

REFINITIV

DELTA REPORT

10-K

GNRC - GENERAC HOLDINGS INC.
10-K - DECEMBER 31, 2024 COMPARED TO 10-K - DECEMBER 31, 2023

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TOTAL DELTAS	4360
CHANGES	392
DELETIONS	1969
ADDITIONS	1999

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, 2023** **December 31, 2024**

Or

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

For the transition period from to

Commission File Number 001-34627

GENERAC HOLDINGS INC.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

20-5654756

(IRS Employer Identification No.)

S45 W29290 Hwy 59, Waukesha, WI

(Address of principal executive offices)

53189

(Zip Code)

(262) 544-4811

(Registrant's telephone number, including area code)

SECURITIES REGISTERED PURSUANT TO SECTION 12(b) OF THE ACT:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, \$0.01 par value	GNRC	New York Stock Exchange

SECURITIES REGISTERED PURSUANT TO SECTION 12(g) OF THE ACT: **None**

Indicate by check mark if 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 ☒ No ☐

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 ☒ No ☐

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth 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 Exchange Act). Yes ☐ No ☒

The aggregate market value of the voting common equity held by non-affiliates of the registrant on **June 30, 2023** **June 28, 2024**, the last business day of the registrant's most recently completed second fiscal quarter, was ~~approximately~~ **approximately** **ly** **\$9.08** billion based on the closing price reported for such date on the New York Stock Exchange.

As of **February 16, 2024** **February 14, 2025**, **60,269,310** **59,614,025** ~~share~~**shares** of the registrant's common stock were outstanding.

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the registrant's Annual Report to Stockholders for the year ended **December 31, 2023** **December 31, 2024** furnished to the Securities and Exchange Commission are incorporated by reference into Part II of this Form 10-K. Portions of the registrant's Proxy Statement for the **2024** **2025** Annual Meeting of Stockholders (the "**2024**" **2025** Proxy Statement"), which will be filed by the registrant on or prior to 120 days following the end of the registrant's fiscal year ended **December 31, 2023** **December 31, 2024**, are incorporated by reference into Part III of this Form 10-K.

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Forward-Looking Statements

This annual report contains forward-looking statements that are subject to risks and uncertainties. Forward-looking statements give our current expectations and projections relating to our financial condition, results of operations, plans, objectives, future performance and business. You can identify forward-looking statements by the fact that they do not relate strictly to historical or current facts. These statements may include words such as “anticipate,” “estimate,” “expect,” “forecast,” “project,” “plan,” “intend,” “believe,” “confident,” “may,” “should,” “can have,” “likely,” “future,” “optimistic” and other words and terms of similar meaning in connection with any discussion of the timing or nature of future operating or financial performance or other events.

The forward-looking statements contained in this annual report are based on assumptions that we have made in light of our industry experience and on our perceptions of historical trends, current conditions, expected future developments and other factors we believe are appropriate under the circumstances. As you read and consider this report, you should understand that these statements are not guarantees of performance or results. They involve risks, uncertainties (some of which are beyond our control) and assumptions. Although we believe that these forward-looking statements are based on reasonable assumptions, you should be aware that many factors could affect our actual financial results and cause them to differ materially from those anticipated in the forward-looking statements. The forward-looking statements contained in this annual report include estimates regarding:

- our business, financial and operating results, and future economic performance;
- proposed new product and service offerings; and
- management's goals, expectations and objectives and other similar expressions concerning matters that are not historical facts.

Factors that could affect our actual financial results and cause them to differ materially from those anticipated in the forward-looking statements include:

- fluctuations in cost, availability, and quality of raw materials, key components and labor required to manufacture our products;
- our dependence on a small number of contract manufacturers and component suppliers, including single-source suppliers;
- our ability to protect our intellectual property rights or successfully defend against third party infringement claims;
- increase in product and other liability claims, warranty costs, recalls, or other claims;
- significant legal proceedings, claims, fines, penalties, tax assessments, lawsuits or government investigations;
- [changes in U.S. trade policy, including the imposition of new or increased tariffs;](#)
- our ability to consummate our share repurchase programs;
- our failure or inability to adapt to, or comply with, current or future changes in applicable laws, [regulations](#), and [regulations](#); [product standards](#);
- scrutiny regarding our [ESG sustainability](#) practices;

- our ability to develop and enhance products and gain customer acceptance for our products;
- frequency and duration of power outages impacting demand for our products;
- changes in durable goods spending by consumers and businesses or other macroeconomic conditions, impacting demand for our products;
- our ability to accurately forecast demand for our products and effectively manage inventory levels relative to such forecast;
- our ability to remain competitive;
- our dependence on our dealer and distribution network;
- market reaction to changes in selling prices or mix of products;
- loss of our key management and employees;
- disruptions from labor disputes or organized labor activities;
- our ability to attract and retain employees;
- disruptions in our manufacturing operations;
- **changes in U.S. trade policy;**
- the possibility that the expected synergies, efficiencies and cost savings of our acquisitions, divestitures, restructurings, or realignments will not be realized, or will not be realized within the expected time period;
- risks related to sourcing components in foreign countries;
- compliance with environmental, health and safety laws and regulations;
- government regulation of our products;
- failures or security breaches of our networks, information technology systems, or connected products;
- our ability to make payments on our indebtedness;
- terms of our credit facilities that may restrict our operations;
- our potential need for additional capital to finance our growth or **refinancing** **refinance** our existing credit facilities;
- risks of impairment of the value of our goodwill and other indefinite-lived assets;
- volatility of our stock price; and
- potential tax liabilities.

Should one or more of these risks or uncertainties materialize, or should any of these assumptions prove incorrect, our actual results may vary in material respects from those projected in any forward-looking statements. A detailed discussion of these and other factors that may affect future results is contained in Item 1A of this Annual Report on Form 10-K. Stockholders, potential investors and other readers should consider these factors carefully in evaluating the forward-looking statements.

Any forward-looking statement made by us in this report speaks only as of the date on which it is made. Factors or events that could cause our actual results to differ may emerge from time to time, and it is not possible for us to predict all of them. We undertake no obligation to update any forward-looking statement, whether as a result of new information, future developments or otherwise, except as may be required by law.

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PART I

Item 1. Business

Overview

Founded in 1959, Generac is a leading **global designer, manufacturer, and provider of a wide range of** energy technology **solutions company that solutions.** Generac provides **backup and prime** power generation **products for residential and commercial & industrial (C&I) applications, solar + battery equipment, energy storage systems, energy monitoring & management devices & solutions, and services,** other power products serving the residential, light commercial, and **engine- & battery-powered tools and equipment.** As an **industrial markets.** The Company continues to expand its energy technology **solutions company that is "Powering offerings for homes and businesses in its mission to Power a Smarter World",** our corporate purpose is to **World** and lead the evolution to more resilient, efficient, and sustainable energy **solutions around the world, solutions.**

We have a long history of providing power generation products across a variety of applications, and we maintain one of the leading **market** positions in the **North American market** for power equipment **markets in North America and with** an expanding presence internationally. We believe we have one of the widest ranges of products in the power generation marketplace, including residential, commercial, and industrial standby generators, as well as portable and mobile generators used in a variety of applications. **In recent years,** **the** **The** Company **has been** **is** evolving its product portfolio by building out ecosystems of energy technology products, solutions, and services for homes and **businesses.** **businesses, enabling end users to better manage their energy costs and needs.** As part of this evolution, we have made significant investments into **growing developing** markets such as residential and **C&I commercial & industrial (C&I)** energy storage, solar **module-level** power **electronics (MLPE), inverters,** energy monitoring & management

devices, and electric vehicle (EV) charging. Central to these ecosystems are the Company's next-generation advanced connectivity devices, controls capabilities, and software platforms that facilitate the integration of our products and support the growing utilization of such distributed energy resources (DERs) in into grid services programs. In addition, we have been leveraging our leading position in the growing market for natural gas fueled generators, which we believe represents a cleaner transition fuel compared to diesel, to expand into applications beyond standby power, allowing us to participate in Energy-as-a-Service and multi-purpose microgrid projects for C&I customers. As the traditional centralized utility model evolves over time, we believe that a more decarbonized, digitized, and decentralized grid infrastructure will develop, and Generac's our energy technology solutions are uniquely and strategically positioned to participate in this next-generation grid referred to as "Grid 2.0". grid.

As Given our competitive strengths in our traditional power generation markets, continue we believe we are well-positioned to grow due to execute on the growing opportunity for backup power for homes and businesses, where increased penetration is being driven by multiple mega-trends that are driving increased penetration of our products, we believe we are resulting in an excellent position to execute on this opportunity given our competitive strengths. poorer power quality for end users. In addition, our focus on more resilient, efficient and sustainable energy solutions has dramatically increased our served addressable market, and as a result, we believe that Generac is well positioned for success we can continue to be a leader as energy costs rise and end markets evolve over the long term. time.

Company History

Generac Power Systems, Inc. was founded in 1959 to commercialize a line of affordable portable generators that offered superior performance and features. The Company's Its success through the years has been built upon engineering expertise, manufacturing excellence and our innovative approaches to the market. This has driven our growth into becoming a leading provider of power equipment for a variety of applications within residential, commercial, and industrial markets.

In 1980, the 1980's, we expanded beyond portable generators into the industrial power generation market with the introduction of our first stationary generators that provided up to 200kW of power output. We introduced our first residential standby generator in 1989 and expanded our industrial product offering and global distribution system in the 1990s, 1990's, forming a series of alliances that rapidly increased our sales. Our growth accelerated in the 2000s 2000's as we expanded our purpose-built line of residential and commercial automatic standby generators and implemented our multi-layered, omni-channel distribution philosophy. Throughout the 2000s, 2000's, a number of high-profile power outage events also helped to increase the awareness and need for backup power and home standby generators. In 2006, the our founder of Generac sold the company to affiliates of CCMP Capital Advisors, LLC, together with certain other investors and members of our management. In connection with that transaction, Generac Holdings Inc. was formed as a Delaware holding company. Generac Power Systems, Inc. is a wholly owned subsidiary of Generac Holdings Inc. For ease of reference in explaining the general activities of its related entities in this report, Generac Holdings Inc. includes here the operating activities of its wholly owned subsidiaries. In February 2010, we completed our initial public offering (IPO) of the Company's common stock. Since then, we have scaled our sales & marketing capabilities and systems, while also building the Generac brand into one of the leading names in backup power around the nation.

Soon after going public, we implemented our "Powering Ahead" enterprise strategy. This strategic plan accelerated the Company's transition from primarily a North America focused, emergency backup generator company into a more diversified industrial technology company with the addition of new and adjacent product categories and an expanded global presence, primarily through a series of acquisitions. It is during this time in the 2010's that we formed and built out our International segment, which provided additional capability to expand and increase market share by introducing our broad product offering into local markets around the world.

In 2018, we transitioned to a new enterprise strategy called "Powering Our Future", which drove further share gains in new and existing markets, capitalized on Generac's our leadership in natural gas gensets, established our connectivity strategy, and provided the foundation for the Company's evolution into an energy technology solutions company, including our initial acquisitions within the residential clean energy space. This ultimately led to the introduction of our "Powering A Smarter World" enterprise strategy in 2021. Our current strategic plan continues the evolution of Generac's business model that pairs traditional and emerging renewable power generation, conversion, and storage technologies with new monitoring, management and grid services capabilities to provide solutions for the dynamic challenges presented by today's energy landscape.

Significant Investments in Energy Technology Solutions

We've We have been providing power generation and resiliency solutions for homes and businesses for decades. Leveraging that expertise in power generation, Generac has made significant investments in recent years to expand its capabilities into energy technology solutions, beginning with the March 2019 acquisition of Neurio Technology Inc., a leading energy data company focused on monitoring technology and sophisticated analytics to optimize energy use within a home or business. This was followed by the April 2019 acquisition of Pika Energy Inc. (Pika Energy), a designer and manufacturer of battery storage technologies that capture and store solar or other power sources for homeowners and businesses. In October 2020, the Company acquired Enbala Power Networks Inc., one of the leading providers of distributed energy optimization and control software that helps support the operational stability of the world's power grids. In July 2021, Generac added to its residential clean energy portfolio with the acquisition of Chilicon Power LLC (Chilicon), a designer and provider of grid-interactive rooftop power inversion devices and monitoring solutions for the solar market. Although we do not believe battery storage applications will displace traditional engine driven backup generators used for power resiliency in the short or medium term, our strategy and continued investment in such energy technology solutions will help ensure Generac maintains its leadership as an energy solutions provider as battery technology evolves over time. With these acquisitions, Generac has established a presence in the rapidly developing residential clean energy market, focused on solar and battery storage solutions, as well as grid services platforms and grid-connected solutions. With these investments, we are able to provide another source of power resiliency that can leverage any of complements our product offerings that are capable of being grid-connected. traditional backup power business.

In December 2021, Generac acquired ecobee Inc. (ecobee), a leader in sustainable home technology solutions. In addition to smart home thermostatic controls and other smart home devices, ecobee offers its customers the ability to participate in energy services programs, which allow homeowners to reduce energy consumption and utility bills via intelligent HVAC controls. The acquisition represents a major step forward in the Company's efforts to provide an integrated residential energy ecosystem that includes a sophisticated user interface platform to allow homeowners to take charge of their energy generation, storage, consumption, and management. **We believe By leveraging ecobee's solutions, serving as product and software development expertise to create** the central hub of our residential energy ecosystem, **together with its product and software development expertise we believe ecobee's solutions** will prove to be a differentiator for Generac when combined with our growing suite of energy technology solutions.

In December 2023, Generac made a minority investment in Wallbox N.V. (Wallbox) (NYSE: WBX), a global leader in smart EV charging and energy management solutions. Along with the investment, Generac and Wallbox are **expected to collaborate working together on commercial arrangements** to provide Wallbox's full suite of EV charging solutions to Generac's customers and distribution partners. **Also To further strengthen this relationship, we made an additional minority investment in Wallbox in August 2024.** **Following these acquisitions and investments, we have made considerable organic investments in improving the quality, reliability, and manufacturability of the solutions provided.** **For example,** in 2023, we opened a dedicated engineering center of excellence in Reno, Nevada that **will house currently houses** the development and testing of batteries, switches, power electronics, and other clean energy solutions. **We have also made considerable progress in building out leadership teams and integrating the technical capabilities from our recent acquisitions, which will help drive our energy technology strategic initiatives forward.** The integration of these technologies expands upon our well-established value proposition of providing homeowners with resiliency by also optimizing for cost, convenience, and comfort.

As we look to the future, we expect to make continued investment **in the people, processes, and capabilities involved** in the development of these residential energy technologies, as we work to further broaden our product offering and distribution network. **Additionally, While the favorable policy backdrop back drop for these markets, underscored by the Inflation Reduction Act clean energy market may evolve over time, we believe customer interest and other state regulations, provides the necessary visibility to drive potential long-term, value-creating investments.** demand, as well as government programs and support for such energy technology products, will continue as grid capacity is strained and energy costs rise. With this opportunity in front of us, we plan to build out our residential energy technology capabilities and our suite of products and solutions as we expect to play an important role in the transition to a **cleaner, more sustainable and more** reliable electric grid.

Generac's efforts in expanding its energy technology solutions **cover extend to** C&I and international markets as well. In June 2021, the Company acquired Deep Sea Electronics Limited (**Deep Sea**), a UK-based designer and manufacturer of advanced controls for a range of power generation and other applications used around the world. In September 2021, Generac acquired Off Grid Energy Ltd., a designer and manufacturer of industrial-grade mobile energy storage systems serving predominantly rental markets. The Company advanced its C&I connectivity strategy with the October 2022 acquisition of Blue Pillar, an industrial internet of things (IoT) platform developer that designs, deploys, and manages industrial IoT solutions. Blue Pillar provides a foundation to **build out a connectivity solution for connect, monitor, and manage** our C&I products to further enable their use in grid services programs. In February 2023, Generac acquired REFU Storage Systems GmbH (REFU), a **German-based** developer and supplier of battery storage and inverter hardware products, advanced software, and platform services for the commercial and industrial markets. REFU's energy storage systems will complement and enhance our current global product offerings and **is are** expected to further accelerate our development of new technologies **as we continue to provide our commercial and industrial consumers with leading solutions for their adoption of renewable energy, in the energy technology space.** Additionally, in **2023 Generac launched a series 2024, we strengthened our presence in the emerging North American markets for C&I behind-the-meter energy storage and multi-asset microgrids with the acquisitions of stationary SunGrid's C&I battery energy storage systems for commercial system (BESS) product offering and industrial applications in the North American market** Ageto, a leading provider of microgrid controllers that **will help us advance our capabilities in microgrid projects, seamlessly integrate, optimize and manage distributed energy resources (DERs).** These acquisitions and related organic initiatives **will** collectively help lay the groundwork to further advance our energy technology strategies across C&I markets around the world.

For a complete summary of recent acquisitions, please see Note 1, "Description of Business," to the consolidated financial statements in Item 8 of this Annual Report on Form 10-K.

Products and Solutions

We design, manufacture, and distribute a broad range of energy technology products and solutions. We design and manufacture stationary, portable, and mobile power generators with single-engine outputs ranging between 800W and 3,250kW. We have developed a line of energy storage systems for use in residential solar-plus-storage applications. We also have a line of stationary and mobile energy storage systems that serve global **commercial and industrial C&I** markets. We have a **growing** selection of energy monitoring and management devices **and solutions** that we expect to serve as the central hub or controls platform for our residential and C&I energy ecosystems. We participate in the market for grid services by providing **distributed energy optimization DERs and the software to optimize and control software, those assets to support the grid.** We design and manufacture other power products including light towers and a broad line of outdoor power equipment that we refer to as "chore products", which includes a variety of property maintenance equipment powered by both engines and batteries. We classify our products **and services** into three categories based on similar ranges of power output geared for varying end customer uses: Residential products, C&I products, and **"Other Other products and services". services.** The following summary outlines these categories, including their key attributes and customer applications.

Residential Products

Our residential automatic standby generators range in output from 7.5kW to 150kW, which predominantly operate on natural gas and liquid propane, and are permanently installed with an automatic transfer switch, which we also manufacture. Air-cooled engine residential standby generators range in outputs from 7.5kW to 26kW and serve as an emergency backup for small to medium-sized homes. Liquid-cooled engine generators serve as emergency backup for larger homes and small businesses and range in output from 22kW to 150kW.

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As the product category leader, we believe we have the broadest line of home standby generators in the marketplace. Every home standby generator that we offer is equipped with Mobile Link™. This remote monitoring capability is a standard **WiFi-enabled** feature that allows our customers to check the status of their generator remotely from their smart phone or tablet and also provides the capability to similarly receive maintenance and service alerts. **This remote monitoring information can also be accessed by our dealers to help them monitor their installed base of products and proactively support their customers.** The data that is provided by this remote monitoring functionality also allows us to better understand our **installed base of products in the field**, while optimizing both product quality and customer satisfaction. **In** **We also offer propane tank monitoring solutions, a technology that we acquired in 2021 we expanded our residential connectivity strategy with the acquisition of** **via** Tank Utility Inc. (Tank Utility), an IoT propane tank monitoring solutions company. This **addition provides additional monitoring capability drives further** incremental value to our dealers and peace of mind to owners of our home standby generators that use propane as a fuel source.

Leveraging the technologies acquired in the 2019 acquisition of Pika Energy **and the subsequent organic investments we have made in clean energy**, we have developed a line of **clean energy products residential battery storage systems** marketed under the Generac brand and using the PWRcell™ brand name. **This residential storage solution consists of a system of batteries, an inverter, photovoltaic (PV) optimizers, power electronic controls, and other components.** This system captures and stores electricity from solar panels or other power sources and helps reduce home energy costs while also protecting homes from shorter duration power outages. PWRcell systems can range in size from 9kWh up to 36kWh of storage capacity. In **2022, 2025**, we **launched PWRmanager, expect to launch the second PWRcell 2 Series, the next** generation of our **load management controls, allowing customers PWRcell energy storage system, which includes significant improvements in performance and compatibility as compared to program and remotely control certain loads in a home and thereby manage battery run times from their smart phones or tablets. the first generation.**

In 2021, we acquired ecobee, a leader in sustainable smart home solutions such as smart thermostats and a suite of home monitoring products, all designed with a focus on energy conservation, convenience, peace of mind and comfort. ecobee's smart home energy management devices and complementary sensors intelligently optimize heating and cooling systems, often the largest energy consuming system within a home, to deliver significant energy savings for homeowners. In 2023, ecobee launched a line of smart doorbell cameras, which integrates with ecobee's products and helps to drive increased consumer engagement with their platform. The capabilities acquired via ecobee, **and Tank Utility**, paired with our existing Mobile Link remote monitoring system, provide the foundation for Generac's residential connectivity **strategy, infrastructure**, which will be integral in the continued development of our smart home energy ecosystem.

Importantly, we are leveraging ecobee's technologies and software development expertise to develop a user interface **platform** at the center of our home energy ecosystem that will allow homeowners to monitor and control Generac's entire suite of products using a "single pane of glass". In 2023, we took our first steps towards this goal by successfully integrating our home standby generators and propane tank monitors with the ecobee platform. **Our next-generation clean energy products and solutions, including PWRcell 2 and Wallbox's EV charging solutions, will be fully integrated with the ecobee platform.** We believe the integration of our products and solutions in a single cohesive ecosystem will drive additional peace of mind, **and** energy efficiency, **benefits and ultimately lower utility bills** for homeowners.

This functionality will also help enable connection to **our** grid services distributed energy resource management software (DERMS), **including our in-house solution** called Concerto. All of our residential energy technology products and home standby generators come with grid-connection capabilities, enabling consumers to connect and enroll their **distributed energy resources DERs** in available grid services programs. These **solutions utility-sponsored programs, when and where offered**, can provide **material** value to homeowners in the form of lower utility costs, while also helping **provide** grid operators **retain incremental** capacity to address supply/demand imbalances on the grid.

We continue to develop new Generac-branded energy technology products that we expect to bring to market as we build out a broader energy management ecosystem, giving our distributors access to a more diverse line-up of products that can serve a variety of applications. For example, our **recent** investment in Wallbox **is expected to allow has allowed** us to participate in the rapidly developing home EV charging market by offering co-branded EV charging technologies through our expansive distribution network.

We also provide a broad product line of portable and inverter generators that range in size from 800W to 18kW, as well as multiple portable battery solutions that provide clean, emission-free power at the push of a button. These products can help serve as an emergency home backup source of electricity **on a limited basis**, and **are they can also be** used for construction and recreational purposes. Our portable generators are targeted at homeowners, with price points ranging between the consumer value end of the market through the premium homeowner market; at professional contractors, starting at the value end through the premium contractor segment; and at the recreational market with our inverter generator products, which are quieter than traditional portable generators. In addition, we offer manual transfer switches to supplement our portable generator product offering.

We provide a broad product line of outdoor power equipment referred to as "chore products", which are used in property maintenance applications for larger-acreage residences, commercial properties, municipalities, and farms. These products include trimmers, field and brush mowers, log splitters, stump grinders, chipper shredders, lawn and leaf vacuums,

pressure washers and water pumps. We also offer commercial-grade, battery-powered turf care products through Mean Green Products, our "Mean Green" brand name, which was acquired in 2020. In addition to Generac's efforts to expand Mean Green's production capacity and distribution capabilities, this acquisition will help to accelerate the electrification of our higher-powered lineup of chore products. Chore products are largely sold in North America through direct-to-consumer online catalogs, retail hardware stores, and outdoor power equipment dealers, primarily under the DR® brand name.

Residential products comprised 51.3%, 56.6%, 563.8%, 1.3% and 65.8%, 63.8%, respectively, of total net sales in 2024, 2023, 2022 and 2021, 2022.

Commercial & Industrial Products

We offer a full line of C&I generators that are sold around the world. We are a leader in cleaner-burning natural gas fueled generators and also have a full offering of C&I generators that are fueled by diesel and Bi-Fuel™. We believe we have one of the broadest product offerings in the industry with power outputs ranging from 10kW up to 3,250kW. Through the our Deep Sea acquisition in 2021, subsidiary, we have expanded our capabilities in the design and manufacture of advanced controls for a range of C&I power generation applications, such as microgrids and "beyond standby" configurations, applications. Our natural gas C&I stationary generators have grid-connection capabilities, enabling our customers to generate an incremental return on investment by connecting and enrolling their generator as a distributed energy resource DERs in grid services applications where available.

Our light-commercial standby generators and related transfer switches include a full range of affordable systems from 22kW to 150kW, providing three-phase power sufficient for most small and mid-sized businesses such as grocery stores, convenience stores, restaurants, gas stations, pharmacies, retail banks, small health care facilities and other small-footprint retail applications. Our light-commercial generators predominantly run on natural gas and liquid propane.

We design and manufacture a broad product line of modularized and configured stationary generators and related transfer switches for various industrial standby, continuous-duty, and prime rated applications. Our single-engine industrial generators range in output from 10kW up to 3,250kW, include stationary and containerized packages, and can include our Modular Power Systems (MPS) technology that extends our product range up to much larger multi-megawatt systems through an integrated paralleling configuration. Over the past several years, we have introduced larger and higher-powered gaseous-fueled generators, with the highest output of 1,000kW for a single-engine set. Our industrial standby generators are primarily used as emergency backup for larger applications (such as healthcare, telecom, datacom, commercial office, retail, municipal and manufacturing, markets, to name a few). In recent years, we've focused our efforts to utilize we have seen interest in utilizing our gaseous-fueled generators in "beyond standby" applications including distributed generation and microgrid projects and have developed purpose-built products for these applications that have grid-connected capability. This grid-connected functionality and the significant expansion of our in-house advanced controls capabilities further enhances the potential utilization of opportunity for our generators to be used in these applications.

Our MPS technology combines the power of several smaller generators to produce the output of a larger generator, providing our customers with redundancy and scalability in a cost-effective manner. For larger industrial applications, our MPS products offer customers an efficient, affordable way to scale their standby power needs, while offering superior reliability given their built-in redundancy which allows individual units to be taken off-line for routine maintenance while retaining coverage for critical circuits.

We also offer a full line of industrial transfer switches to meet varying needs from light commercial applications all the way up to the most demanding mission-critical installations. In recent years, we have significantly increased and upgraded our industrial transfer switch product offering, which we believe will help to enhance our attachment rate and related market share for these products. Generac's innovative feature set and flexible platforms offer a variety of switching configurations to meet almost any project needs.

We also design and manufacture a broad product line of C&I mobile products such as light towers and mobile generators, which provide temporary lighting and power for various end markets around the world (such as road and commercial construction, energy, mining, military, and special events). We also offer commercial mobile pumps, heaters, and dust-suppression equipment for a wide variety of applications. All of our Our mobile products are typically sold globally to national and regional rental companies who then rent the equipment to the end user.

We have continued to expand our portfolio of energy technology solutions for C&I applications, applications as well. In 2021, we acquired Off Grid Energy, a European based manufacturer of mobile energy storage systems predominantly used in the rental markets. In 2023, we acquired REFU, a European based provider of stationary energy storage systems C&I BESS solutions and related inverter products. We also organically introduced a line of larger stationary battery energy storage systems for products, which expanded our product offering to enter certain C&I applications BESS markets around the world. In 2024, we strengthened our position in the North American market. C&I BESS market with the acquisitions of SunGrid's C&I BESS product offering and Ageto, a leading provider of microgrid controllers that seamlessly integrate, optimize and manage DERs. We believe these collective product offerings will enable us to capture market share of in the rapidly expanding Battery Energy Storage System (or BESS) market developing markets for C&I BESS and multi-asset microgrids in the future. North America.

Our C&I BESS solutions are primarily targeted at "behind-the-meter" applications for on-site energy storage. We expect to leverage our leading position as a provider of traditional stationary generators to gain share in the global C&I BESS market. This expertise is particularly beneficial for multi-asset microgrid solutions that combine generators with energy storage assets, providing the many benefits of behind-the-meter storage with longer duration outage protection. These microgrids can include other energy assets such as commercial EV charging capabilities, which we are now able to offer via our partnership with Wallbox.

We also continue to develop other energy technology products, such as including mobile battery-powered light towers as well as and hybrid mobile solutions that pair a battery with a diesel engine to reduce emissions and noise pollution. In addition, we continue to provide various gaseous-engine control systems and accessories, which are used in our natural gas generators, as well as sold to other gas-engine manufacturers and aftermarket customers.

C&I products comprised 37.2% 32.3%, 3 27.6% 7.2% and 26.7% 27.6%, respectively, of total net sales in 2024, 2023 2022 and 2021, 2022.

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Other Products and Services

Our "Other products and services" category primarily consists of aftermarket service parts and product accessories sold to our customers, installation and maintenance services, extended warranty revenue, grid services and other software-related subscription revenue, remote monitoring subscription revenue, and other project management service offerings provided by our owned industrial distributors.

Included in this "Other products and services" category are energy services certain revenues that are generated by ecobee, Blue Pillar, Ageto, and our Concerto and Mobile Link software platform. The Concerto energy-balancing software platform provides a highly flexible approach for controlling and dispatching distributed energy resources from flexible loads, backup generators, energy storage systems, and other renewable energy sources, and gives utilities and grid operators the flexibility to operate virtual power plants in real-time to better manage the escalating complexities of the future electrical grid. These capabilities are broadly referred to platforms, as grid services, follows:

The acquisition of ecobee further enhanced our efforts in grid services. In addition to their product sales, ecobee also recognizes service revenue in certain circumstances when a homeowner enrolls their smart thermostat in a grid services program offered by their utility. ecobee can provide utilities direct connection to a homeowner's smart thermostat, thereby allowing control of a significant portion of the home's electrical load. In exchange for this capability, utilities pay ecobee for that connection.

The 2022 acquisition of Blue Pillar expanded our C&I connectivity capabilities and provided a standard protocol for all of our C&I products to be connected to our Concerto platform. connected. In addition to connectivity device sales, Blue Pillar recognizes software subscription and support revenue resulting from the monitoring and management capabilities its platform provides to customers.

The 2024 acquisition of Ageto further enhanced our advanced control capabilities, particularly in the C&I BESS and multi-asset microgrid markets. In addition to its controls hardware, Ageto's solutions include software-as-a-service contracts for site level system integration and control of end customer energy assets that make up a microgrid. Our Concerto energy-balancing software platform provides a highly flexible approach for controlling and dispatching DERs from flexible loads, backup generators, energy storage systems, and other renewable energy sources. Concerto gives utilities and grid operators the flexibility to operate virtual power plants in real-time to better manage the escalating complexities of the future electrical grid.

Finally, our Mobile Link platform provides remote monitoring services for our residential home standby customers and "Fleet" services for our residential home standby dealers, whereby we collect subscription revenue for these services on a recurring basis.

"Other products and services" comprised 11.5% 11.1%, 8 11.5%.6% and 7.5% 8.6%, respectively, of total net sales in 2024, 2023 2022 and 2021, 2022.

Mega-Trends, Strategic Growth Themes, and Additional Business Drivers

In 2021, we unveiled our "Powering A Smarter World" strategic plan, which serves as the framework for the significant investments we have made and will continue to make to capitalize on the long-term growth prospects of Generac. Our enterprise strategy is based on the combination of several key mega-trends that we believe will drive several a number of significant strategic growth themes for our business.

Key Mega-Trends:

- "Grid 2.0": which is the evolution of the traditional electrical utility model as the increasing reliance on intermittent renewable generation sources and the electrification of everything are leading Lower power quality continuing to supply/ drive demand imbalances and rising electricity costs, driving the migration towards distributed energy resources and decarbonization, digitization, and decentralization of the grid. for backup power solutions:

- **Impact of climate change:** More frequent severe and volatile weather driving impacting an aging grid, causing increased power outage activity, and more global regulation accelerating renewable investments, activity, which includes the expectation of more o
- o Increasing deployment of intermittent generation sources coupled with accelerating electricity demand trends driving supply/demand imbalances for utilities and grid operators.
- Higher power prices driving the need for energy management solutions:
 - o Electrification trends causing power demand to exceed supply, driving up power prices.
 - o Investment required to upgrade grid infrastructure and transition to renewable power sources, pushing prices higher.
- Artificial intelligence adoption accelerating, creating a large market opportunity for backup power:
 - o Significant power requirements for the buildout of data centers to enable AI adoption could drive further grid instability.
 - o Acceleration in the number of hyperscale and edge data centers that require significant backup power.
- Growing demand for cleaner burning fuels:
 - o Natural gas and other alternative fuels are vital to the energy transition.
 - o Demand for natural gas-fueled backup generators growing as homes and businesses desire cleaner-burning fuel sources of generation.
- Required investment in global infrastructure, driving demand for our products:
 - o Upgrading of aging and underinvested legacy infrastructure systems, such as power, telecommunications, transportation, and water.
 - o Expanding investment for increasingly critical technology infrastructure as we transition to a more "connected" society.
- Home as a Sanctuary: which includes the trend Sanctuary, driving increased demand for resiliency solutions that provide peace of the increasing mind:
 - o Increasing importance of the home – including with more people working from home and aging in place – is leading to increasing sensitivity to power outages and need place.
 - o Growing market for peace of mind, combined with the more intelligent and connected home and desire for homes that can provide improved energy resiliency and efficiency.
- **Emergence of cleaner alternative fuels:** natural gas, and other alternative fuels, are important elements in the transition to a lower-carbon global energy supply.
- **Growing investment in global infrastructure creating new opportunities:** Upgrading of aging and underinvested legacy systems including transportation, power, healthcare and elderly care; along with expanding investment for increasingly critical technology infrastructure including data centers, telecom and EV charging.

Strategic Growth Themes:

Power quality issues continue to increase. Power disruptions are an important driver of consumer awareness for back-up backup power and have historically influenced demand for generators both in the United States and internationally. Increased frequency and duration of major power outage events, that have a broader impact beyond a localized level, increases product awareness and may drive consumers to accelerate their purchase of a standby or portable generator during the immediate and subsequent period, which we believe may last for six to twelve months following a major outage event. Energy storage systems offer similar resiliency advantages to consumers and can benefit from these same awareness drivers, at least for short duration power outages. The optional standby market for C&I power generation is also driven by power quality issues and the related need for backup power. Attitudes around The impact of climate change have shifted and undergone has received increased global focus in recent years, and an aging and underinvested electrical grid infrastructure remains highly vulnerable to the expectation of more severe and volatile weather. Additionally, rapid growth in renewable power sources such as solar and wind is resulting in increased intermittency of supply as more traditional thermal generation assets are retired, further impairing the reliable supply of electricity at a electricity. At the same time, when power demand is starting expected to increase meaningfully with accelerate as a result of the rapid adoption of artificial intelligence and related data center energy requirements, the re-industrialization of North America, and the electrification of a wide range of consumer and commercial products, including transportation, HVAC systems, and other major appliances. These developments are causing a growing supply/demand imbalance imbalances for grid operators across North America, which has led to high-profile examples of rolling blackouts and calls for utility customers to reduce consumption to maintain grid integrity. In fact, the North American Electric Reliability Corporation has labeled significant portions of the United States and Canada as being at high or elevated risk of resource adequacy shortfalls during normal seasonal peak conditions in the 2024-2028 2025-2029 period due in part to these supply/demand dynamics. We are seeing increasing evidence that warnings of potential resource inadequacies are driving incremental consumer awareness of the need for backup power solutions. We believe utility supply shortfalls and related warnings may continue in the future, further expanding awareness resulting in continued deterioration of deteriorating power quality in North America. Finally, certain utilities are adopting preventative power shutoff policies to reduce the risk of wildfires caused by their electrical distribution equipment, predominately in the western half of the country. Taken together, we expect these factors to continue driving increased awareness of the need for backup power and demand for Generac's products within multiple categories.

Home standby penetration opportunity is significant. Many potential customers are still not aware of the costs and benefits of automatic backup power solutions. With only approximately 6.25% 6.5% penetration of the addressable market of homes in the United States (which we define as single-family detached, owner-occupied households with a home value of over \$150,000, \$175,000, as defined by the U.S. Census Bureau's 2021 2023 American Housing Survey for the United States), we believe there are significant opportunities to further penetrate the residential standby generator market both domestically and internationally. We In addition to the mega-trends supporting growth of the category,

we believe by expanding and developing our distribution network, continuing to develop invest in our product lines and technologies, and targeting our marketing efforts, we can continue to build awareness and increase penetration for our home standby generators.

Solar, storage, and energy management markets are developing quickly continue to develop. We believe the electric utility landscape will undergo significant changes in the decade ahead due to rising utility rates, accelerating demand growth, grid instability and power quality issues, environmental concerns, and the continuing performance and cost improvements in renewable energy and energy storage technologies. On-site Importantly, we expect that a confluence of factors will continue to drive meaningful increases in power prices for end users in the future. As a result, on-site power generation from renewable sources and cleaner-burning natural gas generators are projected to become more prevalent as will the need to monitor, manage, and store this power – potentially developing into a significant market opportunity, opportunity as utility customers seek alternative solutions to combat rising power prices. In addition, battery storage provides customers another source of power resiliency for shorter duration outages. Additionally, these markets are receiving an increasing level of regulatory and legislative support, most notably from the Inflation Reduction Act that was passed in 2022. This legislation includes currently being supported by significant subsidies and investment tax credits for consumers and businesses over to help advance the coming decade, as well as adoption of clean energy technologies. Further, production tax credits for are being offered to businesses that meet certain domestic manufacturing requirements in the production of renewable energy products. We While the expected duration of these subsidies and tax credits may change, we believe this legislative support will the overall mega-trends that are driving the solar, storage, and energy management markets currently provide necessary opportunity sufficient incentive for long-term, value-creating investments for market participants in this space. We Given the significant market opportunity ahead of us, we expect to further advance our capabilities in energy technology by increasing our product development, sourcing, distribution, and marketing efforts. In addition, we should be able plan to leverage our significant competencies in the residential standby generator market to build our market position in the emerging residential solar, storage, and energy management markets.

Energy-as-a-Service models, “beyond standby” Emerging applications and energy services business models utilizing our solutions open new market opportunities. We expect the evolution of the traditional electrical utility model toward decarbonized, digitized, and decentralized solutions will continue to drive the need create new market opportunities for our products. We believe that we can participate in this future electrical grid operators to access in a bigger way by utilizing our products and control DERs. solutions as DERs by grid operators. This will require highly intelligent software platforms that are able to optimize an increasingly complex supply and demand equation at both the individual site and grid level, such as our Concerto DERMS software platform. software. Our residential and C&I connectivity, controls, and energy management capabilities will also enable new recurring revenue opportunities as grid services programs continue to build out over time. Additionally, we believe that growing interest in our C&I products across a variety of generator and BESS solutions that can be deployed in multi-asset microgrid and “beyond standby” applications is driving an increase in demand for subscription-like models for end customers, in which Generac will partner with third parties continue to deliver resiliency solutions that are also able to contribute to grid stability with minimal upfront capital outlays. We also believe that we can gain share emerge and create incremental market opportunities in the C&I “behind the meter” energy storage market, including microgrid applications that require advanced system-level controls, future. The significant advancements made in recent years in the connectivity of our products are core to these newer capabilities, which play have played a key role in the evolution of Generac into an energy technology solutions company.

Natural gas generators, a continuing growth opportunity. We believe natural gas will continue to be an important and cleaner transition fuel of the future, in comparison compared to diesel, as the world continues to shift towards lower emission power generation sources. Demand for natural gas generators continues to represent an increasing portion of the overall C&I market, which we believe will continue as the benefits of natural gas power generation are very compelling relative to grow at a faster rate than traditional diesel fueled generators. We also continue to explore and expand our capabilities within new gaseous generator market opportunities, including continuous-duty, prime rated, distributed generation, demand response, microgrids, and overall use as a distributed energy resource DERs in areas where grid stability is needed. Many of these applications are made possible by our natural gas generators having the capability to participate in available grid services programs, helping to offset the purchase price of the equipment over the product's lifespan. Expanding our natural gas product offering into larger power nodes is also a part of this growth theme in taking advantage of the continuing shift from diesel to natural gas generators. As a leader in natural gas power generation, we believe we are well positioned to capitalize on this strategic growth theme.

Increasingly critical nature and growing power consumption of digital infrastructure. As the number of “connected” devices continues to rapidly increase and wireless networks are considered critical infrastructure in the United States, network reliability and up-time are necessary for our increasingly connected society. This will require highly resilient cell tower sites across the network, and therefore necessitates the need for backup power sources on site at these cell towers. Generac is the leading supplier of backup power to the telecommunications market in the United States, where approximately half of all existing tower sites have yet to be hardened with backup power, States. As more mission-critical data is transmitted over wireless networks, we believe this the penetration rate of backup generators on cell towers must increase considerably to maintain a higher level of reliability across the network. We have relationships with key Tier 1 carriers and tower companies globally, in addition to having the distribution partners to provide local service support to the global market. We believe these factors coupled with Generac's ability to customize solutions to each customer's needs help us to maintain our strength within the global telecommunications market.

