basis, and pricing in an exclusivity premium. Since the license agreement included an up-front non-refundable payment at the inception and future products and services are provided after initial commercialization, the Company completed an analysis and concluded that there was no material right included in the pricing of the license agreement. Performance obligations, such as the exclusive license to the Company's missile technology and upgrades prior to and subsequent to the date of full commercial launch, have been identified. Value has been allocated to the performance obligations and license and development revenue is recognized over time based on the input measure of progress of the cost of salaries, wages and travel costs related to the project prior to full commercialization, and ratably for the unspecified upgrades for the period subsequent to full commercialization of the license agreement was terminated and all unrecognized future revenue under the license agreement was recognized in the second quarter of fiscal year 2020.

Contracts are sometimes modified for a change in scope or other requirements. The Company considers contract modifications to exist when the modification either creates new or changes the existing enforceable rights and obligations. Any subsequent contract modifications are analyzed to determine the treatment of the contract modification as a separate contract, prospectively or through a cumulative catch-up adjustment.

#### Warranty Costs

The Company sells products with a limited warranty for a period ranging from 18 months to five years. The Company accrues for warranty costs based on estimated product failure rates, historical activity, and expectations of future costs. Periodically, the Company evaluates and adjusts the warranty costs to the extent that actual warranty costs vary from the original estimates.

#### Stock-based Compensation

The Company measures and recognizes stock-based compensation expense based on the fair value measurement for all stockbased awards made to its employees, non-employee consultants and directors, including restricted stock units ("RSUs"), and incentive stock options over the requisite service period (typically the vesting period of the awards). The fair value of RSUs is based on the Company's common stock price on the date of grant. The fair value of stock options is calculated on the date of grant using a Black-Scholes (also referred to as the "Black-Scholes-Merton") model, which requires a number of complex assumptions including the expected life to exercise a vested award based upon the Company's exercise history, expected volatility based upon the Company's historical stock prices, risk-free interest rate based upon the U.S. Treasury rates, and the Company's dividend yield. The estimation of awards that will ultimately vest requires judgment, and to the extent that actual results or updated estimates differ from the Company's current estimates, such amounts are recorded as a cumulative adjustment in the period in which the estimates are revised. See Note 12, "Stock-based Compensation," for further discussion of stock-based compensation.

## Foreign Currency

The Company's reporting currency is the U.S. dollar. The functional currency of the Company's foreign subsidiaries is their respective local currencies. The asset and liability accounts of the Company's foreign subsidiaries are translated from their local currencies at the rates in effect on the balance sheet date. Revenue and expenses are translated at average rates of exchange prevailing during the period. Gains and losses resulting from the translation of the Company's subsidiary balance sheets are recorded as a component of accumulated other comprehensive income (loss). Gains and losses from foreign currency transactions are recorded in other income (expense) in the Consolidated Statements of Operations.

#### Income Taxes

Current and non-current tax assets and liabilities are based upon an estimate of taxes refundable or payable for each of the jurisdictions in which the Company is subject to tax. In the ordinary course of business, there is inherent uncertainty in quantifying income tax positions. The Company assesses income tax positions and records tax benefits for all years subject to examination based upon the Company's evaluation of the facts, circumstances, and information available at the reporting dates. For those tax positions where it is more likely than not that a tax benefit will be sustained, the Company records the largest amount of tax benefit with a greater than 50% likelihood of being realized upon ultimate settlement with a taxing authority that has full knowledge of all relevant information. For those income tax positions where it is not more likely than not that a tax benefit will be sustained, no tax benefit is recognized in the financial statements. When applicable, associated interest and penalties are recognized as a component of income tax expense. Accrued interest and penalties are included within the related tax asset or liability on the Consolidated Balance Sheets.

Deferred income taxes are provided for temporary differences arising from differences in bases of assets and liabilities for tax and financial reporting purposes. Deferred income taxes are recorded on temporary differences using enacted tax rates in effect for the year in which the temporary differences are expected to reverse. The effect of a change in tax rates on deferred tax assets and liabilities is recognized in income in the period that includes the enactment date. Deferred tax assets are reduced by a valuation allowance when, in the opinion of management, it is more likely than not that some portion or all of the deferred tax assets will not be realized. Significant judgment is required in determining whether and to what extent any valuation allowance is needed on the Company's deferred tax assets. In making such a determination, the Company considers all available positive and negative evidence including recent results of operations, scheduled reversals of deferred tax liabilities, projected future income, and available tax planning strategies. See Note 8, "Income Taxes," for further discussion of tax valuation allowances.

The Company's operations are subject to income and transaction taxes in the U.S. and in foreign jurisdictions. Significant estimates and judgments are required in determining the Company's worldwide provision for income taxes. Some of these estimates are based on interpretations of existing tax laws or regulations. The ultimate amount of tax liability may be uncertain as a result.

#### **Recently Adopted Accounting Pronouncement**

In March 2020, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") No. 2020-04, *Reference Rate Reform (Topic 848)* ("ASU 2020-04"), which provided optional expedients and exceptions for applying U.S. GAAP to contracts, hedging relationships, and other transactions affected by the discontinuation of the London Interbank Offered Rate ("LIBOR") or by another reference rate expected to be discontinued. The FASB later issued ASU No. 2021-01, *Reference Rate Reform (Topic 848): Scope, to clarify the scope of Topic 848 so that derivatives affected by the discounting transition are explicitly eligible for certain optional expedients and exceptions in Topic 848 ("ASU 2021-01"). Entities may apply the provisions of the new standards as of the beginning of the reporting period when the election is made (i.e., as early as the first quarter of 2020). Unlike other topics, the provisions of this update are only available until December 31, 2022, when the reference rate replacement activity is expected to have been completed. An entity may elect to apply amendments prospectively through December 31, 2022.* 

On July 15, 2022, the Company amended its existing credit agreement (as defined in Note 6, "Lines of Credit") to change the reference rate for borrowings from LIBOR to the Secured Overnight Financing Rate ("SOFR"). The Company applied ASU 2020-04 and the optional expedients at the time of this modification. The Company's adoption of ASU 2020-04 and ASU 2021-01 on July 15, 2022, did not have a material impact on the Company's financial condition, results of operations, and cash flows. Refer to Note 6, "Lines of Credit," for more information.

## Note 2 — Revenue

## Disaggregation of Revenue

The Company classifies its product revenue by channel customers as follows:

- *Megaproject ("MPD")*. MPD customers are major firms that develop, design, build, own and/or operate large-scale desalination plants.
- Original Equipment Manufacturer ("OEM"). OEM customers are companies that supply equipment, packaged systems, and various operating and maintenance solutions for small to medium-sized desalination plants, utilized by commercial and industrial entities, as well as national, state and local municipalities worldwide.
- Aftermarket ("AM"). AM customers are desalination plant owners and/or operators who can utilize our technology to upgrade or keep their plant running.

Sales and usage-based taxes are excluded from revenues. See Note 9, "Segment Reporting," for further discussion related to the Company's segments.

The following table presents the disaggregated revenues by segment, and within each segment, by product type and service line, by primary geographical market based on the customer "shipped to" address, and by product revenue by channel customers.

					Years	s Enc	led Decemb	er 3	1,					
			2022				2021					2020		
		Water	nerging nnologies	Total	Water		merging chnologies		Total			Emerging chnologies		
						(In	thousands)							
Product type and se	ervic	e line												
PXs, pumps and turbo devices, and other	\$	125,428	\$ 163	\$ 125,591	\$ 103,851	\$	53	\$	103,904	\$ 92,061	\$	30	\$	92,091
License and development		_	_	_	_		_		_	_		26,895		26,895
Total revenue	\$	125,428	\$ 163	\$ 125,591	\$ 103,851	\$	53	\$	103,904	\$ 92,061	\$	26,925	\$	118,986
Primary geographic	al m	arket												
Middle East and Africa	\$	86,227	\$ 94	\$ 86,321	\$ 78,348	\$	53	\$	78,401	\$ 73,963	\$	_	\$	73,963
Asia		24,777	_	24,777	18,639		_		18,639	7,363		_		7,363
Americas		8,544	34	8,578	3,264		_		3,264	7,274		26,925		34,199
Europe		5,880	35	5,915	3,600		_		3,600	3,461		_		3,461
Total revenue	\$	125,428	\$ 163	\$ 125,591	\$ 103,851	\$	53	\$	103,904	\$ 92,061	\$	26,925	\$	118,986
Product revenue by	cha	nnel												
Megaproject	\$	81,755	\$ 133	\$ 81,888	\$ 75,338	\$	53	\$	75,391	\$ 66,763	\$	_	\$	66,763
Original equipment manufacturer	t	28,858	_	28,858	17,604		_		17,604	15,834		_		15,834
Aftermarket		14,815	 30	 14,845	10,909		_		10,909	 9,464		30		9,494
Total product revenue	\$	125,428	\$ 163	\$ 125,591	\$ 103,851	\$	53	\$	103,904	\$ 92,061	\$	30	\$	92,091