Additionally, the rapid increase in data centers is driving increased demand for backup power solutions, given the critical nature of this infrastructure. AI requirements, hyperscalers, and the expansion of edge computing and “connected devices” are expected to double quadruple US data center power energy consumption from 2022 2023 to 2030, 2030, according to certain market forecasts. We believe this significant growth in power consumption as well as the increasing dependency of society on this next-generation digital infrastructure, will drive demand for backup power and intelligent energy management solutions both at the for individual site level and for data center locations, the broader electrical grid, grid, and other grid participants.

Other Business Drivers

Impact of residential investment cycle. The market for a number of our residential products is affected by the residential investment cycle and overall consumer confidence and sentiment. When homeowners are confident of their household income, the value of their home and overall net worth, they are more likely to invest in their home. These trends can have an impact on demand for residential generators, energy storage systems, and energy management devices. Trends in **interest rates** and the new housing market, highlighted by residential housing starts, can also impact demand for these products. Demand for outdoor power equipment is also impacted by several of these factors, as well as weather patterns. The existence of renewable energy mandates, investment tax credits, and other subsidies **which have become even more prevalent with the passing of the Inflation Reduction Act**, can also have an impact on the demand for solar and energy storage systems.

Impact of business capital investment and other economic cycles. The global market for our C&I products is affected by different capital investment cycles, which can vary widely across the different regions and markets that we serve. These cycles include non-residential building construction, durable goods and infrastructure spending, as well as investments in the exploration and production of oil & gas, as businesses or organizations either add new locations or make investments to upgrade existing locations or equipment. These trends and market conditions can have a material impact on demand for our products. The capital investment cycle may differ for the various C&I end markets that we serve, including light commercial, retail, office, telecommunications, rental, industrial, data centers, healthcare, construction, oil & gas and municipal infrastructure, among others. The market for these products is also affected by general economic conditions, fluctuations in interest rates, and geopolitical matters in the various countries where we serve, as well as credit availability in those regions.

Enterprise Strategy

The mega-trends and strategic growth themes that we have identified support our enterprise strategy, "Powering A Smarter World," and our purpose statement, "To lead the evolution to more resilient, efficient, and sustainable energy solutions." As we continue to execute our strategic plan into the future, we are focused on three key objectives: (i) improve energy resilience and independence, (ii) optimize energy efficiency and consumption, and (iii) protect and build critical infrastructure. These objectives are further explained as follows:

Improve energy resilience and independence. Increase power reliability through onsite generation and storage solutions that provide resiliency for homes, businesses and communities.

Homes, businesses, and communities are experiencing a deterioration in the reliable supply of electricity due to a number of factors including: climate change impacts driving more severe and volatile weather leading to increased power outages; a capacity constrained legacy power infrastructure that's still predominantly a one-way **system and remains heavily reliant on fossil fuels; the system**; power infrastructure being impaired by underinvestment making it more susceptible to power outages; **and regulatory and legislative actions implementing penalties for focused on** carbon intensity, coupled with incentives for adoption of more intermittent renewable power **sources. sources; and a dramatic increase in** power demand that could outpace supply growth due to electrification trends, accelerating power demands of data centers and artificial intelligence, and the re-industrialization of North America. **We have one of the broadest product offerings that we believe can directly address these challenges for homes and businesses.** Our residential and C&I product offering begins with **power generation and storage products including home emergency standby generators that can be supplemented with portable and mobile power generators.** **We have also built out an offering of battery energy storage systems for behind-the-meter residential and C&I generators, applications.** These onsite generation and storage solutions provide peace of mind and protection against rising power quality issues by delivering energy resilience and independence for end users and their communities. Many of these onsite solutions are capable of being connected to the grid and can help support overall grid reliability, resiliency and **sustainability. sustainability when enrolled in utility grid services programs.**

Optimize energy efficiency and consumption. Enable sustainable and more efficient power generation and consumption through monitoring, management and lower-carbon solutions.

The "electrification of everything" is Multiple entrenched trends are expected to drive **increasing accelerated demand growth** for electricity **over in the next several years; including the** electrification of transportation, via both electric vehicle adoption and expanding charging infrastructure; **the electrification of the home, including HVAC systems and other appliances; and the electrification of commercial and industrial systems. coming years.** These **global electrification power demand** trends will require utilities and energy retailers to meaningfully increase the supply and reliability of electricity, while at the same time working to achieve carbon-reduction goals, which is expected to further contribute to **a** supply/demand **imbalance imbalances** for power. Additionally, **the combination of accelerating demand growth with significant investments in maintaining, upgrading, and additional decarbonizing the power quality issues.** grid is likely to cause meaningful increases in the price of electricity, ultimately driving home and business owners to adopt **solutions to offset the impact of rising costs.** As part of our expanding ecosystems of energy technology solutions, we continue to build out our residential **monitoring and energy** management capabilities, which improve energy efficiency and optimize consumption **by for** end users. This includes **ecobee's ecobee** smart home energy management devices, **Tank Utility's** propane tank monitoring solutions, **Wallbox EV charging equipment, and PWRmanager,** other load management devices. Our battery storage solutions for both residential and C&I applications allow end users to store power that is often generated on-site to optimize the timing of consumption. With this capability, home and business owners can discharge power from their battery at times when utility rates are at their highest, thereby saving money on their utility bills. Battery storage systems, along with smart thermostats and other DERs, can also participate in grid services programs, helping to enhance the efficiency of the broader electrical grid.

We continue to build out our second-generation load control device. We expect to further simplify and integrate our residential product offering into a single ecosystem, system level controls by leveraging our deep software development capabilities brought on by various acquisitions. These controls enable the ecobee acquisition. This singular system-level platform monitoring and management that is intended to serve as the central hub and user interface for consumers to monitor and manage all their DERs, thereby empowering the user necessary to optimize energy efficiency and consumption. Within For our global residential products, we are developing a common platform and user interface to bring all of our residential products into a single ecosystem. Using ecobee as the central hub and MobileLink as our connectivity platform, we are able to link all of our installed residential products together for a seamless consumer experience to monitor, manage, and control their energy generation, storage, and consumption. For our C&I products, we are developing a similar ecosystem of controls that are building off Deep Sea's system-level industrial controls, and Blue Pillar's industrial IoT network solutions, and Ageto's multi-asset microgrid control technology, helping businesses to better optimize their energy efficiency and consumption. These enhanced connectivity control capabilities provide the foundation for the continued build out of a centralized common system-level platform for our C&I customers to monitor, manage, and control all of their DERs, including non-Generac assets, assets as well.

Protect and build critical infrastructure. Offering innovative solutions that enable and protect next-generation power, communications, telecommunications, transportation, water, and other critical infrastructure.

The critical power infrastructure around the world is becoming more sensitive to the growing electricity supply/demand imbalance, imbalances. Generac's suite of products can be connected and synchronized within the DERMS platforms, such as our Concerto distributed energy resource management system, offering, providing utilities and grid operators the flexibility to access and control these DERs in real-time to better manage the escalating complexities of their electrical grids. When utilized in these applications, our residential and C&I products essentially provide power capacity to utilities and grid operators in the form of a virtual power plant. We believe the next generation of critical power infrastructure will be more decarbonized, digitized and decentralized, and we view the aggregation and management of distributed energy resources DERs as an important aspect in creating supplementing the future "Grid 2.0", next generation grid.

Additionally, As society becomes more "connected" and more mission-critical data travels over wireless networks, reliability and uptime of this telecommunications equipment will be essential to maintain our way of life. As a leader in providing backup power generators for wireless cell towers around the growing power demands world, we believe we can play an important role in helping to protect and increasingly build this critical nature of infrastructure. In addition, we believe that data centers will be considered critical infrastructure as more data will be accessed from the "cloud" and 5G telecom networks globally makes artificial intelligence becomes more ubiquitous in our everyday lives. As a result, backup power solutions essential will be important elements for creating resilient of this next-generation infrastructure. Finally, our infrastructure in order to make them more resilient. Our broad offering of C&I mobile products (including mobile light towers, mobile power generators, mobile energy storage systems and hybrid generators) play a key role in the completion of infrastructure construction projects, such as roads, highways, bridges, and airports. Finally, our products are also commonly used to provide standby power to other critical infrastructure such as water and wastewater systems and other municipal infrastructure, as well as healthcare facilities that are vital for a safe and healthy society.

See "Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations – Business Drivers and Operational Factors" of this Annual Report on Form 10-K for additional drivers that influence demand for our products and other factors affecting the markets that we serve.

Distribution Channels and CustomersCustomers

We distribute our products through a variety of different distribution channels to increase awareness of our product categories and brands, and to ensure our products reach a broad, global customer base. This omni-channel distribution network includes independent residential dealers and contractors, industrial distributors and dealers, national and regional retailers, e-commerce partners, electrical/HVAC/solar wholesalers, solar installers, catalogs, equipment rental companies, and other equipment distributors. We also sell direct to certain national and regional account customers, as well as to individual consumers or businesses who are the end users of our products.

We believe our global distribution network is a competitive advantage that has strengthened over the years as a result of adding, expanding we continue to add, expand and developing develop the various distribution channels through which we sell our products. We offer a broad set of tools, programs, factory support, and sales leads to help our distribution partners be successful. Our network is well balanced with no single customer providing more than 4% 5% of our our net sales in 2023, 2024.

We have the industry's largest network of factory direct independent generator dealers in North America. Our residential dealer network is made up of electrical and HVAC contractors across the US and Canada. These dealers sell, install and service our residential and light commercial generators to end users. Over the years, we have made significant investments to grow this dealer network, and we will continue to make those investments in the future given the importance of this channel. We continue to focus on a variety of initiatives to more effectively market and sell our home standby products and better align our dealer network with Generac. These initiatives have helped We will continue our efforts to improve customer lead quality, nurture those leads, and develop our dealers, thereby all with a goal of increasing close rates and lowering our cost per lead over time. Over the years, we have made significant investments in our "Power Play" guided sales process proprietary in-home selling system for residential dealers that we call "Power Play". We are continuously making enhancements in several areas targeted to improve this platform, again with the objective of improving the customer experience and overall close rates. Additionally, our remote monitoring platform allows our residential generator dealers to monitor their installed base of customers through a feature that we call "Fleet", enabling them to offer a more proactive experience to service a customer's generator. By offering the best product line, pricing, marketing, tools, programs, and customer support, we believe we have built the strongest dealer network in the home standby generator industry.

In recent years, we have been establishing our a base of solar contractors that sell, install and service our PWRcell energy storage systems. Leveraging our decades of expertise in partnering with our residential generator dealers, we believe we can expand our solar installer network and increase mindshare for Generac's products, helping us to win in the clean energy market. market in the future. In addition, we have been developing distribution relationships with national solar providers to offer our equipment in their portfolio of products and services. As we continue to roll-out launch new clean energy products in the future, we expect to accelerate our efforts to expand distribution for these products. in this market.

Our industrial products distribution network consists of industrial power generation distributors that cover particular regions around the world. Over the past several years, we have been strengthening our industrial dealer network globally through acquisitions and organic means, to increase our C&I product sales and related market share. Additionally, since Since 2020, we have acquired a number of our industrial distributors in northern and southern California and New England to give us direct coverage of the west coast and northeast those regions of in the United States and accelerate our efforts in these those markets. Industrial distributors and dealers provide C&I end users with ongoing sales, installation, service and product support. Our industrial distributors and dealers help maintain the local relationships with commercial electrical contractors, specifying engineers, and national account regional buying offices. We also sell to certain Engineering, Procurement and Construction (EPC) EPC companies and other companies that specialize in managing more complex power generation projects, including microgrids and "beyond standby" applications.

Our retail distribution channel includes thousands of locations across the globe and includes a variety of regional national and national regional home improvement chains, electronics retailers, clubs, buying groups, hardware & farm supply stores, and farm supply stores, outdoor power equipment dealers. These physical retail locations are supplemented by a large presence of e-commerce retailers, along with a number of catalog retailers. The retail channel primarily sells our residential standby, portable and light-commercial generators, as well as our outdoor power equipment and ecobee smart home energy management devices. The placement of our products at retail locations drives significant awareness for our brands and the automatic home standby generator product category.

Our wholesaler wholesale network distributes our residential and light-commercial generators, residential energy storage systems, and smart home energy management devices. devices on a two-step basis. The channel consists of selling branches of both national and local distribution houses for electrical, HVAC and solar products equipment on a wholesale basis, which in turn typically sell to electricians and HVAC/solar installers who are not in our dealer network. As part of our efforts to increase sales & installation bandwidth for home standby generators, we have established an Aligned Contractor Program that provides certain benefits to contractors that purchase our products through the wholesale network and agree to participate in enhanced training sessions. We believe that this program will further align Generac with these independent contractors which is important during surge periods of demand in local markets.

On a selective basis, we have established private label and licensing arrangements with third party partners to provide residential, light-commercial and industrial generators under different brand names. These partners include leading home equipment, electrical equipment and construction machinery companies, each of which provides access to incremental channels of distribution for our products. Additionally, our ecobee products are also sold through HVAC OEMs on a co-branded basis.

The distribution for our C&I mobile products includes international, global, national, regional, and specialty equipment rental companies, equipment distributors, and construction companies which primarily serve non-residential building construction, road construction, energy markets and special events.

We also sell direct to certain customers that are the end users of our products covering a number variety of end market verticals both domestically and around the world. This includes telecommunication, retail, data centers, banking, energy, utilities, healthcare, convenience stores, grocery stores, restaurants, governments, and other commercial applications. We have developed a diverse, global sales force that calls on these opportunities directly and helps customize solutions to each customer's needs in their local markets. Additionally, certain of our residential products are sold direct to individual consumers, who are the end users of the product. In the grid services space, we sell software and equipment direct to utilities and grid operators.

Research and DevelopmentDevelopment

Our focus on a broad range of energy technology products and solutions drives technological innovation, advanced engineering & software development capabilities, and specialized manufacturing competencies. Research and development (R&D) has been a core competency for Generac since our inception, and today includes a staff of over 1,000 approximately 1,250 engineers working on numerous projects at various facilities around the world, including our technology centers located in Wisconsin, Nevada, Massachusetts, Suzhou, China, and Mexico City, Mexico, world. These activities are focused on new product introductions, developing new technologies and product enhancements, as well as maintaining product competitiveness by reducing manufacturing costs, improving safety characteristics, and increasing reliability and performance, while ensuring compliance with regulatory standards. We have significant experience using natural gas engines and have developed specific expertise with fuel systems and emissions technology. In the residential and light commercial markets, we have developed proprietary engines, cooling packages, controls, fuel systems, and emissions systems. systems which help drive innovation while also enhancing the margin profile of those products.

We More recently, we have made several acquisitions in recent years that significantly enhanced our R&D capabilities. This includes substantial technical resources in energy also built out specific expertise around battery storage monitoring, systems and power conversion for residential applications, that we plan to leverage as well as in the C&I we expand into clean energy storage and generator controls spaces. These resources add proficiency in power electronics and battery management software, and markets. In addition, we have also added considerable expertise in designing and prototyping energy efficiency products. We have significantly increased our software development capabilities across a

variety of applications, including energy management, system-level microgrid controls, remote monitoring, and distributed energy resource management systems. Combining advanced software development with the expansion of our electrical broad engineering resources is expected capabilities will enable us to create common ecosystems for our residential and C&I products, helping us to accelerate our energy technology efforts.

We also have engineering and product management resources focused on evaluating and developing alternative technologies that are emerging and could become commercially viable over the long term long-term, such as fuel cells and hydrogen. We have a long history of driving product innovation into the markets that we serve. As we continue to evaluate develop new products and technologies that are more decarbonized, digitized, and decentralized, we believe that we can maintain our expertise in leadership position as an energy technology solutions provides us with the capability to develop new products and services that will allow continued diversification and differentiation in our end markets. provider.

Intellectual PropertyIntellectual Property

We are committed to research, development, and development, product innovation, and we rely on a combination of patents and trademarks to help establish and protect our proprietary rights. Our patents protect certain features and technologies we have developed for use in our products including fuel systems, air flow, electronics and controls, noise reduction, air-cooled engines, energy management, energy monitoring, energy storage, and load management. We believe the existence of these patents and trademarks, along with our ongoing processes to register additional patents and trademarks, help protect our intellectual property rights and enhance our brands and competitive position. We also use proprietary manufacturing processes that require customized equipment. With our continuous focus on research and development, we expect to develop new intellectual property on an ongoing basis.

See "Item 1A. Risk Factors" of this Annual Report on Form 10-K for additional factors related to intellectual property rights that can affect our business.

Manufacturing

We operate numerous manufacturing plants, distribution facilities and inventory warehouses located throughout the world. We also store finished goods at third-party logistics providers in the United States that accommodate material storage and rapid response requirements of our customers. See "Item 2 – Properties" of this Annual Report on Form 10-K for additional details regarding the locations and activities of our principal operations.

Over the last few decades, we have developed significant manufacturing capability in the power generation industry, including engines, alternators, sheet metal fabrication, and controls. We have a heavy focus on vertical integration for certain proprietary manufacturing processes, and outsource certain components and complete products where we can leverage scale to optimize cost and quality. In recent years, we have added and continue to add manufacturing capacity through investments in automation, improved utilization, and the expansion ofwhile also expanding our manufacturing footprint through organic means as well as through acquisitions. In 2023, we announced plans to build a new manufacturing facility in Beaver Dam, Wisconsin that will expand our production capacity and increase our vertical integration capabilities for certain C&I product lines. Our ability to rapidly increase capacity has been critical to executing our strategic growth priorities. We believe our vertical integration and scale in home standby generators provides a material benefit in our ability to maintain industry-leading output with state-of-the-art manufacturing processes, especially when demand for our products can increase rapidly with very short notice. growth.

For our energy technology products, our engineering and technical teams are closely aligned with our contract manufacturing partners in order to leverage their expertise and capital investments involving electrical component manufacturing.

Suppliers of Raw Materials, Materials, Components and Equipment

Our primary raw material inputs are steel, copper and aluminum, all of which are purchased from third parties and, in many cases, as part of machined or manufactured components. In certain instances, we purchase complete equipment or systems from third-party suppliers, including from contract manufacturers. Given our increasing focus on energy technology solutions, advanced electronic components and micro-processors have become a larger consideration within our supply chain. Within the clean energy market, batteries are a significant supply chain input for our energy storage systems. Over multiple decades, we have developed an extensive network of reliable suppliers in the United States and around the world. We continuously evaluate the quality and cost structure of our purchased components and & equipment and assess the capabilities and capacity of our supply chain. Components and equipment are sourced accordinglyWe select our sourcing partners based on this evaluation. For certain products, we do not have internal manufacturing capabilities and rely upon a small number of contract manufacturers to build these products or supply these components, including but not limited to certain energy technology products or and components.

Over time, we have diversified the geographic reach of our global supply chain partners to partially mitigate the impact of certain trade tariffs that have been assessed on imports coming into the United States. We will continue to monitor ongoing developments with new trade tariffs that may be implemented in the future, and take action to offset the impact of those tariffs.

See "Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations" of this Annual Report on Form 10-K for additional information regarding the impact of other macroeconomic factors.

See "Item 1A. Risk Factors" of this Annual Report on Form 10-K for additional factors that can influence our supply of raw materials, components and equipment.

Competition

The market for In our traditional power generation equipment, energy storage systems, energy management solutions, and other engine powered products is competitive. We markets, we face competition from a variety of large diversified industrial companies, as well as smaller generator manufacturers along with or packagers around the world. The competitive landscape varies between our Residential and C&I power generation products. We face a different set of competitors for our mobile equipment and engine powered tools as well. In recent years, we have expanded who we compete against as we enter certain energy technology markets, such as solar inverter, inverters, battery storage systems, smart thermostat, thermostats, and grid services providers, both domestic and internationally services.

Specifically in In the generator market, most many of the traditional participants compete on a more focused basis, in only certain portions of the market, targeting specific applications within their larger diversified product mix. We are the only significant market participant with In addition, for certain competitors, power generation is typically a smaller piece of their business, and therefore, is less prioritized from a strategic standpoint. Generac's primary focus is on power generation and storage equipment with a key emphasis on standby, portable and mobile generators with broad capabilities across the residential, light-commercial and industrial markets. We believe that our engineering capabilities and core focus on generators provide power generation and storage drives product innovation and provides us with manufacturing flexibility and enable us competitive advantages to maintain a competitive advantage for product innovation, win in the marketplace. We also believe our broad product offering, diverse omni-channel distribution model, and strong factory support provide additional advantages as well.

The Company in recent years has been evolving its business model toward more of a focus on energy technology solutions and services, which has introduced a new set of competitors.

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A summary of the primary competitors across our main product classes is as follows:

Residential products— Competitors include Rehlko (formerly known as Kohler Power), Briggs & Stratton, Cummins, Honda, Champion, Techtronics International, Harbor Freight, Husqvarna, Ariens, LG Chem, Tesla, Enphase, Solar Edge, Google, Resideo, The Toro Company, Goal Zero, and Emerson along with a number of other domestic and foreign competitors; certain of which also have broad operations in other manufacturing businesses.

C&I products— Competitors include Caterpillar, Cummins, Rehlko (formerly known as Kohler Power), IGSA, AKSA, MultiQuip, Wacker, Doosan, Atlas Copco, Himoinsa, FG Wilson, Woodward, Planelec, and Co-map, as well as other domestic and foreign competitors; competitors that package engines and alternators into power generation equipment in local markets around the world; certain of which focus on the market for diesel generators as they are also diesel engine manufacturers. Also, we compete against other regional packagers that serve local markets throughout the world.

Other products— Relative to service parts and extended warranty revenue, all of the above-named companies are primary competitors. Relative to grid services optimization software, Autogrid Autogrid/Schneider and Energy Hub, along with other grid service solution providers, are primary competitors.

In a continuously evolving market, we believe our scale and broad capabilities make position us well positioned to remain competitive. We Overall, we compete primarily based on brand reputation, quality, reliability, pricing, innovative features, breadth of product & solution offering, product availability and factory support.

Government Incentives and Regulation, including Environmental Matters

Generac's growing presence in energy technology solutions has increased our exposure to renewable energy mandates, investment tax credits, and other demand-creation subsidies from certain existing and potential government incentives, such as incentives included in the U.S. Inflation Reduction Act that was passed in 2022. These incentives cover a wide range of clean energy products and solutions, including MLPE solutions, solar plus inverters, battery storage systems, grid services, and grid-edge devices, and the devices. The availability, size, and outlook for such incentives can impact the markets for these products and solutions. Additionally, These legislative and regulatory actions and other methods of government funding can be subject to changes in 2023 Generac was selected by the Department of Energy to participate political environment at a given point in two federally backed projects in Puerto Rico time. While the policy back drop for the clean energy market may evolve over time, we believe customer interest and Massachusetts that are focused on improving grid resiliency demand, as well as government programs and efficiency with our residential support for such energy technology solutions, products, will continue as grid capacity is strained and energy costs rise.

As a manufacturing company, our operations are subject to a variety of federal, state, local and foreign laws and & regulations covering environmental, health and safety matters. Applicable laws and & regulations include those governing, among other things, emissions to air, discharges to water, noise, and employee & consumer safety, as well as the generation, handling, storage, transportation, treatment, and disposal of hazardous waste and other materials. In addition, our products are subject to various laws and & regulations relating to among other things, emissions and fuel requirements, as well as labeling, storage, transport, and marketing.

Our products sold in the United States are regulated by the U.S. Environmental Protection Agency (EPA), California Air Resources Board (CARB) and various other state and local air quality management districts. **These All of our engines and engine-driven products sold in the U.S. are regulated, and these** governing bodies continue to pass regulations that require us to meet more stringent emission standards, and all of our engines and engine-driven products are regulated within the United States and its territories standards. In addition, certain of our products in the United States are subject to safety standards as established by various other standards and rulemaking bodies, or state and local agencies, including the U.S. Consumer Product Safety Commission (CPSC), among others. Similarly, other countries have varying degrees of regulation for our products, depending upon product application and fuel types.

See "Item 1A. Risk Factors" to this Annual Report on Form 10-K for additional legal and regulatory factors that can affect the products we sell and the results of our operations.

Environment, Social, and Governance Program

Sustainability Practices

We continue to advance published a report on our Environmental, Social, and Governance (ESG) program and published an expanded ESG Report sustainability practices in April of 2023, 2024. This report details our progress in executing the ESG goals and initiatives certain measures that align with our "Powering a Smarter World" enterprise strategy and our purpose statement: 'To lead the evolution to more resilient, efficient, and sustainable energy solutions.' The ESG Report contains an expanded list of key performance indicators and data points, and aligns with a number of voluntary ESG frameworks such as the Sustainability Accounting Standards Board (SASB), Global Reporting Initiative (GRI) and the United Nations Sustainable Development Goals (UN SDG). The information provided within our ESG Report published in April of 2023, or any future ESG Report, the sustainability report is not part of this report and is therefore not incorporated herein by reference. A copy of the ESG Report sustainability report is available from on our Investor Relations webpage at Generac.com. We plan to publish an updated ESG Report report on our sustainability practices in April of 2024 2025 that coincides with the filing of our annual Proxy Statement.

See "Item 1A. Risk Factors" for additional factors related to our ESG Program.

Human Capital

"Our People" is one of the foundational elements to our "Powering a Smarter World" enterprise strategy and is a corporate value as well. We foster a culture of diversity and engagement to strengthen our company while supporting individual achievement, equity, inclusivity, and good corporate citizenship globally. We believe our success is directly tied linked to our employees' professional growth and personal well-being, combined with strong families and communities.

Some examples of key human capital programs and initiatives that we are focused on include:

Health, wellness and safety – Employee health and safety is the Company's top priority. Generac's total rewards program is based on the four pillars of balance, security, well-being and community. These programs are designed to meet the varied and evolving needs of our diverse workforce. We maintain an employee wellness program, incentivize healthy-living activities, and we develop and administer company-wide policies to help ensure the safety of each employee and compliance with government agency and other standards.

Diversity, equity and inclusion (DEI) –At Generac, people with diverse backgrounds and points of view work together to support our customers around the globe. As an inclusive workplace, our employees embrace diversity in all forms, celebrate differences, and treat others with equality and respect. Generac is also focused on building understanding and awareness of DEI through education and open communication. We sponsor a variety of employee-led Business Employee Resource Groups (BERGs) to facilitate networking and strong connections with peers and leadership, and to increase the listening and learning opportunities across our workforce. We continue to expand our DEI Learning Library and we partner with community job agencies representing disabled clients and workforce release programs to provide job opportunities to those who face barriers to employment.

Talent development & employee engagement – Our success is directly tied to our employees and what we can accomplish together. We prioritize creating opportunities to help employees build careers and support their growth as part of a meaningful and valuable employee experience. We hold internal career development events as well as partner with local third party educational resources to offer on the job learning, collaborative work experiences and formal learning programs on lean methodology and project management skills to support progressions the progression and advancement of our workforce. Further, we maintain an ongoing global employee engagement initiative with targeted action plans by region, function, and business group. Action plans and their progress are measured by global employee engagement surveys. A global human capital management system was implemented enabling Generac management to make better talent decisions, proactively manage careers, scale globally and maintain compliance. We are an equal opportunity employer whose hiring and promotion practices comply with all the applicable laws and we do not condone employment discrimination in any form.

As of December 31, 2023 December 31, 2024, we had 8,600 9,239 employees, (8,315 full time and 285 including part-time and temporary employees), employees working in our operations, manufacturing and supply chain functions. Of those, approximately 3,500 3,850 employees, including temporary workers, were directly or indirectly involved in manufacturing at our manufacturing facilities. manufacturing.

Domestically, we have had an "open shop" bargaining agreement for the past 50 years. The current agreement, which expires October 17, 2026, years that covers our Eagle, Wisconsin facility. That facility is subject to a collective bargaining agreement that expires October 17, 2026, and is subject to Wisconsin's Right to Work law. Through an acquisition in April 2024, three additional smaller facilities, which are located in Bloomfield and Shelton, Connecticut and Bohemia, New York, are subject to a collective bargaining agreement

for its technicians. That collective bargaining agreement expires October 31, 2027, and is subject to a Union Security provision. Additionally, our plants in Mexico, Italy, Germany, and Spain are operated under various local or national union groups or works councils. Our other facilities are not unionized.

Available Information

The Company's principal executive offices are located at S45 W29290 Highway 59, Waukesha, Wisconsin, 53189 and the Company's telephone number is (262) 544-4811. The Company's website is www.generac.com. The Company's annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and amendments to those reports (if applicable) are available free of charge through the "Investor Relations" portion of the Company's web site, as soon as reasonably practicable after they are filed with the Securities and Exchange Commission (SEC). The information provided on these websites is not part of this report and is therefore not incorporated herein by reference.

Information About Our Executive Officers

The following table sets forth information regarding our executive officers:

Name	Age	Position
Aaron P. Jagdfeld	52 53	President, Chief Executive Officer and Chairman
York A. Ragen	52 53	Chief Financial Officer
Erik Wilde	49 50	Executive Vice President, Industrial, Americas
Patrick Forsythe	56	Chief Technical Officer Domestic C&I
Raj Kanuru	53 54	Executive Vice President, General Counsel and Secretary
Norman Taffe	57 58	President, Energy Technology
Kyle Raabe	49 50	President, Consumer Power

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Aaron P. Jagdfeld has served as our Chief Executive Officer since September 2008, as a director since November 2006 and was named Chairman in February 2016. Prior to becoming Chief Executive Officer, Mr. Jagdfeld worked for Generac for 15 years. He began his career in the finance department in 1994 and became our Chief Financial Officer in 2002. In 2007, he was appointed President and was responsible for sales, marketing, engineering and product development. Prior to joining Generac, Mr. Jagdfeld worked in the audit practice of the Milwaukee, Wisconsin office of Deloitte and Touche. Mr. Jagdfeld holds a Bachelor of Business Administration in Accounting from the University of Wisconsin-Whitewater.

York A. Ragen has served as our Chief Financial Officer since September 2008. Prior to becoming Chief Financial Officer, Mr. Ragen held Director of Finance and Vice President of Finance positions at Generac. Prior to joining Generac in 2005, Mr. Ragen was Vice President, Corporate Controller at APW Ltd., a spin-off from Applied Power Inc., now known as Enerpac Tool Group. Mr. Ragen began his career at Arthur Andersen in the Milwaukee, Wisconsin office audit practice. Mr. Ragen holds a Bachelor of Business Administration in Accounting from the University of Wisconsin-Whitewater.

Erik Wilde began serving as our Executive Vice President, Industrial, Americas Domestic C&I in July 2016. Mr. Wilde was Vice President and General Manager of the Mining Division for Komatsu America Corp., a manufacturer of construction, mining, and compact construction equipment, from 2013 until he joined Generac. Prior to that role, he held leadership positions as Vice President of the ICT Business Division and Product Marketing at Komatsu America Corp. beginning in 2005. Mr. Wilde holds a Bachelor of Business Administration in Management from Boise State University and an M.B.A. from the Keller Graduate School of Management.

Patrick Forsythe has served as our Chief Technical Officer since January 2021. He previously served as our Executive Vice President of Global Engineering beginning in July 2015. Prior to re-joining Generac, Mr. Forsythe was Vice President, Global Engineering & Technology of Hayward Industries from 2008 to 2015, Vice President, Global Engineering at Ingersoll Rand Company (and the acquired Doosan Infracore International) from 2004 to 2008, and Director of Engineering at Ingersoll Rand Company from 2002 to 2004. Prior to 2002, Mr. Forsythe worked in various engineering management capacities with Generac from 1995 to 2002. Mr. Forsythe holds a Higher National Diploma (HND) in Mechanical Engineering from the University of Ulster (United Kingdom), a B.S. in Mechanical Engineering, and an M.S. in Manufacturing Management & Technology from The Open University (United Kingdom).

Raj Kanuru is our Executive Vice President, General Counsel & Secretary and is the Company's principal legal and compliance officer, roles that he has held since joining Generac in 2013. Prior to joining Generac, Mr. Kanuru served as in-house counsel at Caterpillar Inc. for almost 14 years within various leadership roles, including in Caterpillar's Securities, Regulatory and Tax group, in Caterpillar Financial, and in Caterpillar's Energy & Transportation group. From 2009 to 2013, Mr. Kanuru served as Vice President, General Counsel and Secretary of Progress Rail Services Inc., and its subsidiaries (a Caterpillar company). He began his legal career as a senior associate in the tax consulting practice of Arthur Andersen LLP. Mr. Kanuru holds a Bachelor of Science in Finance degree from Birmingham-Southern College and received his Juris Doctor degree from the University of Alabama.

Norman Taffe began serving as President, Energy Technology in August 2022. Prior to joining Generac, Mr. Taffe was Executive Vice President North America Residential of SunPower Corporation from 2018 to 2021. Prior to this, Mr. Taffe was Executive Vice President - Products and Vice President of Power Plant Products and Solutions from 2013 to 2018. Mr. Taffe also worked in various engineering and marketing management capacities at Cypress Semiconductor from 1989 to 2012, including Executive Vice President – Consumer & Computation Devices from 2005 to 2012. Mr. Taffe holds a Bachelor of Science in Electrical Engineering from the University of Michigan and an Executive MBA from Harvard Business School.

Kyle Raabe has served as our President, Consumer Power since November 2019. Prior to rejoining Generac, Mr. Raabe was Senior Vice President of North American Sales, Demand Planning and Sales Operations from 2018 through 2019 and Vice President of Sales for the Commercial Security and Safety groups from 2015 through 2018 at The Master Lock Corporation, a manufacturer of locks, combination padlocks and other security products. Prior to working at The Master Lock Corporation, Mr. Raabe led multiple groups at Generac Power Systems from 2007 through 2015 as Director of Wholesale and Dealer Distribution, Vice President Wholesale Distribution Sales and Vice President, Industrial Distribution Sales. Before joining Generac, Mr. Raabe served at Veolia North America, Environmental Services leading Midwest Regional Service Operations. Mr. Raabe holds a BA, Biological Science from Lawrence University.

Item 1A. Risk Factors

You should carefully consider the following risks. These risks could materially affect our business, results of operations or financial condition, cause the trading price of our common stock to decline materially or cause our actual results to differ materially from those expected or those expressed in any forward-looking statements made by us. These risks are not exclusive, and additional risks to which we are subject include, but are not limited to, the factors mentioned under “Forward-Looking Statements” and the risks of our businesses described elsewhere in this Annual Report.

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Risk factors related to our business and industry

Decreases in the availability and quality, or increases in the cost, of raw materials, key components and labor we use to make our products could materially reduce our earnings.

The principal raw materials that we use to produce our products include steel, copper and aluminum as well as batteries and advanced electronic components. We also source a significant number of component parts from third parties that we utilize to manufacture our products. The prices of those raw materials and components are susceptible to significant fluctuations due to trends in supply and demand, commodity prices, currencies, currency rate changes, transportation costs, government regulations and tariffs, price controls, economic conditions and other unforeseen circumstances beyond our control. In fact, we have seen such trends significantly impact our business in the past resulting in higher costs and shortages in materials, components and labor, and such impacts may continue or arise again in the foreseeable future. We typically do not have long-term supply contracts in place to ensure the raw materials and components we use are available in necessary amounts or at fixed prices. In the short term, short-term, we have haven't always been unable able to fully mitigate raw material or component price increases through product design improvements, price increases to our customers, manufacturing productivity improvements, or hedging transactions, and if our mitigation efforts continue to not be fully effective in the short or long term, long-term, our profitability could be adversely affected. Also, our ability to continue to obtain quality materials and components is subject to the continued reliability and viability of our suppliers, including in some cases, suppliers who are the sole source of certain important components. It has been challenging to consistently obtain adequate, cost efficient or timely deliveries of certain required raw materials and components, or sufficient labor resources, and if this trend continues, we may be unable to manufacture sufficient quantities of products on a timely basis. This could cause us to lose additional sales, incur additional costs, delay new product introductions or suffer harm to our reputation.

We depend upon a small number of outside contract manufacturers and component suppliers, as well as single-source suppliers, for certain products and components, and our business and operations could be disrupted if we encounter problems with these parties.

For certain products we do not have internal manufacturing capabilities and rely upon a small number of contract manufacturers to build these products or supply these components, including but not limited to certain clean energy products or components. The timing of purchases in future periods could differ materially from our estimates due to fluctuations in demand requirements related to varying sales levels as well as changes in economic conditions. Further, the revenues that our contract manufacturers generate from our orders may represent a relatively small percentage of their overall revenues. While we seek to negotiate supply agreements with all of our vendors, we may purchase some products or components on a purchase order basis. As a result, fulfilling our orders may not be considered a priority to these suppliers in the event of constrained ability to fulfill all of their customer obligations in a timely manner. If any of these contract manufacturers or component suppliers were unable or unwilling to manufacture or produce our products in required volumes and at high quality levels or renew existing terms under supply agreements, we would have to identify, qualify and select acceptable alternative contract manufacturers, which may not be available to us on favorable terms, if at all. Our reliance on such contract manufacturers makes us vulnerable to possible capacity constraints and reduced control over component availability, delivery schedules, quality issues, manufacturing yields and costs. Moreover, we single-source certain types of parts in our product designs. Delays in our suppliers' deliveries have sometimes impaired, and may continue to impair, our ability to deliver products to our customers. A wide variety of factors could cause such delays including, but not limited to, lack of capacity, economic downturns, availability of credit, logistical challenges, labor or material shortages, trade restrictions, weather events, political

instability, wars, geopolitical conflicts (such as conflicts in the Ukraine or the Middle East), terrorism, civil unrest, disease or natural disasters. If any of these suppliers reduce or eliminate the supply of the components to us in the future, our revenues, business, financial condition and results of operations would be adversely impacted. Although we have ongoing contractual disputes with certain such suppliers, such disputes have not to date had any significant adverse impact on our business, financial condition or results of operation.

Our business could be negatively impacted if we fail to adequately protect our intellectual property rights or if third parties claim that we are in violation of their intellectual property rights.

We consider our intellectual property rights to be important assets and seek to protect them through a combination of patent, trademark, copyright and trade secret laws, as well as licensing and confidentiality agreements. These protections may not be adequate to prevent third parties from using our intellectual property without our authorization, breaching any confidentiality agreements with us, copying or reverse engineering our products, or developing and marketing products that are substantially equivalent to or superior to our own. The unauthorized use of our intellectual property by others could reduce our competitive advantage and harm our business. Not only are intellectual property-related proceedings burdensome and costly, but they could take years to resolve, and we might not ultimately prevail. We cannot guarantee that any patents, issued or pending, will provide us with any competitive advantage or will not be challenged by third parties. Moreover, the expiration of our patents may lead to increased competition with respect to certain products. If we fail to protect our intellectual property and other proprietary rights, or if such intellectual property and proprietary rights are infringed, misappropriated or otherwise violated, our business, results of operations or financial condition could be materially harmed.

In addition, we cannot be certain that we do not or will not infringe third parties' intellectual property rights. We currently are, and have previously been, subject to such third-party infringement claims, and may continue to be in the future. Any such claim, even if it is believed to be without merit, may be expensive and time-consuming to defend, subject us to damages, cause us to cease making, using or selling certain products that incorporate the disputed intellectual property, require us to redesign our products, divert management time and attention, and/or require us to enter into costly royalty or licensing arrangements. Certain parts of our business experience significant intellectual property litigation and we have in the past and could in the future become involved in costly and lengthy litigation involving patents or other intellectual property rights which could adversely affect our business. We have recently been subject to adverse rulings or have settled claims for significant amounts related to the infringement of third-party intellectual property rights, and may continue to be subject to such claims, damage awards or settlement payments. In addition, we may not prevail in such future proceedings. An adverse outcome of any such proceeding may reduce our competitive advantage or otherwise harm our financial condition and our business or potentially impair our patents and technology intangible assets which could have a material adverse effect on our financial statements.

For further information, see Note "18. Commitments 18, "Commitments and Contingencies". Contingencies," to the consolidated financial statements in Item 8 of this Annual Report on Form 10-K.

We may incur costs and liabilities as a result of product liability, warranty claims, recalls, or other claims.