On June 24, 2020, the Company entered into an agreement with Schlumberger Technology Corporation ("Schlumberger") to terminate the existing 2015 license agreement between the Company and Schlumberger to provide Schlumberger with the exclusive worldwide rights to the VorTeq technology ("VorTeq License Agreement"). Pursuant to the terms of the agreement, each party's rights, duties and obligations under the VorTeq License Agreement have been terminated effective June 1, 2020. Accordingly, the Company (i) is entitled to retain all of the non-refundable upfront exclusivity payment; (ii) is not entitled to any further payments from Schlumberger; and (iii) has no future performance obligations under the VorTeq License Agreement. The Company accounted for the termination as a contract modification, which resulted in the Company recognizing the remaining amounts of the original \$75.0 million non-refundable upfront exclusivity payment of fiscal year 2020 as license and development revenue in the Consolidated Statements of Operations for such quarter.

## **Contract Balances**

The following table presents contract balances by category.

		December 31,				
		2022	2021			
		(In tho	usands)			
Accounts receivable, net	\$	34,062	\$	20,615		
Contract assets, current (included in prepaid expenses and other assets)		1,720		493		
Contract liabilities:						
Contract liabilities, current	\$	1,195	\$	3,318		
Contract liabilities, non-current (included in other liabilities, non-current)		121		88		
Total contract liabilities	\$	1,316	\$	3,406		
Total contract liabilities	<u></u>	1,316	\$	3,406		

## **Contract Liabilities**

The Company records contract liabilities, which consist of customer deposits and deferred revenue, when cash payments are received in advance of the Company's performance. The following table presents significant changes in contract liabilities during the period.

	Years Ended December 31,							
		2022		2021	2020			
				(In thousands)				
Contract liabilities, beginning of year	\$	3,406	\$	1,640	\$	28,866		
Revenue recognized		(3,123)		(1,415)		(28,414)		
Cash received, excluding amounts recognized as revenue during the period		1,033		3,181		1,188		
Contract liabilities, end of year	\$	1,316	\$	3,406	\$	1,640		

# **Future Performance Obligations**

As of December 31, 2022, the following table presents the future estimated revenue by year expected to be recognized related to performance obligations that are unsatisfied or partially unsatisfied.

Year		Future Performance Obligations
		(In thousands)
2023	\$	5,456
2024		7,493
Total	<u>\$</u>	12,949

## Note 3 — Net Income Per Share

Net income for the reported period is divided by the weighted average number of common shares outstanding during the reported period to calculate basic net income per common share.

- Basic net income per common share excludes any dilutive effect of stock options and RSUs.
- Diluted net income per common share reflects the potential dilution that would occur if outstanding stock options to purchase common stock were exercised for shares of common stock, using the treasury stock method, and if the shares of common stock underlying each unvested RSU were issued.

Outstanding stock options to purchase common stock and unvested RSUs are collectively referred to as "stock awards."

The following table presents the computation of basic and diluted net income per common share.

	Years Ended December 31,								
	 2022		2021		2020				
	 (In thou	isands, ex	xcept per share ar	nounts)					
Numerator									
Net income	\$ 24,049	\$	14,269	\$	26,387				
	 	-							
Denominator (weighted average shares)									
Basic common shares outstanding	56,221		56,993		55,709				
Dilutive stock awards	1,420		1,730		928				
Diluted common shares outstanding	57,641		58,723		56,637				
Net income per share									
Basic	\$ 0.43	\$	0.25	\$	0.47				
Diluted	\$ 0.42	\$	0.24	\$	0.47				

Certain shares of common stock issuable under stock awards have been omitted from the diluted net income per common share calculations because their inclusion is considered anti-dilutive. The following table presents the weighted potential common shares issuable under stock awards that were excluded from the computation of diluted net income per common share.

	Ye	ars Ended December 3	31,
	2022	2021	2020
		(In thousands)	
award shares	374	17	2,185

#### Note 4 — Other Financial Information

## Cash, Cash Equivalents and Restricted Cash

The Consolidated Statements of Cash Flows explain the changes in the total of cash, cash equivalents and restricted cash. The following table presents a reconciliation of cash, cash equivalents and restricted cash, such as cash amounts deposited in restricted cash accounts in connection with the Company's credit cards, reported within the Consolidated Balance Sheets that sum to the total of such amounts presented.

				December 31,				
	2022 2021					2020		
				(In thousands)				
Cash and cash equivalents	\$	56,354	\$	74,358	\$	94,255		
Restricted cash, non-current (included in other assets, non-current)		104		103		103		
Total cash, cash equivalents and restricted cash	\$	56,458	\$	74,461	\$	94,358		

## Accounts Receivable, net

	 December 31,					
	2022	2021				
	(In thousands					
Accounts receivable, gross	\$ 34,210	\$ 20,732				
Allowance for doubtful accounts	(148)	(117)				
Accounts receivable, net	\$ 34,062	\$ 20,615				

## Allowance for Doubtful Accounts

The following table presents the allowance for doubtful accounts activities.

	Years Ended December 31,									
	2022			2021		2020				
				(In thousands)						
Balance, beginning of year	\$	117	\$	397	\$	308				
Changes to reserves <sup>(1)</sup>		36		—		95				
Collection of specific reserves and uncollectible accounts written off, net of recoveries		(5)		(280)		(6)				
Balance, end of year	\$	148	\$	117	\$	397				

<sup>(1)</sup> General and specific reserves charged to expense.

# Inventories, net

	 December 31,					
	2022		2021			
	(In tho	usands)				
Raw materials	\$ 11,178	\$	7,352			
Work in process	2,628		3,406			
Finished goods	15,062		10,274			
Inventories, gross	28,868		21,032			
Valuation adjustments for excess and obsolete inventory	(502)		(649)			
Inventories, net	\$ 28,366	\$	20,383			

# Prepaid Expenses and Other Assets

	December 31,					
	 2022		2021			
	 (In tho	usands)				
Contract assets	\$ 1,720	\$	493			
Cloud computing arrangement implementation costs	784		1,041			
Supplier advances	1,308		1,717			
Other prepaid expenses and other assets	1,794		1,824			
Total prepaid expenses and other assets	\$ 5,606	\$	5,075			

# **Property and Equipment**

	December 31,				
	2022		2021		
	(In tho	usands)			
Machinery and equipment	\$ 28,545	\$	29,777		
Leasehold improvements	17,576		15,224		
Software	1,799		3,300		
Office equipment, furniture, and fixtures	2,950		2,890		
Automobiles	246		240		
Construction in progress	2,407		3,296		
Total property and equipment	53,523		54,727		
Less: Accumulated depreciation and amortization	(33,943)		(34,366)		
Total property and equipment, net	\$ 19,580	\$	20,361		

During June 2022, the Company made the decision to cease the VorTeq<sup>™</sup> commercialization efforts. As a result of this decision, the Company reduced the carrying value of certain fixed assets to the estimated residual value resulting in additional depreciation costs of \$0.9 million during the three months ended June 30, 2022.

			Ye	ars l	Ended December 3	31,	
	-	20	22		2021		2020
	-				(In thousands)		
on and amortization expense		\$	4,727	\$	4,490	\$	3,875

## **Goodwill and Other Intangible Assets**

	December 31,					
	2022	2021				
	 (In thou	sands)				
Goodwill	\$ 12,790	\$ 12,7	790			
Other intangible assets						
Other intangible assets, gross	193	1	193			
Accumulated amortization	(193)	(1	(156)			
Other intangible assets, net	_		37			
Total goodwill and other intangible assets	\$ 12,790	\$ 12,8	827			

## Goodwill

Goodwill is tested for impairment annually in the third quarter of the Company's fiscal year or more frequently if indicators of potential impairment exist. The recoverability of goodwill is measured at the reporting unit level, which represents the operating segment.

On July 1, 2022, the Company estimated the fair value of its reporting units using both the discounted cash flow and market approaches, as well as considered the impact of the decision to cease the VorTeq commercialization efforts. The forecast of future cash flows, which is based on the Company's best estimate of future net sales and operating expenses, is based primarily on expected category expansion, pricing, market segment, and general economic conditions. The Company incorporates other significant inputs to its fair value calculations, including discount rate and market multiples, to reflect current market conditions. The analysis performed indicated that the fair value of each reporting unit that is allocated goodwill significantly exceeds its carrying value. During the six months ended December 31, 2022 (the period subsequent to the annual impairment test), the Company continued to actively monitor the industries in which it operates and its business performance for indicators of potential impairment. During the six months ended December 31, 2022, no impairment charge was recorded.

## Other Intangible Assets

Other intangible assets represents patents acquired. There was no impairment of intangible assets recorded during the years ended December 31, 2022, 2021 and 2020. As of December 31, 2022, the other intangible asset carrying value was fully amortized.

## Accrued Expenses and Other Liabilities

	 December 31,				
	2022		2021		
	 (In tho	usands)			
Current					
Payroll, incentives and commissions payable	\$ 10,479	\$	10,170		
Warranty reserve	968		879		
Other accrued expenses and other liabilities	3,246		2,945		
Total accrued expenses and other liabilities	14,693		13,994		
Other liabilities, non-current	 121		247		
Total accrued expenses, and current and non-current other liabilities	\$ 14,814	\$	14,241		

## Accumulated Other Comprehensive (Loss) Income

There were no reclassifications of amounts out of accumulated other comprehensive loss for the years ended December 31, 2022, 2021, and 2020, as there have been no sales of securities or translation adjustments that impacted other comprehensive loss during these periods. The tax impact of the changes in accumulated other comprehensive loss for the years ended December 31, 2022, 2021 and 2020, was not material.

## Advertising Expense

Advertising expense is charged to operations during the year in which it is incurred. Total advertising expense was not material for the years ended December 31, 2022, 2021 and 2020.

## Note 5 — Investments and Fair Value Measurements

#### Available-for-Sale Investments

The Company's investments in investment-grade short-term and long-term marketable debt instruments, such as U.S. treasury securities, corporate notes and bonds, and municipal and agency notes and bonds, are classified as available-for-sale. Available-for-sale investments are classified on the Consolidated Balance Sheets as either short-term and/or long-term investments.

The classification of available-for-sale investments on the Consolidated Balance Sheets and definition of each of these classifications are presented in Note 1, "Description of Business and Significant Accounting Policies - Significant Accounting Policies," subsections "Cash and Cash Equivalents" and "Short-term and Long-term Investments."

Expected maturities can differ from contractual maturities because borrowers may have the right to prepay obligations without prepayment penalties. The Company generally holds available-for-sale investments until maturity; however, from time-to-time, the Company may elect to sell certain available-for-sale investments prior to contractual maturity.

## Fair Value of Financial Instruments

The Company follows the authoritative guidance for fair value measurements and disclosures that, among other things, defines fair value, establishes a consistent framework for measuring fair value, and expands disclosure for each major asset and liability category measured at fair value on either a recurring or nonrecurring basis. Fair value is defined as an exit price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants. As such, fair value is a market-based measurement that should be determined based on assumptions that market participants would use in pricing an asset or liability.

All of the Company's financial assets and liabilities are remeasured and reported at fair value at each reporting period, and are classified and disclosed in one of the following three pricing category levels:

- Level 1 Quoted prices (unadjusted) in active markets for identical assets or liabilities;
- Level 2 Inputs other than quoted prices included within Level 1 that are either directly or indirectly observable; and
- Level 3 Unobservable inputs in which little or no market activity exists, thereby requiring an entity to develop its own assumptions that market participants would use in pricing.

The following table presents the Company's financial assets measured on a recurring basis by contractual maturity, including pricing category, amortized cost, gross unrealized gains and losses, and fair value. As of the dates reported in the table, the Company had no financial liabilities and no Level 3 financial assets.

			December 31, 2022					December 31, 2021																													
	Pricing Category	A	mortized Cost	Unre	oss alized ains	Un	Gross Unrealized Losses		Fair Value		Value		Value		Value		Amortized Cost				Cost		Gross Unrealized Gains		Unrealized		Gross realized osses		Fair Value								
Cash equivalents									(In tho	usand	s)																										
Money market securities	Level 1	\$	33,268	\$	_	\$	_	\$	33,268	\$	50,865	\$	_	\$	_	\$	50,865																				
Short-term investment	s																																				
U.S. treasury securities	Level 2		3,629		1		_		3,630		_		_		_		_																				
Corporate notes and bonds	Level 2		26,060		_		(208)		25,852		31,371		_		(39)		31,332																				
Municipal and agency notes and bonds	Level 2		3,992		5		_		3,997		_		_		_		_																				
Total short-term inve	stments		33,681		6	_	(208)	_	33,479		31,371	_		_	(39)	_	31,332																				
Long-term investments	5																																				
Corporate notes and bonds	Level 2		3,178		_		(120)		3,058		2,307		_		(9)		2,298																				
Total short and lon investments	g-term		36,859		6		(328)		36,537		33,678		_		(48)		33,630																				
Total		\$	70,127	\$	6	\$	(328)	\$	69,805	\$	84,543	\$	_	\$	(48)	\$	84,495																				

The Company monitors its investments for impairment. It was determined that unrealized gains and losses included in accumulated other comprehensive loss at December 31, 2022 and 2021, were temporary in nature, because the changes in market value for these securities resulted from fluctuating interest rates, rather than a deterioration of the credit worthiness of the issuers.

The following table presents a summary of the fair value and gross unrealized losses on the available-for-sale securities that have been in a continuous unrealized loss position, aggregated by type of investment instrument. The available-for-sale securities that were in an unrealized gain position have been excluded from the table.

	December 31, 2022					Decembe	r 31, 2	2021		
		Fair Value						Fair Value		Gross Unrealized Losses
				(In tho	usands)					
Corporate notes and bonds	\$	28,911	\$	(328)	\$	33,630	\$	(48)		

## Note 6 — Lines of Credit

#### **Credit Agreement**

The Company entered into a credit agreement with JPMorgan Chase Bank, N.A. ("JPMC") on December 22, 2021 ("Credit Agreement"). The Credit Agreement, which will expire on December 21, 2026, provides a committed revolving credit line of \$50.0 million. The Credit Agreement requires the Company to comply with various covenants, including among other things, financial covenants to 1) maintain a leverage ratio of consolidated net debt to adjusted EBITDA, not to exceed 3.0 to 1; and 2) limit annual capital expenditures. The Credit Agreement allows the Company to, among other things, make distributions to shareholders, repurchase its stock, incur other debt or liens, or acquire or dispose of assets provided that the Company complies with certain requirements and limitations set forth in the Credit Agreement. The unused portion of the credit line is subject to a fee equal to 0.20% per annum multiplied by the amount of such unused portion.

On July 15, 2022, the Company and JPMC agreed to a modification of the Credit Agreement to change the indicated reference rate from LIBOR to SOFR. Changes in the Credit Agreement reference rate to SOFR did not materially change the provisions defined in the original Credit Agreement nor did this change materially affect the Company's financial statements.

## **Revolving Loans**

Revolving loans under the Credit Agreement may be in the form of 1) a base rate loan that bears interest equal to (a) the greater of the Wall Street Journal prime rate and (b) the sum of (i) one-month reserve adjusted Secured Overnight Financing Rate ("SOFR") and (ii) 2.50%, plus an applicable margin of 0.25% or 0.50%, subject to the Company's total leverage ratio, or 2) a Eurodollar loan that bears interest equal to the sum of the reserved adjusted SOFR rate for an interest period elected by the Company, plus an applicable margin of 1.25% or 1.50%, based upon the Company's total leverage ratio. The Company may request loans up to the lower of a maximum exposure of \$50.0 million or the amounts of unused credit under the Credit Agreement. The unused portion of the credit facility is subject to a facility fee in an amount equal to 0.20% per annum of the average unused portion of the revolving line. At the election of the lender following an event of default, the loans shall bear the aforementioned interest rate plus an additional 2%. As of December 31, 2022, there were no revolving loans outstanding under the Credit Agreement.