We face a risk of exposure to from current and future product liability claims alleging to arise from the use of our products and that may purportedly result in injury or other damage. Although we currently maintain product liability insurance coverage, such current insurance coverage may not be sufficient to cover claims or damage awards or we may not be able to obtain such insurance on acceptable terms in the future, if at all, or obtain insurance that will provide adequate coverage against potential claims. Product liability claims can be expensive to defend and can divert the attention of management and other personnel for long periods of time, regardless of the ultimate outcome. A significant unsuccessful product liability defense could have a material adverse effect on our financial condition and results of operations. In addition, we believe our business depends on the strong brand reputation we have developed. If our reputation is damaged due to product liability or warranty claims, or recalls, we may face difficulty in maintaining our market share and pricing with respect to some of our products, which could reduce our sales and profitability. We have experienced, and may continue to experience, product liability claims or other product related claims, including higher warranty costs, which may impact our reputation and resulting sales and profitability. For example, we have and may continue to experience product liability, product quality or reliability claims, or warranty claims with respect to certain clean energy, generator, and/or chore products, including being subject to certain consumer product class action lawsuits or other governmental fines or penalties in relation to such products. In the event such product or warranty related claims continue or are significantly higher in the future, or we incur losses or other damages associated with current or future product liability lawsuits or product related claims, this may continue to adversely affect our reputation or brand quality in relation to such products, subject us to significantly increased costs or penalties, and otherwise materially harm our results of operations, financial condition and our business. Even in litigation where we believe the likelihood of liability is remote, there is a risk that a negative finding or decision in a matter involving multiple plaintiffs or a purported class action could have a material adverse effect on our competitive position, results of operations or financial condition.

While we do record reserves for future warranty claims, our estimated warranty accruals for previously sold products and our warranty costs for current product sales are based on assumptions using historical experience, and we do not have a long history with respect to certain products. As a result, these assumptions could prove to be materially different from the actual performance of such products, causing us to incur substantial unanticipated expenses to repair or replace defective products in the future or to compensate customers for defective products. Our failure to accurately predict future claims could have a material adverse effect on our business, results of operations, or financial condition.

Moreover, we have and may continue to be exposed to product recalls and adverse public relations if our products are alleged to have defects, to cause property damage, to cause injury or illness, or if we are alleged to have violated governmental regulations. A product recall could result in substantial and unexpected expenditures, which would reduce

operating profit and cash flow. In addition, a product recall may require significant management attention. Product recalls may hurt the value of our brands and lead to decreased demand for our products. Product recalls have resulted in and may continue to lead to increased scrutiny, fines or other penalties by federal, state or international regulatory agencies on our operations or business and increased litigation and could have a material adverse effect on our consolidated results of operations, financial condition and cash flows.

For further information, see Note "18. Commitments 18, "Commitments and Contingencies".

We cannot guarantee that our share repurchase programs will be fully consummated or that they will enhance long-term stockholder value. Share repurchases could also increase Contingencies," to the volatility consolidated financial statements in Item 8 of the market price of our stock and diminish our cash reserves.

On February 12, 2024, the Company's Board of Directors approved a new stock repurchase program that allows for the repurchase of up to \$500 million of the Company's common stock over the next twenty-four months. The new program replaces the prior share repurchase program, which had approximately \$26 million remaining available for repurchase when the new program was approved. Although our Board of Directors has authorized such share repurchase program, the program does not obligate us to repurchase any specific dollar amount or to acquire any specific number of shares. Such program could also diminish our cash reserves. In addition, we may discontinue, modify or suspend our share repurchase program based this Annual Report on several factors, including our cash balances and potential future capital requirements for strategic transactions, including acquisitions, results of operations, financial condition and other factors that our Board of Directors may deem relevant. Any modification, suspension, or termination of our share repurchase program could cause our stock price to decline. We cannot guarantee that such program will be fully consummated or that it will enhance long-term stockholder value. Form 10-K.

The risk of non-compliance with U.S. and foreign laws and regulations applicable to our global operations could have a significant impact on our results of operations, financial condition or strategic objectives.

Our global operations subject us to regulation by U.S. federal and state laws and multiple foreign laws, regulations and policies. These laws and regulations are complex, change frequently, have become more stringent over time and increase our cost of doing business. These laws and regulations include import and export control, sanction and trade restriction laws, environmental, health and safety regulations, data privacy requirements, international labor laws and work councils and anti- corruption and bribery laws such as the U.S. Foreign Corrupt Practices Act, the U.K. Bribery Act, the U.N. Convention Against Bribery and local laws prohibiting corrupt payments to government officials.

We are subject to the risk that we, our employees, our affiliated entities, contractors, agents or their respective officers, directors, and employees may take actions determined to be in violation of any of these laws, for which we might be held responsible, particularly as we expand our operations geographically through organic growth and acquisitions. An actual or alleged violation could result in substantial fines, sanctions, civil or criminal penalties, debarment from government contracts, curtailment of operations in certain jurisdictions, competitive or reputational harm, litigation or regulatory action and other consequences that might adversely affect our results of operations, financial condition or strategic objectives.

Increased scrutiny regarding our ESG practices could impact our reputation.

Increasing governmental and societal attention to ESG matters, including expanding mandatory and voluntary reporting, and disclosure topics such as climate change, sustainability, natural resources, waste reduction, energy, human capital, and risk oversight could expand the nature, scope, and complexity of matters that we are required to control, assess, and report. We strive to deliver shared value through our business and our diverse stakeholders expect us to make progress in certain ESG priority issue areas. It is possible that we may be unsuccessful in the achievement of our ESG goals, on a timely basis or at all, or that the costs to achieve those goals become prohibitively expensive. Furthermore, our stakeholders may not be satisfied with our initiatives or efforts or the speed at which we are progressing towards any such aspirations and goals. Additionally, organizations that inform investors on ESG matters have developed rating systems for evaluating companies on their approach to ESG. Unfavorable ratings may lead to negative investor sentiment, which could negatively impact our stock price. Any failure, or perceived failure, to respond to ESG concerns could harm our business and reputation.

Our business may face increased scrutiny from the investment community, regulators, media and other stakeholders related to our sustainability activities, including our commitments, goals, targets and objectives, and our methodologies and timelines for pursuing them. We are subject to increasing regulatory requirements around sustainability-related disclosures, including significant anticipated rulemaking by the SEC or other international governmental authorities, which may continue to evolve. Complying with regulators' disclosure requirements may impose substantial additional costs and require additional resources, including with respect to third-party attestation, to enable the capture, analysis and audit of appropriate data. Any actual or alleged failure to comply with regulatory requirements could result in fines, penalties and civil liabilities, and damage to our reputation. Furthermore, if our sustainability reporting and practices do not meet investor, regulator or other stakeholders' expectations, standards and requirements, our reputation, ability to attract or retain employees, and attractiveness as an investment, business partner or acquirer could be negatively impacted. Similarly, our failure or perceived failure to pursue or fulfill our sustainability commitments, goals, targets, and objectives, to comply with ethical, environmental, or other standards, regulations, or expectations, or to comply with reporting requirements and standards with respect to these matters, within the timelines we announce, or at all, could have operational, reputational, financial and legal impacts.

If we fail to develop new products or enhance existing products, or our customers do not accept the new or enhanced products we develop, our revenue and profitability could be adversely impacted.

Difficulties or delays in research, development or production of new or enhanced products or failure to gain market acceptance of new or enhanced products and technologies may reduce future sales and adversely affect our competitive position. We continue to invest in the development and marketing of new or enhanced products. There can be no assurance that we will have sufficient resources to make such investments, that we will be able to make the technological advances necessary to maintain competitive advantages or that we can recover major research and development expenses. Certain of our products benefit from government incentive or tax credit programs and we cannot be assured that these incentive or tax credit programs will be maintained and for how long. For example, in July 2024, we received a grant from the U.S. Department of Energy (DOE) to facilitate

the installation of residential solar and battery storage systems for disadvantaged Puerto Rican residents that, if fully realized and not terminated early, would provide up to \$120 million in funds over the duration of the five-year award agreement. If we fail to make innovations, launch products with experience unexpected delays and/or quality problems in launching products, or the market does not accept our new products, our financial condition, results of operations, cash flows and liquidity could be adversely affected. In addition, as new or enhanced products are introduced, we must successfully manage the transition from older products to minimize disruption in customers' ordering patterns, avoid excessive levels of older or obsolete product inventories and ensure that we can deliver sufficient supplies of new products to meet customers' demands.

Demand for the majority of our products is significantly affected by unpredictable power outage activity that can lead to substantial variations in, and uncertainties regarding, our financial results from period to period.

Sales of our residential products are subject to consumer buying patterns, and demand for the majority of our products is affected by power outage events caused by thunderstorms, hurricanes, wildfires, ice storms, blackouts, public safety power shutoffs, and other power grid reliability issues, all of which affects affect our ability to accurately manage our business and forecast future results. The impact of these outage events on our sales can vary depending on the location, frequency and severity of the outages. Sustained periods without major power disruptions can lead, and in the past have led, to reduced consumer awareness of the benefits of standby and portable generator products and can result and have previously resulted in reduced sales growth rates and excess inventory. There are smaller, more localized power outages that occur frequently that drive a baseline level of demand for back-up backup power solutions. The lack of major power outage events and fluctuations to the baseline levels of power outage activity are part of managing our business, and these fluctuations could have, and previously have had, an adverse effect on our net sales and profits. Despite their unpredictable nature, we believe power disruptions create awareness and accelerate adoption of and demand for our home standby products.

Demand for our products is significantly affected by durable goods spending by consumers and businesses, and other macroeconomic conditions.

Our business is affected by general economic conditions, and uncertainty or adverse changes, such as the prolonged downturn in U.S. residential investment and the impact of more stringent credit standards and rising interest rates or inflation. These have previously led and could lead again to a decline in demand for our products and increase pressure to reduce our prices. Our sales of light-commercial and industrial generators are affected by conditions in the non-residential construction sector and by the capital investment trends for small and large businesses and municipalities. If these businesses and municipalities cannot access credit markets or do not utilize discretionary funds to purchase our products as a result of the economy or other factors, our business could suffer and our ability to realize benefits from our strategy of increasing sales in the light-commercial and industrial sectors could be adversely affected. In addition, consumer confidence and home remodeling expenditures have a significant impact on sales of our residential products, and prolonged periods of weakness in consumer durable goods spending has previously had, and could again have a material impact on our business. We currently do not have any material contracts with our customers which call for committed volume, and we cannot guarantee that our current customers will continue to purchase our products at the same level, if at all. If general economic conditions or consumer confidence were to worsen, or if the non-residential construction sector or rate of capital investments were to decline, our net sales and profits would likely be adversely affected. Changes in government monetary or fiscal policies may negatively impact our results, including increases in interest rates or sustained inflationary pressure which could negatively affect overall growth and impact sales of our products. Additionally, timing of capital spending by our national account customers can vary from quarter-to-quarter based on capital availability and internal capital spending budgets. Also, the availability, renewal or potential loss of renewable energy mandates and investment tax credits and other subsidies can have an impact on the demand for energy storage systems. Our global operations are exposed to political and economic risks, commercial instability and events beyond our control in the countries in which we operate. Such risks or events may disrupt our supply chain and not enable us to produce products to meet customer demand.

If we do not forecast demand for our products accurately, we may experience product shortages, delays in product shipment, excess product inventory, difficulties in planning expenses or disputes with suppliers, any of which may adversely affect our business and financial condition.

We manufacture our products based on both actual customer orders and our estimates of customer demand. This process requires us to make multiple forecasts and assumptions relating to the demand of our distributors, their end customers, general market conditions, and other macroeconomic conditions. The frequency and duration of power outages also affects demand for our products as described above. As a result, it may be difficult to forecast future customer demand to plan our operations, which may adversely affect our business and financial condition. If we overestimate demand for our products, we may have excess inventory that we cannot sell. We may have to make significant provisions for inventory write-downs based on events that are currently not known, or discount finished goods to liquidate inventory, and such provisions or any adjustments to such provisions and discounts could be material. We may also become involved in disputes with our suppliers who may claim that we failed to fulfill forecast or minimum purchase requirements. Conversely, if we underestimate demand, we may not have sufficient inventory to meet end-customer demand, and we may lose market share, damage relationships with our distributors and end customers and forgo potential revenue opportunities. Obtaining additional supply in the face of product shortages may be costly or impossible, which could prevent us from fulfilling orders in a timely and cost-efficient manner or at all. In addition, if we overestimate our production requirements, our contract manufacturers may purchase excess components and build excess inventory. If our contract manufacturers, at our request, purchase excess components that are unique to our products and are unable to recoup the costs of such excess inventory through resale or return or build excess products, we could be required to pay for these excess parts or products and recognize related inventory write-downs.

The industries in which we compete are highly competitive, and our failure to compete successfully could adversely affect our results of operations and financial condition.

We operate in markets that are highly competitive. Some of our competitors have established brands and are larger in size or are divisions of large, diversified companies which have substantially greater financial resources than we do. Some of our competitors have and may continue to be willing to reduce prices and accept lower margins in order to compete with us. In addition, we could face new competition from large international or domestic companies with established brands that enter our end markets. Demand for our products may also be affected by our **ability inability** to respond to changes in design and functionality, to respond to downward pricing pressure, and to provide shorter lead times for our products than our competitors. **There is also increasing use of data analytics, machine learning, and artificial intelligence software, which our competitors may be able to use or implement more effectively than we are able to do.** If we are unable to respond successfully to these competitive pressures, we could lose market share, which could have an adverse impact on our results. For further information, see "Item 1—Business—Competition" **of this Annual Report on Form 10-K.**

We rely on independent dealers and distribution partners, and the loss of these dealers and distribution partners, or of any of our sales arrangements with significant private label, national, retail or equipment rental customers, would adversely affect our business.

We depend on the services of independent distributors and dealers to sell and install our products and provide service and aftermarket support to our end customers. Their capacity constraints and/or inability to install and service our products, including their inability to hire, develop, or retain qualified technicians or other labor, could limit our ability to maintain and grow our sales. We also rely on our distribution channels to drive awareness for our product categories and our brands. In addition, we sell our products to end users through private label arrangements with leading home equipment, electrical equipment and construction machinery companies; arrangements with top retailers and equipment rental companies; and our direct national accounts with telecommunications and other industrial customers. Our distribution agreements and any contracts we have with large national, retail and other customers are typically not exclusive, and many of the distributors with whom we do business also offer competitors' products and services.

Impairment of our relationships with our distributors, dealers or large customers, loss of a substantial number of these distributors or dealers or of one or more large customers, or an increase in our distributors' or dealers' sales of our competitors' products to our customers or of our large customers' purchases of our competitors' products could materially reduce our sales and profits. For example, we have had, and may continue to have, disputes with one or more customers, distributors or dealers to whom we sell our products, including clean energy products, and this may reduce or limit the sales growth for such products. Additionally, our ability to successfully realize our growth strategy is dependent in part on our ability to identify, attract and retain new distributors at all layers of our distribution platform, including increasing the number of energy storage distributors, and we cannot be certain that we will be successful in these efforts. For further information, see "Item 1—Business—Distribution Channels and Customers" **of this Annual Report on Form 10-K.**

We are unable to determine cannot guarantee that our share repurchase programs will be fully consummated or that they will enhance long-term stockholder value. Share repurchases could also increase the specific impact volatility of changes in selling prices or changes in volumes or mix the market price of our products on stock and diminish our net sales. cash reserves.

Because On February 12, 2024, the Company's Board of Directors (Board) approved the current stock repurchase program that allows for the repurchase of up to \$500 million of the **wide range** Company's common stock over a twenty-four-month period. Although our Board has authorized such share repurchase program, the program does not obligate us to repurchase any specific dollar amount or to acquire any specific number of **products** shares. Such program could also diminish our cash reserves. In addition, we may discontinue, modify or suspend our share repurchase program based on several factors, including our cash balances and potential future capital requirements for strategic transactions, including acquisitions, results of operations, financial condition and other factors that our Board may deem relevant. Any modification, suspension, or termination of our share repurchase program could cause our stock price to decline. We cannot guarantee that such program will be fully consummated or that it will enhance long-term stockholder value.

Increased scrutiny regarding our sustainability practices and reporting could impact our reputation.

Increasing governmental and societal attention to sustainability matters, including expanding mandatory and voluntary reporting, and disclosure topics such as climate change, natural resources, waste reduction, energy, and risk oversight could expand the nature, scope, and complexity of matters that we **sell, the level of customization for** are required to control, assess, and report. We strive to deliver shared value through our business and our diverse stakeholders have evolving, varied and sometimes conflicting expectations regarding many aspects of our **products, business, including sustainability-related matters.** We may be unsuccessful in achieving our sustainability goals, on a timely basis or at all, or that the **frequent rollout of new products, costs to achieve those goals become prohibitively expensive.** We are subject to regulatory requirements around sustainability-related disclosures, including the **different accounting systems utilized, EU's Corporate Sustainability Reporting Directive, which may continue to evolve and the fact that we may impose** substantial additional costs and require additional resources. Any actual or alleged failure to comply with regulatory requirements could result in fines, penalties and civil liabilities, and damage to our reputation. Furthermore, if our sustainability reporting and practices do not **apply pricing changes uniformly across** meet investor, regulator or other stakeholders' expectations, standards and requirements, our **entire portfolio** reputation, ability to attract or retain employees, and attractiveness as an investment, business partner or acquiror could be negatively impacted. All of **products, we are unable to determine with specificity the effect of volume or mix changes or changes in selling prices** these could have an impact on our **net sales. reputation as well as our financial results and operations.**

Risk factors related to our operations

The loss of any key members of our senior management team or key employees could disrupt our operations and harm our business.

Our success depends, in part, on the efforts of certain key individuals, including the members of our senior management team, who have significant experience in the energy products and solutions industry. If, for any reason, our senior executives do not continue to be active in management, or if key employees leave our company, our business, financial condition or results of operations could be adversely affected. Failure to continue to attract or retain these individuals at reasonable compensation levels could have a

material adverse effect on our business, liquidity and results of operations. If we need to replace any of these individuals in the near future, the loss of their services could disrupt our operations and have a material adverse effect on our business if we do not have effective succession plans in place.

Disruptions caused by labor disputes or organized labor activities could harm our business.

We may from **time to time** **time-to-time** experience union organizing activities in our non-union facilities. Disputes with the current labor union or new union organizing activities could lead to work slowdowns or stoppages and make it difficult or impossible for us to meet scheduled delivery times for product shipments to our customers, which could result in loss of business. In addition, union activity could result in higher labor costs, which could harm our financial condition, results of operations and competitive position. A work stoppage or limitations on production at our facilities for any reason could have an adverse effect on our business, results of operations and financial condition. In addition, many of our suppliers have unionized work forces. Strikes or work stoppages experienced by our customers or suppliers could have an adverse effect on our business, results of operations and financial condition.

Our business and operations can be adversely affected by our ability to attract, motivate, develop, and retain our employees.

We are committed to attracting, motivating, developing, and retaining our employees to ensure we remain an employer of choice. Despite our efforts, we have experienced, and could continue to experience, depending upon external market conditions, higher employee turnover and absenteeism. Furthermore, the **competition market** for skilled personnel is often very competitive **both** in markets where our facilities are **located**. **located and with the emergence of remote work**. Increased turnover rates within our employee base, perceived or actual deficiencies in total compensation paid to our employees in relation to competing employers, or as a result of general macroeconomic factors or otherwise, could lead to increased costs, such as increased overtime to meet demand and potentially further increase salaries and wage rates to attract and retain employees, and could negatively affect our ability to efficiently operate our manufacturing facilities and overall business. If we are unable to hire and retain employees capable of performing at a high level, our business, financial condition and results of operations could be adversely affected.

We may experience material disruptions to our manufacturing operations.

While we seek to operate our facilities in compliance with applicable rules and regulations and take measures to minimize the risks of disruption at our facilities, a material disruption at one of our manufacturing facilities could prevent us from meeting customer demand, reduce our sales and/or negatively impact our financial results. Any of our manufacturing facilities, or any of our equipment within an otherwise operational facility, could cease operations unexpectedly due to a number of events, including:

- equipment or information technology infrastructure failure;
- disruptions in the transportation infrastructure including roads, bridges, railroad tracks and container ports;
- fires, floods, tornadoes, earthquakes, disease, pandemics, acts of violence, or other catastrophes; and
- other operational problems.

In addition, a significant portion of our manufacturing and production facilities are in Wisconsin within a 100-mile radius of each other. We could experience prolonged periods of reduced production due to unforeseen events occurring in or around our manufacturing facilities in Wisconsin. In the event of a business interruption at our facilities, in particular our Wisconsin or **South Carolina** facilities, we may be unable to shift manufacturing capabilities to alternate locations, accept materials from suppliers or meet customer shipment needs, among other severe consequences. Such an event could have a material and adverse impact on our financial condition and results of our operations.

Changes in U.S. trade policy, including the imposition of **new or increased** tariffs and the resulting consequences, could have an adverse effect on our results of operations.

Our business benefits from free trade agreements, and efforts to withdraw from, or substantially modify such agreements, in addition to the implementation of more restrictive trade policies, such as more detailed inspections, higher tariffs, import or export licensing requirements, exchange controls or new barriers to entry, could have a material adverse effect on our results of operations, financial condition or cash flows. The U.S. government has made changes in U.S. trade policy over the past several years. These changes include renegotiating and terminating certain existing bilateral or multi-lateral trade agreements, such as the U.S.-Mexico-Canada Agreement, and initiating tariffs on certain foreign goods from a variety of countries and regions, most notably China. These changes in U.S. trade policy have resulted in, and may continue to result in, one or more foreign governments adopting responsive trade policies that make it more difficult or costly for us to do business in or import our products or components from those countries. The sales, gross margins, and profitability for each of our segments could be directly impacted by changes in tariffs and trade agreements.

In addition, certain of our products or key components or raw materials have and may continue to be subject to the imposition of higher duties as a result of anti-dumping and countervailing duties applied against them. To the extent such governmental actions, duties or tariffs are applied to such products, it could adversely affect our results of operations, financial condition and business.

We cannot predict the extent to which the U.S. or other countries will impose new or additional quotas, duties, **tariffs, duties,** taxes or other similar restrictions upon the import or export of our products in the future, nor can we predict future trade policy or the terms of any renegotiated trade agreements and their impact on our business. The continuing adoption or expansion of trade restrictions, the occurrence of a trade war, or other governmental action related to tariffs or trade agreements or policies has the potential to adversely impact demand for our products, our costs, our customers, our suppliers, and the **U.S.** economy, which in turn could have a material adverse effect on our business, operating results, and financial condition.

We may not realize all of the anticipated benefits of our acquisitions, divestitures, restructurings, or realignments, or those benefits may take longer to realize than expected. We may also encounter significant unexpected difficulties in integrating acquired businesses.

We regularly execute organizational changes such as acquisitions, divestitures, restructurings, and realignments to support our growth and management strategies. If we are unable to successfully manage these and other organizational changes, the ability to complete such activities and realize anticipated synergies or cost savings, as well as our results of operations and financial condition, could be materially adversely affected.

Our ability to realize the anticipated benefits of our acquisitions will depend, to a large extent, on our ability to integrate the acquired businesses with our business. The integration of independent businesses is a complex, costly and time-consuming process. **Further, integrating and managing businesses with international operations may pose challenges not previously experienced by our management.** As a result, we may be required to devote significant management attention and resources to integrating the business practices and operations of any acquired businesses with ours. The integration process may disrupt our business and, if implemented ineffectively, could preclude realization of the full benefits expected by us. Our failure to meet the challenges involved in integrating an acquired business into our existing operations or otherwise to realize the anticipated benefits of the transaction could cause an interruption of, or a loss of momentum in, our activities and could adversely affect our results of operations.

As part of undertaking an acquisition, we may also significantly revise our capital structure or operational budget, such as issuing common stock that would dilute the ownership percentage of our stockholders, assuming liabilities or debt, utilizing a substantial portion of our cash resources to pay for the acquisition or significantly increasing operating expenses. Our acquisitions have resulted **in,** and may in the future result in, charges being taken in an individual quarter as well as future periods, which results in variability in our quarterly earnings. In addition, our effective tax rate in any particular quarter may also be impacted by acquisitions. Following the closing of an acquisition, we may also have disputes with the seller regarding contractual requirements and covenants, purchase price adjustments, contingent payments or for indemnifiable losses. Any such disputes may be time consuming and distract management from other aspects of our business. As part of the terms of an acquisition, we may commit to pay additional contingent consideration if certain revenue or other performance milestones are achieved. We are required to evaluate the fair value of such commitments at each reporting date and adjust the amount recorded if there are changes to the fair value.

In addition, the overall integration of our acquired businesses may result in material unanticipated problems, expenses, liabilities, competitive responses, loss of customer relationships, and diversion of management's attention, and may cause our stock price to decline. The difficulties of combining the operations of acquired businesses with ours include, among others:

- managing a larger company;
- maintaining employee morale and retaining key management and other employees;
- complying with newly applicable domestic and foreign regulations as we enter new product and geographic markets;
- integrating two business cultures, which may prove to be incompatible;
- the possibility of faulty assumptions underlying expectations regarding the integration process;
- retaining existing customers and attracting new customers;
- consolidating corporate and administrative infrastructures and eliminating duplicative operations;
- the diversion of management's attention from ongoing business concerns and performance shortfalls as a result of management's attention to the acquisition;
- unanticipated issues in integrating information technology, communications and other systems;
- complying with, or the failure to comply with, changes in applicable, new, or existing laws and regulations;
- managing tax costs or inefficiencies associated with integrating the operations or supply chain of the combined company;
- unforeseen liabilities, expenses or delays associated with the acquisition;
- difficulty comparing financial reports due to differing financial and/or internal reporting systems; and
- making any necessary modifications to internal financial control **standards systems** to comply with the Sarbanes-Oxley Act of 2002 and the rules and regulations promulgated thereunder.

Many of these factors may be outside of our control and any one of them could result in increased costs, decreases in the amount of expected revenues and diversion of management's time and energy, which could materially impact our business, financial condition and results of operations. In addition, even if the operations of our acquired businesses are integrated successfully with our operations, we may not realize the full benefits of the transaction, including the synergies, cost savings or sales or growth

opportunities that we expect. These benefits may not be achieved within the anticipated time frame, or at all, and additional unanticipated costs may be incurred in the integration or management of our businesses. All these factors could cause dilution to our earnings per share, decrease or delay the expected accretive effect of the acquisition, and cause a decrease in the price of our common stock. As a result, we cannot be assured that the combination of our acquisitions with our business will result in the realization of the full benefits anticipated from the transaction.

A significant portion of our purchased components are sourced in foreign countries, exposing us to additional risks that may not exist in the United States.

We source a significant portion of our purchased components overseas, primarily in Asia and Europe. Our international sourcing subjects us to a number of potential risks in addition to the risks associated with third-party sourcing generally. Such risks include:

- inflation or changes in political and economic conditions;
- logistical challenges, including extended container port congestion, and higher logistics costs;
- unstable regulatory environments;
- changes in import and export duties;
- domestic and foreign customs and tariffs;
- currency rate fluctuations;
- trade restrictions;
- labor or civil unrest;
- geopolitical conflict such as that experienced in Ukraine or the Middle East;
- disputes in our relationships with certain contract manufacturers or suppliers;
- communications challenges; and
- other restraints and burdensome taxes.

These factors have **had occurred** in the past and are currently having an adverse effect on our ability to efficiently and cost effectively source our purchased components overseas. Additionally, if the U.S. dollar were to depreciate significantly against the currencies in which we purchase raw materials from foreign suppliers, our cost of goods sold could increase materially, which would adversely affect our results of operations.

Risk factors related to legal and regulatory matters

We are subject to a variety of litigation and other legal and regulatory proceedings in the course of our business that could adversely affect our business, financial statements position or on our results of operations.

We are subject to a variety of litigation and other legal and regulatory proceedings incidental to our business (or the business operations of previously owned entities), including claims for damages arising out of the use of products or services and claims relating to product design, safety, manufacture and performance liability, contracts, commercial disputes, competition, sales and trading practices, employment issues, environmental matters, intellectual property rights, tax, securities, regulatory compliance, personal injury, insurance coverage, and acquisition-related matters, as well as other legal proceedings that arise in and outside of the ordinary course of our business. These matters may include claims for compensatory damages, punitive and consequential damages and/or injunctive relief. The defense of these matters may divert our management's attention, we may incur significant expenses in defending such matters, and we may be required to pay fines, penalties, damage awards or settlements or become subject to equitable remedies that could adversely affect our operations and financial statements.

The industries in which we operate are also periodically reviewed or investigated by regulators, and we are subject to and may continue to be subject to such investigations and claims, including by the U.S. Department of Justice (DOJ), CPSC and EPA, which could lead to enforcement actions, fines and penalties or the assertion of private litigation claims. **The While the Company is cooperating cooperates** with such governmental inquiries, it is not possible to predict **with certainty** the outcome of such claims, **or any other current or future claims**, investigations, and **lawsuits, and we lawsuits. We** could **in the future** incur judgments, fines or penalties or enter into settlements of lawsuits and claims that could have an adverse effect on our reputation, business, results of operations or financial condition in any particular period.

Additionally, the nature of our operations means that legal and compliance risks will continue to exist and additional legal proceedings and other contingencies, the outcome of which cannot be predicted with certainty, may arise from time to time. In addition, subsequent developments in legal proceedings or investigations may affect our assessment and estimates of loss contingencies recorded as a reserve and require us to make payments in excess of our reserves, which could have an adverse effect on our reputation, business and results of operations or financial condition.

Moreover, any insurance or indemnification rights that we may have may be insufficient or unavailable to protect us against such losses. In addition, developments in proceedings in any given period may require us to adjust the loss contingency estimates that we have recorded in our financial statements, record estimates for liabilities or assets previously not susceptible of to reasonable estimates or pay cash settlements or judgments. Any of these developments could adversely affect our financial statements in any particular period. We cannot assure our liabilities in connection with litigation and other legal and regulatory proceedings will not exceed our estimates or adversely affect our financial statements and reputation.

While we maintain insurance coverage in amounts that we believe are reasonable, we cannot assure we will be able to maintain this insurance on acceptable terms or that this insurance will provide sufficient coverage against potential liabilities that may arise. Any product liability claim may also include the imposition of punitive damages, the award of which may not be covered by insurance. Any claims brought against us, with or without merit, may have an adverse effect on our business and results of operations as a result of potential adverse outcomes, the expenses associated with defending such claims, the diversion of our management's resources and time and the potential adverse effect to our business reputation.

For further information, see Note, "18. Commitments and Contingencies" and our discussion of "Non-GAAP measures – Adjusted EBITDA" in Item 7 of this Annual Report on Form 10-K.

Our operations are subject to various environmental, health and safety laws and regulations, and non-compliance with or liabilities under such laws and regulations could result in substantial costs, fines, sanctions and claims.

Our operations are subject to a variety of foreign, federal, state and local environmental, health and safety laws and regulations including those governing, among other things, emissions to air; discharges to water; noise; and the generation, handling, storage, transportation, treatment and disposal of waste and other materials. In addition, under federal and state environmental laws, we could be required to investigate, remediate and/or monitor the effects of the release or disposal of materials both at sites associated with past and present operations and at third-party sites where wastes waste generated by our operations were was disposed. This liability may be imposed retroactively and whether or not we caused, or had any knowledge of, the existence of these materials and may result in our paying more than our fair share of the related costs. Violations of or liabilities under such laws and regulations could result in substantial costs, fines and civil or criminal proceedings or personal injury and workers' compensation claims.

Our products are subject to substantial government regulation.

Our products are subject to extensive statutory and regulatory requirements governing, among other things, emissions, noise, labeling, transport, product content and composition, product safety, and data privacy, including standards imposed by the EPA, CARB, CPSC and other regulatory agencies and certification bodies around the world. Also, as we increase our connectivity with our products and customers, we may be required to comply with additional data privacy and cybersecurity regulations. For example, personal privacy and data security have become significant issues in the United States, Europe, and in many other jurisdictions in which we operate. The regulatory framework for privacy and security issues worldwide is rapidly evolving and is likely to remain uncertain for the foreseeable future. In the United States, these include rules and regulations promulgated or pending under the authority of federal agencies, state attorneys general, legislatures, and consumer protection agencies. Internationally, many jurisdictions in which we operate have established their own data security and privacy legal framework with which we, relevant suppliers, and customers must comply. Although we have implemented certain policies, procedures, and, in other cases, contractual arrangements designed to facilitate compliance with applicable privacy and data security laws and standards, any challenges or perceived inability to adequately address privacy and security concerns, even if unfounded, or comply with applicable privacy and data security laws, regulations, and policies, could result in additional fines, costs, and liabilities to us, damage our reputation, inhibit sales, and adversely affect our business.

These The laws affecting our products are constantly evolving and many are becoming increasingly stringent. As a further example, recent CARB regulations that will prohibit future sales in California of certain small off-road engines may negatively affect the long-term sales of certain products we sell today in that state. In addition, some cities or municipalities have imposed, or are considering, limiting natural gas connections to new buildings or imposing additional permitting restrictions which could adversely affect the sales of certain products we sell in such jurisdictions. Changes in applicable laws or regulations, or in the enforcement thereof, could require us to redesign or recall our products and could adversely affect our business or financial condition in the future. Developing and marketing products to meet such new requirements could result in substantial additional costs that may be difficult to recover in some markets. In some cases, we may be required to modify our products or develop new products to comply with new regulations, particularly those relating to air emissions and carbon monoxide. Typically, additional costs associated with significant compliance modifications are passed on to the market customer.

The failure to comply with existing and future regulatory or product standards or requirements could adversely affect our position in the markets we serve, our reputation, business, results of operations or financial condition in any particular period.

Risk factors related to cybersecurity

Failures or security breaches of our networks or information technology systems could have an adverse effect on our business.

We rely heavily on information technology (IT) both in our products and services for customers and in our IT systems used to run our business. Further, we collect and store sensitive information in cloud-based data centers and on our networks. Government agencies and security experts have warned about growing risks of hackers, cyber-criminals, malicious insiders and other actors targeting confidential information and all types of IT systems. These actors may engage in fraudulent activities, theft of confidential or proprietary information and sabotage or ransomware.

We may experience interruptions, delays and outages in service and availability from time to time, including infrastructure changes, human or software errors, upgrade disruptions and capacity constraints. Our IT systems, our connected products, and our confidential information may be vulnerable to damage or intrusion from a variety of attacks including computer viruses, worms or other malicious software programs. The risk of such attacks may increase as we integrate newly acquired companies or develop new connected products and related software. These attacks pose a risk to the security of our products, private data, systems and networks and those of our customers, suppliers and third-party service providers, as well as to the confidentiality of our information and the integrity and availability of our data. Use of artificial intelligence software may also create risks from the unintentional disclosure of proprietary, confidential, personal or otherwise sensitive information. While we attempt to mitigate these risks through board oversight, hiring additional internal cyber-security professionals to manage these risks, enhancing controls, due diligence, employee training and communication, third party intrusion testing, system hardening, email and web filters, regular patching, multi-factor authentication, surveillance, encryption, and other measures, we remain vulnerable to information security threats.

We monitor certain cyber security threats and vulnerabilities in our systems, and we have experienced viruses and attacks targeting our IT systems and networks. Such prior events, to date, have not had a material impact on our financial condition, results of operations or liquidity. Despite the precautions we take, we have had, and could have again, an intrusion or infection of our systems or connected products. While such intrusions or infections to date have not resulted in the significant disruption of our business, or a loss of proprietary or confidential information, we cannot guarantee the same for future intrusions or infections. Similarly, an An attack on our IT systems or connected products could result in theft or disclosure of trade secrets or other intellectual property, a breach of confidential customer or employee information, or product failure or misuse. Any such events could have an adverse impact on sales, harm our reputation and cause us to incur legal liability and increased costs to address such events and related security concerns. As the threats evolve and become more potent, we may incur additional costs to secure the products that we sell, as well as our data and infrastructure of networks and devices.

See "Item 1C. Cybersecurity" of this Annual Report on Form 10-K for additional information related to cybersecurity risks.

Risk factors related to our capital structure

We have indebtedness which could adversely affect our cash flow and our ability to make payments on our indebtedness.

As of December 31, 2023 December 31, 2024, we had total indebtedness of \$o1,575.2 f \$1,334.2 million. Our level of indebtedness increases the possibility that we may be unable to generate sufficient cash sufficient to pay, when due, the principal of, interest on or other amounts due in respect of our indebtedness. While we maintain interest rate swaps covering a portion of our outstanding debt, our interest expense could increase if interest rates increase because debt under our credit facilities bears interest at a variable rate based on Secured Overnight Financing Rate (SOFR) or other base rate. In connection with our credit agreement amendment in June 2022, SOFR became the new benchmark interest rate for the new Tranche A Term Loan Facility and the Revolving Facility, and all LIBOR provisions applicable to the existing Tranche B Term Loan Facility were replaced with SOFR provisions. If we do not have sufficient earnings to service our debt, we may be required to refinance all or part of our existing debt, sell assets, borrow more money or sell securities, none of which we can guarantee we will be able to do. can accomplish. Our Tranche B Term Loan B Facility matures on December 13, 2026 July 3, 2031, and our Tranche A Term Loan A Facility as well as our Revolving Facility mature on June 29, 2027.

The terms of our credit facilities restrict our current and future operations, particularly our ability to respond to changes in our business or to take certain actions.

Our credit facilities contain, and any future indebtedness of ours or our subsidiaries would likely contain, a number of restrictive covenants that impose operating and financial restrictions on us and our subsidiaries, including limitations on our ability to engage in acts that may be in our best long-term interests. These restrictions set limitations on, among other things, our ability to:

- incur liens;
- incur or assume additional debt or guarantees or issue preferred stock;
- pay dividends, or make redemptions and repurchases, with respect to capital stock;
- prepay, or make redemptions and repurchases of, subordinated debt;
- make loans and investments;
- make capital expenditures;
- engage in mergers, acquisitions, asset sales, sale/leaseback transactions and transactions with affiliates;
- change the business conducted by us or our subsidiaries; and
- amend the terms of subordinated debt.

The operating and financial restrictions in our credit facilities and any future financing agreements may adversely affect our ability to finance future operations or capital needs or to engage in other business activities. A breach of any of the restrictive covenants in our credit facilities would result in a default. If any such default occurs, the lenders under our credit facilities may elect to declare all outstanding borrowings, together with accrued interest and other fees, to be immediately due and payable, or enforce their security interest, any of which would result in an event of default. The lenders will also have the right in these circumstances to terminate any commitments they have to provide further borrowings.

We may need additional capital to finance our growth strategy or to refinance our existing credit facilities, and we may not be able to obtain it on acceptable terms, or at all, which may limit our ability to grow.

We may require additional financing to expand our business. Financing may not be available to us or may be available to us only on terms that are not favorable. The terms of our senior secured credit facilities limit our ability to incur additional debt. In addition, economic conditions, including a downturn in the credit markets, could impact our ability to finance our growth on acceptable terms or at all. If we are unable to raise additional funds or obtain capital on acceptable terms, we may have to delay, modify or abandon some or all of our growth strategies. In the future, if we are unable to refinance our credit facilities on acceptable terms, our liquidity and operating results could be adversely affected.

Our total assets include a substantial amount of goodwill and other indefinite-lived intangibles. If we determine these have become impaired, our net income could be materially adversely affected.

Goodwill represents the excess of cost over the fair market value of net assets acquired in business combinations. Indefinite-lived intangibles are comprised of certain tradenames. At December 31, 2023 As of December 31, 2024, goodwill and other indefinite-lived intangibles totaled tota \$1,560.7 led \$1,563.5 million. We review goodwill and other intangibles at least annually for impairment and any excess in carrying value over the estimated fair value is charged to the statement of comprehensive income. Future impairment may result from, among other things, deterioration in the performance of an acquired business or product line, adverse market conditions, a significant increase in interest rate, changes in the competitive landscape, adverse changes in applicable laws or regulations, including changes that restrict the activities of an acquired business or product line, and a variety of other circumstances including any of the risk factors noted above. A reduction in net income resulting from the write-down or impairment of goodwill or indefinite-lived intangibles could have a material adverse effect on our financial statements. Refer to the Critical Accounting Policies and Estimates in Item 7 of this Annual Report on Form 10-K for further information regarding our process for evaluating goodwill for impairment.

General risk factors

The market price of our common stock may be volatile or may decline regardless of our operating performance.

The market price of our common stock has been and could be subject to wide fluctuations in response to, among other things, the other risk factors described herein, and other factors beyond our control, such as quarterly variations in operating results, announcements of technology innovations or new products by us or our competitors, changes in financial estimates and recommendations by securities analysts, the operating and stock price performance of other companies that investors may deem comparable to us, and news reports relating to trends in our markets or general economic conditions. These fluctuations often have been unrelated or disproportionate to the operating performance of those companies. These broad market and industry fluctuations, as well as general economic, political and market conditions, such as recessions, interest rate changes or international currency fluctuations, may negatively affect the market price of our common stock, regardless of our operating performance.