## Letters of Credit

Under the Credit Agreement, the Company is allowed to request LCs up to the lower of a maximum exposure of \$25.0 million or the amounts of unused credit under the Credit Agreement. The Credit Agreement does not require any cash collateral when LCs are issued; however, at the election of the lender following a default, the lender may require the Company to deposit cash in an amount equal to 103% of the LCs exposure. LCs are subject to customary fees and expenses for issuance or renewal, and all disbursements are subject to the same interest rate provision as noted directly above under Revolving Loans. LCs are limited to a term of one year, unless extended. Under the LCs component, the Company utilized \$16.7 million of the maximum allowable credit line of \$25.0 million, which includes newly issued LCs, and previously issued and unexpired stand-by letters of credits ("SBLCs") and certain non-expired commitments under the Company's previous Loan and Pledge Agreement with Citibank, N.A. which are guaranteed under the Credit Agreement.

The following table presents the total outstanding LCs and SBLCs issued by the Company to our customers related to product warranty and performance guarantees.

	December 31,		
	2022		2021
	(In the	ousands)	
\$	15,487	\$	13,960

See Note 7, "Commitments and Contingencies – Guarantees," for further discussion on product warranty and performance guarantees.

#### Note 7 — Commitments and Contingencies

#### **Operating Lease Obligations**

The Company leases office, warehouse and manufacturing facilities under operating leases in San Leandro, CA, Tracy, CA and Katy, TX that expire on various dates through fiscal year 2030. The following table presents a summary of operating lease, right of use assets and lease liabilities.

	December 31,			
2022		2021		
(In tho	usands)			
\$ 13,115	\$	14,653		
\$ 1,600	\$	1,564		
13,278		14,879		
\$ 14,878	\$	16,443		
\$ \$ \$	(In thou \$ 13,115 \$ 1,600 13,278	(In thousands) \$ 13,115 \$ \$ 1,600 \$ 13,278		

The following table presents operating lease activities related to all leased properties.

	Ye	ars	Ended December	31,	
	 2022		2021		2020
			(In thousands)		
bense	\$ 2,571	\$	2,571	\$	2,589
S	2,650		2,431		2,398

The following table presents other information related to outstanding operating leases as of December 31, 2022.

Weighted average remaining lease term	6.4 years
Weighted average discount rate	7.0%

As of December 31, 2022, the following table presents the minimum lease payments by year under noncancelable operating leases, exclusive of execution costs.

Year	_	Lease L	iabilities
	-	(In tho	usands)
2023		\$	2,580
2024			2,812
2025			2,736
2026			2,982
2027			3,072
2028 and thereafter			4,406
Total future minimum lease payments			18,588
Less imputed lease interest			(3,710)
Total lease liabilities	-	\$	14,878

#### Warranty

The following table presents the changes in the Company's accrued product warranty reserve.

	Years Ended December 31,					
	2022		2021			2020
				(In thousands)		
Warranty reserve balance, beginning of year	\$	879	\$	760	\$	631
Warranty costs charged to cost of revenue		483		445		403
Utilization charges against reserve		(64)		(16)		(36)
Release of accrual related to expired warranties		(330)		(310)		(238)
Warranty reserve balance, end of year	\$	968	\$	879	\$	760

#### **Purchase Obligations**

The Company has purchase order arrangements with its vendors for which the Company has not received the related goods or services as of December 31, 2022. These arrangements are subject to change based on the Company's sales demand forecasts. The Company has the right to cancel the arrangements prior to the date of delivery. The purchase order arrangements are related to various raw materials and component parts, as well as capital equipment. As of December 31, 2022, the Company had approximately \$5.0 million of such open cancellable purchase order arrangements.

#### Guarantees

The Company enters into indemnification provisions under its agreements with other companies in the ordinary course of business, typically with its customers. Under these provisions, the Company generally indemnifies and holds harmless the indemnified party for losses suffered or incurred by the indemnified party as a result of the Company's activities, generally limited to personal injury and property damage caused by the Company's employees at a customer's plant, and in proportion to the employee's percentage of fault for the accident. Damages incurred for these indemnifications would be covered by the Company's general liability insurance to the extent provided by the policy limitations. The Company has not incurred material costs to defend lawsuits or settle claims related to these indemnification agreements. As a result, the estimated valuation of the potential liability arising from these agreements is not material. Accordingly, the Company recorded no liabilities for these agreements as of December 31, 2022 and 2021.

In certain cases, the Company issues product warranty and performance guarantees to its customers for amounts generally equal to 10% or less of the total sales agreement to endorse the execution of product delivery and to the warranty of design work, fabrication and operating performance of our devices. These guarantees are generally LCs that have a weighted average life at inception of 37 months. See Note 6, "Lines of Credit – Letters of Credit," for information related to LCs.

# Litigation

From time-to-time, the Company has been named in and subject to various proceedings and claims in connection with its business. The Company may in the future become involved in litigation in the ordinary course of business, including litigation that could be material to its business. The Company considers all claims, if any, on a quarterly basis and, based on known facts, assesses whether potential losses are considered reasonably possible, probable and estimable. Based upon this assessment, the Company then evaluates disclosure requirements and whether to accrue for such claims in its consolidated financial statements. The Company records a provision for a liability when it is both probable that a liability has been incurred and the amount of the loss can be reasonably estimated. These provisions are reviewed at least quarterly and are adjusted to reflect the impacts of negotiations, settlements, rulings, advice of legal counsel and other information and events pertaining to a particular case. As of December 31, 2022, the Company was not involved in any lawsuits, therefore there were no material losses which were probable or reasonably possible.

In June 2022, Mr. Blanco, the Company's former Senior Vice President, Sales, petitioned the Spanish court to reopen the previously closed case regarding unpaid bonus, stock options, and non-compete compensation. The Company denied any allegations of wrongdoing; however, the Company determined it was in its best interest to seek a settlement. Accordingly, an immaterial probable loss was recorded as of September 30, 2022. In October 2022, the Company settled the matter with no material impact to the financial statements.

# Note 8 — Income Taxes

The following table presents the Company's U.S. and foreign components of consolidated income before income taxes and the provision for (benefit from) income taxes.

	Years Ended December 31,					
	 2022		2021			2020
			(	(In thousands)		
Income before income taxes:						
U.S.	\$	25,918	\$	13,913	\$	32,046
Foreign		153		91		87
Total income before income taxes	\$	26,071	\$	14,004	\$	32,133
Current tax provision (benefit):						
Federal	\$	698	\$	_	\$	(148)
State		22		10		5
Foreign		84		80		40
Current tax provision (benefit)		804	_	90		(103)
Deferred tax provision (benefit):						
Federal		1,104		(382)		5,547
State		114		27		302
Total deferred tax provision (benefit)		1,218		(355)		5,849
Total provision for (benefit from) income taxes	\$	2,022	\$	(265)	\$	5,746

The following table presents a reconciliation of income taxes computed at the statutory federal income tax rate to the effective tax rate implied by the accompanying Consolidated Statements of Operations.

	Years	Years Ended December 31,					
	2022	2021	2020				
U.S. federal taxes at statutory rate	21%	21%	21%				
State income tax, net of federal benefit	1	—	1				
Foreign rate differential	_	1	_				
Stock-based compensation	(4)	(18)	(2)				
Non-deductible expenses	1	1	1				
Federal research credits	(4)	(7)	(3)				
Foreign derived intangible income	(7)	—	—				
Effective tax rate	8%	(2%)	18%				

The following table presents the components of the Company's net deferred tax asset, which is presented in other assets, non-current on the Consolidated Balance Sheets.

	 December 31,		
	2022		2021
	(In thous	sands)	
Deferred tax assets:			
Net operating loss carry forwards	\$ 702	\$	4,119
Amortization of research and experimental expenditures	3,605		—
Accruals and reserves	4,320		4,054
Operating lease liabilities	3,199		3,581
Research and development, and foreign tax credit carry forwards	9,642		10,393
Acquired intangibles	321		483
Other	66		53
Total deferred tax assets	21,855		22,683
Valuation allowance	(4,185)		(3,644)
Total deferred tax assets, net of valuation allowance	17,670		19,039
Deferred tax liabilities:			
Depreciation on property and equipment	(2,646)		(2,644)
Right of use asset	(2,809)		(3,184)
Other	_		(20)
Goodwill	(1,952)		(1,770)
Total deferred tax liabilities	(7,407)		(7,618)
Net deferred tax asset	\$ 10,263	\$	11,421

In asserting the recoverability of deferred tax assets, the Company considers whether it is more likely than not that the assets will be realized. The ultimate realization of deferred tax assets is dependent upon the generation of future taxable income during the periods in which those temporary differences become deductible.

The Company assesses the available positive and negative evidence to estimate if sufficient future taxable income will be generated to use the existing deferred tax assets. In making such a determination, the Company considers all available positive and negative evidence, including recent results of operations, scheduled reversals of deferred tax liabilities, projected future income, and available tax planning strategies. A significant piece of objective positive evidence evaluated was the cumulative profit incurred in the U.S. In 2021, the Company dissolved its entity in Ireland. As a result of this dissolution, all Ireland net operating loss carryovers and related valuation allowance were eliminated.

On the basis of this evaluation, as of December 31, 2022, the Company recognized all of its U.S. federal and state deferred tax assets with the exception that the Company continues to maintain a valuation allowance on its California research and development ("R&D") credit carryovers of \$4.2 million. The Company will maintain a valuation allowance on its California R&D credit carryovers because it is more likely than not that the Company will continue to annually generate more California R&D tax credits than it utilizes, resulting in no net reduction of credits. The Company's policy with respect to California R&D credits is that they are utilized on a last-in, first-out basis.

The Company continues to assert that the accumulated foreign earnings of its subsidiaries in Spain and Canada are permanently reinvested. Due to the U.S. Tax Cuts and Jobs Act ("Tax Act") enacted in 2017, any future repatriation of the earnings of its subsidiaries in Spain and Canada would not be subject to U.S. federal income tax. The Company has estimated that the foreign withholding taxes and U.S. state income taxes related to a potential future repatriation of these earnings would be immaterial. The Company has evaluated the impact of the global intangible low taxed income ("GILTI") and has concluded that the impact to the Company is immaterial.

The following table presents the Company's net operating loss carryforwards by taxing authority.

				Decem						
	Expiration Year		2022		r 2022		Expiration Year 2022			2021
				(In thou	isands)					
Federal		N/A	\$	—	\$	15,864				
California		2031		9,549		10,744				
Total net operating loss carryforwards			\$	9,549	\$	26,608				

Utilization of the net operating loss carryforward may be subject to a substantial annual limitation due to the ownership change limitations provided by the California Revenue and Taxation Code. The annual limitation will result in the expiration of the net operating loss carryforwards before utilization. The Company has estimated the amount which may ultimately be realized and recorded deferred tax assets accordingly.

The following table presents the Company's R&D credit by taxing authority, minimum tax credit and foreign tax credit carryforwards.

			Decem	ber 31,	
	Expiration Year	2022			2021
		(In thousands)			
Federal	2035	\$	5,441	\$	6,737
California	No Expiration Date		5,318		4,628
Total credit carryforwards		\$	10,759	\$	11,365

Utilization of the credit carryforwards may be subject to a substantial annual limitation due to the ownership change limitations provided by the IRC and similar California provisions.

Accounting for uncertain tax positions is based on judgment regarding the largest amount that is greater than 50% likely of being realized upon the ultimate settlement with a taxing authority. The following table presents the aggregate changes in the balance of the gross unrecognized tax benefits.

		Years Ended December 31,						
	2	2022		2021		2020		
			(In	thousands)				
Gross unrecognized tax benefits, beginning of year	\$	1,321	\$	1,134	\$	963		
Additions:								
Prior year tax position		157		_		9		
Current year tax position		27		193		167		
Reductions:								
Prior year tax position		_		(6)		(5)		
Gross unrecognized tax benefits, end of year	\$	1,505	\$	1,321	\$	1,134		

As of December 31, 2022, the Company had unrecognized tax benefits of \$1.5 million, of which \$0.9 million, if recognized, would affect the Company's effective tax rate.

The Company adopted the accounting policy that interest and penalties are classified as part of its income taxes. As of December 31, 2022, there was no accrued interest or penalties associated with any unrecognized tax benefits.

There are currently no examinations by Federal, California, and foreign tax authorities. The Company believes that, as of December 31, 2022, the gross unrecognized tax benefits will not materially change in the next twelve months. The Company believes that it has adequately provided for any reasonably foreseeable outcomes related to any tax audits and that any settlement will not have a material adverse effect on the consolidated financial position or results of operations. However, there can be no assurances as to the possible outcomes.

#### Note 9 — Segment Reporting

The Company's chief operating decision-maker ("CODM") is its chief executive officer. The Company continues to monitor and review its segment reporting structure in accordance with authoritative guidance to determine whether any changes have occurred that would impact its reportable segments.

Income and type of expense activities that are included in the Water and Emerging Technologies segments and corporate operating expenses are as follows:

*Water segment:* The continued development, sales and support of the PX, Turbochargers and pumps used in seawater desalination and industrial wastewater activities.

*Emerging Technologies segment:* The continued development, sales and support of activities related to emerging technologies, such as the PX G1300 used in industrial and commercial refrigeration applications.

*Corporate operating expenses:* Corporate activities outside of the operating segments, such as audit and accounting expenses, general legal costs, board of director fees and expenses, and other separately managed general expenses not related to the identified segments.

#### Segment Financial Information

For each of the periods presented, operating income (loss) for each segment excludes other income and expenses, and corporate operating expenses not included in how the CODM assesses the performance of the operating segments, such as income taxes and other separately managed expenses not attributed to the operating segments. Assets and liabilities are reviewed at the consolidated level by the CODM and are not attributed to the segments. The CODM allocates resources to, and assesses the performance of, each operating segment using information about its revenue and operating income.

The following table presents a summary of the Company's financial information by segment and corporate operating expe	enses.
---	--------

	Year Ended December 31, 2022			Year Ended December 31, 2021			Year Ende	d December 31, 20	20 (Recast)
	Water	Emerging Technologies	Total	Water	Emerging Technologies	Total	Water	Emerging Technologies	Total
					(In thousands)				
Product revenue	\$125,428	\$ 163	\$ 125,591	\$103,851	\$ 53	\$ 103,904	\$ 92,061	\$ 30	\$ 92,091
Product cost of revenue	38,158	77	38,235	32,670		32,670	28,239	10	28,249
Product gross profit	87,270	86	87,356	71,181	53	71,234	63,822	20	63,842
License and development revenue $^{\left( 1\right) }$	_	-	_	_	-	_	_	26,895	26,895
Operating expenses									
General and administrative	6,936	4,104	11,040	6,342	5,162	11,504	9,188	5,410	14,598
Sales and marketing	11,065	3,047	14,112	9,559	937	10,496	5,958	1,192	7,150
Research and development	4,151	13,758	17,909	2,589	17,480	20,069	2,973	20,476	23,449
Impairment of long-lived assets	_	_	_	_	_	_	_	2,332	2,332
Total operating expenses	22,152	20,909	43,061	18,490	23,579	42,069	18,119	29,410	47,529
Operating income (loss)	\$ 65,118	\$ (20,823)	44,295	\$ 52,691	\$ (23,526)	29,165	\$ 45,703	\$ (2,495)	43,208
Less: Corporate operating expenses			19,466			15,334			11,914
Income from operations			\$ 24,829			\$ 13,831			\$ 31,294

(1) In June 2020, the Company and Schlumberger entered into an agreement to terminate the VorTeq License Agreement. The termination of the VorTeq License Agreement was effective June 1, 2020. As there were no future performance obligations to be recognized under the VorTeq License Agreement after the effective date, the Company recognized in full the remaining deferred revenue balance of \$24.4 million in the second quarter of fiscal year 2020. In addition, no future license and development revenue was recognized under the VorTeq License Agreement after the second quarter of fiscal year 2020.

The following table presents a summary of the Company's depreciation and amortization by segment and corporate operating expenses.

	Years Ended December 31,					
	2022		2021			2020
	(In thousands)					
Water	\$	2,141	\$	1,823	\$	1,354
Emerging Technologies		1,864		2,199		2,125
Corporate		759		480		412
Total depreciation and amortization	\$	4,764	\$	4,502	\$	3,891

# Note 10 — Concentrations

# Product Revenue by Geographic Location

The following table presents the Company's product revenue by geographic locations. The geographic information includes product revenue from our domestic and international customers based on the customers' requested delivery locations, except for certain cases in which the customer directed the Company to deliver its products to a location that differs from the known ultimate location of use. In such cases, the ultimate location of use rather than the delivery location is reflected in the table.