We have experienced and may continue to see volatility in the market price of our stock price. As a result, we We have been subject to securities class action litigation relating to the market price of our stock, and may continue to be the target of this type of litigation in the future. Securities litigation against us could result in substantial costs and divert our management's attention from other business concerns, which could seriously harm our business.

For further information, see Note, "18. Commitments and Contingencies" and our discussion of "Non-GAAP measures - Adjusted EBITDA" in Item 7 of this Annual Report on Form 10-K.

Our business is subject to potential tax liabilities.

We are subject to income tax, indirect tax or other tax claims by tax agencies in jurisdictions in which we conduct business. In the ordinary course of our business, there are many transactions and calculations where the ultimate income tax, indirect tax, or other tax determination is uncertain. Although we believe our tax estimates are reasonable, we cannot be certain that the final determination of our tax audits and litigation will not be materially different from that which is reflected in historical tax provisions and accruals. Should additional taxes be assessed as a result of an audit, assessment or litigation, there could be a material adverse effect on our cash, tax provisions and net income in the period or periods for which that determination is made.

Item 1B. Unresolved Staff Comments

None.

Item 1C. Cybersecurity

The Company's management and Board recognize the importance of strong oversight of cybersecurity risk, information security and technology in maintaining the trust and confidence of our customers, partners, employees and stockholders. Our processes for assessing, identifying and managing material risks from cybersecurity threats is incorporated into our Enterprise Risk Management (ERM) program in a similar fashion to other legal, compliance, operational, and financial risk areas. The Company maintains cybersecurity measures aligned with the National Institute of Standards and Technology Cybersecurity Framework (Framework) which organizes cybersecurity risks into five six categories: identify, protect, detect, respond, recover and recover. Our processes for assessing, identifying govern, and managing material looks to other standards as well to help identify, assess, and manage cybersecurity risks from cybersecurity threats is incorporated into relevant to our Enterprise Risk Management (ERM) program and evaluated against such Framework. Our information security and ERM teams coordinate to regularly review and assess these risks using a wide range of tools and services. business.

Our Chief Information Officer (CIO) oversees our information systems and cybersecurity risk function and reports to our Chief Executive Officer (CEO). He has over 20 years of experience in leading information systems management, strategy, and operational execution, including incident prevention, management, and response. Our Company's Chief Information Security Officer (CISO) is actively managed through responsible for developing and implementing our information security program and reports to our CIO. The CISO has over 25 years of experience supporting cybersecurity and information technology. They are supported by a direct and cross-functional team of professionals with expertise and experience in threat assessment and detection, mitigation strategies, incident response, training, and regulatory compliance.

In addition, we have established a Cybersecurity Steering Committee comprised of members of executive leadership. The Steering Committee, in which our CIO and CISO participate, meets regularly and has established Company-wide policies and standards concerning cybersecurity matters. These policies directly or indirectly relate to cybersecurity and include antivirus cover areas such as malware protection, remote access, multifactor authentication, containment of confidential information and the use of the internet, email and wireless devices. We have an established incident response plan led by our CIO and CISO and depending on the nature and severity of the incident, requires escalating notifications up to our CEO and Board.

Our Board oversees our enterprise risk management activities. The Company's Chief Information Security Officer (CISO) is responsible for developing Board receives periodic updates on our cybersecurity risk management program as well as regular updates and implementing our information security program education on relevant legislation and regularly reports on cybersecurity matters trends related to executive management and cybersecurity. Our Audit Committee assists the Board in its oversight role and receives regular reports from management on the Company's information systems and cybersecurity program. Several members of Directors. The CISO has over 25 years of our Board's Audit Committee have expertise and experience supporting in cybersecurity, and information technology and one director is a board member the President of a local Cyber Threat Response Alliance organization. Led by our CISO, team members who support our information security program have relevant educational and industry experience. major cybersecurity services provider.

The CISO and information technology security team conduct regular risk assessments to assess the overall technology infrastructure and related business processes, identify and address potential security gaps and vulnerabilities, and identify areas requiring additional investment and resources, focus. These risk assessments extend to our supply chain, where cybersecurity health assessments are employed for our critical suppliers. The results are used to calculate a Cybersecurity Risk Score, a key component of our Supply Chain Scorecard used to proactively identify and manage potential risks. Additionally, we generally require those certain third parties that could introduce significant cybersecurity risk to us to agree by contract to manage their cybersecurity risks in specified ways, as appropriate. Risk assessments are also performed on new products and software and as part of our new product development process.

As part of our risk assessments, we periodically engage third-party services for network penetration testing and security evaluations. We also periodically assess evaluations, conduct annual incident response table-top exercises, and perform regular testing of controls related to our technology infrastructure and business processes to identify and address potential security gaps and vulnerabilities. An ISO 27001 certification is maintained within financial information systems by our Energy Services business. Internal Audit function.

As chair of the Cybersecurity Steering Committee, the CISO holds regular meetings to provide strategic updates on the Company's cybersecurity infrastructure and preparedness. These meetings, supplemented by regular updates to the Board of Directors, are instrumental in aligning with the Company's strategic goals. Our Board of Directors is also provided with ongoing education including updates on relevant legislation and regularly receives reports on cybersecurity risks, threats, incidents and other trends. Several members of our Board's Audit Committee have expertise and experience in cybersecurity, and one director is the President of a major cybersecurity services provider.

In order to promote a culture of security awareness across our organization, all employees are required to complete an annual cybersecurity awareness training and are provided with periodic information updates on cybersecurity threats. We also maintain cyber insurance policies to help partially mitigate the financial impact of a significant cybersecurity incident.

Despite our best efforts, we cannot guarantee that our security measures will prevent all potential cybersecurity incidents or breaches. Our systems are continually subject to sophisticated and evolving cyber threats, such as phishing, ransomware, social engineering, and advanced persistent threats. However, to date, we have not been subject to any incidents or successful cyber-attacks that have materially impacted our operations or financial condition. The Company has invested in developing and acquiring cybersecurity capabilities allowing us to monitor threats and manage incident response. We have also developed internal policies to mitigate cybersecurity incidents, including providing clear guidelines for incident classification, escalation, and response. We recognize the importance of continued monitoring and improvement of our cybersecurity program, and will continue to invest in evolve our security controls, incident response capabilities, and third-party vendor management protocols.

For additional information on the cybersecurity risks that we face, also see Item 1A. "Risk Factors" of this Annual Report on Form 10-K.

Item 2. Properties

We own or lease manufacturing, distribution, R&D, and office facilities globally totaling over **five seven** million square feet. We also utilize third party inventory warehouses that accommodate material storage and rapid response requirements of our customers. The following table provides information about our principal owned or leased facilities exceeding 20,000 square feet:

Location	Owned/ Leased	Activities	Segment
Waukesha, WI	Owned	Corporate headquarters, R&D	Domestic
Pewaukee, WI	Owned	Sales, office	Domestic
Eagle, WI	Owned	Manufacturing, office, training	Domestic
Whitewater, WI	Owned	Manufacturing, office, distribution warehouse	Domestic
Oshkosh, WI	Owned	Manufacturing, office, warehouse, R&D	Domestic
Berlin, WI	Owned	Manufacturing, office, warehouse, R&D	Domestic
Fond du Lac, WI	Leased	Warehouse	Domestic
Jefferson, WI	Owned	Manufacturing, office, distribution, R&D	Domestic
Jefferson, WI	Leased	Storage, distribution	Domestic
Janesville, WI	Leased	Distribution	Domestic
Richfield, WI	Leased	Warehouse Storage, distribution	Domestic
Trenton, SC	Owned	Manufacturing, office, warehouse, distribution	Domestic
Stockton, CA	Leased	Sales, office, warehouse, training	Domestic
Corona, CA	Leased	Sales, office, storage	Domestic
Hamilton, OH	Leased	Storage	Domestic
Maquoketa, IA	Owned	Storage, rental property	Domestic
South Burlington, VT	Leased	Office, sales, R&D	Domestic
South Portland, ME	Leased	Sales, office, R&D	Domestic
Marlborough, MA	Leased	Sales, office, warehouse	Domestic
Reno, NV	Leased	Warehouse, R&D	Domestic
Toronto, Canada	Leased	Office, sales, R&D	Domestic
Mexico City, Mexico	Owned	Warehouse Storage	International
Hidalgo, Mexico	Owned	Manufacturing, sales, distribution, warehouse, office, R&D	International
Casole d'Elsa, Italy	Leased Owned	Manufacturing, office, warehouse, R&D	International
Balsicas, Spain	Leased	Manufacturing, office, warehouse, R&D	International
Foshan, China	Owned	Manufacturing, office, warehouse, R&D	International
Saint-Nizier-sous-Charlieu, France	Leased	Sales, office, warehouse	International
Cravinhos, Brazil	Leased	Manufacturing, office, warehouse	International
Sydney, Australia	Leased	Sales, office, warehouse	International
Fellbach, Germany	Leased	Sales, office, warehouse	International
Pfullingen, Germany	Leased	Manufacturing, sales, distribution, warehouse, office, R&D	International
Suzhou, China	Leased	Office, R&D	International
Rugby, United Kingdom	Leased	Manufacturing, office, warehouse, R&D	International
Celle, Germany Staffordshire, United Kingdom	Leased	Manufacturing, office, warehouse, R&D	International
Charzyno, Poland	Owned	Warehouse, storage Office	International
West Bengal, India	Leased	Manufacturing, warehouse	International
Villanova d'Ardenghi, Italy	Owned	Manufacturing, warehouse	International
Hunmanby, United Kingdom	Owned	Manufacturing, warehouse, sales, distribution, office, R&D	International
Celle, Germany	Owned	Manufacturing, office, warehouse, R&D, sales	International
Kolkata, India	Leased	Manufacturing, warehouse	International

In addition to the countries represented above, the Company operates small facilities in the United Arab Emirates, Romania, Bahrain, and Colombia.

As of **December 31, 2023** **December 31, 2024**, substantially all of our domestically-owned and a portion of our internationally-owned properties are subject to collateral provisions under our senior secured credit facilities.

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Item 3. Legal Proceedings

See Note 18, "Commitments and Contingencies," to the consolidated financial statements in Item 8 of this Annual Report on Form 10-K for further information on the Company's legal proceedings.

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

Shares of our common stock are traded on the New York Stock Exchange (NYSE) under the symbol "GNRC."

Purchases of Equity Securities By the Issuer and Affiliated Purchasers

The following table summarizes the stock repurchase activity for the three months ended **December 31, 2023** **December 31, 2024**, which consisted of **stock repurchases made as authorized under previously announced stock repurchase programs, as well as** the withholding of shares upon the vesting of restricted stock awards to pay related withholding taxes on behalf of the recipient:

	Total Number of Shares Purchased	Average Price Paid per Share	Total Number Of Shares Purchased As Part Of Publicly Announced Plans Or Programs	Approximate Dollar Value Of Shares That May Yet Be Purchased Under The Plans Or Programs
10/01/23 - 10/31/23	1,261	\$ 101.89	-	\$ 177,793,103
11/01/23 - 11/30/23	780,232	\$ 109.96	779,895	\$ 92,033,334
12/01/23 - 12/31/23	536,368	\$ 123.31	533,000	\$ 26,297,232
Total	1,317,861	\$ 115.39	1,312,895	

	Total Number of Shares Purchased	Average Price Paid per Share	Total Number Of Shares Purchased As Part Of Publicly Announced Plans Or Programs	Approximate Dollar Value Of Shares That May Yet Be Purchased Under The Plans Or Programs
10/01/24 - 10/31/24	830	\$ 158.40	-	\$ 347,256,871
11/01/24 - 11/30/24	260	\$ 169.93	-	\$ 347,256,871
12/01/24 - 12/31/24	23,094	\$ 189.67	-	\$ 347,256,871
Total	24,184	\$ 188.39		

For equity compensation plan information, refer to Note 17, "Share Plans," to the consolidated financial statements in Item 8 of this Annual Report on Form 10-K. For information on the Company's stock repurchase plans, refer to Note 13, "Stock Repurchase Programs," to the consolidated financial statements. Additionally, statements in Item 8 of this Annual Report on February 12, 2024, our Board of Directors approved a new stock repurchase program that allows for the repurchase of up to \$500.0 million of our common stock over the next twenty-four months. The new program replaces the prior share repurchase program, which had approximately \$26.3 million remaining available for repurchase when the new program was approved. Form 10-K.

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Stock Performance Graph

The line graph below compares the cumulative total stockholder return on our common stock with the cumulative total return of the Standard & Poor's (S&P 500) Index, the S&P MidCap 400 Index, and the S&P 500 Industrial Index, for the five-year period ended **December 31, 2023** **December 31, 2024**. The graph and table assume **that** \$100 was invested on **December 31, 2018** **December 31, 2019**, in each of our common stock, the S&P 500 Index, the S&P MidCap 400 Index, and the S&P 500 Industrial Index, and that all dividends were reinvested. Cumulative total stockholder returns for our common stock, the S&P 500 Index, the S&P MidCap 400 Index, and the S&P 500 Industrial Index, are based on our fiscal year.



Company / Market / Peer Group	12/31/2018	12/31/2019	12/31/2020	12/31/2021	12/31/2022	12/31/2023	12/31/2019	12/31/2020	12/31/2021	12/31/2022	12/31/2023	12/31/2024
Generac Holdings Inc.	\$100.00	\$202.37	\$457.44	\$707.81	\$202.43	\$259.87	\$100.00	\$226.04	\$349.76	\$100.03	\$128.42	\$154.04
S&P 500 Index - Total Returns	100.00	131.49	155.68	200.37	164.08	207.21	100.00	118.40	152.39	124.79	157.59	197.02
S&P MidCap 400 Index	100.00	126.20	143.44	178.95	155.58	181.15	100.00	113.66	141.80	123.28	143.54	163.54
S&P 500 Industrials Index	100.00	129.37	143.68	174.02	164.49	194.31	100.00	111.06	134.52	127.15	150.20	176.44

Holders

As of **February 16, 2024** **February 14, 2025**, there were **1,138,921** registered holders of record of Generac's common stock. A substantially greater number of holders of Generac common stock are "street name" or beneficial holders, whose shares are held of record by banks, brokers and other financial institutions.

Dividends

We do not have plans to pay dividends on our common stock in the foreseeable future. However, in the future, subject to factors such as general economic and business conditions, our financial condition and results of operations, our capital requirements, our future liquidity and capitalization, and other such factors that our Board **of Directors** may deem relevant, we may change this policy and choose to pay dividends. Our ability to pay dividends on our common stock is currently limited by the terms of our senior secured credit facilities and may be further restricted by any future indebtedness we incur. Dividends from, and cash generated by our subsidiaries will be our principal sources of cash to repay indebtedness, fund operations, repurchase shares of common stock and pay dividends. Accordingly, our ability to pay dividends to our stockholders is dependent on the earnings and distributions of funds from our subsidiaries.

Securities Authorized for Issuance Under Equity Compensation Plans

For information on securities authorized for issuance under our equity compensation plans, refer to **Note 17, "Share Plans,"** and "Item 12 - Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters," **of this Annual Report on Form 10-K** which is incorporated herein by reference.

Recent Sales of Unregistered Securities

None.

Use of Proceeds from Registered Securities

Not applicable.

Item 6. [Reserved]

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

The following discussion and analysis of our financial condition and results of operations should be read together with "Item 1 – Business," the consolidated financial statements, and the related notes thereto in Item 8 of this Annual Report on Form 10-K. This discussion contains forward-looking statements, based on **current our expectations at the time of filing this Annual Report on Form 10-K** and related to future events and our future financial performance, that involve risks and uncertainties. Our actual results may differ materially from those anticipated in these forward-looking statements as a result of many factors, including those set forth under "Item 1A. - Risk Factors." **of this Annual Report on Form 10-K.**

Overview

Generac is a **leading total energy technology** solutions company that **provides backup empowers people to use energy on their own terms.** Founded in 1959, Generac is a leading global designer, manufacturer, and **prime provider of a wide range of energy technology solutions.** The Company provides power generation **systems for residential and C&I applications, solar + battery equipment, energy storage solutions, smart home systems, energy management devices & solutions, and energy services, advanced other power grid software platforms, products serving the residential, light commercial, and engine- & battery-powered tools and equipment. As an industrial markets.** The Company continues to **expand its energy technology solutions company that is "Powering offerings for homes and businesses in its mission to Power a Smarter World", our corporate purpose is to World and lead the evolution to more resilient, efficient, and sustainable energy solutions around the world. solutions.**

Further information regarding our business is provided in "Part I, Item 1. Business" of this Annual **Report. Report on Form 10-K.**

Business Drivers and Operational Factors

"Part I, Item 1. Business" of this Annual Report **on Form 10-K** contains information regarding business drivers, including key mega-trends and strategic growth themes under the subheading "Mega-Trends, Strategic Growth Themes, and Additional Business Drivers."

Factors Affecting Results of Operations

We are subject to various factors that can affect our results of operations, which we attempt to mitigate through factors we can control, including continued product development, expanded distribution, pricing, cost control, and hedging. Certain operational and other factors that affect our business include the following:

Effect of commodity, currency, component price fluctuations, and resource availability. Industry-wide price fluctuations of key commodities, such as steel, copper and aluminum, along with other components we use in our products, as well as changes in labor costs required to produce our products, can have a material impact on our results of operations. Acquisitions in recent years have increased our use of advanced electronic components and battery cells, as well as further expanded our commercial and operational presence outside of the United States. Our international acquisitions, along with our existing global supply chain, expose us to fluctuations in foreign currency exchange rates and regulatory tariffs that can also have a material impact on our results of operations.

We have historically attempted to mitigate the impact of any inflationary pressures through improved product design and sourcing, manufacturing efficiencies, price increases, and select hedging transactions. **We have implemented multiple price increases over the past couple of years to help mitigate the impact of rising costs, and we continued to realize the benefit of these pricing actions in 2023.** Our results are also influenced by changes in fuel prices in the form of freight rates, which in some cases are accepted by our customers and in other cases are paid by us.

Seasonality. Although there is demand for our products throughout the year, in each of the past five years, approximately 19% to 25% of our net sales occurred in the first quarter, 22% to 28% in the second quarter, 24% to 28% in the third quarter and 23% to 31% in the fourth quarter, with different seasonality depending primarily on the occurrence, timing and severity of major power outage activity in each year. Major outage activity is unpredictable by nature and, as a result, our sales levels and profitability may fluctuate from period to period. The seasonality experienced during a major power outage, and for the subsequent quarters following the event, will vary relative to other periods where no major outage events occurred.

Russia-Ukraine Conflict. Acquisitions. In February 2022, Russia commenced military action against Ukraine. In response, **Over the U.S. and certain other countries imposed significant sanctions and export controls against Russia, Belarus and certain individuals and entities connected to Russian or Belarusian political, business, and financial organizations. In March 2022, years, we announced have executed a number of acquisitions that support our suspension strategic plan. A summary of operations and sales the recent acquisitions can be found in Russia.** However, the situation remains uncertain, and it is difficult to predict the impact that the conflict and actions taken in response **Note 1, "Description of Business"** to the conflict will have consolidated financial statements included in Item 8 of this Annual Report on our business. In particular, the situation could increase our costs, disrupt our supply chain, significantly hinder our ability to find materials or key single-sourced components we need to make certain products, or otherwise adversely affect our business and results of operations. **Form 10-K.**

Factors influencing interest expense. Influencing Interest Expense

Interest expense can be impacted by a variety of factors, including market fluctuations in SOFR, interest rate election periods, interest rate swap agreements, repayments or borrowings of indebtedness, and amendments to our credit agreements. In connection with our credit agreement amendment in June 2022, SOFR became the new benchmark interest rate for the new Tranche A Term Loan Facility and the Revolving Facility, and all LIBOR provisions in the existing Tranche B Term Loan Facility were replaced with SOFR provisions. Interest expense increased during 2023 compared to 2022, primarily due to increased borrowings and higher interest rates. Refer to Note 12, "Credit Agreements," to the consolidated financial statements included in Item 8 of this Annual Report on Form 10-K for further information. The decrease in interest expense in the current year was primarily driven by lower borrowings and lower SOFR interest rates during the year.

Factors influencing provision Influencing Provision for income taxes Income Taxes and cash Cash Income Taxes Paid income taxes paid. As of December 31, 2021, the tax-deductible goodwill and intangible assets from our acquisition by CCMP Capital Advisors, LLC in 2006 were fully amortized.

The expiration of this significant tax shield resulted in a higher cash effective income tax obligation rates for the years ended December 31, 2024 and 2023 were 22.6% and 25.2%, respectively. The decrease in 2022 and will continue our 2024 effective tax rate was primarily due to result unfavorable discrete tax items in a the prior year that did not repeat in the current year, as well as favorable earnings mix with higher income earnings in lower tax obligation on a go-forward basis. jurisdictions in the current year.

On August 16, 2022, the U.S. government enacted the Inflation Reduction Act (the Act). The Act in part provides funding and tax incentives for certain clean energy products and projects. While the Act did not have a material impact on our the financial results of the current period, we will continue to review the Act and any regulations or guidance issued by the U.S. Treasury Department or by a state which may provide a tax benefit or expense. We will update our future tax provisions based on also monitor any changes to the Act under the new regulations or guidance accordingly. policy environment.

In 2021, the Organization for Economic Cooperation and Development (OECD) released Pillar Two Global Anti-Base Erosion model rules, designed to ensure large corporations are taxed at a minimum rate of 15% in all countries of operation. The OECD continues to release guidance and countries are implementing legislation to adopt the rules, some of which are became effective on January 1, 2024. The United States has not yet enacted legislation implementing Pillar Two. We are continuing to evaluate the Pillar Two rules and their potential impact on future periods, but periods. There was no impact to the financial results of the year ended December 31, 2024, and we do not expect the rules to have a material impact on our effective tax rate. rate for the following year. We will update our future tax provisions based on new regulations or guidance accordingly.

Components of Net Sales and Expenses Expenses

Net Sales Sales

Our net sales primarily consist of product sales the sale of products to our customers. This includes sales of our power generation equipment, energy storage systems, and other power products to the residential, commercial and industrial markets, as well as service parts to our dealer network. Net sales also include shipping and handling charges billed to customers, with the related freight costs included in cost of goods sold. Additionally, we offer other services, including extended warranties, installation, maintenance, data center and telecom facility design and build, remote monitoring, and grid services to utilities in certain circumstances. These services accounted for for less than 4% of our net sales for the year ended December 31, 2023 December 31, 2024. Refer to Note 2, "Summary of Accounting Policies - Revenue Recognition," to the consolidated financial statements in Item 8 of this Annual Report on Form 10-K for further information on our revenue streams and related revenue recognition accounting policies.

We are not dependent on any one channel or customer for our net sales, with no single customer representing more than 4% 5% of our net sales, and our top ten customers representing less than 21% 16% of our net sales in aggregate for the year ended December 31, 2023 December 31, 2024.

Costs of Goods Sold Sold

The principal elements of costs of goods sold are component parts, raw materials, inbound and outbound freight, factory overhead and labor. Component parts and raw materials comprised approximately 69% of costs of goods sold for the year ended December 31, 2023. The principal component parts are engines, alternators, batteries, electronic controls, and steel enclosures. We design and manufacture air-cooled engines for certain of our generators up to 26kW, along with certain liquid-cooled, natural gas engines. We source engines for certain of our smaller products and all of our diesel products. For certain natural gas engines, we source the base engine block, and then add a significant amount of value engineering, sub-systems and other content to the point that we are recognized as the original equipment manufacturer (OEM) of those engines. We design and manufacture many of the alternators for our generators. We also manufacture other generator components where we believe we have a design and cost advantage. We source component parts from an extensive global network of reliable, high-quality suppliers. In some cases, these relationships are proprietary. For certain energy technology products, we source these products complete from certain contract manufacturers using our designs.

The principal sourced raw materials used in the manufacturing process are steel, copper and aluminum. We are susceptible to fluctuations in the cost of these commodities, impacting our costs of goods sold. We seek to mitigate the impact of commodity prices price changes on our business through a continued focus on global sourcing, product design improvements, manufacturing efficiencies, price increases and select hedging transactions. We are also impacted by foreign currency fluctuations given our global supply chain. There is typically a lag between raw material price fluctuations and their effect on our costs of goods sold.

We have historically attempted to mitigate the impact of any inflationary pressures through improved product design and sourcing, manufacturing efficiencies, price increases, and select hedging transactions. We have implemented multiple price increases over the past couple of years to help mitigate the impact of rising costs, and we continued to realize the

benefit of these pricing actions in 2023. Our results are also influenced by changes in fuel prices in the form of freight rates, which in some cases are accepted by our customers and in other cases are paid by us.

The balance of cost of goods sold include our manufacturing and warehousing facilities, factory overhead, labor and shipping costs. Factory overhead includes utilities, insurance, support personnel, depreciation, general supplies, and maintenance. Although we attempt to maintain a flexible manufacturing cost structure, our margins can be impacted if we cannot timely adjust labor and manufacturing costs to match fluctuations in net sales.

Operating Expenses

Our operating expenses consist of costs incurred to support our sales, marketing, distribution, service parts, warranty, engineering, information systems, human resources, accounting, finance, risk management, legal and tax functions, among others. These expenses include, among others, personnel costs such as salaries, bonuses, employee benefit costs, payroll taxes, and share-based compensation cost, and are classified into three categories: selling and service, research and development, and general and administrative. Additionally, the amortization expense related to our finite-lived intangible assets is included within operating expenses.

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Selling and service. Our selling and service expenses consist primarily of personnel expense, costs, marketing expense, standard assurance warranty expense, bad debt provisions, and other sales expenses. Our personnel expense costs recorded in selling and services expenses includes include the expense of our sales force, customer support teams, outbound shipping and distribution functions, and other personnel involved in the marketing, sales and service of our products. Standard warranty expense is estimated based on historical trends or based on specific warranty matters as they become known and reasonably estimable. Our marketing expenses include media advertising, promotional expenses, co-op advertising costs, direct mail costs, printed material costs, product display costs, market research expenses, and trade show expenses. Marketing expenses are generally related to the launch of new product offerings, opportunities to create market awareness for our products, and general brand awareness marketing efforts. Our marketing campaigns are an important source for lead generation.

Research and development. Our research and development expenses include mechanical engineering, electronics engineering, and software development costs and they support numerous projects covering all of our product lines. They also support our connectivity, grid services, remote monitoring, and energy management initiatives. We operate engineering facilities with extensive capabilities at many locations globally and employ approximately 1,100 personnel around the world with a focus on new product development, existing product improvement and cost containment. We are committed to innovation, research and development and rely on a combination of patents and trademarks to establish and protect our proprietary rights. Our research and development costs are expensed as incurred.

General and administrative. Our general and administrative expenses include personnel costs for accounting, information technology, human resources, legal, general and administrative employees; accounting, legal and professional services fees; information technology costs; insurance; travel and entertainment expense; adjustments to contingent acquisition consideration; share-based compensation costs; and other corporate expenses.

Acquisition related costs. Acquisition related costs are external costs incurred in connection with a business combination including legal fees, professional and advisory services, stamp tax, and indemnity and warranty insurance premiums.

Amortization of intangibles. Our amortization of intangibles expense includes the straight-line amortization of finite-lived tradenames, customer lists, patents and technology, and other intangibles assets.

Other (Expense) Income

Other (expense) income includes the interest expense on our outstanding borrowings, amortization of debt deferred financing costs and original issue discount, credit facility commitment fees, and interest accretion on contingent acquisition consideration. Other (expense) income also includes other financial items such as losses on extinguishment of debt, investment income earned on our cash and cash equivalents, and gains/losses on the sale of certain investments, investments, and changes in the fair value of our investment in Wallbox N.V. warrants and equity securities.

Results of Operations

A detailed discussion of the year-over-year changes from the Company's fiscal 2021 2022 results of operations to fiscal 2022 2023 results of operations can be found in the Management's Discussion and Analysis section of the Company's fiscal 2022 2023 Annual Report on Form 10-K filed February 22, 2023 February 21, 2024.

Year ended December 31, 2023 December 31, 2024 compared to year ended December 31, 2022 December 31, 2023

The following table sets forth our consolidated statement of operations data for the periods indicated:

(U.S. Dollars in thousands)	Year Ended December 31,				Year Ended December 31,			
	2023	2022	\$ Change	% Change	2024	2023	\$ Change	% Change
Net sales	\$ 4,022,667	\$ 4,564,737	\$ (542,070)	-11.9%	\$ 4,295,834	\$ 4,022,667	\$ 273,167	6.8%
Cost of goods sold	2,657,236	3,042,733	(385,497)	-12.7%	2,630,208	2,657,236	(27,028)	-1.0%
Gross profit	1,365,431	1,522,004	(156,573)	-10.3%	1,665,626	1,365,431	300,195	22.0%
Operating expenses:								
Selling and service	448,199	496,260	(48,061)	-9.7%	526,446	448,199	78,247	17.5%
Research and development	173,443	159,774	13,669	8.6%	219,600	173,443	46,157	26.6%
General and administrative	252,936	194,861	58,075	29.8%	285,095	253,396	31,699	12.5%
Acquisition related costs	460	1,459	(999)	-68.5%				
Amortization of intangible assets	104,194	103,320	874	0.8%	97,743	104,194	(6,451)	-6.2%
Total operating expenses	979,232	955,674	23,558	2.5%	1,128,884	979,232	149,652	15.3%
Income from operations	386,199	566,330	(180,131)	-31.8%	536,742	386,199	150,543	39.0%
Total other expense, net	(95,899)	(57,864)	(38,035)	-65.7%	(127,304)	(95,899)	(31,405)	-32.7%
Income before provision for income taxes	290,300	508,466	(218,166)	-42.9%	409,438	290,300	119,138	41.0%
Provision for income taxes	73,180	99,596	(26,416)	-26.5%	92,460	73,180	19,280	26.3%
Net income	217,120	408,870	(191,750)	-46.9%	316,978	217,120	99,858	46.0%
Net income attributable to noncontrolling interests	2,514	9,368	(6,854)	-73.2%	663	2,514	(1,851)	-73.6%
Net income attributable to Generac Holdings Inc.	\$ 214,606	\$ 399,502	\$ (184,896)	-46.3%	\$ 316,315	\$ 214,606	\$ 101,709	47.4%

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The following sets forth our reportable segment information for the periods indicated:

(U.S. Dollars in thousands)	Net Sales by Reportable Segment				Net Sales by Reportable Segment			
	Year Ended December 31,				Year Ended December 31,			
	2023	2022	\$ Change	% Change	2024	2023	\$ Change	% Change
Domestic	\$ 3,276,324	\$ 3,867,866	\$ (591,542)	-15.3%	\$ 3,599,149	\$ 3,276,324	\$ 322,825	9.9%
International	746,343	696,871	49,472	7.1%	696,685	746,343	(49,658)	-6.7%
Total net sales	\$ 4,022,667	\$ 4,564,737	\$ (542,070)	-11.9%	\$ 4,295,834	\$ 4,022,667	\$ 273,167	6.8%

	Total Sales by Reportable Segment						Total Sales by Reportable Segment					
	Year Ended December 31, 2023			Year Ended December 31, 2022			Year Ended December 31, 2024			Year Ended December 31, 2023		
	External Net Sales	Intersegment Sales	Total Sales	External Net Sales	Intersegment Sales	Total Sales	External Net Sales	Intersegment Sales	Total Sales	External Net Sales	Intersegment Sales	Total Sales
Domestic	\$ 3,276,324	\$ 43,937	\$ 3,320,261	\$ 3,867,866	\$ 60,731	\$ 3,928,597	\$ 3,599,149	\$ 35,932	\$ 3,635,081	\$ 3,276,324	\$ 43,937	\$ 3,320,261
International	746,343	91,552	837,895	696,871	93,699	790,570	696,685	28,700	725,385	746,343	91,552	837,895
Intercompany elimination	-	(135,489)	(135,489)	-	(154,430)	(154,430)	-	(64,632)	(64,632)	-	(135,489)	(135,489)
Total net sales	\$ 4,022,667	\$ -	\$ 4,022,667	\$ 4,564,737	\$ -	\$ 4,564,737	\$ 4,295,834	\$ -	\$ 4,295,834	\$ 4,022,667	\$ -	\$ 4,022,667

	Adjusted EBITDA by Reportable Segment				Adjusted EBITDA by Reportable Segment			
	Year Ended December 31,				Year Ended December 31,			
	2023	2022	\$ Change	% Change	2024	2023	\$ Change	% Change
Domestic	\$ 523,337	\$ 716,302	\$ (192,965)	-26.9%	\$ 693,203	\$ 523,337	\$ 169,866	32.5%
International	114,522	109,065	5,457	5.0%	95,898	114,522	(18,624)	-16.3%
Total Adjusted EBITDA	\$ 637,859	\$ 825,367	\$ (187,508)	-22.7%	\$ 789,101	\$ 637,859	\$ 151,242	23.7%

The following table sets forth our net sales by product class for the periods indicated:

(U.S. Dollars in thousands)	Net Sales by Product Class				Net Sales by Product Class			
	Year Ended December 31,				Year Ended December 31,			
	2023	2022	\$ Change	% Change	2024	2023	\$ Change	% Change
Residential products	\$ 2,062,929	\$ 2,911,871	\$ (848,942)	-29.2%	\$ 2,433,474	\$ 2,062,929	\$ 370,545	18.0%
Commercial & industrial products	1,494,799	1,260,737	234,062	18.6%				
Commercial & Industrial products					1,389,469	1,494,799	(105,330)	-7.0%
Other	464,939	392,129	72,810	18.6%	472,891	464,939	7,952	1.7%
Total net sales	\$ 4,022,667	\$ 4,564,737	\$ (542,070)	-11.9%	\$ 4,295,834	\$ 4,022,667	\$ 273,167	6.8%

Net sales. The ~~decrease~~ ~~increase~~ in domestic segment sales for the year ended ~~December 31, 2023~~ ~~December 31, 2024~~, was primarily driven by ~~a decline~~ ~~an increase~~ in residential product sales, most notably in home standby ~~generator~~ ~~and~~ portable ~~generator~~ ~~and~~ clean energy product shipments. Home standby generator sales ~~for generators following the year were impacted by~~ ~~elevated levels~~ ~~power outage activity in the second half of field inventory together with strong prior year comparisons.~~ The decline in residential product sales ~~the year. This~~ was partially offset by robust growth of a decline in C&I product sales for ~~the full year, primarily driven by shipments to industrial distributors~~ ~~telecom, rental,~~ and ~~to certain direct customers for "beyond standby"~~ ~~"beyond standby"~~ applications.

The ~~increase~~ ~~decrease~~ in international segment sales for the year ended ~~December 31, 2023~~ ~~December 31, 2024~~, was primarily driven by ~~lower intersegment sales related to softness in the telecom market and a decline in portable generator and C&I growth product sales in~~ ~~nearly all regions around the world, Europe,~~ partially offset by ~~weaker portable generator sales~~ ~~growth in Europe.~~ ~~Latin America.~~

In addition, total net sales from non-annualized acquisitions for the year ended ~~December 31, 2023~~ ~~December 31, 2024~~, were ~~\$65.4~~ ~~\$16.5~~ million, ~~including \$56.8 million for~~ ~~mostly in~~ the domestic ~~segment~~ and ~~\$8.6 million for the international~~ segment.

Gross profit. Gross profit margin for the year ended ~~December 31, 2023~~ ~~December 31, 2024~~, was ~~33.9%~~ ~~38.8%~~ compared to ~~33.3%~~ ~~33.9%~~ for the year ended ~~December 31, 2022~~ ~~December 31, 2023~~. The ~~increase~~ ~~in~~ gross profit margin ~~increase~~ was primarily driven by favorable ~~pricing actions and cost benefits resulting from lower raw material and logistics costs, as well as improved production efficiencies.~~ These benefits were partially offset by the impact of unfavorable sales mix, ~~primarily due to lower shipments of including higher home standby generators.~~ ~~generator sales, the realization of lower input costs, and plant efficiencies.~~

Operating expenses. Operating expenses increased ~~\$23.6~~ ~~\$149.7~~ million, or ~~2.5%~~ ~~15.3%~~, as compared to the prior year. The ~~increase~~ ~~in~~ operating expenses was primarily driven by higher employee and marketing costs, and increased incentive compensation and variable expenses related to higher shipment volumes and profitability. 2024 operating expenses also include \$10.5 million of legal provisions and other costs related to patent and other litigation (see Note 18, "Commitments and Contingencies" to the consolidated financial statements in Item 8 of this Annual Report on Form 10-K for additional information). 2023 operating expenses included a \$5.8 million provision for a regulatory matter with the CPSC, \$28.3 million of legal charges related to patent and other litigation (see Note 18, "Commitments and Contingencies" for additional information), \$4.4 million of additional customer support costs related to a clean energy product customer that filed for ~~bankruptcy, and an increase in employee and marketing costs.~~ The operating expenses in 2022 included a \$37.3 million provision for clean energy product warranty-related matters, a \$17.9 million provision for bad debt related to a clean energy product customer that filed for ~~bankruptcy referenced above, as well as a \$10.0 million provision for a regulatory matter with the CPSC.~~ ~~bankruptcy.~~

Other expense. The increase in other expense, net in ~~2023~~ ~~2024~~ was driven primarily by a ~~\$38.0 million expense for the change in fair value of our investment in warrants and equity securities of Wallbox N.V., and a \$4.9 million loss on extinguishment of debt.~~ This was partially offset by a \$3.3 million increase in investment income driven by higher cash on hand and a \$7.9 million decrease in interest ~~costs due to higher borrowing levels~~ ~~expense driven by decreased borrowings~~ and interest rates compared to the prior ~~year.~~ ~~year~~ comparable period.

Provision for income taxes. The effective income tax rates for the years ended December 31, 2024 and 2023 were 22.6% and 25.2% and 19.6%, respectively. The increase decrease in the effective tax rate was primarily due to significantly lower benefit from equity compensation unfavorable discrete tax items in 2023 that did not repeat in the current year, coupled as well as favorable 2024 earnings mix with discrete higher earnings in lower tax benefits in the prior year jurisdictions.

Net income attributable to Generac Holdings Inc. Net income attributable to Generac Holdings Inc. was \$214.6 million \$316.3 million as compared to \$399.5 million \$214.6 million in the prior year period. The decrease increase was primarily driven by lower net higher sales and other items gross margin, as noted above.

Adjusted EBITDA. Adjusted EBITDA is defined and reconciled to net income in, "Non-GAAP Measures" -- Adjusted EBITDA" included below in Item 7 of this Annual Report on Form 10-K. Adjusted EBITDA margins for the domestic segment for the year ended December 31, 2023 December 31, 2024, were 15.8% 19.1% of domestic segment total sales compared to 18.2% 15.8% for the year ended December 31, 2022 December 31, 2023. Adjusted EBITDA This margin improvement was lower in the year-ended December 31, 2023 primarily due to the significant impact of unfavorable driven by favorable sales mix and reduced operating leverage on lower sales volumes, as well as continued input costs, partially offset by higher operating expense investments for to support future growth. These headwinds were partially offset by favorable price and cost benefits.growth initiatives.

Adjusted EBITDA margins for the international segment, before deducting for non-controlling interests, for the year ended December 31, 2023 December 31, 2024, were 13.7% 13.2% of international segment total sales compared to 13.8% 13.7% in the prior year, year. This margin decrease was primarily due to unfavorable sales mix, which was mostly offset by favorable price and cost benefits and improved reduced operating leverage on higher sales volumes.lower shipments during the year.

Adjusted net income. Adjusted Net Income is defined and reconciled to net income in, "Non-GAAP Measures" -- Adjusted Net Income" included below in Item 7 of this Annual Report on Form 10-K. Adjusted Net Income of was \$438.5 million for the year ended December 31, 2024, compared to \$335.3 million for the year ended December 31, 2023 decreased 37.8% from \$538.8 million for December 31, 2023, with the year ended December 31, 2022 increase primarily due to higher net income in the factors current year as outlined above, together with the impact of various add-backs in the current and prior years.

Liquidity and Financial PositionPosition

Our primary cash requirements include payment for raw materials and components, salaries and benefits, facility and lease costs, operating expenses, interest and principal payments on debt, and capital expenditures. We finance our operations primarily from cash flow generated from operations and, if necessary, borrowings under our revolving credit facility.

Our credit agreements originally provided for a \$1.2 billion term loan B credit facility (Tranche B Term Loan Facility) and currently include a \$300.0 million uncommitted incremental term loan facility. Additionally, our credit agreements previously provided for a \$500.0 million ABL Facility that was paid off and terminated in June 2022.