	Yea	Years Ended December 31,				
	2022	2021	2020			
Product revenue by geographic location:						
United States	1%	1%	2%			
International	99%	99%	98%			
Total product revenue	100%	100%	100%			
Product revenue by country: <sup>(1)</sup>						
Saudi Arabia	47%	36%	34%			
United Arab Emirates	**	17%	18%			
Israel	**	14%	**			
Egypt	**	**	10%			
Others <sup>(2)</sup>	53%	33%	38%			
Total	100%	100%	100%			

\* Zero or less than 10%.

<sup>(1)</sup> Countries representing more than 10% of product revenues for the periods presented.

<sup>(2)</sup> Countries in the aggregate, individually representing less than 10% of product revenues for the periods presented.

# Water Segment Product Revenue

The following table presents the Water segment customers that account for 10% or more of the Company's Water segment product revenues. Although certain customers might account for greater than 10% of product revenues at any one point in time, the concentration of product revenue between a limited number of customers shifts regularly, depending on timing of shipments. The percentages by customer reflect specific relationships or contracts that would concentrate product revenue for the periods presented and do not indicate a trend specific to any one customer.

	Ye	Years Ended December 31,				
	2022	2021	2020			
Customer A	**	21%	27%			
Customer B	15%	10%	23%			
Customer C	18%	11%	**			
Customer D	**	16%	**			
Customer E	11%	**	**			

Zero or less than 10%.

# Emerging Technology Segment Product, and License and Development Revenue

The following table presents the Emerging Technologies segment customers that account for 10% or more of the Company's Emerging Technologies segment revenues.

	Y	ears Ended December	81,
	2022	2021	2020
Customer A	57%	100%	**
Customer B	**	**	100%
Customer C	21%	**	**
Customer D	19%	**	**

Zero or less than 10%.

# Long-lived Assets

All of the Company's long-lived assets were located in the United States at December 31, 2022 and 2021.

# **Major Supply Vendors**

The following table presents the major supply vendors accounting for 10% or more of the Company's consolidated supply and manufacturing costs purchases.

	Yea	rs Ended December 3	31,
	2022	2021	2020
Vendor A	21%	24%	16%
Vendor B	19%	16%	19%
Vendor C	13%	**	**
Vendor D	**	12%	**

\*\* Zero or less than 10%.

# Note 11 — Stockholders' Equity

# **Preferred Stock**

The Company has the authority to issue 10,000,000 shares of preferred stock with a par value of \$0.001 per share. The Board of Directors has the authority, without action by the Company's stockholders, to designate and issue shares of preferred stock in one or more series. The Board of Directors is also authorized to designate the rights, preferences, and voting powers of each series of preferred stock, any or all of which may be greater than the rights of the common stock including restrictions of dividends on the common stock, dilution of the voting power of the common stock, reduction of the liquidation rights of the common stock, and delaying or preventing a change in control of the Company without further action by the Company's stockholders. To date, the Board of Directors has not designated any rights, preferences, or powers of any preferred stock, and as of December 31, 2022 and 2021, no shares of preferred stock were issued or outstanding.

# **Common Stock**

The Company has the authority to issue 200,000,000 shares of common stock with a par value of \$0.001 per share. Subject to the preferred rights of the holders of shares of any class or series of preferred stock as provided by the Board of Directors with respect to any such class or series of preferred stock, the holders of the common stock shall be entitled to receive dividends, as and when declared by the Board of Directors. In the event of any liquidation, dissolution, or winding up of the Company, whether voluntary or involuntary, after the distribution or payment to the holders of shares of any class or series of preferred stock as provided by the Board of Directors with respect to any such class or series of preferred stock, the remaining assets of the Company available for distribution to stockholders shall be distributed among and paid to the holders of common stock ratably in proportion to the number of shares of common stock held by them.

#### Share Repurchase Program

On March 9, 2021, the Company's Board of Directors authorized a share repurchase program under which the Company may repurchase its outstanding common stock, at the discretion of management, up to \$50.0 million in aggregate cost, which includes both the share value of the acquired common stock and the fees charged in connection with acquiring the common stock (the "March 2021 Authorization"). Under the March 2021 Authorization, purchases of shares of common stock may be made from time to time in the open market, or in privately negotiated transactions, in compliance with applicable state and federal securities laws. The March 2021 Authorization does not obligate the Company to acquire any specific number of shares in any period, and may be expanded, extended, modified or discontinued at any time without prior notice. On July 1, 2022, the Company concluded all share repurchases under the March 2021 Authorization.

The following table presents the share repurchase activities under the March 2021 Authorization as of December 31, 2022.

Period		Number of Shares         Average Price Paid           Purchased         per Share <sup>(1)</sup>				Activity <sup>(2)</sup>
	(In thou	ands)			(In ti	housands)
2021	1,42	.7	\$	18.65	\$	23,346
2022	1,20	5		18.43		26,654
Total <sup>(3)</sup>	2,65	3		18.55		

(1) Excluding commissions

(2) Including commissions

<sup>(3)</sup> Amount may not total due to rounding

As of December 31, 2022, the Company has repurchased 8.1 million shares of its common stock at an aggregate cost of \$80.5 million under the March 2021 Authorization and all previous share repurchase programs.

#### Note 12 — Stock-based Compensation

#### **Stock Option Plans**

In July 2020, the stockholders approved the 2020 Incentive Plan (the "2020 Plan"), that permits the grant of stock options, stock appreciation rights, restricted stock, restricted stock awards ("RSA"), RSUs, performance units, performance shares, and other stock-based awards to employees, officers, directors, and consultants. Prior to the approval of the 2020 Plan, the Company maintained the 2016 Incentive Plan, and the Amended and Restated 2008 Equity Incentive Plan (hereinafter referred to as the "Predecessor Plans"). Subject to adjustments, as provided in the 2020 Plan, the number of shares of common stock initially authorized for issuance under the 2020 Plan was 5,894,727 shares (which consist of 4,500,000 new share awards plus 1,394,727 share awards that were authorized and unissued under the Predecessor Plans) plus up to 4,850,630 shares that were set aside for awards granted under the Predecessor Plans and unissued under the only available plan from which awards may be granted. The Company's 2020 Plan and Predecessor Plans are hereinafter referred to as "Equity Incentive Plans."

Shares available for grant under the 2020 Plan at December 31, 2022 were 4,637,883 shares. There were no shares available for grant under the Predecessor Plans after July 15, 2020.

#### **Stock Options**

Stock options outstanding at December 31, 2022 and to be granted subsequently after December 31, 2022, generally vest over four years and expire no more than 10 years after the date of grant. Non-employee board of director grants generally vest one year after the date of grant or on the date of the annual stockholders' meeting following the date of grant, whichever date occurs first, and expire no more than 10 years after the date of grant.

#### **Restricted Stock Awards**

There were no RSAs outstanding as of December 31, 2022.

#### **Restricted Stock Units**

RSUs outstanding at, and to be awarded subsequently after, December 31, 2022, generally vest 25% annually over the four years from date of grant and are dependent upon continued employment. Non-employee board of director grants generally vest one year after the date of grant or on the date of the annual stockholders' meeting following the date of grant, whichever date occurs first. As RSUs vest, the units will be settled in shares of common stock based on a one-to-one ratio. The units are valued based on the market price on the date of grant.

#### **Fair Value Assumptions**

#### Stock Options

The fair value of stock options granted to employees is based on the Black-Scholes option pricing model. To determine the inputs for the Black-Scholes option pricing model, the Company is required to develop several assumptions, which are highly subjective. The Company determines these assumptions as follows:

- Expected Term: The Company uses its historical data to determine the expected term of options based on historical exercise data. As there was no historical exercise data for non-employee directors, the Company determines the expected term based on the simplified method.
- *Expected Volatility:* The Company determines expected volatility based on its historical data and the corresponding expected term that was determined using the Company's historical exercise data.
- *Risk-Free Interest Rate:* The risk-free rate is based on U.S. Treasury issues with remaining terms similar to the expected term on the stock options granted.
- *Dividend Yield:* The Company has never declared or paid any cash dividends and does not plan to pay cash dividends in the foreseeable future; therefore, the Company uses an expected dividend yield of zero in the valuation model.

The following table presents assumptions used in the Black-Scholes option pricing model to determine the estimated grant date fair values of stock options granted to employees.

	Years Ended December 31,					
	2022	2020				
Weighted average expected life (years)	4.1	4.0	5.1			
Weighted average expected volatility	48.7%	49.3%	71.7%			
Risk-free interest rate	1.44% – 3.90%	0.30% – 1.51%	0.29% – 1.32%			
Weighted average dividend yield	—%	—%	—%			

# **Restricted Stock Units**

The fair value of RSUs granted to employees is based on the Company's common stock price on the date of grant.

#### **Stock-based Compensation Expense**

The following table presents the stock-based compensation expense related to the fair value measurement of awards granted to employees by expense category and by type of award. All stock-based payment awards are amortized on a straight-line basis over the requisite service periods of the awards, generally the vesting periods.

	Years Ended December 31,					
		2022		2021		2020
			(In	thousands)		
Stock-based compensation expense charged to:						
Product cost of revenue	\$	506	\$	414	\$	135
General and administrative		3,436		2,917		2,615
Sales and marketing		1,592		1,483		893
Research and development		977		1,242		1,151
Total stock-based compensation expense	\$	6,511	\$	6,056	\$	4,794
Stock-based compensation expense by type of award:						
Stock options	\$	2,837	\$	3,161	\$	3,004
RSUs		3,674		2,895		1,790
Total stock-based compensation expense	\$	6,511	\$	6,056	\$	4,794

# Forfeitures

The Company estimates forfeitures at the time of grant and revises those estimates periodically in subsequent periods if actual forfeitures differ from those estimates. The Company uses historical data to estimate pre-vesting option forfeitures and records stock-based compensation expense only for those awards that are expected to vest. If the Company's actual forfeiture rate is materially different from its estimate, the stock-based compensation expense could be significantly different from what the Company has recorded in the current period.

The following table presents the estimated weighted average forfeiture rates used in determining the expense in the stock-based compensation expense table above.

	_	Years Ended December 31,			
	-	2022	2021	2020	
Stock options and RSUs vested over 4-years	-	9.2%	8.1%	11.2%	

# **Unamortized Stock-Based Compensation Costs**

Stock-based compensation costs related to unvested stock options and RSUs will generally be amortized on a straight-line basis over the remaining average service period of each award. The following table presents the unamortized compensation costs and weighted average service period of all unvested outstanding awards as of December 31, 2022.

	Com	amortized pensation Costs	Weighted Average Service Period
	(In thousands)		(In years)
Stock options	\$	7,126	1.5
RSUs		8,159	2.4
Total unamortized compensation costs, net of adjusted forfeitures	\$	15,285	

#### **Stock Option Activities**

The following table presents stock option activities under the Equity Incentive Plans.

	Number of Shares	Weighted Average Exercise Price	Weighted Average Remaining Contractual Life	Aggregate Intrinsic Value <sup>(1)</sup>	
	(In thousands)	(Per share)	, ,		thousands)
Balance, December 31, 2019	3,927	\$ 6.66			
Granted	806	8.78			
Exercised	(926)	4.79		\$	4,637
Forfeited	(187)	9.15			
Balance, December 31, 2020	3,620	7.48			
Granted	613	14.39			
Exercised	(1,518)	6.96		\$	16,952
Forfeited	(171)	11.26			
Balance, December 31, 2021	2,544	9.21			
Granted	403	19.13			
Exercised	(429)	7.32		\$	6,387
Forfeited	(97)	13.66			
Balance, December 31, 2022	2,421	\$ 11.02	6.6	\$	22,944
Vested and exercisable as of December 31, 2022	1,622	\$ 8.85	5.7	\$	18,878
Vested and exercisable as of December 31, 2022 and expected to vest thereafter	2,360	\$ 10.88	6.5	\$	22,682

<sup>(1)</sup> The aggregate intrinsic value of an exercised option is calculated as the difference between the exercise price of the underlying option and the fair value of the Company's common stock at the time of exercise. The aggregate intrinsic value at December 31, 2022 is calculated as the difference between the exercise price of the underlying outstanding options and the fair value of the Company's common stock as of December 31, 2022 or the last trading day prior to December 31, 2022.

# **Restricted Stock Unit Activities**

The following table presents RSU activities under the Equity Incentive Plans.

	Number of Shares	Weighted Average Grant Date Fair Value	
	(In thousands)	(Per share)	
Balance, December 31, 2019	544	\$ 7.95	
Awarded	368	10.33	
Vested	(161)	8.12	
Forfeited	(64)	8.86	
Balance, December 31, 2020	687	9.10	
Awarded	387	15.44	
Vested	(230)	8.98	
Forfeited	(150)	11.14	
Balance, December 31, 2021	694	12.23	
Awarded	322	19.61	
Vested	(268)	12.03	
Forfeited	(60)	15.16	
Balance, December 31, 2022	688	15.51	

# Vested Stock Options and RSUs

The following table presents the total grant date fair value of stock options and RSUs vested during the period.

	Years Ended December 31,					
	2022		2021		2020	
				(In thousands)		
Stock options	\$	2,683	\$	3,298	\$	2,915
RSUs		3,226		2,060		1,310
Total grant date fair value of stock options and RSUs vested during the period	\$	5,909	\$	5,358	\$	4,225

## 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**

Our management has evaluated, with the participation of our Chief Executive Officer and Chief Financial Officer, the effectiveness of our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, or "Exchange Act") as of the end of the period covered by this Annual Report on Form 10-K. Based on that evaluation, our Chief Executive Officer and Chief Financial Officer have concluded that, as of such date, our disclosure controls and procedures were effective to ensure that information we are required to disclose in reports that we file or submit under the Exchange Act is recorded, processed, summarized, and reported within the time periods specified in Securities and Exchange Commission rules and forms and that such information is accumulated and communicated to management as appropriate to allow for timely decisions regarding required disclosure.

Our disclosure controls and procedures are designed to provide reasonable assurance of achieving their objectives, and our Chief Executive Officer and Chief Financial Officer have concluded that these controls and procedures are effective at the "reasonable assurance" level. Our management, including the Chief Executive Officer and Chief Financial Officer, believes that a control system, no matter how well designed and operated, cannot provide absolute assurance that the objectives of the control system are met, and that no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, within a company have been detected.

# Management's Annual Report on Internal Control Over Financial Reporting and Attestation Report of the Registered Public Accounting Firm

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

Management is responsible for establishing and maintaining adequate internal control over the Company's financial reporting. Management assessed the effectiveness of the Company's internal control over financial reporting as of December 31, 2022. In making this assessment, management used the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) in *Internal Control — Integrated Framework (2013)*. Based on the assessment using those criteria, management concluded that, as of December 31, 2022, our internal control over financial reporting was effective.

# Attestation Report of the Registered Public Accounting Firm

The Company's independent registered public accountants, Deloitte & Touche, LLP, audited the Consolidated Financial Statements included in this Annual Report on Form 10-K and have issued an audit report on the Company's internal control over financial reporting. The report on the audit of internal control over financial reporting appears in Part II, Item 8, "Financial Statements and Supplementary Data," in this Annual Report on Form 10-K.

# Changes in Internal Control Over Financial Reporting

There were no changes in our internal control over financial reporting that occurred during our most recent fiscal quarter that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

# Item 9B — Other Information

None.

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

Not applicable.

## PART III

Certain information required by Part III is omitted from this report because we will file with the SEC a definitive proxy statement pursuant to Regulation 14A, or the 2023 Proxy Statement ("Proxy Statement"), no later than 120 days after the end of fiscal year 2022, and certain information included therein is incorporated herein by reference.

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

The information required by this Item is included in and incorporated by reference from the Proxy Statement.

#### Item 11 — Executive Compensation

The information required by this Item is included in and incorporated by reference from the Proxy Statement under the captions "Director Compensation," "Executive Compensation," "Compensation Committee Interlocks and Insider Participation," "Compensation Discussion and Analysis," "Report of the Compensation Committee" and "Compensation Policies and Practices as They Relate to Risk Management."

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

The following table sets forth equity compensation plan information as of December 31, 2022.

	Number of Securities to be Issued Upon Exercise of Outstanding Options, Warrants,	Weighted- Average Exercise Price of Outstanding Options, Warrants,	Number of Securities Remaining Available for Future Issuance Under Equity Compensation Plans (Excluding Securities
Plan Category	and Rights	and Rights	Reflected in the First Column)
Equity compensation plans approved by security holders <sup>(1)</sup>	3,109,047	\$11.02	4,637,883
Equity compensation plans not approved by security holders	None	Not applicable	Not applicable

<sup>(1)</sup> Represents shares of our common stock issuable upon exercise of options outstanding under the following equity compensation plans: the 2020 Incentive Plan, the 2016 Incentive Plan, and the Amended and Restated 2008 Equity Incentive Plan.