In June 2022, we amended and restated our existing credit agreements (Amended Credit Agreement) that resulted in a new term loan facility in an aggregate principal amount of \$750 million (Tranche A Term Loan Facility), a new \$1.25 billion revolving facility (Revolving Facility), the termination of the former ABL Facility, and replacement of all LIBOR provisions with SOFR provisions. Proceeds received from the Tranche A Term Loan Facility were used to repay the total existing outstanding balance on our former ABL Facility and make a \$250 million voluntary prepayment on the Tranche B Term Loan Facility, with the remaining funds used for future general corporate purposes. As a result of these prepayments, we wrote off \$3.5 million of original issue discount and capitalized debt issuance costs during the second quarter of 2022 as a loss on extinguishment of debt. The Revolving Facility was unfunded at closing.

As of December 31, 2023 December 31, 2024, there was \$530 million \$498.8 million outstanding under the Tranche B Term Loan Facility, \$745.3 million \$712.5 million outstanding under the Tranche A Term Loan Facility, and \$150 million of funded no borrowings on the Revolving Facility, borrowings, leaving \$1,099.2 \$1,249.2 million of unused capacity, net of outstanding letters of credit. Our The Tranche B Term Loan Facility bears interest at rates based on either a base rate plus an applicable margin of 0.75% or the adjusted SOFR rate plus an applicable margin of 1.75%, subject to a SOFR floor of 0.0%. Beginning on January 1, 2023 As of December 31, 2024, the interest rate for the Tranche B Term Loan Facility is 6.34%. The Tranche A Term Loan Facility and the Revolving Facility bear interest at a rate based on adjusted SOFR plus an applicable margin between 1.25% and 1.75%, based on our the Company's total leverage ratio and subject to a SOFR floor of 0.0%. At December 31, 2023 As of December 31, 2024, the interest rates for the Tranche A Term Loan Facility and Revolving Facility are 6.15% and Tranche B Term Loan Facility were 6.99% 6.19%, 6.94%, and 7.19%, respectively. See Note 5, "Derivative Instruments and Hedging Activities" to the consolidated financial statements in Item 8 of this Annual Report on Form 10-K and Item 7A "Quantitative and Qualitative Disclosures About Market Risk" for further information on interest rate swaps, which help to reduce our borrowing costs.

The Tranche B Term Loan Facility matures on December 13, 2026, while the Tranche A Term Loan Facility and Revolving Facility mature on June 29, 2027. The Tranche A Term Loan Facility is repayable in installments due maturing at the end of each quarter commencing September 2023. Payments on the Revolving Facility are not 2023, with a balloon payment due until June 2027. The maturity schedule Tranche B Term Loan Facility matures on these facilities July 3, 2031, and is as follows: repayable in installments maturing at the end of each quarter commencing September 2024, with a balloon payment due July 2031.

2024	\$	32,813
2025		46,875
2026		595,625
2027		750,000

Total	\$	1,425,313
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As of **December 31, 2023** **December 31, 2024**, we had total liquidity of **\$1,193.8 million** under our most restrictive debt covenants, **\$1,530.5 million**, which consists of **\$201.0 million** **\$281.3 million** of cash and cash equivalents and **\$992.8 million** **\$1,249.2 million** available under our Revolving Facility. We believe we have a strong liquidity position that allows us to execute our strategic plan and provides **the** flexibility to continue to invest in future growth opportunities.

In **September 2020**, our Board of Directors approved a **\$250.0 million stock repurchase program**, which was exhausted in the third quarter of 2022. In **July 2022**, our Board of Directors approved **another a** stock repurchase program, which commenced on August 5, 2022, and allowed for the repurchase of up to \$500.0 million of our common stock over a 24-month period. Additionally, on February 12, 2024, **the Company's** our Board of Directors approved a new stock repurchase program that allows for the repurchase of up to \$500.0 million of **the Company's** our common stock over the next twenty-four months. The new program **replaces** **replaced** the prior share repurchase program, which had approximately \$26.3 million remaining available for repurchase when the new program was approved. Pursuant to the approved program, we may repurchase our common stock from time to time, in amounts and at prices we deem appropriate, subject to market conditions and other considerations. The repurchases may be executed using **a combination of Rule 10b5-1 trading plans**, open market purchases, privately negotiated agreements, or other transactions. The actual timing, number and value of shares repurchased under the program will be determined by management at its discretion and in compliance with the terms of our credit agreements. The repurchases may be funded with cash on hand, available borrowings, or proceeds from potential debt or other capital markets **sources, and sources**. The stock repurchase program may be suspended or discontinued at any time without prior notice. **As of December 31, 2024**, the remaining unused buyback authorization was **\$347,257**.

During the years ended **December 31, 2023** **December 31, 2024** and **2022, 2023**, we repurchased **2,188,475** **1,046,351** shares of our common **stock** **stock** for **\$251.5 million**, **\$152.7 million**, and **2,722,007** **2,188,475** shares for **\$345,840**, **\$251.5 million**, respectively. Since the inception of all stock repurchase programs (starting in August 2015), we have repurchased **13,937,188** shares of common stock for **\$1,028.9 million** (at an average cost per share of **\$73.82**). We have periodically reissued shares out of Treasury stock, including for **earnout payments**.

See Note 12, "Credit Agreements," **acquisition contingent consideration payments** and Note 13, "Stock Repurchase Program," to the consolidated financial statements included in Item 8 of this Annual Report on Form 10-K for more information on our credit agreements and stock repurchase programs. **some equity grants**.

We have an arrangement with a finance company to provide floor plan financing for selected dealers. This arrangement provides liquidity for our dealers by financing dealer purchases of Generac products with credit availability from the finance company. We receive payment from the finance company after shipment of product to the dealer, and our dealers are given a longer period of time to pay the finance company. If our dealers do not pay the finance company, we may be required to repurchase the applicable inventory held by the dealer. We do not indemnify the finance company for any credit losses they may incur. Total dealer purchases financed under this arrangement accounted for approximately **12%** **13%** and **15%** **12%** of net sales for the years ended **December 31, 2023** **December 31, 2024** and **2022, 2023**, respectively. The amount financed by dealers which remained outstanding was **\$158.0** **\$165.4 million** and **\$212.2** **\$158.0 million** as of **December 31, 2023** **December 31, 2024** and **2022, 2023**, respectively.

See Note 12, "Credit Agreements," and Note 13, "Stock Repurchase Program," to the consolidated financial statements included in Item 8 of this Annual Report on Form 10-K for more information on our credit agreements and stock repurchase programs. See Note 10, "Leases," to the consolidated financial statements included in Item 8 of this Annual Report on Form 10-K for the maturity schedule of our lease liabilities.

Long-term **Liquidity** **Liquidity**

We believe our cash and cash equivalents, cash flow from operations, and availability under our Revolving Facility and other short-term lines of credit will provide us with sufficient capital to continue to run our operations. We may use a portion of our cash flow for debt repayments and common stock buybacks, impacting the amount available for working capital, capital expenditures, acquisitions, and other general corporate purposes. As we continue to expand our business, we may require additional capital to fund other shareholder value enhancing activities.

Cash Flow

Year ended **December 31, 2023** **December 31, 2024** compared to **year ended** **December 31, 2022** **December 31, 2023**

The following table summarizes our cash flows by source (use) for the periods presented:

	Year Ended December 31,				Year Ended December 31,			
	2023	2022	\$ Change	% Change	2024	2023	\$ Change	% Change
(U.S. Dollars in thousands)								
Net cash provided by operating activities	\$ 521,670	\$ 58,516	\$ 463,154	791.5%	\$ 741,301	\$ 521,670	\$ 219,631	42.1%
Net cash used in investing activities	(178,063)	(134,232)	(43,831)	-32.7%	(208,712)	(178,063)	(30,649)	-17.2%
Net cash (used in) provided by financing activities	(277,137)	64,043	(341,180)	-532.7%				
Net cash used in financing activities					(448,835)	(277,137)	(171,698)	-62.0%

Effect of foreign exchange rate changes on cash and cash equivalents	(3,471)	1,801	(5,272)	-292.7%
Net increase in cash and cash equivalents	<u>\$ 80,283</u>	<u>\$ 68,271</u>	<u>\$ 12,012</u>	<u>17.6%</u>

The increase in net cash provided by operating activities was primarily represents driven by higher operating earnings coupled with a significantly lower investment larger decrease in working capital in the current year period, as compared to the prior year, partially offset by lower operating earnings.

year.

Net

The \$208.7 million net cash used in investing activities for the year ended December 31, 2023December 31, 2024 primarily consisted represents cash payments of \$136.7 million for the purchase of property and equipment (net of \$11.1 million of capital expenditures in accounts payable as of December 31, 2024), \$35.0 million for an incremental minority investment in Wallbox N.V., \$2.8 million for a minority investment in Earth Foundry Fund, \$1.6 million for a tax equity investment, and \$34.7 million collectively for the acquisitions of Huntington, C&I BESS, Ageto, and Wolverine. These were partially offset by \$2.0 million of cash proceeds from the sale of our minority interest in Rolling Energy Resources. The \$178.1 million net cash used in investing activities for the year ended December 31, 2023 primarily represents cash payments of \$129.1 million for the purchase of property and equipment (net of \$10.9 million of capital expenditures in accounts payable at as of December 31, 2023), \$30.0 million for a minority investment in Wallbox, \$16.0 million for the acquisition of REFU, \$6.6 million for a tax equity investment, and a \$2.6 million minority investment in Rolling Energy Resources and Earth Foundry.

Net Foundry Fund.

The \$448.8 million net cash used in investing activities for the year ended December 31, 2022 primarily consisted of cash payments of \$86.2 million for the purchase of property and equipment (net of \$7.7 million of capital expenditures in accounts payable at December 31, 2022), \$25.1 million for business acquisitions, \$15.0 million investment in WATT Fuel Cell Corporation, and \$14.9 million for contributions to a tax equity investment, which were partially offset by cash proceeds from the sale of an investment for \$1.3 million.

Net cash provided by financing activities for the year ended December 31, 2023December 31, 2024 primarily represents \$849.1 million of debt repayments (\$54.5 million of short-term borrowings and \$794.6 million of long-term borrowings and finance lease obligations), \$152.7 million of stock repurchases, a \$9.1 million payment for the remaining ownership interest in Captiva, \$7.4 million of payments for deferred acquisition consideration, \$24.8 million for taxes paid related to equity awards, and \$3.6 million of payments for debt issuance costs related to our amended Tranche B Term Loan credit agreement refinancing. These uses of cash were partially offset by proceeds of \$348.8 million \$29.2 million from short-term borrowings, \$541.5 million from long-term borrowings, \$64.3 million from short-term borrowings, and \$7.8 million \$27.6 million from the exercise of stock options. These The \$277.1 million net cash proceeds were more than offset by used in financing activities for the year ended December 31, 2023 primarily consisted of \$104.8 million in cash payments used to purchase the remaining ownership interest in Pramac, \$251.5 million used for stock repurchases, \$325.8 million of debt repayments (\$37.1 million of short-term borrowings and \$288.7 million of long-term borrowings and finance lease obligations), \$10.9 million of taxes paid related to equity awards, and \$5.0 million for payment of contingent acquisition consideration.

Net These uses of cash provided were partially offset by financing activities for the year ended December 31, 2022 primarily includes proceeds of \$1,026.3 million \$348.8 million from long-term borrowings, \$248.2 \$64.3 million from short-term borrowings, and \$13.8 million \$7.8 million proceeds from the exercise of employee stock options. These cash proceeds were partially offset by \$810.3 million of debt repayments (\$268.1 million of short-term borrowings and \$542.2 million of long-term borrowings and finance lease obligations), \$345.8 million of stock repurchases, \$40.9 million of taxes paid related to equity awards, \$16.1 million of contingent acquisition consideration, and \$10.3 million for debt issuance costs.

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Senior Secured Credit FacilitiesFacilities

Refer to Note 12, "Credit Agreements," to the consolidated financial statements in Item 8 and the "Liquidity and Financial Position" section included in Item 7 of this Annual Report on Form 10-K for information on our senior secured credit facilities.

Covenant ComplianceCompliance

The Our Term Loans restrict the aggregate amount of dividends and distributions that can be paid and, in certain circumstances, requires pro forma compliance with certain fixed charge coverage ratios or gross leverage ratios, as applicable, in order to pay certain dividends and distributions. The Our Term Loans also contain other affirmative and negative covenants that, among other things, limit the incurrence of additional indebtedness, liens on property, sale and leaseback transactions, investments, loans and advances, mergers or consolidations, asset sales, acquisitions, transactions with affiliates, prepayments of certain other indebtedness, and modifications of our organizational documents. The Tranche A Term Loan Facility and the Revolving Facility include contain certain financial covenants that require the Company to maintain a total leverage ratio below 3.75 to 1.00, as well as an interest coverage ratio above 3.00 to 1.00, and may require an excess cash flow payment. As of December 31, 2023December 31, 2024, the Company's total leverage ratio was 2.181.33 to 1.00, and the Company's interest coverage ratio was 6.44 10.03 to 1.00. The Company was not required to make an excess cash flow payment as of December 31, 2024. The Company was also in compliance with these and all other covenants of the Amended Credit Agreement as of December 31, 2023December 31, 2024. The Tranche B Term Loan Facility does not contain any financial maintenance covenants.

The Our Term Loans contain customary events of default, including, among others, nonpayment of principal, interest or other amounts, failure to perform covenants, inaccuracy of representations or warranties in any material respect, cross-defaults with other material indebtedness, certain undischarged judgments, the occurrence of certain ERISA, bankruptcy

or insolvency events, or the occurrence of a change in control (as defined in the [Term Loan Amended Credit Agreement](#)). A bankruptcy or insolvency event of default will cause the obligations under the Term Loans to automatically become immediately due and payable.

The Revolving Facility also contains covenants and events of default substantially similar to those in the Term Loans, as described above.

Contractual Obligations

The following table summarizes our expected payments for significant contractual obligations as of December 31, 2023, using the interest rates in effect as of that date:

(U.S. Dollars in thousands)	Total	2024	2025	2026	2027	2028	After 2028
Long-term debt, including current portion (1)	\$ 1,434,825	\$ 42,162	\$ 46,958	\$ 595,651	\$ 750,026	\$ 28	\$ -
Finance lease obligations, including current portion (2)	71,308	3,614	44,069	2,517	2,337	2,064	16,707
Interest on long-term debt and finance lease obligations	329,157	104,116	101,204	92,837	23,684	1,408	5,908
Operating leases	85,148	32,145	18,887	8,278	7,667	6,157	12,014
Short-term borrowings (3)	81,769	81,769	-	-	-	-	-
Total contractual cash obligations	\$ 2,002,207	\$ 263,806	\$ 211,118	\$ 699,283	\$ 783,714	\$ 9,657	\$ 34,629

(1) The Tranche B Term Loan matures on December 13, 2026. The Tranche A Term Loan and the Revolving Facility mature on June 29, 2027. As of December 31, 2023, there was \$150 million outstanding under the Revolving Facility classified as long-term debt.

(2) Finance lease obligations, including current portion includes a payment for a purchase option reasonably certain to be exercised in 2025.

(3) Short-term borrowings consist of borrowings by our foreign subsidiaries on local lines of credit.

Capital Expenditures

Our operations require capital expenditures for facilities and related improvements, technology, research & development, tooling, equipment, capacity expansion, internal use software, IT systems & infrastructure, and upgrades. Capital expenditures were \$129.1 million, \$136.7 million, \$86.2 million, \$129.1 million, and \$110.0 million \$86.2 million in the years ended December 31, 2023, December 31, 2024, 2022, 2023 and 2021, 2022, respectively, and were funded primarily through cash from operations.

Critical Accounting Policies and Estimates

In preparing the financial statements, management is required to make estimates and assumptions that have an impact on the asset, liability, revenue and expense amounts reported. These estimates can also affect our supplemental information disclosures, including information about contingencies, risk and financial condition. We believe, given current facts and circumstances, that our estimates and assumptions are reasonable, adhere to U.S. GAAP, and are consistently applied. Inherent in the nature of an estimate or assumption is the fact that actual results may differ from estimates and estimates may vary as new facts and circumstances arise. We make routine estimates and judgments in determining net realizable value of accounts receivable, inventories, property and equipment, prepaid expenses, product warranties and other reserves. Management believes our most critical accounting estimates and assumptions are in the following areas: business combinations and purchase accounting; goodwill and other indefinite-lived intangible asset impairment assessment; and income taxes. The following is a discussion of critical accounting estimates in each of these areas.

Business Combinations and Purchase Accounting

We account for business combinations using the acquisition method of accounting, and accordingly, the assets and liabilities of an acquired business are recorded at their respective fair values. The excess of the purchase price over the estimated fair value of assets and liabilities is recorded as goodwill. Assigning fair market values to the assets acquired and liabilities assumed at the date of an acquisition requires knowledge of current market values, the values of assets in use, and often requires the application of judgment regarding estimates and assumptions. While the ultimate responsibility resides with management, for material acquisitions we retain the services of certified valuation specialists to assist with assigning estimated values to certain acquired assets and assumed liabilities, including intangible assets, tangible long-lived assets, and contingent consideration. Acquired intangible assets, excluding goodwill, are valued using certain discounted cash flow methodologies based on future cash flows specific to the type of intangible asset purchased. This methodology incorporates various estimates and assumptions, the most significant being projected revenue growth rates, profit margins, forecasted cash flows, discount rates and terminal growth rates. If the contingent consideration is deemed significant or absent an agreed upon payout amount, the initial measurement of contingent consideration and the corresponding liability is evaluated using the Monte Carlo Method. For this valuation method, management develops projections covering the contingent consideration period utilizing various potential pay-out scenarios. Probabilities are applied to each potential scenario and the resulting values are discounted using a rate that considers weighted average cost of capital as well as a specific risk premium associated with the riskiness of the contingent consideration itself, the related projections, and the overall business. Refer to Note 1, "Description of Business," and Note 3, "Acquisitions," to the consolidated financial statements in Item 8 of this Annual Report on Form 10-K for further information on the Company's business acquisitions.

Goodwill and Other Indefinite-Lived Intangible Assets

We performed the required annual impairment tests for goodwill and other indefinite-lived intangible assets for the fiscal years 2023, 2022 and 2021, and found no impairment.

When preparing a discounted cash flow analysis for purposes of our annual impairment test, we make a number of key estimates and assumptions. We estimate the future cash flows of the business based on historical and forecasted revenues and operating costs. In addition, we apply a discount rate to the estimated future cash flows for the purpose of the valuation. This discount rate is based on the estimated weighted average cost of capital for the business and may change from year to year. Weighted average cost of capital includes certain assumptions such as market capital structures, market betas, risk-free rate of return and estimated costs of borrowing.

In the fourth quarter of 2023, we revised the operating structure within our international reportable segment. As a result, Latin America no longer met the definition of a reporting unit. We performed a final impairment test of the Latin America reporting unit prior to the change in operating structure. We calculated the estimated fair value exceeded its carrying value by approximately 12% and thus found no impairment. The carrying value of Goodwill for our Latin America reporting unit as of the final impairment test was \$52.4 million.

For all reporting units, a considerable amount of management judgment and assumptions are required in performing the goodwill and indefinite-lived intangible asset impairment tests. While we believe our judgments and assumptions are reasonable, different assumptions could change the estimated fair values. A number of factors, many of which we have no ability to control, could cause actual results to differ from the estimates and assumptions we employed. These factors include:

- a rising interest rate environment;
- a prolonged global or regional economic downturn;
- a significant decrease in the demand for our products;
- the inability to develop new and enhanced products and services in a timely manner;
- a significant adverse change in legal factors, or in the business climate; climate, or regulatory environment;
- an adverse action or assessment by a regulator;
- successful efforts by our competitors to gain market share in our markets;
- disruptions to the Company's business;
- inability to effectively integrate acquired businesses;
- loss of key management and employees
- unexpected or unplanned changes in the use of assets or entity structure; and
- business divestitures.

If management's estimates of future operating results change or if there are changes to other assumptions due to these factors, the estimate of the fair values may change significantly. Such change could result in impairment charges in future periods, which could have a significant impact on our operating results and financial condition. We performed the required annual impairment tests for goodwill and other indefinite-lived intangible assets for the fiscal years 2024, 2023 and 2022, and found no impairment.

Refer to Note 2, "Summary of Accounting Policies – Goodwill and Other Indefinite-Lived Intangible Assets," to the consolidated financial statements in Item 8 of this Annual Report on Form 10-K for further information on the Company's policy regarding the accounting for goodwill and other indefinite-lived intangible assets.

Income Taxes

We account for income taxes in accordance with Accounting Standards Codification (ASC) 740, *Income Taxes*. Our estimates of income taxes payable, deferred income taxes and the effective tax rate are based on an analysis of many factors including interpretations of federal, state and international income tax laws; the difference between tax and financial reporting bases of assets and liabilities; estimates of amounts currently due or owed in various jurisdictions; and current accounting standards. We review and update our estimates on a quarterly basis as facts and circumstances change and actual results are known.

In assessing the net realizable value of the deferred tax assets on our balance sheet, we consider whether it is more likely than not that some portion or all of the deferred tax assets will not be realized. The ultimate realization of deferred tax assets is dependent on the generation of future taxable income during the years in which those temporary differences become deductible. We consider the taxable income in prior carryback years, scheduled reversal of deferred tax liabilities, projected future taxable income and tax planning strategies in making this assessment.

Refer to Note 15, "Income Taxes," to the consolidated financial statements in Item 8 of this Annual Report on Form 10-K for further information on the Company's income taxes and income tax positions.

New Accounting Standards

For information on new accounting pronouncements and the impact of these pronouncements on our consolidated financial statements, refer to Note 2, "Summary of Accounting Policies - New Accounting Pronouncements," to the consolidated financial statements in Item 8 of this Annual Report on Form 10-K.

Non-GAAP Measures

Adjusted EBITDA

To supplement our consolidated financial statements presented in accordance with U.S. GAAP, we provide the Company provides the computation of Adjusted EBITDA attributable to the Company, which is defined as net income before noncontrolling interests adjusted for the following items: interest expense, depreciation expense, amortization of intangible assets, income tax expense, certain non-cash gains and losses including certain purchase accounting adjustments and contingent consideration adjustments, share-based compensation expense, losses on extinguishment of debt, certain transaction costs and credit facility fees, business optimization expenses, provision for certain legal and regulatory charges, certain other specific provisions, mark-to-market gains and adjusted losses on a minority investment, and Adjusted EBITDA attributable to noncontrolling interests, interests. The provision for legal and regulatory charges adjusts for matters that are significant and not part of the ordinary routine litigation or regulatory matters incidental to the Company's business, such as large suits and settlements, class action lawsuits, government inquiries, and certain intellectual property litigation. The adjustments to net income in computing Adjusted EBITDA are set forth in the reconciliation table below. The computation of Adjusted EBITDA is based primarily on the definition included in our Amended Credit Agreement.

We view Adjusted EBITDA as a key measure of our performance. We present Adjusted EBITDA not only due to its importance for purposes of our credit agreements, but also because it assists us in comparing our performance across reporting periods on a consistent basis as it excludes certain items that we do not believe are indicative of our core operating performance. Our management uses Adjusted EBITDA:

- for planning purposes, including the preparation of our annual operating budget and developing and refining our internal projections for future periods;
- to allocate resources to enhance the financial performance of our business;
- as a benchmark target for the determination of the bonus component of compensation for our senior executives under our management incentive plan, as described further in our Proxy Statement;
- to evaluate the effectiveness of our business strategies and as a supplemental tool in evaluating our performance against our budget for each period; and
- in communications with our Board of Directors and investors concerning our financial performance.

We believe Adjusted EBITDA is used by securities analysts, investors and other interested parties in the evaluation of the Company. Management believes the disclosure of Adjusted EBITDA offers an additional financial metric that, when coupled with results prepared in accordance with U.S. generally accepted accounting principles (U.S. GAAP) and the reconciliation to U.S. GAAP results, provides a more complete understanding of our results of operations and the factors and trends affecting our business. We believe Adjusted EBITDA is useful to investors for the following reasons:

- Adjusted EBITDA and similar non-GAAP measures are widely used by investors to measure a company's operating performance without regard to items that can vary substantially from company to company depending upon financing and accounting methods, book values of assets, tax jurisdictions, capital structures and the methods by which assets were acquired;
- investors can use Adjusted EBITDA as a supplemental measure to evaluate the overall operating performance of our Company, including our ability to service our debt and other cash needs; and
- by comparing our Adjusted EBITDA in different historical periods, our investors can evaluate our operating performance excluding the impact of items described below.

The adjustments included in the reconciliation table listed below are presented to illustrate the operating performance of our business in a manner consistent with the presentation used by our management and Board of Directors. Board. These adjustments eliminate the impact of a number of items that:

- we do not consider indicative of our ongoing operating performance, such as non-cash write-downs and other charges, non-cash gains, write-offs relating to the retirement of debt, severance costs and other restructuring-related business optimization expenses; expenses, provision for certain legal and regulatory charges, certain other specific provisions, and mark-to-market gains and losses on a minority investment;
- we believe to be akin to, or associated with, interest expense, such as administrative agent fees, revolving credit facility commitment fees and letter of credit fees; or
- are non-cash in nature, such as share-based compensation expense.

We explain in more detail in footnotes (a) through (f) (g) below why we believe these adjustments are useful in calculating Adjusted EBITDA as a measure of our operating performance.

Adjusted EBITDA does not represent, and should not be a substitute for, net income or cash flows from operations as determined in accordance with U.S. GAAP. Adjusted EBITDA has limitations as an analytical tool, and you should not consider it in isolation, or as a substitute for analysis of our results as reported under U.S. GAAP. Some of the limitations are:

- Adjusted EBITDA does not reflect our cash expenditures, or future requirements for capital expenditures or contractual commitments;

- Adjusted EBITDA does not reflect changes in, or cash requirements for, our working capital needs;
- Adjusted EBITDA does not reflect the significant interest expense, or the cash requirements necessary to service interest or principal payments on our debt;
- although depreciation and amortization are non-cash charges, the assets being depreciated and amortized will often have to be replaced in the future, and Adjusted EBITDA does not reflect any cash requirements for such replacements;
- several of the adjustments that we use in calculating Adjusted EBITDA, such as non-cash write-downs and other charges, while not involving cash expense, do have a negative impact on the value of our assets as reflected in our consolidated balance sheet prepared in accordance with U.S. GAAP; and
- other companies may calculate Adjusted EBITDA differently than we do, limiting its usefulness as a comparative measure.

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Furthermore, as noted above, one of our uses of Adjusted EBITDA is as a **benchmark target** for determining elements of compensation for our senior executives. At the same time, some or all of these senior executives have responsibility for monitoring our financial results, generally including the adjustments in calculating Adjusted EBITDA (subject ultimately to review by our Board of Directors in the context of the Board's review of our financial statements). While many of the adjustments (for example, transaction costs and credit facility fees), involve mathematical application of items reflected in our financial statements, others involve a degree of judgment and discretion. While we believe all of these adjustments are appropriate, and while the calculations are subject to review by our Board of Directors in the context of the Board's review of our financial statements, and certification by our Chief Financial Officer in a compliance certificate provided to the lenders under our **Term Loan and Revolving Facility, Amended Credit Agreement**, this discretion may be viewed as an additional limitation on the use of Adjusted EBITDA as an analytical tool.

Because of these limitations, Adjusted EBITDA should not be considered as a measure of discretionary cash available to us to invest in the growth of our business. We compensate for these limitations by relying primarily on our U.S. GAAP results and using Adjusted EBITDA only supplementally.

The following table presents a reconciliation of net income to Adjusted EBITDA attributable to Generac Holdings Inc.:

(U.S. Dollars in thousands)	Year Ended December 31,			Year Ended December 31,		
	2023	2022	2021	2024	2023	2022
Net income attributable to Generac Holdings Inc.	\$ 214,606	\$ 399,502	\$ 550,494	\$ 316,315	\$ 214,606	\$ 399,502
Net income attributable to noncontrolling interests	2,514	9,368	6,075	663	2,514	9,368
Net income	217,120	408,870	556,569	316,978	217,120	408,870
Interest expense	97,627	54,826	32,953	89,713	97,627	54,826
Depreciation and amortization	166,602	156,141	92,041	171,768	166,602	156,141
Provision for income taxes	73,180	99,596	134,957	92,460	73,180	99,596
Non-cash write-down and other adjustments (a)	(5,953)	(2,091)	(3,070)	4,757	(5,953)	(2,091)
Non-cash share-based compensation expense (b)	35,492	29,481	23,954	49,248	35,492	29,481
Loss on extinguishment of debt (c)	-	3,743	831			
Transaction costs and credit facility fees (d)	4,054	5,026	22,357			
Business optimization and other charges (e)	10,551	4,371	33			
Provision for legal, regulatory, and clean energy product charges (f)	38,490	65,265	-			
Transaction costs and credit facility fees (c)				5,097	4,054	5,026
Business optimization and other charges (d)				4,752	10,551	4,371
Provision for legal, regulatory, and clean energy product charges (e)				10,931	38,490	65,265
Change in fair value of investment (f)				38,006	-	-
Loss on extinguishment of debt (g)				4,861	-	3,743
Other	696	139	800	530	696	139
Adjusted EBITDA	637,859	825,367	861,425	789,101	637,859	825,367
Adjusted EBITDA attributable to noncontrolling interests	4,687	15,087	9,351	1,175	4,687	15,087
Adjusted EBITDA attributable to Generac Holdings Inc.	\$ 633,172	\$ 810,280	\$ 852,074	\$ 787,926	\$ 633,172	\$ 810,280

(a) Represents the following non-cash charges, gains, and other adjustments: **gains/ (gains)/losses** on the disposition of assets other than in the ordinary course of business, **gains/ (gains)/losses** on sales of certain investments, unrealized mark-to-market adjustments on commodity contracts, certain foreign currency related adjustments, and certain purchase accounting and contingent consideration adjustments. We believe that adjusting net income for these items is useful for the following reasons:

- The gains/losses on disposition of assets other than in the ordinary course of business and sales of certain investments result from the sale of assets that are no longer useful in our business and therefore represent gains or losses that are not from our core operations;
- The adjustments for unrealized mark-to-market gains and losses on commodity contracts represent non-cash items to reflect changes in the fair value of forward contracts that have not been settled or terminated. We believe it is useful to adjust net income for these items because the charges do not represent a cash outlay in the period in which the charge is incurred, although Adjusted EBITDA must always be used together with our U.S. GAAP statements of comprehensive income and cash flows to capture the full effect of these contracts on our operating performance;
- The purchase accounting adjustments represent non-cash items to reflect fair value of certain assets at the date of acquisition, and therefore do not reflect our ongoing operations. Fair value adjustments to contingent consideration obligations related to business acquisitions are added back as they are akin to purchase price.

(b) Represents share-based compensation expense to account for stock options, restricted stock, and other stock awards over their respective vesting period.

(c) Represents the non-cash write-off of original issue discount and deferred financing costs due to voluntary prepayments of debt. Refer to Note 12, "Credit Agreements," to the consolidated financial statements in Item 8 of this Annual Report on Form 10-K for further information on the losses on extinguishment of debt.

(d) Represents transaction costs incurred directly in connection with any investment, as defined in our credit agreement, equity issuance or debt issuance or refinancing, together with certain fees relating to our senior secured credit facilities, such as administrative agent fees and credit facility commitment fees under our Amended Credit Agreement, which we believe to be akin to, or associated with, interest expense and whose inclusion in Adjusted EBITDA is therefore similar to the inclusion of interest expense in that calculation. Agreement.

(e) (d) Represents severance and other restructuring charges related to the consolidation of certain operating facilities and organizational functions.

(f) (e) Represents the following significant litigation, regulatory, and unusual charges other matters that are not indicative of our ongoing operations:

- a provision for judgments, settlements, and legal expenses related to certain patent and other litigation lawsuits - \$28.3 million \$9.2 million in 2024; \$27.3 million in 2023.
- Legal expenses related to certain class action lawsuits - \$1.3 million in 2024; \$1.0 million in 2023.
- A bad debt provision and additional customer support costs related to a clean energy product customer that filed for bankruptcy in 2022 – \$0.4 million additional customer support costs in 2024; \$4.4 million additional customer support costs in 2023; \$17.9 million bad debt provision in 2022.
- A provision for a matter with the CPSC concerning the imposition of civil fines for allegedly failing to timely submit a report under the CPSA Consumer Product Safety Act (CPSA) in relation to certain portable generators that were subject to a voluntary recall previously announced on

July 29, 2021 - \$5.8 million in 2023; \$10.0 million in 2022.

- a bad debt provision and additional customer support costs related to a clean energy product customer that filed for bankruptcy in 2022 – \$4.4 million additional customer support costs in 2023; \$17.9 million bad debt provision in 2022.
- a warranty provision to address certain clean energy product warranty-related matters - \$37.3 million \$37.3 million in 2022.

(f) Represents non-cash losses from changes in the fair value of the Company's investment in Wallbox N.V. warrants and equity securities.

(g) Represents fees paid to creditors and the write-off of the unamortized original issue discount and deferred financing costs in connection with the 2024 and 2022 credit agreement refinancings. Refer to Note 12, "Credit Agreements," to the consolidated financial statements in Item 8 of this Annual Report on Form 10-K for further information on the losses on extinguishment of debt.

Adjusted Net Income

To further supplement our consolidated financial statements in accordance with U.S. GAAP, we provide the computation of Adjusted Net Income attributable to the Company, which is defined as net income before noncontrolling interest interests adjusted for the following items: amortization of intangible assets, amortization of deferred financing costs and original issue discount related to our the Company's debt, intangible impairment charges, (if any), certain transaction costs and other purchase accounting adjustments, losses on extinguishment of debt, business optimization expenses, provision for certain legal and regulatory charges, certain other specific provisions, mark-to-market gains and losses on a minority investment, other non-cash gains and losses, or charges, and adjusted net income attributable to noncontrolling non-controlling interests, as set forth in the reconciliation table below. In addition, for periods prior to 2022, adjusted net income reflects cash income tax expense due to the existence of the tax shield from the amortization of tax-deductible goodwill and intangible assets from our acquisition by CCMP Capital Advisors, LLC in 2006. Due to the expiration of this tax shield in the fourth quarter of 2021, there is no similar reconciling item starting in 2022.

We believe Adjusted Net Income is used by securities analysts, investors and other interested parties in the evaluation of our company's operations. Management believes the disclosure of Adjusted Net Income offers an additional financial metric that, when used in conjunction with U.S. GAAP results and the reconciliation to U.S. GAAP results, provides a more complete understanding of our ongoing results of operations, and the factors and trends affecting our business.

The adjustments included in the reconciliation table listed below are presented to illustrate the operating performance of our business in a manner consistent with the presentation used by investors and securities analysts. Similar to the Adjusted EBITDA reconciliation, these adjustments eliminate the impact of a number of items we do not consider indicative

of our ongoing operating performance or cash flows, such as amortization costs, transaction costs and write-offs relating to the retirement of debt. **Prior to the expiration of our tax shield in the fourth quarter of 2021, we also made adjustments to present cash taxes paid as a result of our favorable tax attributes.**

Similar to Adjusted EBITDA, Adjusted Net Income does not represent, and should not be a substitute for, net income or cash flows from operations as determined in accordance with U.S. GAAP. Adjusted Net Income has limitations as an analytical tool, and you should not consider it in isolation, or as a substitute for analysis of our results as reported under U.S. GAAP. Some of the limitations are:

- Adjusted Net Income does not reflect changes in, or cash requirements for, our working capital needs;
- although amortization is a non-cash charge, the assets being amortized may have to be replaced in the future, and Adjusted Net Income does not reflect any cash requirements for such replacements; and
- other companies may calculate Adjusted Net Income differently than we do, limiting its usefulness as a comparative measure.

The following table presents a reconciliation of net income to Adjusted Net Income attributable to Generac Holdings Inc.:

(U.S. Dollars in thousands)	Year Ended December 31,			Year Ended December 31,		
	2023	2022	2021	2024	2023	2022
Net income attributable to Generac Holdings Inc.	\$ 214,606	\$ 399,502	\$ 550,494	\$ 316,315	\$ 214,606	\$ 399,502
Net income attributable to noncontrolling interests	2,514	9,368	6,075	663	2,514	9,368
Net income	217,120	408,870	556,569	316,978	217,120	408,870
Provision for income taxes (a)	-	-	134,957			
Amortization of intangible assets	104,194	103,320	49,886	97,743	104,194	103,320
Amortization of deferred finance costs and original issue discount	3,885	3,234	2,589			
Loss on extinguishment of debt	-	3,743	831			
Transaction costs and other purchase accounting adjustments (b)	2,089	3,588	19,655			
(Gain)/loss attributable to business or asset dispositions (c)	(119)	(229)	(4,383)			
Business optimization and other charges (see above)	10,551	4,371	33			
Provision for legal, regulatory, and clean energy product charges (see above)	38,490	65,265	-			
Amortization of deferred financing costs and original issue discount				3,242	3,885	3,234
Transaction costs and other purchase accounting adjustments (a)				2,717	2,089	3,588
Loss/(gain) attributable to business or asset dispositions (b)				65	(119)	(229)
Business optimization and other charges (c)				4,752	10,551	4,371
Provision for legal, regulatory, and clean energy product charges (c)				10,931	38,490	65,265
Change in fair value of investment (c)				38,006	-	-
Loss on extinguishment of debt (c)				4,861	-	3,743
Tax effect of add backs	(38,384)	(43,638)	-	(40,173)	(38,384)	(43,638)
Cash income tax expense (a)	-	-	(136,231)			
Adjusted net income	337,826	548,524	623,906	439,122	337,826	548,524
Adjusted net income attributable to noncontrolling interests	2,514	9,675	4,971	663	2,514	9,675
Adjusted net income attributable to Generac Holdings Inc.	\$ 335,312	\$ 538,849	\$ 618,935	\$ 438,459	\$ 335,312	\$ 538,849

(a) For the years ended December 31, 2021, the amount is based on a cash income tax rate of 19.7% due to the existence of the tax shield from the amortization of tax-deductible goodwill and intangible assets from our acquisition by CCMP Capital Advisors, LLC in 2006. Due to the expiration of this tax shield in the fourth quarter of 2021, there is no similar reconciling item for the 2022 or 2023 periods.

(b) Represents transaction costs incurred directly in connection with any investment, as defined in our credit agreement, equity issuance or debt issuance or refinancing, and certain purchase accounting and contingent consideration adjustments.

(c) (b) Represents gains and losses losses/(gains) attributable to the disposition of a business or assets occurring in other than ordinary course, as defined in our credit agreement.

(c) See reconciliation of net income to Adjusted EBITDA attributable to Generac Holdings Inc. above.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk

We are exposed to market risk from changes in foreign currency exchange rates, commodity prices and interest rates. To reduce the risk from these changes, we use financial instruments from time to time. We do not hold or issue financial instruments for trading purposes.

Foreign Currency

We are exposed to foreign currency exchange risk as a result of transactions denominated in currencies other than the U.S. Dollar, as well as operating businesses and supply chains in foreign countries. Periodically, we utilize foreign currency forward purchase and sales contracts to manage the volatility associated with certain foreign currency purchases and sales in the normal course of business. Contracts typically have maturities of twelve months or less. Realized gains and losses on transactions denominated in foreign currency are recorded as a component of cost of goods sold in the statements of comprehensive income.

The following is a summary of the 53 41 foreign currency contracts forward contracts outstanding as of December 31, 2023 December 31, 2024 (notional amount amounts in thousands): thousands of U.S. dollars).

Currency Denomination	Trade Dates	Effective Dates	Notional Amount	Expiration Date Dates
GBP USD	11/21/23 4/24	11/4/24	\$6,000	10/1/25 - 11/3/25
AUD	11/14/24 - 12/18/23 24	11/21/23 14/24 - 12/18/23 24	\$ 5,800 13,250	1/10/24 15/25 - 2/07/24 5/25
AUD GBP	11/21/23 - 12/27/23 14/24	11/21/23 - 12/27/23 14/24	\$ 15,850 1,750	1/10/24 - 2/14/24 15/25

Commodity Prices

We are a purchaser of commodities and components manufactured from commodities including steel, aluminum, copper and others. As a result, we are exposed to fluctuating market prices for those commodities. While such materials are typically available from numerous suppliers, commodity raw materials are subject to price fluctuations. We generally buy these commodities and components based on market prices that are established with the supplier as part of the purchase process. Depending on the supplier, these market prices may reset on a periodic basis based on negotiated lags and calculations. To the extent that commodity prices increase and we do not have firm pricing from our suppliers, or our suppliers are not able to honor such prices, we may experience a decline in our gross margins to the extent we are not able to increase selling prices of our products or obtain manufacturing efficiencies or supply chain savings to offset increases in commodity costs.

In 2021 and 2022, we experienced an increase in commodity and component costs resulting from supply chain challenges and the overall inflationary environment. We implemented multiple price increases to help mitigate the impact of these rising commodity costs, and the realization of these price increases in 2022 and 2023 helped to partially offset the higher commodity costs.

Periodically, we engage in certain commodity risk management activities to mitigate the impact of potential price fluctuations on our financial results. These derivatives typically have maturities of less than eighteen months. As of December 31, 2023 December 31, 2024, we had no the following commodity forward contracts outstanding.outstanding (notional amounts in thousands of U.S. dollars):

Hedged Item	Contract Date	Effective Date	Notional Amount	Expiration Date
High Grade Copper	July 22, 2024	August 1, 2024	\$947	January 31, 2025
High Grade Copper	July 30, 2024	August 1, 2024	\$923	January 31, 2025

Interest Rates

As of December 31, 2023 December 31, 2024, all of the outstanding debt under our Term Loans and Revolving Facility was subject to floating interest rate risk. As of December 31, 2023 December 31, 2024, we had the following interest rate swap contracts outstanding to help minimize our borrowing costs (notional amount in thousands of US U.S. dollars), to help minimize our borrowing costs: :

Hedged Item	Contract Date	Effective Date	Notional Amount	Fixed SOFR Rate	Expiration Date
Interest Rate	March 4, 2020	May 31, 2023	\$200,000	1.1360%	December 14, 2026
Interest Rate	March 5, 2020	May 31, 2023	\$100,000	1.0700%	December 14, 2026
Interest Rate	March 6, 2020	May 31, 2023	\$200,000	0.9560%	December 14, 2026

Hedged Item	Contract Date	Effective Date	Notional Amount	Fixed SOFR Rate	Expiration Date
SOFR Interest Rate	March 4, 2020	May 31, 2023	\$200,000	1.1360%	December 14, 2026

SOFR Interest Rate	March 5, 2020	May 31, 2023	\$100,000	1.0700%	December 14, 2026
SOFR Interest Rate	March 6, 2020	May 31, 2023	\$200,000	0.9560%	December 14, 2026

In June 2022, in conjunction with the amendments to the Company's credit agreements discussed further in Note 12, "Credit Agreements," to our consolidated financial statements in Item 8 of this Annual Report on Form 10-K, the Company amended its interest rate swaps to match that of the underlying debt and reconfirmed hedge effectiveness. The Company formally documented all relationships between interest rate hedging instruments and the related hedged items, as well as its risk-management objectives and strategies for undertaking various hedge transactions. These interest rate swap agreements qualify as cash flow hedges and therefore, the effective portions of their gains or losses are reported as a component of accumulated other comprehensive loss (AOCL) in the consolidated balance sheets. At December 31, 2023, the fair value of these interest rate swaps was an asset of \$39.8 million, excluding the impact of credit risk. Even after giving effect to these swaps, we are exposed to risks due to changes in interest rates with respect to the portions of our Term Loans and Revolving Facility that is not covered by the swaps. A hypothetical change in the SOFR interest rate of 100 basis points would have changed annual interest expense by approximately \$9.5 million (or, without the swaps in place, \$14.5 million) in 2023.

For additional information on the Company's foreign currency and commodity forward contracts and interest rate swaps, including amounts charged to the statements of comprehensive income during 2024, 2023, 2022, and 2021, 2022, refer to Note 5, "Derivative Instruments and Hedging Activities," and Note 6, "Accumulated Other Comprehensive Loss," to our consolidated financial statements in Item 8 of this Annual Report on Form 10-K.

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Item 8. Financial Statements and Supplementary Data

Report of Independent Registered Public Accounting Firm

To the stockholders and the Board of Directors of Generac Holdings Inc.

Waukesha, WI

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Generac Holdings Inc. and subsidiaries (the "Company") as of December 31, 2023, December 31, 2024, and 2022, 2023, the related consolidated statements of comprehensive income, stockholders' equity, and cash flows, for each of the three years in the period ended December 31, 2023, December 31, 2024, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2023, December 31, 2024, and 2022, 2023, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2023, December 31, 2024, 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, 2023, December 31, 2024, 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 21, 2024, February 19, 2025, 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 Matters

The critical audit **matters** communicated below **are** **matters** **is a matter** arising from the current-period audit of the financial statements that **were** **was** communicated or required to be communicated to the audit committee and that (1) **relate** **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 **matters** below, providing **a** separate **opinions** **opinion** on the critical audit **matters** or on the accounts or disclosures to which they relate, **it relates**.

Goodwill - Refer to Notes 2 and 9 to the consolidated financial statements

Critical Audit Matter Description

The Company's evaluation of goodwill for impairment involves the comparison of the fair value of each reporting unit to its carrying value. The Company's estimate for each reporting unit is based on the present value of estimated future cash flows attributable to the respective reporting unit. This requires management to make significant estimates and assumptions including estimates of future revenue, forecasted operating costs, and discount rates. Changes in the assumptions could have a significant impact on the fair value, which could result in an impairment charge. The Company evaluates goodwill for impairment annually as of October 31 or more frequently when an event occurs or circumstances change. In the Latin America impairment analysis, the reporting unit had an estimated fair value that exceeded the carrying value by approximately 12%. Because the estimated fair value exceeded the carrying value, no impairment was recorded. The carrying value of goodwill for the Company's Latin America reporting unit as of the impairment assessment was \$52.4 million.

Key financial assumptions utilized to determine the fair value of the Latin America reporting unit include forecasted revenue, forecasted operating costs, and the discount rate. The principal consideration for our determination that the evaluation of the Latin America reporting unit's goodwill is a critical audit matter is that there is a high degree of auditor effort, judgment and subjectivity involved in designing and performing procedures to evaluate the reasonableness of management's key assumptions utilized to determine the fair value of the Latin America reporting unit.

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How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to the forecasts of revenue, forecasted operating costs, and the selection of the discount rate for the Latin America reporting unit included the following, among others:

- Evaluated the design and effectiveness of the controls over management's goodwill impairment evaluation, including those over the determination of the fair value of the reporting unit, such as controls related to management's forecast and the selection of the discount rate.
- Obtained the Company's discounted cash flow model and evaluated the valuation analysis for mathematical accuracy.
- Utilized fair value specialists to evaluate whether the valuation techniques applied by management were appropriate.
- Assessed management's historical ability to accurately forecast the reporting unit's results of operations.
- Assessed management's intent and/or ability to take specific actions included in the discounted cash flow model.
- Evaluated the reasonableness of management's forecasts by comparing the forecasts to (1) historical results, (2) internal communications to the Board of Directors, and (3) forecasted information included in industry reports.
- Utilized fair value specialists to evaluate the reasonableness of the discount rate selected, including developing a range of independent estimates and comparing it to the discount rate utilized by the Company.

Revenue – Refer to Note 2 to the Consolidated Financial Statements

Critical Audit Matter Description

The Company has a wide range of products and services that are offered in various markets throughout the world. The Company's business activities are carried out by numerous individual business units, which offer a unique set of products and services within specific geographic areas.

We identified revenue as a critical audit matter given the disaggregated nature of the Company's operations and business units generating revenue. This required extensive audit effort due to the volume of the underlying transactions and distinctiveness of each individual business unit. High levels of auditor judgment were necessary to determine the nature, timing, and extent of audit procedures.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to the Company's revenue transactions included the following, among others:

- Evaluated the design and effectiveness of the controls within the relevant revenue business processes, including controls over revenue recognition and operating results.
- For a sample of revenue transactions, we performed detail transaction testing by agreeing the amounts recorded to source documents and determined that revenue was recognized appropriately.

- For the revenue populations subject to detail transaction testing, we tested the completeness of revenue by making selections from reciprocal populations and determined whether the transaction was recorded as a sale in the general ledger.
- For revenue transactions not subject to detail transaction testing we evaluated recorded activity based on analytical procedures using regression analyses to develop an expectation of the revenue balance at the product class level.

/s/ Deloitte & Touche LLP

Milwaukee, Wisconsin

February 21, 2024 19, 2025

We have served as the Company's auditor since 2016.

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Report of Independent Registered Public Accounting Firm

To the stockholders and the Board of Directors of Generac Holdings Inc.

Waukesha, Wisconsin

Opinion on Internal Control over Financial Reporting

We have audited the internal control over financial reporting of Generac Holdings Inc. and subsidiaries (the "Company") as of December 31, 2023 December 31, 2024, 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, 2023 December 31, 2024, 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, 2023 December 31, 2024, of the Company and our report dated February 21, 2024 February 19, 2025, 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

Milwaukee, Wisconsin

February 21, 2024 19, 2025

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Generac Holdings Inc.
Consolidated Balance Sheets

(U.S. Dollars in Thousands, Except Share and Per Share Data)

	December 31,		December 31,	
	2023	2022	2024	2023
Assets				
Current assets:				
Cash and cash equivalents	\$ 200,994	\$ 132,723	\$ 281,277	\$ 200,994
Accounts receivable, less allowance for credit losses of \$33,925 and \$27,664 at December 31, 2023 and 2022, respectively	537,316	522,458		
Accounts receivable, less allowance for credit losses of \$35,465 and \$33,925 as of December 31, 2024 and 2023, respectively			612,107	537,316
Inventories	1,167,484	1,405,384	1,031,647	1,167,484
Prepaid expenses and other assets	91,898	121,783	107,139	91,898
Total current assets	1,997,692	2,182,348	2,032,170	1,997,692
Property and equipment, net	598,577	467,604	690,023	598,577
Customer lists, net	184,513	206,987	152,737	184,513
Patents and technology, net	417,441	454,757	379,095	417,441
Other intangible assets, net	27,127	41,719	20,026	27,127
Tradenames, net	216,995	227,251	206,664	216,995
Goodwill	1,432,384	1,400,880	1,436,261	1,432,384
Deferred income taxes	15,532	12,746	24,132	15,532
Operating lease and other assets	203,051	175,170	168,223	203,051
Total assets	\$ 5,093,312	\$ 5,169,462	\$ 5,109,331	\$ 5,093,312
Liabilities and stockholders' equity				
Current liabilities:				
Short-term borrowings	\$ 81,769	\$ 48,990	\$ 55,848	\$ 81,769
Accounts payable	340,719	446,050	458,693	340,719
Accrued wages and employee benefits	54,970	45,741	81,485	54,970
Accrued product warranty	65,298	89,141	56,127	65,298
Other accrued liabilities	292,120	349,389	313,401	292,120
Current portion of long-term borrowings and finance lease obligations	45,895	12,733	67,598	45,895
Total current liabilities	880,771	992,044	1,033,152	880,771
Long-term borrowings and finance lease obligations	1,447,553	1,369,085	1,210,776	1,447,553
Deferred income taxes	90,012	125,691	33,185	90,012
Deferred revenue	167,008	143,726	193,260	167,008
Operating lease and other long-term liabilities	158,349	169,190	141,515	158,349

Total liabilities	2,743,693	2,799,736	2,611,888	2,743,693
Redeemable noncontrolling interest	6,549	110,471	—	6,549
Stockholders' equity:				
Common stock, par value \$0.01, 500,000,000 shares authorized, 73,195,055 and 72,701,257 shares issued at December 31, 2023 and 2022, respectively	733	728		
Common stock, par value \$0.01, 500,000,000 shares authorized, 73,785,631 and 73,195,055 shares issued as of December 31, 2024 and 2023, respectively			738	733
Additional paid-in capital	1,070,386	1,016,138	1,133,756	1,070,386
Treasury stock, at cost, 13,057,298 and 11,284,350 shares at December 31, 2023 and 2022, respectively	(1,032,921)	(808,491)		
Treasury stock, at cost, 14,173,697 and 13,057,298 shares as of December 31, 2024 and 2023, respectively			(1,196,997)	(1,032,921)
Excess purchase price over predecessor basis	(202,116)	(202,116)	(202,116)	(202,116)
Retained earnings	2,519,313	2,316,224	2,844,296	2,519,313
Accumulated other comprehensive loss	(15,143)	(65,102)	(85,399)	(15,143)
Stockholders' equity attributable to Generac Holdings Inc.	2,340,252	2,257,381	2,494,278	2,340,252
Noncontrolling interests	2,818	1,874	3,165	2,818
Total stockholders' equity	2,343,070	2,259,255	2,497,443	2,343,070
Total liabilities and stockholders' equity	\$ 5,093,312	\$ 5,169,462	\$ 5,109,331	\$ 5,093,312

See notes to consolidated financial statements.

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Generac Holdings Inc.
Consolidated Statements of Comprehensive Income
(U.S. Dollars in Thousands, Except Share and Per Share Data)

	Year Ended December 31,			Year Ended December 31,		
	2023	2022	2021	2024	2023	2022
Net sales	\$ 4,022,667	\$ 4,564,737	\$ 3,737,184	\$ 4,295,834	\$ 4,022,667	\$ 4,564,737
Costs of goods sold	2,657,236	3,042,733	2,377,102	2,630,208	2,657,236	3,042,733
Gross profit	1,365,431	1,522,004	1,360,082	1,665,626	1,365,431	1,522,004
Operating expenses:						
Selling and service	448,199	496,260	319,020	526,446	448,199	496,260
Research and development	173,443	159,774	104,303	219,600	173,443	159,774
General and administrative	252,936	194,861	144,272	285,095	253,396	196,320
Acquisition related costs	460	1,459	21,465			
Amortization of intangibles	104,194	103,320	49,886	97,743	104,194	103,320
Total operating expenses	979,232	955,674	638,946	1,128,884	979,232	955,674

Income from operations	386,199	566,330	721,136	536,742	386,199	566,330
Other (expense) income:						
Interest expense	(97,627)	(54,826)	(32,953)	(89,713)	(97,627)	(54,826)
Investment income	4,272	1,129	1,415	7,605	4,272	1,129
Change in fair value of investment				(38,006)	–	–
Loss on extinguishment of debt	–	(3,743)	(831)	(4,861)	–	(3,743)
Other, net	(2,544)	(424)	2,759	(2,329)	(2,544)	(424)
Total other expense, net	(95,899)	(57,864)	(29,610)	(127,304)	(95,899)	(57,864)
Income before provision for income taxes	290,300	508,466	691,526	409,438	290,300	508,466
Provision for income taxes	73,180	99,596	134,957	92,460	73,180	99,596
Net income	217,120	408,870	556,569	316,978	217,120	408,870
Net income attributable to noncontrolling interests	2,514	9,368	6,075	663	2,514	9,368
Net income attributable to Generac Holdings Inc.	\$ 214,606	\$ 399,502	\$ 550,494	\$ 316,315	\$ 214,606	\$ 399,502
Other comprehensive income (loss):						
Foreign currency translation adjustment	\$ 57,963	\$ (48,841)	\$ (41,030)	\$ (62,842)	\$ 57,963	\$ (48,841)
Net unrealized (loss) gain on derivatives	(8,004)	38,494	20,529	(7,672)	(8,004)	38,494
Other comprehensive income (loss)	49,959	(10,347)	(20,501)	(70,514)	49,959	(10,347)
Total comprehensive income	267,079	398,523	536,068	246,464	267,079	398,523
Comprehensive income attributable to noncontrolling interests	2,581	11,179	5,496	405	2,581	11,179
Comprehensive income attributable to Generac Holdings Inc.	\$ 264,498	\$ 387,344	\$ 530,572	\$ 246,059	\$ 264,498	\$ 387,344

Common stock issued under equity incentive plans, net of shares withheld for employee taxes and strike price	331,048	3	7,073						7,076			7,076
Common stock issued for business combination	30,640	1	12,000						12,001			12,001
Treasury stock issued for business combination			384,371	937,283	36,403				420,774			420,774
Net share settlement of restricted stock awards				(80,583)	(27,223)				(27,223)			(27,223)
Stock repurchases				(350,000)	(125,992)				(125,992)			(125,992)
Share-based compensation			23,954						23,954			23,954
Redemption value adjustment							(17,102)		(17,102)			(17,102)
Net income						550,494			550,494	501		550,995
Balance at												
December 31, 2021	72,386,017	\$ 725	\$ 952,939	(8,667,031)	\$ (448,976)	\$ (202,116)	\$ 1,965,957	\$ (54,755)	\$ 2,213,774	\$ 313	\$ 2,214,087	
Unrealized gain on interest rate swaps, net of tax of \$12,858								38,494	38,494		38,494	
Balance as of December 31, 2021	72,386,017	\$ 725	\$ 952,939									
Unrealized gain on interest rate swaps, net of tax of \$(12,858)												
Foreign currency translation adjustment								(48,841)	(48,841)	(264)	(49,105)	

Common stock issued under equity incentive plans, net of shares withheld for employee taxes and strike price	315,240	3	(247)					(244)		(244)	315,240	3	(24)
Payment of acquisition contingent consideration			33,965	196,531	13,158			47,123		47,123			33,96
Net share settlement of restricted stock awards				(91,843)	(26,833)			(26,833)		(26,833)			
Stock repurchases				(2,722,007)	(345,840)			(345,840)		(345,840)			
Share-based compensation			29,481					29,481		29,481			29,48
Redemption value adjustment							(49,235)	(49,235)		(49,235)			
Net income						399,502		399,502	1,825	401,327			
Balance at December 31, 2022	72,701,257	\$ 728	\$ 1,016,138	(11,284,350)	\$ (808,491)	\$ (202,116)	\$ 2,316,224	\$ (65,102)	\$ 2,257,381	\$ 1,874	\$ 2,259,255		
Unrealized loss on interest rate swaps, net of tax of \$2,674								(8,004)	(8,004)	(8,004)			
Balance as of December 31, 2022											72,701,257	\$ 728	\$ 1,016,13
Unrealized loss on interest rate swaps, net of tax of \$2,674													
Foreign currency translation adjustment								57,963	57,963	128	58,091		

Common stock issued under equity incentive plans, net of shares withheld for employee taxes and strike price	482,855	5	3,345					3,350		3,350	482,855	5	3,345
Payment of acquisition contingent consideration	10,943	-	15,411	466,118	33,396			48,807		48,807	10,943	-	15,411
Net share settlement of restricted stock awards				(50,591)	(6,313)			(6,313)		(6,313)			
Stock repurchases				(2,188,475)	(251,513)			(251,513)		(251,513)			
Share-based compensation			35,492					35,492		35,492			35,492
Redemption value adjustment							(11,517)	(11,517)		(11,517)			
Net income						214,606		214,606	816	215,422			
Balance at December 31, 2023	73,195,055	\$ 733	\$ 1,070,386	(13,057,298)	\$(1,032,921)	\$ (202,116)	\$ 2,519,313	\$ (15,143)	\$ 2,340,252	\$ 2,818	\$ 2,343,070		
Balance as of December 31, 2023	73,195,055	\$ 733	\$ 1,070,386								73,195,055	\$ 733	\$ 1,070,386
Unrealized loss on interest rate swaps, net of tax of \$2,563													
Foreign currency translation adjustment													
Common stock issued under equity incentive plans, net of shares withheld for employee taxes and strike price											590,576	5	14,120

Net share			
settlement of			
restricted			
stock awards			
Stock			
repurchases			
Share-based			
compensation			49,24
Redemption			
value			
adjustment			
Cash			
dividends paid			
to			
noncontrolling			
interest of			
subsidiary			
Net income			
Balance as of			
December 31,			73,785,631 \$ 738 \$ 1,133,75
2024			

See notes to consolidated financial statements.

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Generac Holdings Inc.
Consolidated Statements of Cash Flows
(U.S. Dollars in Thousands)

	Year Ended December 31,			Year Ended December 31,		
	2023	2022	2021	2024	2023	2022
Operating activities						
Net income	\$ 217,120	\$ 408,870	\$ 556,569	\$ 316,978	\$ 217,120	\$ 408,870
Adjustments to reconcile net income to net cash provided by operating activities:						
Depreciation	62,408	52,821	42,155			
Depreciation and finance lease amortization				74,025	62,408	52,821
Amortization of intangible assets	104,194	103,320	49,886	97,743	104,194	103,320
Amortization of original issue discount and deferred financing costs	3,885	3,234	2,589			
Amortization of deferred financing costs and original issue discount				3,242	3,885	3,234
Change in fair value of investment				38,006	—	—
Loss on extinguishment of debt	—	3,743	831	4,861	—	3,743
Deferred income taxes	(34,478)	(95,465)	(2,096)	(60,615)	(34,478)	(95,465)
Share-based compensation expense	35,492	29,481	23,954	49,248	35,492	29,481
Gain on disposal of assets	(285)	(592)	(4,393)			
Loss (gain) on disposal of assets				138	(285)	(592)
Other noncash charges	5,922	18,339	206	5,780	5,922	18,339
Excess tax benefits from equity awards				(5,069)	(977)	(16,910)

Net changes in operating assets and liabilities, net of acquisitions:						
Accounts receivable	(18,272)	6,547	(131,861)	(82,816)	(18,272)	6,547
Inventories	262,670	(319,274)	(470,991)	122,952	262,670	(319,274)
Other assets	24,266	4,766	(819)	546	24,266	4,766
Accounts payable	(120,900)	(223,031)	297,323	123,571	(120,900)	(223,031)
Accrued wages and employee benefits	7,962	(27,369)	5,814	26,870	7,962	(27,369)
Other accrued liabilities	(27,337)	110,036	73,798	25,841	(27,337)	110,036
Excess tax benefits from equity awards	(977)	(16,910)	(31,809)			
Net cash provided by operating activities	521,670	58,516	411,156	741,301	521,670	58,516
Investing activities						
Proceeds from sale of property and equipment	2,896	2,077	259	211	2,896	2,077
Proceeds from sale of investment	–	1,308	4,968			
Proceeds from beneficial interest in securitization transactions	3,294	3,566	4,609	–	3,294	3,566
Contribution to tax equity investment	(6,627)	(14,930)	(3,660)	(1,629)	(6,627)	(14,930)
Purchase of long-term investments				(37,821)	(32,592)	(15,000)
Proceeds from sale of long-term investments				2,000	–	1,308
Expenditures for property and equipment	(129,060)	(86,188)	(109,992)	(136,733)	(129,060)	(86,188)
Purchase of long-term investments	(32,592)	(15,000)	–			
Acquisition of businesses, net of cash acquired	(15,974)	(25,065)	(713,471)	(34,740)	(15,974)	(25,065)
Net cash used in investing activities	(178,063)	(134,232)	(817,287)	(208,712)	(178,063)	(134,232)
Financing activities						
Proceeds from short-term borrowings	64,257	248,209	272,818	29,219	64,257	248,209
Proceeds from long-term borrowings	348,827	1,026,284	150,088	541,475	348,827	1,026,284
Repayments of short-term borrowings	(37,104)	(268,133)	(239,113)	(54,548)	(37,104)	(268,133)
Repayments of long-term borrowings and finance lease obligations	(288,699)	(542,191)	(108,556)	(794,600)	(288,699)	(542,191)
Stock repurchases	(251,513)	(345,840)	(125,992)	(152,743)	(251,513)	(345,840)
Payment of debt issuance costs				(3,616)	–	(10,330)
Payment of contingent acquisition consideration	(4,979)	(16,135)	(3,750)	–	(4,979)	(16,135)
Payment of debt issuance costs	–	(10,330)	(1,185)			
Payment of deferred acquisition consideration				(7,421)	–	–
Purchase of additional ownership interest	(104,844)	(375)	(27,164)	(9,117)	(104,844)	(375)
Cash dividends paid to noncontrolling interest of subsidiary	–	(309)	–	(273)	–	(309)
Taxes paid related to equity awards	(10,897)	(40,923)	(58,903)	(24,769)	(10,897)	(40,923)
Proceeds from the exercise of stock options	7,815	13,786	38,787	27,558	7,815	13,786
Net cash (used in) provided by financing activities	(277,137)	64,043	(102,970)	(448,835)	(277,137)	64,043
Effect of exchange rate changes on cash and cash equivalents	1,801	(2,943)	1,312			
Effect of foreign exchange rate changes on cash and cash equivalents				(3,471)	1,801	(2,943)
Net increase (decrease) in cash and cash equivalents	68,271	(14,616)	(507,789)	80,283	68,271	(14,616)
Cash and cash equivalents at beginning of period	132,723	147,339	655,128	200,994	132,723	147,339
Cash and cash equivalents at end of period	<u>\$ 200,994</u>	<u>\$ 132,723</u>	<u>\$ 147,339</u>	<u>\$ 281,277</u>	<u>\$ 200,994</u>	<u>\$ 132,723</u>
Supplemental disclosure of cash flow information						
Cash paid during the period						
Interest	\$ 84,027	\$ 48,912	\$ 27,842	\$ 89,420	\$ 84,027	\$ 48,912
Income taxes	100,082	150,893	156,728	148,828	100,082	150,893

See notes to consolidated financial statements.

Generac Holdings Inc.**Notes to Consolidated Financial Statements**Years Ended **December 31, 2023** **December 31, 2024**, **2022** **2023** and **2021** **2022**

(U.S. Dollars in Thousands, Except Share and Per Share Data)

1. Description of Business

Founded in 1959, Generac Holdings Inc. (the Company) is a leading global designer and manufacturer of a wide range of energy technology solutions. The Company provides power generation equipment, energy storage systems, energy management devices & solutions, and other power products and services serving the residential, light commercial, and industrial markets. Generac's power products and solutions are available globally through a broad network of independent dealers, distributors, retailers, e-commerce partners, wholesalers, and equipment rental companies, as well as sold direct to certain end user customers.

Over the years, the Company has executed a number of acquisitions that support its strategic plan (refer to Item 1 in this Annual Report on Form 10-K for discussion of the Company's "Powering a Smarter World" strategic plan). A summary of acquisitions affecting the reporting periods presented include:

- In **June 2021**, **November 2024**, the Company acquired **Deep Sea Electronics Limited (Deep Sea) Wolverine Power Systems (Wolverine)**, founded in 1975 and headquartered in **Hunmanby, United Kingdom**. **Deep Sea Zeeland, Michigan**. **Wolverine** is an **industry leading designer industrial and manufacturer residential generator distributor** as well as a provider of **a diverse suite of flexible control solutions focused on the global power generation maintenance and transfer switch markets**. **repair services**.
- In **July 2021**, **August 2024**, the Company acquired **Chilicon Power** the assets and liabilities of **Ageto, LLC (Chilicon)**, a designer (**Ageto**). **Ageto designs and provider integrates microgrid control solutions and is headquartered in Fort Collins, Colorado**.
- In **June 2024**, the Company closed on the acquisition of **grid-interactive microinverter and monitoring solutions for the solar market based Commercial & Industrial Battery Energy Storage System (C&I BESS) product offering from SunGrid Solutions Inc. located in Los Angeles, California**. **Cambridge, Canada**.
- In **September 2021**, **April 2024**, the Company acquired **Apricity Code Corporation (Apricity Code) Huntington Power Equipment, Inc. (Huntington)**, headquartered in **Shelton, Connecticut**. **Huntington is an advanced engineering industrial and product design company located in Bend, Oregon**. **residential generator distributor as well as a provider of maintenance and repair services**.
- In **September 2021**, **February 2023**, the Company acquired **Off Grid Energy Ltd. (Off Grid Energy)**, **REFUstor**, headquartered in **Pfullingen, Germany**. **REFUstor is a designer developer and manufacturer supplier of industrial-grade mobile battery storage hardware products, advanced software, and platform services for the commercial and industrial energy storage systems**. Headquartered in **Rugby, United Kingdom**, **Off Grid Energy** offers a diverse range of energy storage solutions that provide cleaner and more flexible energy for industrial and mobile applications.
- In **October 2021**, the Company acquired **Tank Utility Inc. (Tank Utility)**. Headquartered in **Boston, Massachusetts**, **Tank Utility is a provider of internet of things (IoT) propane tank monitoring that enables the optimization of propane fuel logistics**.
- In **December 2021**, the Company acquired **ecobee Inc. (ecobee)**, founded in 2007 and headquartered in **Toronto, Canada**. **ecobee is a leader in sustainable home technology solutions including smart thermostats that deliver significant energy savings, security and peace of mind**.
- In **June 2022**, the Company acquired **Electronic Environments Co. LLC and related subsidiaries (collectively EEC)**. Headquartered in **Marlborough, Massachusetts**, **EEC is an industrial generator distributor as well as a provider of data center and telecom facility design, build, maintenance, and repair services**. **market**.
- In **October 2022**, the Company acquired **Blue Pillar**, an industrial IoT platform developer that designs, deploys, and manages industrial IoT network solutions to enable distributed energy generation monitoring and control.
- In **February 2023**, **June 2022**, the Company acquired **REFUstor**, headquartered **Electronic Environments Co. LLC and related subsidiaries (collectively EEC)**. Headquartered in **Pfullingen, Germany**. **REFUstor Marlborough, Massachusetts**, **EEC is an industrial generator distributor as well as a developer provider of design, build, maintenance, and supplier of battery storage hardware products, advanced software, and platform repair services for the commercial data center and industrial energy storage market**. **telecom facilities**.

2. Summary of Accounting Policies**Principles of Consolidation**

The consolidated financial statements include the accounts of the Company and its subsidiaries that are consolidated in conformity with U.S. GAAP. All intercompany amounts and transactions have been eliminated in consolidation.

Cash and Cash Equivalents

The Company considers all highly liquid investments purchased with an original maturity of three months or less to be cash equivalents.

Concentration of Credit Risk

The Company maintains the majority of its domestic cash in a few commercial banks in multiple operating and investment accounts. Balances on deposit are insured by the Federal Deposit Insurance Corporation (FDIC) up to specified limits. Balances in excess of FDIC limits are uninsured.

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One customer accounted for approximately 7% 10% and 11% 7% of accounts receivable at as of December 31, 2023 2024 and 2022 2023, respectively. No one customer accounted for greater than 4% 5%, 4%, and 6% 4%, of net sales during the years ended December 31, 2023 2024, 2022 2023, and 2021 2022, respectively.

Accounts Receivable and Allowance for Credit Losses

The Company's trade and other receivables primarily arise from the sale of its products and services to independent residential dealers, industrial distributors and dealers, national and regional retailers, electrical/HVAC/solar wholesalers, e-commerce partners, equipment rental companies, equipment distributors, solar installers, utilities, EPC companies, telecommunications customers, and certain end users with payment terms generally ranging from 30 to 90 days. The Company evaluates the credit risk of a customer when extending credit based on a combination of various financial and qualitative factors that may affect the customers' ability to pay. These factors include the customer's financial condition, past payment experience, credit bureau information, and regional considerations.

Receivables are recorded at their face value amount less an allowance for credit losses. The Company maintains an allowance for credit losses, which represents an estimate of expected losses over the remaining contractual life of its receivables considering current market conditions and estimates for supportable forecasts when appropriate. The Company measures expected credit losses on its trade receivables on an entity-by-entity basis. The estimate of expected credit losses considers a historical loss experience rate that is adjusted for delinquency trends, collection experience, and/or economic risk where appropriate based on current market conditions. Additionally, management develops a specific allowance for trade receivables known to have a high risk of expected future credit loss.

The Company holds various credit insurance plans that cover the risk of loss up to specified amounts on certain trade receivables. As of December 31, 2023, 2024, the Company had gross receivables of \$571,241 \$647,572 and an allowance for credit losses of \$33,925, 35,465.

The following is a tabular reconciliation of the Company's allowance for credit losses:

Inventories

	Year Ended December 31,	
	2023	2022
Balance at beginning of period	\$ 27,664	\$ 12,025
Established for acquisitions	24	498
Provision for credit losses (1)	7,443	17,966
Charge-offs	(1,464)	(2,554)
Currency translation	258	(271)
Balance at end of period	\$ 33,925	\$ 27,664

(1) Includes a specific credit loss provision of \$17,926 recorded during 2022 for a clean energy product customer that filed for bankruptcy.

Inventories

Inventories are stated at the lower of cost or market, with cost determined using the first-in, first-out method.

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Property and Equipment

Property and equipment, including internal use software, and software to provide a service, is recorded at cost and depreciated using the straight-line method over the estimated useful lives of the assets, which are summarized below (in years). Costs of leasehold improvements are amortized over the lesser of the term of the lease (including renewal option periods) or the estimated useful lives of the improvements. The Company capitalizes internal use software and significant enhancements when the Company obtains a software enhancements, license or develops the software internally. The Company capitalizes cloud computing arrangements that qualify as service contracts if the Company has the contractual right to take possession of the software at any time during the contract period, without significant penalty and if it is feasible for the Company to either operate the software internally or contract with a third party to host the software on our behalf. Implementation costs incurred in cloud computing arrangements that are service contracts are recorded in prepaid expenses and other assets and operating lease and other assets on in the Consolidated Balance Sheets and are amortized over the expected service

period. period of the cloud computing arrangements. Finance lease right of use assets are included in property and equipment. Refer to Note 10, "Leases," to the consolidated financial statements for the Company's lease disclosure.

Land improvements	8 – 20	8–20
Buildings and improvements	10 – 40	10–40
Machinery and equipment	3 – 15	3–15
Dies and tools	3 – 10	3–10
Vehicles	3 – 6	3–6
Office & information technology equipment and internal use software	3 – 15	3–15
Leasehold improvements	2 – 20	2–20

Total depreciation and finance lease amortization expense was \$74,025, \$62,408, \$52,821, and \$42,155 \$52,821 for the years ended December 31, 2023, 2024, 2022 2023 and 2021 2022, respectively.

Goodwill and Other Indefinite-Lived Intangible Assets

Goodwill represents the excess of the purchase price over fair value of identifiable net assets acquired from business acquisitions. Goodwill is not amortized, but is reviewed for impairment on an annual basis and between annual tests if indicators of impairment are present. The Company evaluates goodwill for impairment annually as of October 31 or more frequently when an event occurs or circumstances change that indicates the carrying value may not be recoverable. The Company has the option to assess goodwill for impairment by performing either a qualitative assessment or quantitative test. The qualitative assessment determines whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount. If the Company determines that it is not more likely than not that the fair value of a reporting unit is less than its carrying amount, then the quantitative test is not required to be performed. If the Company determines that it is more likely than not that the fair value of a reporting unit is less than its carrying amount, the Company is required to perform the quantitative test. In the quantitative test, the calculated fair value of the reporting unit is compared to its book value including goodwill. If the fair value of the reporting unit is in excess of its book value, the related goodwill is not impaired. If the fair value of the reporting unit is less than its book value, an impairment loss is recognized in an amount equal to that excess, limited to the total amount of goodwill allocated to that reporting unit.

Other indefinite-lived intangible assets consist of certain tradenames. The Company tests the carrying value of these tradenames annually as of October 31, or more frequently when an event occurs or circumstances change that indicates the carrying value may not be recoverable, by comparing the assets' fair value to its carrying value. Fair value is measured using a relief-from-royalty approach, which assumes the fair value of the tradename is the discounted cash flows of the amount that would be paid had the Company not owned the tradename and instead licensed the tradename from another company.

The Company performed the required annual impairment tests for goodwill and other indefinite-lived intangible assets for the fiscal years 2023 2024, 2022 2023 and 2021 2022, and found no impairment.

Impairment of Long-Lived Assets

The Company periodically evaluates the carrying value of long-lived assets (excluding goodwill and indefinite-lived tradenames). Long-lived assets are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. If the sum of the expected future undiscounted cash flows is less than the carrying amount of an asset, a loss is recognized for the difference between the fair value and carrying value of the asset.

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Debt Issuance Costs

Debt discounts and direct costs incurred in connection with the issuance or amendment of long-term debt are deferred and recorded as a reduction of outstanding debt and amortized to interest expense using the effective interest method over the terms of the related credit agreements. \$3,885, \$3,234, \$3,242, \$3,885, and \$2,589, \$3,234 of deferred financing costs and original issue discount were amortized to interest expense during fiscal years 2023 2024, 2022 2023 and 2021 2022, respectively. Excluding the impact of any future long-term debt issuances or prepayments, estimated amortization to interest expense for the next five years is as follows: 2024 - \$3,923; 2025 - \$3,919; 2,573; 2026 - \$3,819; 2,544; 2027 - \$1,028; 1,434; 2028 - \$0. \$437;

2029 - \$463.

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Income Taxes

The Company is a C Corporation and therefore accounts for income taxes pursuant to the liability method. Accordingly, the current or deferred tax consequences of a transaction are measured by applying the provision of enacted tax laws to determine the amount of taxes payable currently or in future years. Deferred income taxes are provided for temporary differences between the income tax **bases basis** of assets and liabilities and their carrying amounts for financial reporting purposes. In assessing the realizability of deferred tax assets, the Company considers whether it is more likely than not that some portion or all of the deferred tax assets will not be realized. The ultimate realization of deferred tax assets is dependent upon the generation of future taxable income during the years in which those temporary differences become deductible. The Company considers taxable income in prior carryback years, the scheduled reversal of deferred tax liabilities, projected future taxable income and tax planning strategies, as appropriate, in making this assessment.

Revenue Recognition

The Company's revenues primarily consist of **product sales the sale of products** to its customers. The Company considers the purchase orders, which in some cases are governed by master sales agreements, to be the contracts with the customers. For each contract, the Company considers the commitment to transfer products, each of which is distinct, to be the identified performance obligations. Revenue is measured as the amount of consideration the Company expects to be entitled in exchange for the transfer of product, which is generally the price stated in the contract specific for each item sold, adjusted for the value of expected returns, discounts, rebates, or other promotional incentives or allowances offered to our customers. Expected returns for damaged or defective product are estimated using the expected value method based on historical product return experience. Discounts and rebates offered to customers are typically defined in the master sales agreements with customers and, therefore, are recorded using the most likely amount method based on the terms of the contract. Promotional incentives are defined programs offered for short, specific periods of time and are estimated using the expected value method based on historical experience. The Company does not expect the transaction price for revenue recognized will be subject to a significant revenue reversal. As the Company's product sale contracts and standard payment terms have a duration of less than one year, it uses the practical expedient applicable to such contracts and does not consider the time value of money. Sales, use, value add, and other similar taxes assessed by governmental authorities and collected **concurrent concurrently** with revenue-producing activities are excluded from revenue. The Company has elected to recognize the cost for freight activities when control of the product has transferred to the customer as an expense within cost of goods sold in the consolidated statements of comprehensive income. Product revenues are recognized at the point in time when control of the product is transferred to the customer, which typically occurs upon shipment or delivery to the customer. To determine when control has transferred, the Company considers if there is a present right to payment and if legal title, physical possession, and the significant risks and rewards of ownership of the asset has transferred to the customer. As a substantial portion of the Company's product revenues are recognized at a point in time, the amount of unsatisfied performance obligations at each period end is not material. The Company's contracts have an original expected duration of one year or less. As a result, the Company has elected to use the practical expedient to not disclose its remaining performance obligations.

While the Company's standard payment terms are less than one year, the specific payment terms and conditions in its customer contracts vary. In some cases, customers prepay for their goods; in other cases, after appropriate credit evaluation, an open credit line is granted and payment is due in **arrears. arrears after shipment of the product to the customer.** Contracts with payment in arrears are recognized in the consolidated balance sheets as accounts receivable upon revenue recognition, while contracts where customers pay in advance are recognized as customer deposits and recorded in other accrued liabilities in the consolidated balance sheets until revenue is recognized. The balance of customer deposits (contract liabilities) was **\$19,173 and \$33,551 at \$26,858 and \$19,173 as of** December 31, **2023 2024,** and December 31, **2022 2023,** respectively. During the year ended December 31, **2023 2024,** the Company recognized revenue of **\$33,551 \$19,173** related to amounts included in the December 31, **2022 2023,** customer deposit balance. The Company typically recognizes revenue within one year of the receipt of the customer deposit.

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The Company offers standard warranty coverage on substantially all products that it sells and accounts for this standard warranty coverage as an assurance warranty. As such, no transaction price is allocated to the standard warranty, and the Company records a liability for product warranty obligations at the time of sale to a customer based on historical warranty experience. Refer to Note 11, "Product Warranty Obligations," to the consolidated financial statements **of this Annual Report on Form 10-K** for further information regarding the Company's standard warranties.

The Company also sells extended warranty coverage for certain products, which it accounts for as service warranties. In most cases, the extended warranty is sold as a separate contract. As such, extended warranty sales are considered a separate performance obligation, and the extended warranty transaction is separate and distinct from the product. The extended warranty transaction price is initially recorded as deferred revenue in the consolidated balance sheets and amortized on a straight-line basis to net sales in the consolidated statements of comprehensive income over the life of the contracts, following the standard warranty period. For extended warranty contracts that the Company sells under a third-party marketing agreement, it is required to pay fees to the third-party service provider and classifies these fees as costs to obtain a contract. The contract costs are deferred and recorded as other assets in the consolidated balance sheets. The deferred contract costs are amortized **as an offset** to net sales in the consolidated statements of comprehensive income consistent with how the related deferred revenue is recognized. Refer to Note 11, "Product Warranty Obligations," to the consolidated financial statements **of this Annual Report on Form 10-K** for further information regarding the Company's extended warranties.