The information required by this Item is included in and incorporated by reference from the Proxy Statement under the captions "Security Ownership of Certain Beneficial Owners and Management," "Equity-Based Incentive Compensation" and "Additional Information Regarding Executive Compensation."

#### Item 13 — Certain Relationships and Related Transactions and Director Independence

The information required by this Item is included in and incorporated by reference from the Proxy Statement under the captions "Related Person Policies and Transactions" and "Information About the Board of Directors and Corporate Governance Matters."

# Item 14 — Principal Accounting Fees and Services

The information required by this item is included in and incorporated by reference from the Proxy Statement under the caption "Principal Accountant Fees and Services."

With the exception of the information specifically incorporated by reference in Part III to this Annual Report on Form 10-K from the Proxy Statement, the Proxy Statement shall not be deemed to be filed as part of this report.

# PART IV

#### Item 15 — Exhibits and Financial Statement Schedules

#### **Financial Statements**

- (a) The following documents are included as part of this Annual Report on Form 10-K:
  - (1) *Financial Statements*. The financial statements included in Part II, Item 8, "Financial Statements and Supplementary Data," of this Annual Report on Form 10-K.
  - (2) *Financial Statement Schedule.* See Note 4, "Other Financial Information-Allowance for Doubtful Accounts," of the Notes. Schedules not listed have been omitted because information required to be set forth therein is not applicable or is shown in the financial statements or notes thereto.
- (b) Financial Statement Schedules. All financial statement schedules are omitted because they are not applicable, not required, or because the required information is included in the Consolidated Financial Statements, the Notes thereto, or in the Exhibits listed under Item 15(a)(2).
- (c) Exhibits required by Item 601 of Regulation S-K.

Exhibit		Incorporated by Reference			Filed	
Number	Exhibit Description	Form	File No.	Exhibit	Filing Date	Herewith
3.1	Amended and Restated Certificate of Incorporation, dated June 25, 2008, and Certificate of Amendment thereto, dated June 10, 2021.	10-Q	001-34112	3.1	8/6/2021	
3.2	Amended and Restated Bylaws, effective as of April 14, 2021.	8-K	001-34112	3.1	4/16/2021	
4.1	Description of Securities.	10-K	001-34112	4.1	2/24/2022	
10.1*	Form of Indemnification Agreement between the Company and its directors and officers.	S-1/A	333-150007	10.1	5/12/2008	
10.2*	Energy Recovery Inc. Amended and Restated 2008 Equity Incentive Plan.	DEF14A	001-34112	Appendix A	4/27/2012	
10.3*	Energy Recovery, Inc. Change in Control Severance Plan dated March 5, 2012.	8-K	001-34112	10.1	3/9/2012	
10.4*	Energy Recovery, Inc. Annual Incentive Plan effective as of January 1, 2016.	8-K	001-34112	10.1	3/2/2016	
10.5*	Energy Recovery, Inc. 2016 Incentive Plan.	DEF14A	001-34112	Appendix A	4/27/2016	
10.6	Offer Letter to Mr. William Yeung, dated May 27, 2016.	8-K	001-34112	99.1	6/22/2016	
10.7	Lease Agreement, dated as of April 2, 2018, by and between Energy Recovery, Inc. and D/C Doolittle Sub LLC.	8-K	001-34112	10.1	4/18/2018	
10.8	Offer Letter to Mr. Joshua Ballard, as Chief Financial Officer.	8-K	001-34112	2.2	8/15/2018	
10.9	Employment Agreement with Mr. Rodney Clemente.	8-K	001-34112	10.3	8/27/2018	
10.10	Lease Agreement, dated as of January 10, 2019, by and between Energy Recovery, Inc. and FS Clay, LLC.	8-K	001-34112	10.1	1/16/2019	
10.11	Lease Agreement, dated as of February 10, 2020, by and between Energy Recovery, Inc. and Prologis, L.P.	10-Q	001-34112	10.1	5/1/2020	
10.12	Offer of Employment with Mr. Robert Mao, as President and Chief Executive Officer.	8-K/A	001-34112	10.1	5/22/2020	
10.13*	Energy Recovery, Inc. 2020 Incentive Plan.	DEF14A	001-34112	Appendix A	5/29/2020	
10.14	Energy Recovery, Inc. Severance Plan dated as of February 5, 2021	8-K	001-34112	10.1	2/10/2021	
10.15	Credit Agreement by and between Energy Recovery, Inc. as Borrower, and JPMorgan Chase Bank N.A. as Lender dated December 22, 2022.	8-K	001-34112	10.1	1/6/2022	
10.16	First Amendment to the Credit Agreement by and between Energy Recovery, Inc. as Borrower, and JPMorgan Chase Bank N.A. as Lender dated July 15, 2022.	10-Q	001-34112	10.1	8/3/2022	
14.1	Code of Ethics of Energy Recovery, Inc. Additional Conduct and Ethics Policies for the Chief Executive Officer and Senior Financial Officers.	10-K	001-34112	14.1	3/27/2009	
21.1	List of subsidiaries of the Company.					Х
23.1	Consent of Deloitte & Touche LLP, Independent Registered Public Accounting Firm.					Х

Exhibit		Incorporated by Reference			Filed	
Number	Exhibit Description	Form	File No.	Exhibit	Filing Date	Herewith
31.1	Certification of Principal Executive Officer, pursuant to Exchange Act Rule 13a-14(a) or 15d-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.					Х
31.2	Certification of Principal Financial Officer, pursuant to Exchange Act Rule_13a-14(a) or 15d-14(a), as adopted pursuant to Section_302 of the Sarbanes-Oxley Act of 2002.					Х
32.1**	Certification of Principal Executive Officer and Principal Financial Officer, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.					Х
101	Inline XBRL Document Set for the consolidated financial statements and accompanying notes in Part II, Item 8, "Financial Statements and Supplementary Data" of this Annual Report on Form 10-K.					Х
104	Inline XBRL for the cover page of this Annual Report on Form 10-K, included in the Exhibit 101 Inline XBRL Document Set.					Х

\* Indicates management compensatory plan, contract or arrangement.

\*\* The certifications furnished in Exhibits 32.1 are deemed to accompany this Form 10-K and are not deemed "filed" for purposes of Section 18 of the Exchange Act, or otherwise subject to the liability of that section, nor shall they be deemed incorporated by reference into any filing under the Securities Act or the Exchange Act.

# 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, as of the 22<sup>nd</sup> day of February, 2023.

ENERGY RECOVERY, INC.

/s/ ROBERT YU LANG MAO

Robert Yu Lang Mao President and Chief Executive Officer

Pursuant to the requirements of the Securities and 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.

Signature	Title	Date
/s/ ROBERT YU LANG MAO Robert Yu Lang Mao	Chairman of the Board, Director, and President and Chief Executive Officer (Principal Executive Officer)	February 22, 2023
/s/ JOSHUA BALLARD Joshua Ballard	Chief Financial Officer (Principal Financial and Accounting Officer)	February 22, 2023
/s/ ALEXANDER J. BUEHLER Alexander J. Buehler	Director	February 22, 2023
/s/ JOAN K. CHOW Joan K. Chow	Director	February 22, 2023
/s/ SHERIF FODA Sherif Foda	Director	February 22, 2023
/s/ ARVE HANSTVEIT Arve Hanstveit	Director	February 22, 2023
/s/ LISA POLLINA Lisa Pollina	Director	February 22, 2023
/s/ PAMELA TONDREAU Pamela Tondreau	Director	February 22, 2023

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# **About Energy Recovery**

Energy Recovery (NASDAQ: ERII) creates technologies that solve complex challenges for commercial and industrial fluid-flow markets worldwide. Building on our pressure exchanger technology platform, we design and manufacture solutions that make commercial and industrial processes more efficient and sustainable. What began as a game-changing invention for desalination has grown into a global business accelerating the environmental sustainability of customers' operations in multiple industries. Headquartered in the San Francisco Bay Area, Energy Recovery has manufacturing, research and development facilities across California and Texas with sales and on-site technical support available globally. For more information, please visit www.energyrecovery.com.

# **Corporate Headquarters**

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