In addition to extended warranties, the Company offers other services, including remote monitoring, installation, maintenance, data center and telecom **facility** design and build, and grid services to utilities in certain circumstances. Total service revenues accounted for less **than than** 4%, **3% 4%,** and **2% 3%** of net **sales sales** during the years ended December 31, **2023, 2024, 2022 2023** and **2021 2022,** respectively.

Refer to Note 7, "Segment Reporting," to the consolidated financial statements **of this Annual Report on Form 10-K** for the Company's disaggregated revenue disclosure. The information discussed above is applicable to each of the Company's product classes.

Advertising and Co-Op Advertising

Expenditures for advertising, included in selling and service expenses in the consolidated statements of comprehensive income, are expensed as incurred. Expenditures for advertising production costs are expensed when the related advertisement is first run. Expenditures for Co-Op advertising are expensed when claimed by the customer. Total expenditures for advertising were \$118,303, \$116,550, \$110,589, \$18,303, and \$66,660 \$100,589 for the years ended December 31, 2023, 2024, 2022, 2023 and 2021, 2022, respectively.

Research and Development

The Company expenses research and development costs as incurred. Total expenditures incurred for research and development were \$173,443, \$159,774, \$219,600, \$173,443, and \$104,303 \$159,774 for the years ended December 31, 2023, 2024, 2022, 2023 and 2021, 2022, respectively.

Foreign Currency Translation and Transactions

Balance sheet amounts for non-U.S. Dollar functional currency subsidiaries are translated into U.S. Dollars at the rates of exchange in effect at the end of the fiscal year. Income and expenses incurred in a foreign currency are translated at the average rates of exchange in effect during the year. The related balance sheet translation adjustments are made directly to accumulated other comprehensive loss, a component of stockholders' equity, in the consolidated balance sheets. Gains and losses from foreign currency transactions are recognized as incurred in the consolidated statements of comprehensive income.

Fair Value of Financial Instruments

ASC 820-10, *Fair Value Measurement*, 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 basis or nonrecurring basis. ASC 820-10 clarifies that fair value is an exit price, representing the amount that would be received in the sale of 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. As a basis for considering such assumptions, the pronouncement establishes a three-tier fair value hierarchy, which prioritizes the inputs used in measuring fair value as follows: (Level 1) observable inputs such as quoted prices in active markets; (Level 2) inputs, other than the quoted prices in active markets, that are observable either directly or indirectly; and (Level 3) unobservable inputs in which there is little or no market data, which require the reporting entity to develop its own assumptions.

The Company believes the carrying amount of its financial instruments (cash and cash equivalents, accounts receivable, accounts payable, accrued liabilities, short-term borrowings, and revolving facility (Revolving Facility) borrowings), excluding Term Loan borrowings, approximates the fair value of these instruments based on their short-term nature. The fair value of the Tranche A Term Loan B Facility borrowing, which has a net carrying value of \$524,946, of \$710,715, was approximately \$531,325 \$705,375 (Level 2) at as of December 31, 2023, 2024. The fair value of the Tranche B Term Loan Facility borrowing, which has a net carrying value of \$495,936, was approximately \$501,244 (Level 2) as of December 31, 2024. These Term Loan fair values were calculated based on independent valuations whose which contain inputs and significant value drivers that are observable. The fair value of Term Loan A and Revolving Facility approximates the carrying value.

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For the fair value of the assets and liabilities measured on a recurring basis, excluding the contingent consideration discussed below, refer to the fair value table in Note 5, "Derivative Instruments and Hedging Activities," to the consolidated financial statements, statements of this Annual Report on Form 10-K. The fair value of all the Company's interest rate swaps and commodity and foreign currency derivative contracts is are classified as Level 2. The valuation techniques used to measure the fair value of these derivative contracts, all of which have counterparties with high credit ratings, were based on quoted market prices or model driven valuations using significant inputs derived from or corroborated by observable market data. The fair value of the derivative contracts discussed above considers the Company's credit risk in accordance with ASC 820-10.

The fair value of the Wallbox stock warrants is classified as Level 3. The fair value of these contracts is measured using a Black Scholes option pricing model, with significant inputs derived from or corroborated by observable market data as well as internal estimates, specifically the time period until exercise. The warrants received in the third quarter of 2024 and fourth quarter of 2023 expire at the earlier of when the price per share equals or exceeds \$6.00 or in 2028 and 2029, respectively. The time period until exercise assumption has a significant impact on the fair value of the warrants.

Equity Securities

Equity securities consist of shares of Wallbox N.V.'s (Wallbox) Class A common stock (Wallbox Shares). The Wallbox Shares are classified as Level 1 in the fair value hierarchy and are recognized at fair value using the closing price of Wallbox common stock quoted on the New York Stock Exchange (NYSE) on the last trading day of the quarter. The investment in Wallbox Shares is included in operating lease and other assets in the consolidated balance sheets. The fair value of the investment in Wallbox Shares was \$19,075 and \$17,213

as of December 31, 2024, and December 31, 2023, respectively. Gains and losses attributable to the Wallbox Shares are recognized in other expense, net in the consolidated statements of comprehensive income. The loss recognized on the investment in Wallbox Shares was \$30,679 for the year ended December 31, 2024. For additional information regarding the Company's investment in Wallbox, see Note 5, "Derivative Instruments and Hedging Activities," to the consolidated financial statements of this Annual Report on Form 10-K

Contingent Consideration

Certain of the Company's business combinations involve potential payment of future consideration that is contingent upon the achievement of certain milestones. As part of purchase accounting, a liability is recorded for the estimated fair value of the contingent consideration on the acquisition date. The fair value of the contingent consideration is remeasured at each reporting period, and the change in fair value is recognized within general and administrative expenses in the Company's consolidated statements of comprehensive income. The fair value measurement of contingent consideration is typically categorized as a Level 3 liability, as the measurement amount is based primarily on significant inputs that are not observable in the market.

The combined fair value of contingent consideration for Chilicon and Ageto as of December 31, 2024, and for Chilicon and Pramac as of December 31, 2023, was \$34,114 and \$38,937, which was reported in other long-term liabilities in the consolidated balance sheet at December 31, 2023, respectively. The fair value of contingent consideration as of December 31, 2022 was \$81,533, of which \$49,500 was reported in other accrued liabilities and \$32,033 in other long-term liabilities in the consolidated balance sheet. The contingent consideration period for Chilicon extends through December 31, 2028. The while the contingent consideration period for Pramac extends through December 31, 2025. The contingent consideration for Ageto can be earned in equal increments with onethird of the contingent consideration capable of being earned each year as of August 1, 2025, August 1, 2026, and August 1, 2027. The current portion of contingent consideration is reported in other accrued liabilities and the non-current portion is reported in operating lease and other long-term liabilities in the consolidated balance sheets.

The following table provides a reconciliation of the activity for contingent consideration:

Beginning balance, January 1, 2023	\$	81,533	
Beginning balance, January 1, 2024			\$ 38,937
Changes in fair value (1)		-	(11,627)
Additional contingent consideration (1) (2)		11,490	5,911
Payment of contingent consideration (2)		(53,786)	-
Present value interest accretion		(300)	893
Ending balance, December 31, 2023	\$	38,937	
Ending balance, December 31, 2024			\$ 34,114

(1) Represents \$11,490 the change in fair value of the contingent deferred consideration for the Pramac buyout. See Note 4, "Redeemable Noncontrolling Interest", to the consolidated financial statements of this Annual Report on Form 10-K.

(2) Includes payments Represents \$5,911 of \$479 in cash and \$44,521 in shares for contingent consideration related to the ecobee acquisition, \$4,286 in shares for the Chilicon acquisition, and \$4,500 in cash for the Mean Green Ageto acquisition. The payment of common stock is accounted for as a non-cash item in the consolidated statement of cash flows.

Use of Estimates

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

Derivative Instruments and Hedging Activities

The Company records all derivatives in accordance with ASC 815, *Derivatives and Hedging*, which requires derivative instruments to be reported in the consolidated balance sheets at fair value and establishes criteria for designation and effectiveness of hedging relationships. The Company is exposed to market risk such as changes in commodity prices, foreign currencies and interest rates. The Company does not hold or issue trade derivative financial instruments for trading purposes.

Share-Based Compensation

Share-based compensation expense, including stock options and restricted stock awards, is generally recognized on a straight-line basis over the vesting period based on the fair value of awards which are expected to vest. The fair value of all share-based awards is estimated on the date of grant. Refer to Note 17, "Share Plans," to the consolidated financial statements of this Annual Report on Form 10-K for further information on the Company's share-based compensation plans and accounting.

Acquisition related costs

Acquisition related costs are external costs the Company incurs to complete a business combination including legal fees, professional and advisory services, transaction taxes such as stamp tax, and insurance premiums. The Company accounts for acquisition related costs as expense in the period in which the costs are incurred and the services are received. Total acquisition related costs were \$460, \$1,459, and \$21,465 for the years ended December 31, 2023, 2022 and 2021, respectively.

New Accounting Pronouncements

Changes to GAAP are established by the Financial Accounting Standards Board (FASB) in the form of accounting standard updates (ASUs) to the FASB Accounting Standards Codification (ASC) Codification.

In November 2024, the FASB issued ASU 2024-03 *Income Statement - Reporting Comprehensive Income - Expense Disaggregation Disclosures (Subtopic 220-40): Disaggregation of Income Statement Expenses*. The new guidance is intended to provide investors more detailed disclosures around specific types of expenses. The new disclosures require additional quantitative and qualitative information for certain expenses contained within the Consolidated Statements of Comprehensive Income to be presented in the notes to the financial statements. The update is effective for fiscal years beginning after December 15, 2026, and interim periods within fiscal years beginning after December 15, 2027, with early adoption permitted. The disclosure updates are required to be applied prospectively with the option for retrospective application. The Company is currently assessing the impact and timing of adopting the updated provisions.

In March 2024, the Securities and Exchange Commission (SEC) adopted a final rule under SEC Release No.33-11275, *The Enhancement and Standardization of Climate-Related Disclosures for Investors*, to enhance and standardize climate-related disclosures. The rule will require companies to disclose material Scope 1 and Scope 2 greenhouse gas emissions; climate-related risks, governance, and oversight; and the financial effects of severe weather events and other natural conditions. These disclosures will begin to be phased in beginning with the Company's annual report for the year ending December 31, 2025. While this rule has been stayed pending the outcome of legal challenges, the Company is currently assessing the impact of adoption on the Company's consolidated financial statements and related disclosures in the event the stay is lifted.

In December 2023, the FASB issued ASU 2023-09 *Improvements to Income Tax Disclosures*. The ASU establishes new income tax disclosure requirements in addition to modifying and eliminating certain existing requirements. Under the new guidance, the Company must consistently categorize and provide greater disaggregation of information in the rate reconciliation. It must also further disaggregate income taxes paid. The update is effective for fiscal years beginning after December 15, 2024, and interim periods for fiscal years beginning after December 15, 2025, 2024. Entities may apply the amendments new disclosures prospectively or may elect retrospective application. The Company is evaluating the impact of the new required disclosures, but does not expect the adoption of ASU 2023-09 to have a material impact on the Company's consolidated financial statements.

In November 2023, the FASB issued ASU 2023-07 *Segment Reporting - Improving Reportable Segment Disclosures (Topic 280)*. The update is intended to improve reportable segment disclosure requirements, primarily through enhanced disclosures about significant expenses. The ASU requires disclosures to include significant segment expenses that are regularly provided to the chief operating decision maker (CODM), a description of other segment items by reportable segment, and any additional measures of a segment's profit or loss used by the CODM when deciding how to allocate resources. The ASU also requires all annual disclosures currently required by Topic 280 to be included in interim periods. The update is effective for fiscal years beginning after December 15, 2023, and interim periods within fiscal years beginning after December 15, 2024, with early adoption permitted and requires retrospective application to all prior periods presented in the financial statements. The required annual disclosures are reflected in Note 7, "Segment Reporting," to this Annual Report on Form 10-K and the Company will disclose the required quarterly information beginning with the Form 10-Q for the three months ending March 31, 2025.

There have been no other recent accounting pronouncements, changes in accounting pronouncements, or recently adopted accounting guidance during 2023 2024 that are of significance or potential significance to the Company's consolidated financial statements or disclosures.

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3. Acquisitions

Fiscal 2023 2024 Acquisitions

On November 1, 2024, the Company acquired Wolverine, headquartered in Zeeland, Michigan. Wolverine is an industrial and residential generator distributor as well as a provider of maintenance and repair services.

On August 1, 2024, the Company acquired the assets and liabilities of Ageto. Ageto designs and integrates microgrid control solutions and is headquartered in Fort Collins, Colorado.

On June 26, 2024, the Company closed on the acquisition of the C&I BESS product offering from SunGrid Solutions Inc. located in Cambridge, Canada.

On April 1, 2024, the Company acquired Huntington, headquartered in Shelton, Connecticut. Huntington is an industrial and residential generator distributor as well as a provider of maintenance and repair services.

The combined preliminary purchase price for these acquisitions was \$45,825, net of cash acquired and inclusive of holdbacks and estimated contingent consideration. The Company recorded its preliminary purchase price allocations based on its estimates of the fair value of the acquired assets and assumed liabilities. Purchase accounting for C&I BESS and Huntington will be finalized prior to June 30, 2025, while purchase accounting for Ageto will be finalized prior to September 30, 2025. Purchase accounting for Wolverine

will be finalized prior to December 31, 2025. There have not been any material changes to the preliminary purchase price allocation for Wolverine, Ageto, C&I BESS, or Huntington as of December 31, 2024. The accompanying consolidated financial statements include the results of these acquisitions from their dates of acquisition.

Fiscal 2023 Acquisitions

On February 1, 2023, the Company acquired REFUstor, headquartered in Pfullingen, Germany. REFUstor is a developer and supplier of battery storage hardware products, advanced software, and platform services for the commercial and industrial energy storage market.

The Company recorded its preliminary purchase price allocation for REFUstor during the first quarter of 2023, based on its estimates of the fair value of the acquired assets and assumed liabilities. Purchase accounting will be for REFUstor was finalized prior to in the March 31, first quarter of 2024 and there have did not been any result in material changes adjustments to the balances acquired as of December 31, 2023. Company's preliminary estimates. The final purchase price was \$16,127. The accompanying consolidated financial statements include the results of REFUstor from since the date of acquisition through December 31, 2023. acquisition.

Fiscal 2022 Acquisitions

On June 30, 2022, the Company acquired EEC. Headquartered in Marlborough, Massachusetts, EEC is an industrial generator distributor as well as a provider of data center and telecom facility design, build, maintenance, and repair services. services for data center and telecom facilities.

On October 3, 2022, the Company acquired Blue Pillar, an industrial IoT platform developer that designs, deploys, and manages industrial IoT network solutions to enable distributed energy generation monitoring and control.

The combined purchase price for these two acquisitions was \$25,654, net of cash acquired. The Company recorded its preliminary purchase price allocation for EEC and Blue Pillar during the second quarter and fourth quarter of 2022, respectively, based on its estimates of the fair value of the acquired assets and assumed liabilities. Purchase accounting for EEC was finalized in the second quarter of 2023, and did not result in material adjustments to the Company's preliminary estimates. Purchase purchase accounting for Blue Pillar was finalized in the fourth quarter of 2023, and did not result neither of which resulted in material adjustments to the Company's preliminary estimates. The final combined purchase price for EEC and Blue Pillar has increased to \$27,658 due to working capital adjustments. was \$27,658. The accompanying consolidated financial statements include the results of the acquired businesses since the their dates of acquisition through December 31, 2023. acquisition.

Fiscal Pro forma and other financial information are 2021 not

Acquisition presented as the effects of Deep Sea

On June 1, 2021, the Company acquired Deep Sea for a purchase price, net of cash acquired, of \$420,700. Headquartered in Hunmanby, United Kingdom, Deep Sea is a designer and manufacturer of a diverse suite of flexible control solutions focused on the global power generation and transfer switch markets. The acquisition purchase price was funded solely through cash on hand.

The Company finalized the Deep Sea purchase price allocation during the second quarter of Company's acquisitions since 2022 based on its estimates of the fair value of the acquired assets and assumed liabilities. The finalization did are not result in material adjustments to the Company's preliminary estimates. As a result, the Company recorded \$437,874 of intangible assets, including \$263,604 of goodwill recorded in the international segment, as of the acquisition date. The goodwill ascribed to this acquisition is not deductible for tax purposes. The accompanying consolidated financial statements include the results of Deep Sea from the date of acquisition through December 31, 2023. operations or financial position.

Acquisition of Chilicon

On July 2, 2021, the Company acquired Chilicon for a purchase price, net of cash acquired, of \$61,129 inclusive of estimated contingent consideration. Based in Los Angeles, California, Chilicon is a designer and provider of grid-interactive microinverter and monitoring solutions for the solar market. Total consideration consisted of the following:

Cash paid at closing	\$	11,821
Deferred cash payment (1)		6,000
Common stock issued at closing		12,000
Contingent consideration (2)		31,308
Total purchase price	\$	61,129

(1) Paid on January 4, 2024.

(2) Payable in common stock issued upon achievement of certain performance targets within 45 calendar days following the conclusion of the contingent consideration period, December 31, 2028.

The Company finalized the Chilicon purchase price allocation during the second quarter of 2022 based on its estimates of the fair value of the acquired assets and assumed liabilities. The finalization did not result in material adjustments to the Company's preliminary estimates. As a result, the Company recorded \$70,174 of intangible assets, including \$36,974 of goodwill recorded in the domestic segment, as of the acquisition date. The goodwill ascribed to the Chilicon acquisition is not deductible for tax purposes. The accompanying consolidated financial statements include the results of Chilicon from the date of acquisition through December 31, 2023.

Acquisition of Off Grid Energy

On September 1, 2021, the Company acquired Off Grid Energy for a purchase price of \$56,949, net of cash acquired and inclusive of the then estimated contingent consideration of \$29,054 payable in cash based on the contingent consideration period performance. The contingent consideration was paid during the third quarter of 2022 in the amount of \$16,135. Headquartered in Rugby, United Kingdom, Off Grid Energy is a designer and manufacturer of industrial-grade mobile energy storage systems. The acquisition purchase price was funded through cash on hand.

The Company finalized the Off Grid Energy purchase price allocation during the third quarter of 2022 based on its estimates of the fair value of the acquired assets and assumed liabilities. The finalization did not result in material adjustments to the Company's preliminary estimates. As a result, the Company recorded \$56,076 of intangible assets, including \$21,531 of goodwill recorded in the international segment, as of the acquisition date. The goodwill ascribed to this acquisition is not deductible for tax purposes. The accompanying consolidated financial statements include the results of Off Grid Energy from the date of acquisition through December 31, 2023.

Acquisition of ecobee

On December 1, 2021, the Company acquired ecobee for a purchase price, net of cash acquired, of \$735,577 inclusive of estimated contingent consideration. Headquartered in Toronto, Canada, ecobee is a leader in sustainable home technology solutions including smart thermostats that deliver significant energy savings, security and peace of mind. The purchase price consisted of the following:

Cash paid at closing	\$	225,403
Common stock issued at closing		420,774
Contingent consideration (1)		89,400
Total purchase price	\$	735,577

(1) The contingent consideration for the period ended June 30, 2022, was paid during the fourth quarter of 2022 in the amount of \$47,123 in shares of common stock, or 196,531 shares of common stock, and \$542 was paid with cash on hand. Additionally, during the fourth quarter of 2022, the Company entered into a definitive agreement to accelerate the measurement and payment for the remaining contingent consideration period ending June 30, 2023. The parties agreed to a final payment amount of \$45,000 issued with 466,188 shares of common stock and \$479 of cash. The \$45,000 was paid during the first quarter of 2023.

The Company finalized the ecobee purchase price allocation during the fourth quarter of 2022 based on its estimates of the fair value of the acquired assets and assumed liabilities. The finalization did not result in material adjustments to the Company's preliminary estimates. As a result, the Company recorded \$806,131 of intangible assets, including \$248,231 of goodwill recorded in the domestic segment, as of the acquisition date. A portion of the goodwill ascribed to this acquisition is deductible for tax purposes. The accompanying consolidated financial statements include the results of ecobee from the date of acquisition through December 31, 2023.

Other Acquisitions

On September 1, 2021, the Company acquired Apricity Code, an advanced engineering and product design company located in Bend, Oregon.

On October 1, 2021, the Company acquired Tank Utility, a provider of IoT propane tank monitoring that enables the optimization of propane fuel logistics.

The combined purchase price for these two acquisitions was \$29,945, net of cash acquired, and was funded solely through cash on hand. The Company finalized its purchase price allocation during the third quarter of 2022 based on the Company's estimates of the fair value of the acquired assets and assumed liabilities. The finalization did not result in material adjustments to the Company's preliminary estimates. The accompanying consolidated financial statements include the results of these two acquired businesses since the dates of acquisition through December 31, 2023.

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Summary Purchase Price Allocations

The fair values assigned to certain assets acquired and liabilities assumed for all acquisitions completed during the reporting period, as of the acquisition dates, since January 1, 2022, are as follows:

			2021 Acquisitions			
	2023 Acquisitions	2022 Acquisitions	Deep Sea	ecobee	All Other	Total
Accounts receivable	\$ 347	\$ 11,965	\$ 9,574	\$ 23,337	\$ 13,852	\$ 46,763
Inventories	1,239	2,955	9,970	7,258	7,034	24,262
Prepaid expenses and other current assets	166	4,456	1,181	5,689	6,594	13,464
Property and equipment	5,843	708	8,838	3,588	480	12,906
Intangible assets	6,174	10,032	174,270	557,900	81,171	813,341
Goodwill	5,363	8,714	263,604	248,231	83,859	595,694
Deferred income taxes	-	-	-	40,020	5,694	45,714
Other assets	837	1,954	151	9,289	8,526	17,966
Total assets acquired	19,969	40,784	467,588	895,312	207,210	1,570,110
Accounts payable	1,278	1,826	8,998	25,968	7,473	42,439
Accrued wages and employee benefits	264	1,662	2,106	1,354	872	4,332

Other accrued liabilities	236	7,917	1,737	19,898	18,258	39,893
Short-term borrowings	-	-	-	-	800	800
Current portion of long-term borrowings and finance lease obligations	-	-	-	-	233	233
Deferred income taxes	2,007	564	33,957	78,753	19,930	132,640
Other long-term liabilities	57	1,157	90	33,762	9,997	43,849
Long-term debt	-	-	-	-	1,624	1,624
Net assets acquired	<u>\$ 16,127</u>	<u>\$ 27,658</u>	<u>\$ 420,700</u>	<u>\$ 735,577</u>	<u>\$ 148,023</u>	<u>\$ 1,304,300</u>

The allocations of the purchase price to identifiable assets and liabilities for the 2022 and 2021 acquisitions are based on the final valuations performed to determine the fair value of the net assets as of their respective acquisition dates.

	2024 Acquisitions	2023 Acquisitions	2022 Acquisitions
Accounts receivable	\$ 9,528	\$ 347	\$ 11,965
Inventories	10,150	1,239	2,955
Prepaid expenses and other current assets	864	166	4,456
Property and equipment	824	5,843	708
Intangible assets	14,551	6,174	10,032
Goodwill	22,536	5,363	8,714
Other assets	<u>2,712</u>	<u>837</u>	<u>1,954</u>
Total assets acquired	<u>61,165</u>	<u>19,969</u>	<u>40,784</u>
Accounts payable	2,420	1,278	1,826
Accrued wages and employee benefits	1,256	264	1,662
Other accrued liabilities	9,043	236	7,917
Current portion of long-term borrowings and finance lease obligations	146	-	-
Deferred income taxes	803	2,007	564
Other long-term liabilities	1,490	57	1,157
Long-term debt	<u>182</u>	<u>-</u>	<u>-</u>
Net assets acquired	<u>\$ 45,825</u>	<u>\$ 16,127</u>	<u>\$ 27,658</u>

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Unaudited Pro Forma Information

The following unaudited pro forma information of the Company gives effect to all acquisitions as though the transactions had occurred on January 1, 2021.

	Year Ended December 31,		
	2023	2022	2021
Net Sales:			
As reported	\$ 4,022,667	\$ 4,564,737	\$ 3,737,184
Pro forma	4,022,826	4,600,162	3,933,666
Net income attributable to Generac Holdings Inc.:			
As reported	\$ 214,606	\$ 399,502	\$ 550,494
Pro forma (1)	214,343	395,261	461,193
Net income attributable to Generac Holdings Inc. per common share - diluted			
As reported	\$ 3.27	\$ 5.42	\$ 8.30
Pro forma	3.27	5.36	6.91

(1) Includes additional pro forma intangible amortization from all acquisitions as though the transactions had occurred on January 1, 2021 of \$111, \$2,465, and \$70,152 for the years ended December 31, 2023, 2022, and 2021, respectively.

This unaudited pro forma information is presented for informational purposes only and is not necessarily indicative of the results of operations that actually would have been achieved had the acquisitions been consummated on January 1, 2021.

4. Redeemable Noncontrolling Interest

On March 1, 2016, the Company acquired a 65% ownership interest in PR Industrial S.r.l. and its subsidiaries (Pramac). The 35% noncontrolling interest in Pramac had an acquisition date fair value of \$34,253 and was recorded as a redeemable noncontrolling interest in the consolidated balance sheets, as the noncontrolling interest holder had within its control the right to require the Company to redeem its interest in Pramac. In May 2021, the Company exercised its call option rights and paid a purchase price of \$27,164 to purchase an additional 15% ownership interest in Pramac, bringing the Company's total ownership interest in Pramac to 80%. On March 8, 2023, the Company and the noncontrolling interest holder entered into an agreement whereby the Company acquired the remaining 20% ownership interest in Pramac for a purchase price of \$116,754, which brought the Company's total ownership interest in Pramac to 100%. The purchase price for the remaining 20% ownership interest included \$105,264 of initial consideration, (which which included a cash payment of \$104,844 and a \$420 gain on a foreign currency settlement in the first quarter of 2023,) and \$11,490 of contingent deferred consideration to be paid in of up to 135,205 restricted shares that were issued based on the twenty day volume weighted average price of the Company's stock ending on December 31, 2022, and which shall vest upon achievement of certain earnings targets at the end of the earn-out period, December 31, 2025. Accordingly, there was no redeemable noncontrolling interest related to Pramac as of December 31, 2023. This contingent deferred consideration was reduced to zero in the fourth quarter of 2024. Refer to Note 2, "Summary of Accounting Policies", to the consolidated financial statements of this Annual Report on Form 10-K for further information regarding the contingent deferred consideration.

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On February 1, 2019, the Company acquired a 51% ownership interest in Captiva Energy Solutions Private Limited (Captiva). The 49% noncontrolling interest in Captiva had an acquisition date fair value of \$3,165 and was recorded as a redeemable noncontrolling interest in the consolidated balance sheets, as the noncontrolling interest holder had within its control the right to require the Company to redeem its interest in Captiva. The noncontrolling interest holder has had a put option to sell his interest to the Company any time after five years from the date of acquisition, or earlier upon the occurrence of certain circumstances. Further, the Company has had a call option that it may redeem be redeemed any time after five years from the date of acquisition, or earlier upon the occurrence of certain circumstances. The put and call option price is was based on a multiple of earnings, subject to the terms of the acquisition agreement. In March May 2022, 2022, the Company signed an agreement to purchase purchased an additional 15% ownership interest in Captiva for a purchase price of \$461, \$375, which was paid with cash on hand, bringing the Company's total ownership interest in Captiva to 66%. In On May 2022, April 5, 2024, the Company signed an amendment to acquired the purchase agreement resulting remaining 34% ownership interest in a revised purchase price Captiva for \$9,117 of \$375, which was paid with cash on hand. cash.

The redeemable noncontrolling interests are were recorded at the greater of the initial fair value, increased or decreased for the noncontrolling interests' share of comprehensive income (loss), or the estimated redemption value, with any adjustments to the redemption value impacting retained earnings, but not net income. However, the redemption value adjustments are reflected in the earnings per share calculation, as detailed in Note 14, "Earnings Per Share," to the consolidated financial statements, statements of this Annual Report on Form 10-K. The following table presents the changes in the redeemable noncontrolling interest for both Captiva and Pramac:

	Year Ended December 31,			Year Ended December 31,		
	2023	2022	2021	2024	2023	2022
Balance at beginning of period	\$ 110,471	\$ 58,050	\$ 66,207	\$ 6,549	\$ 110,471	\$ 58,050
Share of net income (loss)	1,864	7,543	5,574			
Foreign currency translation	(549)	(3,982)	(3,669)			
Share of net income				58	1,864	7,543
Foreign currency translation rate changes				(176)	(549)	(3,982)
Purchase of additional ownership interest	(116,754)	(375)	(27,164)	(9,117)	(116,754)	(375)
Redemption value adjustment	11,517	49,235	17,102	2,686	11,517	49,235
Balance at end of period	\$ 6,549	\$ 110,471	\$ 58,050	\$ -	\$ 6,549	\$ 110,471

5. Derivative Instruments and Hedging Activities

Commodities

The Company is exposed to price fluctuations in commodities including steel, copper and aluminum; and periodically utilizes commodity derivatives to mitigate and foreign currency forward purchase and sales contracts in the impact normal course of these potential price fluctuations on its financial results. These derivatives typically have maturities of less than eighteen months.

business. Because these contracts do not qualify for hedge accounting, the related gains and losses are recorded in cost of goods sold in the Company's consolidated statements of comprehensive income. Net pre-tax gains recognized were not material for the years ended December 31, 2023, 2022The commodity and 2021, respectively. At December 31, 2023 and 2022, the Company had no commodity contracts outstanding.

Foreign Currencies

The Company is exposed to foreign currency exchange risk as a result of transactions denominated in currencies other than the U.S. Dollar. The Company periodically utilizes foreign currency forward purchase and sales contracts to manage the volatility associated with certain foreign currency purchases and sales in the normal course of business. Contracts typically have maturities of twelve months or less.

Because these contracts do not qualify for hedge accounting, the related contract gains and losses are recorded in "other, net" innot material to the Company's consolidated financial statements of comprehensive income. Net pre-tax gains (losses) recognized for the years ended December 31, 2023, 2022 and 2021 were not material. As of December 31, 2023 and 2022, periods presented.

Additionally, the Company had 53maintains interest rate swap agreements and 34 foreign currency contracts outstanding, respectively. owns stock warrants described in more detail below.

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Interest Rate Swaps

In 2017, the Company entered into twenty interest rate swap agreements, the finalfinal four of of which expired in May 2023.In March 2020, the Company entered into three additional interest rate swap agreements, which were still outstanding as of December 31, 2023, 2024.

In June 2022, in conjunction with the amendments to the Company's credit agreements discussed further in Note 12, "Credit Agreements," to the consolidated financial statements of this Annual Report on Form 10-K, the Company amended its interest rate swaps to match the underlying debt and reconfirmed hedge effectiveness. The Company formally documented all relationships between interest rate hedging instruments and the related hedged items, as well as its risk-management objectives and strategies for undertaking various hedge transactions. These interest rate swap agreements qualify as cash flow hedges and therefore, the effective portions of their gains or losses are reported as a component of accumulated other comprehensive loss (AOCL) in the consolidated balance sheets.

The amount of after-tax unrealized gains (losses) recognized for the years ended December 31, 2023, 2024, 2022 2023 and 2021 2022 were \$(7,672), \$(8,004), \$38,494, and \$20,529, \$38,494, respectively. The cash flows of the swaps are recognized as adjustments to interest expense each period. The ineffective portions of the derivatives' changes in fair value, if any, are immediately recognized in earnings.

See Item 7A "Quantitative and Qualitative Disclosures About Market Risk" of this Annual Report on Form 10-K for additional information on these interest rate swaps.

Stock Warrants

During the fourth quarter of 2023, the Company entered into a \$30,000 agreement with Wallbox to purchase 5% of its Class A common stock and acquire stock warrants, the latter of which provide the rights to an incremental approximate 5% ownership in the Class A common stock outstanding of Wallbox upon exercise at a fixed price with anti-dilution protections for a period of time. During the third quarter of 2024, the Company received additional warrants in connection with an additional round of funding performed by Wallbox through the Company's anti-dilution protection rights. In accordance with U.S. GAAP, the Company is required to adjust the carrying value of these warrants to market value on a quarterly basis. Gains and losses attributable to the stock warrants are recognized in other expense, net in the consolidated statements of comprehensive income. The loss attributable to the stock warrants was \$7,327 for the year ended December 31, 2024.

Fair Value

The following table presents the fair value of the Company's derivatives:

	December 31,		December 31,	
	2023	2022	2024	2023
Foreign currency contracts	\$ (147)	\$ 94		
Interest rate swaps	38,601	49,279	\$ 28,367	\$ 38,601
Stock warrants			7,919	14,862

The fair values of the interest rate swaps and stock warrants are included in operating lease and other assets in the consolidated balance sheet as of December 31, 2023 2024and 2022 December 31, 2023. . Excluding the impact of credit risk, the fair value of the derivative contracts interest rate swaps as of December 31, 2023, 2024, and December 31, 2022, 2023, is an asset of \$39,796 \$29,254 and \$51,184, \$39,796, respectively, which represents the net amount the Company would receive to exit all of the agreements on that date.

6. Accumulated Other Comprehensive Loss

The following presents a tabular disclosure of changes in AOCL during the years ended December 31, 2023 2024 and 2022 2023, net of tax:

	Foreign Currency Translation Adjustments	Unrealized Gain (Loss) on Cash Flow Hedges	Total
Beginning Balance – January 1, 2023	\$ (101,545)	\$ 36,443	\$ (65,102)
Current-period comprehensive income (loss)	57,963 (1)	(8,004) (2)	49,959
Ending Balance – December 31, 2023	\$ (43,582)	\$ 28,439	\$ (15,143)

	Foreign Currency Translation Adjustments	Unrealized Gain (Loss) on Cash Flow Hedges	Total
Beginning Balance – January 1, 2024	\$ (43,582)	\$ 28,439	\$ (15,143)
Current-period comprehensive income (loss)	(62,584) (1)	(7,672) (2)	(70,256)
Ending Balance – December 31, 2024	\$ (106,166)	\$ 20,767	\$ (85,399)

	Foreign Currency Translation Adjustments	Unrealized Gain (Loss) on Cash Flow Hedges	Total
Beginning Balance – January 1, 2022	\$ (52,704)	\$ (2,051)	\$ (54,755)
Current-period comprehensive income (loss)	(48,841) (3)	38,494 (4)	(10,347)
Ending Balance – December 31, 2022	\$ (101,545)	\$ 36,443	\$ (65,102)

	Foreign Currency Translation Adjustments	Unrealized Gain (Loss) on Cash Flow Hedges	Total
Beginning Balance – January 1, 2023	\$ (101,545)	\$ 36,443	\$ (65,102)
Current-period comprehensive income (loss)	57,963 (3)	(8,004) (4)	49,959
Ending Balance – December 31, 2023	\$ (43,582)	\$ 28,439	\$ (15,143)

- (1) Represents unfavorable impact from the strengthening of the U.S. dollar against foreign currencies during the year ended December 31, 2024, particularly the Euro, British Pound, and Mexican Peso.
- (2) Represents unrealized losses of \$(10,235) on the interest rate swaps, net of tax effect of \$2,563 for the year ended December 31, 2024.
- (3) Represents favorable impact from the weakening of the U.S. dollar against foreign currencies during the year ended December 31, 2023, particularly the Euro, British Pound, and Mexican Peso.
- (4) Represents unrealized losses of \$10,678 \$(10,678) on the interest rate swaps, net of tax effect of \$(2,674) for the year ended December 31, 2023.
- (3) Represents unfavorable impact from the strengthening of the U.S. dollar against foreign currencies during the year ended December 31, 2022, particularly the Euro and British Pound.
- (4) Represents unrealized gains of \$51,352 on the interest rate swaps, net of tax effect of \$(12,858) \$2,674 for the year ended December 31, 2022, 2023.

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7. Segment Reporting

The Company has two reportable segments for financial reporting purposes – domestic and international. The domestic segment includes the legacy Generac business and the all historical acquisitions that are based in the U.S. and Canada, all of which have revenues substantially derived from the U.S. and Canada. The international segment includes all

historical acquisitions not based in the U.S and Canada, all of which have revenues substantially derived from outside the U.S and Canada. Both reportable segments design and manufacture a wide range of energy technology solutions and other power products. The Company has multiple operating segments, which it aggregates into the two reportable segments, based on materially similar economic characteristics, products, production processes, classes of customers, distribution methods, organizational structure, and regional considerations. Intersegment sales are at an appropriate transfer price.

The Company's product offerings consist primarily of power generation equipment, energy storage systems, energy management devices & solutions, and other power products geared for varying end customer uses. While Residential products and Commercial & Industrial (C&I) products include similar products, they differ based on power output and end customer. The composition of net sales between residential, C&I, and other products & services by reportable segment is as follows:

Product Classes	Net Sales by Segment			Net Sales by Segment		
	Year Ended December 31, 2023			Year Ended December 31, 2024		
	Domestic	International	Total	Domestic	International	Total
Residential products	\$ 1,945,273	\$ 117,656	\$ 2,062,929	\$ 2,352,629	\$ 80,845	\$ 2,433,474
Commercial & industrial products	916,118	578,681	1,494,799			
Commercial & Industrial products				828,586	560,883	1,389,469
Other	414,933	50,006	464,939	417,934	54,957	472,891
Total net sales	\$ 3,276,324	\$ 746,343	\$ 4,022,667	\$ 3,599,149	\$ 696,685	\$ 4,295,834

Product Classes	Year Ended December 31, 2022			Year Ended December 31, 2023		
	Domestic	International	Total	Domestic	International	Total
Residential products	\$ 2,782,037	\$ 129,834	\$ 2,911,871	\$ 1,945,273	\$ 117,656	\$ 2,062,929
Commercial & industrial products	746,172	514,565	1,260,737			
Commercial & Industrial products				916,118	578,681	1,494,799
Other	339,657	52,472	392,129	414,933	50,006	464,939
Total net sales	\$ 3,867,866	\$ 696,871	\$ 4,564,737	\$ 3,276,324	\$ 746,343	\$ 4,022,667

Product Classes	Year Ended December 31, 2021			Year Ended December 31, 2022		
	Domestic	International	Total	Domestic	International	Total
Residential products	\$ 2,366,908	\$ 89,857	\$ 2,456,765	\$ 2,782,037	\$ 129,834	\$ 2,911,871
Commercial & industrial products	556,520	442,478	998,998			
Commercial & Industrial products				746,172	514,565	1,260,737
Other	240,622	40,799	281,421	339,657	52,472	392,129
Total net sales	\$ 3,164,050	\$ 573,134	\$ 3,737,184	\$ 3,867,866	\$ 696,871	\$ 4,564,737

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Residential products consist primarily of automatic home standby generators ranging in output from 7.5kW to 150kW, portable generators, residential energy storage systems, energy management devices & solutions, and other outdoor power equipment. These products are predominantly sold through independent residential dealers, national and regional retailers, e-commerce merchants, electrical/HVAC/solar wholesalers, solar installers, and outdoor power equipment dealers. The residential products revenue consists of the sale of the product to our the Company's distribution partners, who in turn sell or rent the product to the end consumer, including installation and maintenance services. In some cases, residential products are sold direct directly to the end consumer. Substantially all of the residential products' revenues are transferred to the customer at a point in time.

C&I products consist of larger output stationary generators used in C&I applications, with power outputs up to 3,250kW. Also included in C&I products are mobile generators, light towers, C&I battery energy storage systems, mobile heaters, mobile pumps, and related controllers controls for power generation equipment. These products are sold globally through industrial distributors and dealers, EPC Engineering, Procurement, and Construction (EPC) companies, equipment rental companies, and equipment distributors. The C&I products revenue consists of the sale of the product to our the Company's distribution partners, who in turn sell or rent the product to the end customer, including installation and maintenance services. In some cases, C&I products are sold direct directly to the end customer. Substantially all of the C&I products products' revenues are transferred to the customer at a point in time.

Other consists primarily of aftermarket service parts and product accessories sold to our customers, the Company's distribution partners, the amortization of extended warranty deferred revenue, remote monitoring and grid services subscription revenue, as well as certain design, build, installation, and maintenance service revenue. The aftermarket service parts and product accessories are generally transferred to the customer at a point in time, while the extended warranty and subscription revenue are recognized over the life of the contract. Other service revenue is recognized when the service is performed, sometimes based on achievement of milestones, after certain milestones are met.

The following tables sets forth total sales by reportable segment and inclusive of intersegment sales:

	Year Ended December 31, 2023			
	Domestic	International	Eliminations	Total
External net sales	\$ 3,276,324	\$ 746,343	\$ -	\$ 4,022,667
Intersegment sales	43,937	91,552	(135,489)	-
Total sales	<u>\$ 3,320,261</u>	<u>\$ 837,895</u>	<u>\$ (135,489)</u>	<u>\$ 4,022,667</u>
	Year Ended December 31, 2022			
	Domestic	International	Eliminations	Total
External net sales	\$ 3,867,866	\$ 696,871	\$ -	\$ 4,564,737
Intersegment sales	60,731	93,699	(154,430)	-
Total sales	<u>\$ 3,928,597</u>	<u>\$ 790,570</u>	<u>\$ (154,430)</u>	<u>\$ 4,564,737</u>
	Year Ended December 31, 2021			
	Domestic	International	Eliminations	Total
External net sales	\$ 3,164,050	\$ 573,134	\$ -	\$ 3,737,184
Intersegment sales	39,339	26,123	(65,462)	-
Total sales	<u>\$ 3,203,389</u>	<u>\$ 599,257</u>	<u>\$ (65,462)</u>	<u>\$ 3,737,184</u>

Management evaluates the performance of its segments based primarily on Company views Adjusted EBITDA which is reconciled to Income before provision for income taxes below as a key measure of the Company's performance. The computation of Adjusted EBITDA is based primarily on the definition that is contained in the Company's credit agreements.

	Adjusted EBITDA		
	Year Ended December 31,		
	2023	2022	2021
Domestic	\$ 523,337	\$ 716,302	\$ 795,417
International	114,522	109,065	66,008
Total adjusted EBITDA	<u>\$ 637,859</u>	<u>\$ 825,367</u>	<u>\$ 861,425</u>
Interest expense	(97,627)	(54,826)	(32,953)
Depreciation and amortization	(166,602)	(156,141)	(92,041)
Non-cash write-down and other adjustments (1)	5,953	2,091	3,070
Non-cash share-based compensation expense (2)	(35,492)	(29,481)	(23,954)
Loss on extinguishment of debt (3)	-	(3,743)	(831)
Transaction costs and credit facility fees (4)	(4,054)	(5,026)	(22,357)
Business optimization and other charges (5)	(10,551)	(4,371)	(33)
Provision for legal, regulatory, and clean energy product charges (6)	(38,490)	(65,265)	-
Other	(696)	(139)	(800)
Income before provision for income taxes	<u>\$ 290,300</u>	<u>\$ 508,466</u>	<u>\$ 691,526</u>

The Company presents Adjusted EBITDA not only due to its importance for purposes of the Company's credit agreements, but also because it assists the Company in comparing performance across reporting periods on a consistent basis as it excludes items the Company's management does not believe are indicative of the Company's core operating performance. The Company's Chief Operating Decision Maker (CODM) is Aaron Jagdfeld, President and Chief Executive Officer (CEO). He uses Adjusted EBITDA, along with the Company's management:

- for planning purposes, including the preparation of the Company's annual operating budget and developing and refining internal projections for future periods;
- to allocate resources to enhance the financial performance of the Company's business;
- as a target for the determination of the bonus component of compensation for the Company's senior executives under the Company's management incentive plan, as described further in the Company's Proxy Statement;
- to evaluate the effectiveness of the Company's business strategies and as a supplemental tool in evaluating the Company's performance against the Company's budget for each period; and

- in communications with the Company's Board and investors concerning the Company's financial performance.

See "Non-GAAP measures - Adjusted EBITDA" in Item 7 of this Annual Report on Form 10-K for more information on the Company's use of Adjusted EBITDA. The table below presents sales (external and intersegment), significant segment expenses, and Adjusted EBITDA by reportable segment, reconciled to consolidated income before provision for income taxes.

	Year Ended December 31, 2024			Year Ended December 31, 2023			Year Ended December 31, 2022		
	Domestic	International	Total	Domestic	International	Total	Domestic	International	Total
External net sales	\$ 3,599,149	696,685	\$ 4,295,834	\$ 3,276,324	\$ 746,343	\$ 4,022,667	\$ 3,867,866	\$ 696,871	\$ 4,564,737
Intersegment sales	35,932	28,700	64,632	43,937	91,552	135,489	60,731	93,699	154,430
Total sales	3,635,081	725,385	4,360,466	3,320,261	837,895	4,158,156	3,928,597	790,570	4,719,167
Elimination of intersegment sales	-	-	(64,632)	-	-	(135,489)	-	-	(154,430)
Costs of goods sold	2,155,269	539,571	2,694,840	2,168,210	624,515	2,792,725	2,604,124	593,039	3,197,163
Elimination of intersegment cost of goods sold	-	-	(64,632)	-	-	(135,489)	-	-	(154,430)
Operating expenses	991,042	137,842	1,128,884	839,827	139,405	979,232	833,896	121,778	955,674
Other segment items (1)	(204,433)	(47,926)	(252,359)	(211,113)	(40,547)	(251,660)	(225,725)	(33,312)	(259,037)
Adjusted EBITDA by reportable segment	\$ 693,203	\$ 95,898	789,101	\$ 523,337	\$ 114,522	637,859	\$ 716,302	\$ 109,065	825,367
Interest expense			(89,713)			(97,627)			(54,826)
Depreciation and amortization			(171,768)			(166,602)			(156,141)
Non-cash write-down and other adjustments (2)			(4,757)			5,953			2,091
Non-cash share-based compensation expense (3)			(49,248)			(35,492)			(29,481)
Transaction costs and credit facility fees (4)			(5,097)			(4,054)			(5,026)
Business optimization and other charges (5)			(4,752)			(10,551)			(4,371)
Provision for legal, regulatory, and clean energy product charges (6)			(10,931)			(38,490)			(65,265)
Change in fair value of investment (7)			(38,006)			-			-
Loss on extinguishment of debt (8)			(4,861)			-			(3,743)
Other			(530)			(696)			(139)
Income before provision for income taxes			\$ 409,438			\$ 290,300			\$ 508,466

- Other segment items primarily represent depreciation and amortization and the following items defined below: Non-cash write-down and other adjustments; Non-cash share-based compensation expense; Transaction costs and credit facility fees; Business optimization and other charges; Provision for legal, regulatory, and clean energy product charges.
- Includes gains/losses (losses) on dispositions of assets other than in the ordinary course of business, gains/losses (losses) on sales of certain investments, unrealized mark-to-market adjustments on commodity contracts, certain foreign currency related adjustments, and certain purchase accounting and contingent consideration adjustments.
- Represents share-based compensation expense to account for stock options, restricted stock, and other stock awards over their respective vesting periods.
- Represents the non-cash write-off of original issue discount and deferred financing costs due primarily to a voluntary prepayment of debt.
- Represents transaction costs incurred directly in connection with any investment, as defined in our the Company's credit agreement, equity issuance or debt issuance or refinancing, together with certain fees relating to our the Company's senior secured credit facilities. facilities, such as administrative agent fees and credit facility commitment fees under the Company's Amended Credit Agreement.
- Represents severance and other restructuring charges related to the consolidation of certain operating facilities and organizational functions.
- Represents the following significant litigation, regulatory, and unusual charges other matters that are not indicative of our ongoing operations:
 - a A provision for judgments, settlements, and legal expenses related to certain patent and other litigation lawsuits - \$28,340 \$9,299 in 2024; \$27,289 in 2023.
 - Legal expenses related to certain class action lawsuits - \$1,267 in 2024; \$1,051 in 2023.
 - A bad debt provision and additional customer support costs related to a clean energy product customer that filed for bankruptcy in 2022 – \$365 and \$4,350 additional customer support costs in 2024 and 2023, respectively; \$17,926 bad debt provision in 2022.
 - A warranty provision to address clean energy product warranty-related matters - \$37,338 in 2022.
 - A provision for a matter with the CPSC concerning the imposition of civil fines for allegedly failing to timely submit a report under the CPSCA in relation to certain portable generators that were subject to a voluntary recall previously announced on July 29, 2021 - \$5,800 in 2023; 2023 and \$10,000 in 2022.
 - a bad debt provision
- Represents non-cash losses from changes in the fair value of the Company's investment in Wallbox warrants and additional customer support equity securities.

- (g) Represents fees paid to creditors and the write-off of the unamortized original issue discount and deferred financing costs for a clean energy product customer that filed for bankruptcy in connection with the 2024 and 2022 – \$4,350 additional customer support costs in credit agreement refinancings. Refer to Note 2023; 12, \$17,926 bad debt provision in "Credit Agreements," to the consolidated financial statements of this Annual Report on Form 2022, 10
- a warranty provision to address certain clean energy product warranty-related matters - \$37,338 in 2022.

-K for further information on the losses on extinguishment of debt.

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The following tables summarize additional financial information by reportable segment:

	Assets			Assets		
	December 31,			December 31,		
	2023	2022	2021	2024	2023	2022
Domestic	\$ 3,770,883	\$ 4,032,086	\$ 3,742,101	\$ 3,873,904	\$ 3,770,883	\$ 4,032,086
International	1,322,429	1,137,376	1,135,679	1,235,427	1,322,429	1,137,376
Total	\$ 5,093,312	\$ 5,169,462	\$ 4,877,780	\$ 5,109,331	\$ 5,093,312	\$ 5,169,462

	Depreciation and Amortization			Depreciation and Amortization		
	Year Ended December 31,			Year Ended December 31,		
	2023	2022	2021	2024	2023	2022
Domestic	\$ 129,648	\$ 123,768	\$ 66,675	\$ 135,434	\$ 129,648	\$ 123,768
International	36,954	32,373	25,366	36,334	36,954	32,373
Total	\$ 166,602	\$ 156,141	\$ 92,041	\$ 171,768	\$ 166,602	\$ 156,141

	Capital Expenditures			Capital Expenditures		
	Year Ended December 31,			Year Ended December 31,		
	2023	2022	2021	2024	2023	2022
Domestic	\$ 103,036	\$ 69,680	\$ 100,672	\$ 117,836	\$ 103,036	\$ 69,680
International	26,024	16,508	9,320	18,897	26,024	16,508
Total	\$ 129,060	\$ 86,188	\$ 109,992	\$ 136,733	\$ 129,060	\$ 86,188

The Company's sales in the United States represent approximately 79%, 77%, and 80%, and 82% of total sales for the years ended December 31, 2023, 2024, 2022, 2023 and 2021, 2022, respectively. Approximately 74%, 76% and 77%, 74% of the Company's identifiable long-lived assets are located in the United States as of December 31, 2023, 2024 and 2022, 2023, respectively.

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8. Balance Sheet Details

Inventories consist of the following:

	December 31,	
	2023	2022
Raw material	\$ 677,428	\$ 798,340
Work-in-process	10,877	14,899
Finished goods	479,179	592,145
Total	\$ 1,167,484	\$ 1,405,384

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December 31,

	2024	2023
Raw material	\$ 611,735	\$ 677,428
Work-in-process	6,814	10,877
Finished goods	413,098	479,179
Total	<u>\$ 1,031,647</u>	<u>\$ 1,167,484</u>

Property and equipment consists of the following:

	December 31,		December 31,	
	2023	2022	2024	2023
Land and improvements	\$ 22,556	\$ 22,589	\$ 30,220	\$ 22,556
Buildings and improvements	298,483	243,553	358,055	298,483
Machinery and equipment	271,879	229,593	296,409	271,879
Dies and tools	45,998	37,343	48,681	45,998
Vehicles	11,411	9,807	13,887	11,411
Office & information technology equipment and internal use software	185,601	148,166	213,003	185,601
Leasehold improvements	8,772	6,849	9,776	8,772
Construction in progress	98,083	52,522	110,651	98,083
Gross property and equipment	942,783	750,422	1,080,682	942,783
Accumulated depreciation	(344,206)	(282,818)	(390,659)	(344,206)
Total	<u>\$ 598,577</u>	<u>\$ 467,604</u>	<u>\$ 690,023</u>	<u>\$ 598,577</u>

Total property and equipment included finance leases of \$61,214 and \$68,079 and \$24,719 at as of December 31, 2023 2024 and 2022 2023, respectively, primarily comprised of buildings and improvements. Amortization of finance lease right of use assets is recorded within depreciation expense in the consolidated statements of comprehensive income. The initial measurement of new finance lease right of use assets is accounted for as a non-cash item in the consolidated statement statements of cash flows. Similarly, the buyout of finance lease obligations is accounted for as a non-cash exchange of the ROU asset for the underlying leased asset. In 2024, the Company purchased the property under lease from a related party previously determined to be an arm's length transaction. Refer to Note 10, "Leases," to the consolidated financial statements of this Annual Report on Form 10-K for further information regarding the Company's accounting for leases under ASC 842, Leases.

9. Goodwill and Intangible Assets

The changes in the carrying amount of goodwill by reportable segment for the years ended December 31, 2023 2024 and 2022 2023 are as follows:

	Domestic	International	Total
Balance at December 31, 2021	\$ 995,444	\$ 414,230	\$ 1,409,674
Acquisitions of businesses, net	22,128	437	22,565
Foreign currency translation	(915)	(30,444)	(31,359)
Balance at December 31, 2022	1,016,657	384,223	1,400,880
Acquisitions of businesses, net	1,376	5,363	6,739
Foreign currency translation	495	24,270	24,765
Balance at December 31, 2023	<u>\$ 1,018,528</u>	<u>\$ 413,856</u>	<u>\$ 1,432,384</u>

	Domestic	International	Total
Balance as of December 31, 2022	\$ 1,016,657	\$ 384,223	\$ 1,400,880
Acquisitions of businesses, net	1,376	5,363	6,739
Foreign currency translation rate changes	495	24,270	24,765
Balance as of December 31, 2023	1,018,528	413,856	1,432,384
Acquisitions of businesses, net	22,641	-	22,641
Foreign currency translation rate changes	(22)	(18,742)	(18,764)
Balance as of December 31, 2024	<u>\$ 1,041,147</u>	<u>\$ 395,114</u>	<u>\$ 1,436,261</u>

Refer to Note 3, "Acquisitions," to the consolidated financial statements [of this Annual Report on Form 10-K](#) for further information regarding the Company's acquisitions.

Goodwill applicable to each reportable segment [as of December 31, 2023](#) [2024](#) and [2022](#) [2023](#) is as follows:

	Year Ended December 31, 2023			Year Ended December 31, 2022			Year Ended December 31, 2024			Year Ended December 31, 2023		
	Gross	Accumulated Impairment	Net	Gross	Accumulated Impairment	Net	Gross	Accumulated Impairment	Net	Gross	Accumulated Impairment	Net
Domestic	\$ 1,521,721	\$ (503,193)	\$ 1,018,528	\$ 1,519,850	\$ (503,193)	\$ 1,016,657	\$ 1,544,340	\$ (503,193)	\$ 1,041,147	\$ 1,521,721	\$ (503,193)	\$ 1,018,528
International	418,467	(4,611)	413,856	388,834	(4,611)	384,223	399,725	(4,611)	395,114	418,467	(4,611)	413,856
Total	<u>\$ 1,940,188</u>	<u>\$ (507,804)</u>	<u>\$ 1,432,384</u>	<u>\$ 1,908,684</u>	<u>\$ (507,804)</u>	<u>\$ 1,400,880</u>	<u>\$ 1,944,065</u>	<u>\$ (507,804)</u>	<u>\$ 1,436,261</u>	<u>\$ 1,940,188</u>	<u>\$ (507,804)</u>	<u>\$ 1,432,384</u>

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The following table summarizes intangible assets by major category as of December 31, [2023](#) [2024](#) and [2022](#) [2023](#):

	Weighted Average Amortization Years	December 31, 2023			December 31, 2022			Weighted Average Amortization Years	December 31, 2024			
		Gross	Accumulated Amortization	Net Book Value	Gross	Accumulated Amortization	Net Book Value		Gross	Accumulated Amortization	Net Book Value	Gross
Finite-lived intangible assets:												
Tradenames	15	\$ 159,671	\$ (70,997)	\$ 88,674	\$ 157,751	\$ (58,821)	\$ 98,930	15	\$ 160,473	\$ (81,083)	\$ 79,390	\$ 159,671
Customer lists	11	589,318	(404,805)	184,513	577,203	(370,216)	206,987	12	591,745	(439,008)	152,737	589,318
Patents and technology	14	670,099	(252,658)	417,441	665,563	(210,806)	454,757	14	673,425	(294,330)	379,095	670,099
Software	-	1,046	(1,046)	-	1,046	(1,046)	-	-	1,046	(1,046)	-	1,046
Non-compete/other	5	71,570	(44,443)	27,127	70,585	(28,866)	41,719	5	76,251	(56,225)	20,026	71,570
Total finite-lived intangible assets		<u>\$ 1,491,704</u>	<u>\$ (773,949)</u>	<u>\$ 717,755</u>	<u>\$ 1,472,148</u>	<u>\$ (669,755)</u>	<u>\$ 802,393</u>		<u>\$ 1,502,940</u>	<u>\$ (871,692)</u>	<u>\$ 631,248</u>	<u>\$ 1,491,704</u>
Indefinite-lived tradenames		128,321	-	128,321	128,321	-	128,321		127,274	-	127,274	128,321
Total intangible assets		<u>\$ 1,620,025</u>	<u>\$ (773,949)</u>	<u>\$ 846,076</u>	<u>\$ 1,600,469</u>	<u>\$ (669,755)</u>	<u>\$ 930,714</u>		<u>\$ 1,630,214</u>	<u>\$ (871,692)</u>	<u>\$ 758,522</u>	<u>\$ 1,620,025</u>

Amortization expense of intangible assets [was](#) [\\$97,743](#), [\\$104,194](#), [\\$103,320](#), and [\\$49,886](#) [\\$103,320](#) in [2023](#) [2024](#), [2022](#) [2023](#) and [2021](#) [2022](#), respectively. Excluding the impact of future acquisitions [or divestitures](#), the Company estimates amortization expense for the next five years to be as follows: [2024 - \\$96,595](#); [2025 - \\$91,694](#); [2026 - \\$84,833](#); [2027 - \\$58,065](#); [2028 - \\$52,354](#). [\\$53,620](#); [2029 - \\$50,234](#).

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10. Leases

The Company leases certain manufacturing facilities, distribution centers, office space, warehouses, automobiles, machinery and computer equipment globally under both finance and operating leases. The Company's leases have remaining lease terms of up to [18](#) [approximately 16](#) years, of which certain leases, primarily within the buildings and improvements asset class, include options to extend for up to 10 additional years. [Further, the Company leases certain buildings from a related party, which the Company has determined to be arm's length transactions.](#)

The Company determines if an arrangement is or contains a lease at contract inception. The Company recognizes a right of use (ROU) asset and lease liability at the lease commencement date based on the present value of the lease payments over the lease term. As the Company's leases generally do not provide an implicit interest rate, the incremental borrowing rate is used to determine the present value of lease payments. The incremental borrowing rate is a collateralized rate determined based on the lease term, the Company's credit rating, and other market information available at the commencement date. The ROU asset also includes any lease payments made prior to the commencement date and is reduced by any lease incentives. The lease term may include options to extend or terminate the lease when it is reasonably certain that the Company will exercise that option. Lease expense for operating leases is recognized on a straight-line basis over the lease term, while lease expense for finance leases is recognized as depreciation and interest expense using the effective interest method. The Company's variable lease expense generally consists of property tax and insurance payments that are variable in nature, however, these amounts are immaterial to the consolidated financial statements and are therefore not separately reported.

The Company has lease agreements with both lease and non-lease components, which it elected to account for as a single lease component. However, the Company did not elect to apply the recognition exception for short-term leases. The Company is applying these elections to all asset classes.

The Company is a lessor of certain of its C&I mobile products as part of a rental fleet, as well as **two** **three** of its buildings that it leases to third parties. The lease income related to these arrangements is not material to the consolidated financial statements.

The Company records its operating lease cost and amortization of finance lease ROU assets within cost of goods sold or operating expenses in the consolidated statements of comprehensive income depending on the cost center of the underlying asset. The Company records its finance lease interest cost within interest expense in the consolidated statements of comprehensive income.

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The components of total lease cost consist of the following:

	Year Ended December 31,			Year Ended December 31,		
	2023	2022	2021	2024	2023	2022
Operating lease cost	\$ 38,980	\$ 36,292	\$ 22,432	\$ 46,887	\$ 38,980	\$ 36,292
Finance lease cost:						
Amortization of ROU assets	4,142	3,298	3,187	7,639	4,142	3,298
Interest on lease liabilities	2,540	1,945	2,021	5,323	2,540	1,945
Total lease cost	\$ 45,662	\$ 41,535	\$ 27,640	\$ 59,849	\$ 45,662	\$ 41,535

Supplemental balance sheet information related to the Company's leases is as follows:

	December 31,		December 31,	
	2023	2022	2024	2023
Operating Leases				
Operating leases:				
Operating lease ROU assets (1)	\$ 70,937	\$ 100,083	\$ 57,999	\$ 70,937
Operating lease liabilities - current (2)	\$ 29,388	\$ 30,330	29,316	29,388
Operating lease liabilities - noncurrent (3)	44,760	73,547	29,173	44,760
Total operating lease liabilities	\$ 74,148	\$ 103,877	58,489	74,148
Finance Leases				
Finance leases:				
Finance lease ROU assets, gross	\$ 82,744	\$ 35,470	78,801	82,744
Accumulated depreciation - finance lease ROU assets	(14,665)	(10,751)	(17,587)	(14,665)
Finance lease ROU assets, net (4)	\$ 68,079	\$ 24,719	61,214	68,079
Finance lease liabilities - current (5)	\$ 3,785	\$ 2,650	6,845	3,785
Finance lease liabilities - noncurrent (6)	67,523	24,770	59,510	67,523

Total finance lease liabilities	\$ 71,308	\$ 27,420	\$ 66,355	\$ 71,308
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- (1) Recorded in the operating lease and other assets line within the consolidated balance sheets

(2) Recorded in the other accrued liabilities line within the consolidated balance sheets

(3) Recorded in the operating lease and other long-term liabilities line within the consolidated balance sheets

(4) Recorded in the property and equipment, net line within the consolidated balance sheets

(5) Recorded in the current portion of long-term borrowings and finance lease obligations line within the consolidated balance sheets

(6) Recorded in the long-term borrowings and finance lease obligations line within the consolidated balance sheets

Supplemental cash flow information related to the Company's leases is as follows:

	Year Ended December 31,		
	2023	2022	2021
Cash paid for amounts included in the measurement of lease liabilities			
Operating cash flows - operating leases	\$ 39,073	\$ 36,020	\$ 21,250
Operating cash flows - finance leases	2,409	1,919	1,972
Financing cash flows - finance leases	3,618	4,931	4,679
ROU assets obtained in exchange for lease liabilities			
Operating leases	17,830	28,766	55,057
Finance leases	47,715	2,874	4,026
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	Year Ended December 31,		
	2024	2023	2022
Cash paid for amounts included in the measurement of lease liabilities			
Operating cash flows - operating leases	\$ 48,089	\$ 39,073	\$ 36,020
Operating cash flows - finance leases	4,924	2,409	1,919
Financing cash flows - finance leases	45,906	3,618	4,931
ROU assets obtained in exchange for lease liabilities			
Operating leases	\$ 41,389	\$ 17,830	\$ 28,766
Finance leases	43,799	47,715	2,874

Weighted average remaining lease term and discount rate information related to the Company's leases as of December 31, 2023 2024 and 2022 2023 is as follows:

	December 31,		December 31,	
	2023	2022	2024	2023
Weighted average remaining lease term (in years)				
Operating Leases	4.55	4.65	4.27	4.55
Finance Leases	5.34	11.26	8.92	5.34
Weighted average discount rate				
Operating Leases	4.63 %	4.82 %	6.03 %	4.63 %
Finance Leases	6.64 %	7.58 %	7.03 %	6.64 %

The maturities of the Company's lease liabilities as of December 31, 2023 2024, are as follows:

	Finance Leases		Operating Leases		Finance Leases		Operating Leases	
2024	\$	8,043	\$	32,145				
2025 (1)		48,297		18,887				
2025					\$	11,118	\$	31,427
2026		4,243		8,278		10,395		7,963
2027		3,896		7,667		10,156		7,205
2028		3,472		6,157		9,593		5,712
After 2028		22,616		12,014				
2029						8,327		4,035
After 2029						41,520		11,211
Total minimum lease payments		90,567		85,148		91,109		67,553
Interest component		(19,259)		(11,000)		(24,754)		(9,064)
Present value of minimum lease payments	\$	71,308	\$	74,148	\$	66,355	\$	58,489

(1) Includes a payment for a purchase option reasonably certain to be exercised in 2025.

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11. Product Warranty Obligations

The Company records a liability for standard product warranty obligations accounted for as assurance warranties at the time of sale of the related product to a customer based on historical warranty experience. The Company also records a liability for specific warranty matters when they become known and are reasonably estimable. The following is a tabular reconciliation of the Company's standard product warranty liability accounted for as an assurance warranty:

	Year Ended December 31,			Year Ended December 31,		
	2023	2022	2021	2024	2023	2022
Balance at beginning of period	\$ 138,011	\$ 94,213	\$ 59,218	\$ 116,408	\$ 138,011	\$ 94,213
Product warranty reserve assumed in acquisition	-	-	3,932			
Payments	(92,200)	(77,476)	(42,682)	(88,990)	(92,200)	(77,476)
Provision for warranty issued	67,104	80,340	69,280	77,802	67,104	80,340
Changes in estimates for pre-existing warranties (1)	3,493	40,934	4,465	5,767	3,493	40,934
Balance at end of period	\$ 116,408	\$ 138,011	\$ 94,213	\$ 110,987	\$ 116,408	\$ 138,011

(1) Includes a specific warranty provision of \$37,338 recorded during the third quarter of 2022 in the amount of \$37,338 to address certain clean energy product warranty related matters.

The Company also sells extended warranty coverage for certain products, which it accounts for as a service warranty. The sales of extended warranties are recorded as deferred revenue, and typically have a duration of five to ten years. The deferred revenue related to extended warranty coverage is amortized over the duration of the extended warranty contract period, following the standard warranty period, using the straight-line method. The Company believes the straight-line method is appropriate because the performance obligation is satisfied based on the passage of time. The amortization of deferred revenue is recorded to net sales in the consolidated statements of comprehensive income. The following is a tabular reconciliation of the deferred revenue related to extended warranty coverage:

	Year Ended December 31,			Year Ended December 31,		
	2023	2022	2021	2024	2023	2022
Balance at beginning of period	\$ 132,813	\$ 111,647	\$ 89,788	\$ 155,870	\$ 132,813	\$ 111,647
Deferred revenue contracts issued	48,107	42,869	41,560	60,651	48,107	42,869
Amortization of deferred revenue contracts	(25,050)	(21,703)	(19,701)	(29,599)	(25,050)	(21,703)
Balance at end of period	\$ 155,870	\$ 132,813	\$ 111,647	\$ 186,922	\$ 155,870	\$ 132,813

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The timing of recognition of the Company's deferred revenue balance related to extended warranties at as of December 31, 2023 2024 is as follows:

2024	\$	28,203	
2025		30,088	\$ 34,069
2026		27,407	35,267
2027		22,069	32,315
After 2027		48,103	
2028			25,822
2029			19,897
After 2029			39,552
Total	\$	155,870	\$ 186,922

The Company has a post-sale extended warranty marketing agreement with a third party, pursuant to which the Company is required to pay fees to the third-party service provider based on the number of extended warranty contracts that they sell, the provider sells, which it classifies as costs to obtain a contract. These fees are deferred and recorded as other assets in the consolidated balance sheets, and are then amortized to net sales in the consolidated statements of comprehensive income over the same period that the underlying deferred revenue is recognized. Deferred contract costs as of December 31, 2023 2024 and 2022 2023 were \$10,153 an \$17,140 and \$10,153, red \$9,199, respectively. spectively. Amortization of deferred contract costs recorded during the years ended December 31, 2023, 2024, 2022 2023 and 2021 2022 was was \$2,958, \$2,306, \$1,932, and \$1,739, respectively. \$1,932, respectively.

Standard product warranty obligations and extended warranty related deferred revenues are included in the consolidated balance sheets as follows:

	December 31,		December 31,	
	2023	2022	2024	2023
Product warranty liability				
Product warranty liability:				
Current portion - Accrued product warranty	\$ 65,298	\$ 89,141	\$ 56,127	\$ 65,298
Long-term portion - other long-term liabilities	51,110	48,870	54,860	51,110
Total	\$ 116,408	\$ 138,011	\$ 110,987	\$ 116,408
Deferred revenue related to extended warranties				
Deferred revenue related to extended warranties:				
Current portion - other accrued liabilities	\$ 28,203	\$ 30,291	\$ 34,069	\$ 28,203
Long-term portion - Deferred revenue	127,667	102,522	152,853	127,667
Total	\$ 155,870	\$ 132,813	\$ 186,922	\$ 155,870

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12. Credit Agreements

Short-term borrowings included in the consolidated balance sheets as of December 31, 2023 2024, and 2022 December 31, 2023, consisted of borrowings by the Company's foreign subsidiaries on local lines of credit totaling \$81,769\$55,848 and \$48,990, \$81,769, respectively. As of December 31, 2024, and December 31, 2023, the weighted-average interest rates on the short-term borrowings were 5.44% and 6.54%, respectively.

Long-term borrowings are included in the consolidated balance sheets as follows:

	December 31,	
	2023	2022
Tranche A Term Loan	\$ 745,313	\$ 750,000
Tranche B Term Loan	530,000	530,000
Original issue discount and deferred financing costs	(12,685)	(16,568)
Revolver	150,000	90,000
Finance lease obligation	71,308	27,420
Other	9,512	966
Total	1,493,448	1,381,818
Less: current portion of debt	42,110	10,083

Less: current portion of finance lease obligation	3,785	2,650
Total long-term borrowings and finance lease obligations	<u>\$ 1,447,553</u>	<u>\$ 1,369,085</u>

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Maturities of long-term borrowings outstanding at December 31, 2023, excluding finance lease obligations (as their maturities are disclosed in Note 10, "Leases,") and before considering original issue discount and deferred financing costs, are as follows:

	Tranche A Term Loan	Tranche B Term Loan	Revolver	Other	Total
2024	\$ 32,813	\$ -	\$ -	\$ 9,349	\$ 42,162
2025	46,875	-	-	83	46,958
2026	65,625	530,000	-	26	595,651
2027	600,000	-	150,000	26	750,026
2028	-	-	-	28	28
Total	<u>\$ 745,313</u>	<u>\$ 530,000</u>	<u>\$ 150,000</u>	<u>\$ 9,512</u>	<u>\$ 1,434,825</u>

	December 31,	
	2024	2023
Tranche A Term Loan	\$ 712,500	\$ 745,313
Tranche B Term Loan	498,750	530,000
Original issue discount and deferred financing costs	(8,203)	(12,685)
Revolving Facility	-	150,000
Finance lease obligation	66,355	71,308
Other	8,972	9,512
Total	<u>1,278,374</u>	<u>1,493,448</u>
Less: current portion of debt	60,753	42,110
Less: current portion of finance lease obligation	6,845	3,785
Total long-term borrowings and finance lease obligations	<u>\$ 1,210,776</u>	<u>\$ 1,447,553</u>

The Tranche B Term Loan Facility matures on December 13, 2026, while Both the Tranche A Term Loan Facility and Revolving Facility mature on June 29, 2027. The Tranche A Term Loan Facility is repayable in quarterly installments due at the end of each quarter commencing September 2023, 2023, with a balloon payment due June 2027. The Tranche B Term Loan Facility matures on July 3, 2031, and is repayable in quarterly installments commencing September 2024, with a balloon payment due July 2031. Maturities of the Company's Tranche A Term Loan Facility, Tranche B Term Loan Facility, and Revolving Facility outstanding on December 31, 2024, before considering original issue discount and deferred financing costs, are as follows:

	Tranche A Term Loan Facility	Tranche B Term Loan Facility	Revolving Facility	Total
2025	\$ 46,875	\$ 5,000	\$ -	\$ 51,875
2026	65,625	5,000	-	70,625
2027	600,000	5,000	-	605,000
2028	-	5,000	-	5,000
2029	-	5,000	-	5,000
2030	-	5,000	-	5,000
2031	-	468,750	-	468,750
Total	<u>\$ 712,500</u>	<u>\$ 498,750</u>	<u>\$ -</u>	<u>\$ 1,211,250</u>

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Prior to June 2022, the Company's credit agreements originally provided for a \$1,200,000 Tranche B Term Loan Facility (Original Term Loan B Facility) and included a \$300,000 uncommitted incremental term loan on that facility. The Tranche B After several amendments, the Original Term Loan B Facility initially bore interest at rates based on either a base rate plus an applicable margin of 1.75% or adjusted LIBOR rate plus an applicable margin of 2.75%, subject to a LIBOR floor of 0.75%. After a number of amendments, the Tranche

B Term Loan Facility currently bears interest at rates based on either a base rate plus an applicable margin of 0.75% or adjusted SOFR rate plus an applicable margin of 1.75%, subject to a SOFR floor of 0.00%. The interest rate for the Tranche B Term Loan Facility as of 0.0%, and was scheduled to mature on December 13, 2026. 31,2023, was 7.19%.

The Tranche B Term Loan Facility does not require an Excess Cash Flow payment if the Company's net secured leverage ratio is maintained below 3.75 to 1.00. As of December 31,2023, the Company's net secured leverage ratio was 2.05 to 1.00, and the Company was in compliance with all covenants of the Tranche B Term Loan Facility. There are no financial maintenance covenants on the Tranche B Term Loan Facility.

The Company's credit agreements also originally provided for a senior secured ABL revolving credit facility (ABL Facility). ABL Facility borrowings initially bore interest at rates based on either a base rate plus an applicable margin of 1.00% or adjusted LIBOR rate plus an applicable margin of 2.00%, in each case, subject to adjustments based on average availability under the ABL Facility.

In May 2021, the Company amended the ABL Facility, increasing its borrowing limit from \$300,000 to \$500,000, raising its incremental capacity from \$100,000 to \$200,000, and extending the maturity date from June 12, 2023 to May 27, 2026 (Amended ABL Facility). In addition, the Amended ABL Facility modified the pricing by reducing certain applicable interest rates to either a base rate plus an applicable margin of 0.00% to 0.25% or adjusted LIBOR rate plus an applicable margin of 1.00% to 1.25%, in each case, based on average availability under the Amended ABL Facility. In connection with this amendment, the Company capitalized \$920 of new debt issuance costs as deferred financing costs on long-term borrowings in the second quarter of 2021. At the same time, the Company also amended its Tranche B Term Loan Facility agreement to reflect the same amendments made to the ABL Facility.

In May 2021, the Company borrowed \$50,000 under the Amended ABL Facility, the proceeds of which were used as a voluntary prepayment of the Tranche B Term Loan Facility. As a result of this prepayment of the Tranche B Term Loan Facility, the Company wrote off \$831 of original issue discount and capitalized debt issuance costs during the second quarter of 2021 as a loss on extinguishment of debt in the consolidated statements of comprehensive income.

In June 2022, the Company amended and restated its existing credit agreements (Amended Credit Agreement) that resulted in a new term loan facility in an aggregate principal amount of \$750,000 (Tranche A Term Loan Facility), established a new \$1,250,000 revolving facility (Revolving Facility), terminated the former asset-based lending facility (ABL Facility), ABL Facility, and replaced all LIBOR provisions with SOFR provisions. Proceeds received by the Company from the Tranche A Term Loan Facility were used to repay the total existing outstanding balance on retire the Company's former ABL Facility and to make a \$250,000 voluntary prepayment on the Tranche B original Term Loan B Facility, with the remaining funds used for future general corporate purposes. As a result of these prepayments, the Company wrote off \$3,546 of original issue discount and capitalized debt issuance deferred financing costs during the second quarter of 2022 as a loss on extinguishment of debt. Additionally, in accordance with ASC 470-50, the Company capitalized \$10,330 of fees paid to creditors as deferred financing costs on long-term borrowings and expensed \$800 of transaction fees. The Company evaluated on a lender-by-lender basis if the debt related to returning lenders on the Revolving Facility was significantly modified or not, resulting in the write-off of \$197 unamortized deferred financing costs related to the former ABL Facility as a loss on extinguishment of debt.

During 62 2022,

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The the Tranche A Term Loan Facility and the Revolving Facility initially bore interest at a rate based on adjusted SOFR plus an applicable margin of 1.5% through December 31, 2022, subject to a SOFR floor of 0.0%. Beginning on January 1, 2023, the Tranche A Term Loan Facility and the Revolving Facility bear interest at a rate based on adjusted SOFR plus an applicable margin between 1.25% and 1.75%, based on the Company's total leverage ratio and subject to a SOFR floor of 0.0%. As of December 31, 2023, 2024, the interest rates for the Tranche A Term Loan Facility and Revolving Facility are 6.15% and 6.19%, respectively.

In July 2024, the Company extinguished the \$530,000 balance then outstanding under the former Tranche B Term Loan Facility and replaced it with a new \$500,000 Tranche B Term Loan Facility maturing on July 3, 2031. The new Tranche B Term Loan Facility continues to include a \$300,000 uncommitted incremental term loan on that facility. In accordance with ASC 470-50, the Company capitalized \$2,991 of debt issuance costs. Additionally, the Company wrote-off \$4,236 of unamortized deferred financing costs related to the former Tranche B Term Loan Facility and expensed \$625 of fees paid to creditors as a loss on extinguishment of debt. The new Tranche B Term Loan Facility bears interest at the adjusted SOFR rate plus an applicable margin of 1.75%, subject to a SOFR floor of 0.0%. As of December 31, 2024, the interest rate for the Tranche A B Term Loan Facility is 6.99% and the interest rate for the Revolving Facility is 6.94% 6.34%.

The Tranche A Term Loan Facility and the Revolving Facility added contain certain financial covenants that require the Company to maintain a total leverage ratio below 3.75 to 1.00, as well as an interest coverage ratio above 3.00 to 1.00, 1.00, and may require an excess cash flow payment. As of December 31, 2023, 2024, the Company's total leverage ratio was 2.18 1.33 to 1.00, and the Company's interest coverage ratio was 6.44 10.03 to 1.00. The Company also was not required to make an excess cash flow payment as of December 31, 2024. The Company was also in compliance with all other covenants of the Amended Credit Agreement as of December 31, 2023, 2024.

The Tranche B Term Loan Facility, Tranche A Term Loan Facility and Revolving Facility are guaranteed by substantially all of the Company's wholly-owned domestic restricted subsidiaries and are secured by associated collateral agreements which pledge a first priority lien on virtually all of the Company's assets, including fixed assets and intangibles, cash, trade accounts receivable, inventory, and other current assets and proceeds thereof.

In connection with the June 2022 refinancing and in accordance with ASC 470-50, the Company capitalized \$10,330 of fees paid to creditors as deferred financing costs on long-term borrowings and expensed \$800 of transaction fees. The Company evaluated on a lender-by-lender basis if the debt related to returning lenders on the Revolving Facility was significantly modified or not, resulting in the write-off of \$197 in unamortized deferred financing costs related to the former ABL Facility as a loss on extinguishment of debt.

As of December 31, 2023, 2024, there was \$150,000 outstanding were no borrowings under the Revolving Facility, leaving \$1,099,203 of \$1,249,203 of unused capacity, net of outstanding letters of credit. Total availability on the Revolving Facility is reduced to \$992,833 under the Company's most restrictive debt covenants.

13. Stock Repurchase Programs

In September 2020, the Company's Board of Directors approved a \$250,000 stock repurchase program, which was exhausted in the third quarter of 2022. In July 2022, the Company's Board of Directors approved another a stock repurchase program, which commenced on August 5, 2022, and allowed for the repurchase of up to \$500,000 of the Company's common stock over a 24-month period. Additionally, on February 12, 2024, the Company's Board of Directors approved a new stock repurchase program that allows for the repurchase authorizes repurchases of up to \$500,000 of the Company's common stock over the next following twenty-four 24 months. The new program replaces replaced the prior share repurchase program, which had approximately \$26,297 remaining available for repurchase when the new program was approved. Pursuant to the approved program, the Company may repurchase its common stock from time to time, in amounts and at prices the Company deems appropriate, subject to market conditions and other considerations. The repurchases may be executed using a combination of Rule 10b5-1 trading plans, open market purchases, privately negotiated agreements, or other transactions. The actual timing, number and value of shares repurchased under the program will be determined by management at its discretion and in compliance with the terms of the Company's credit agreements. The repurchases may be funded with cash on hand, available borrowings, or proceeds from potential debt or other capital markets sources. The stock repurchase program may be suspended or discontinued at any time without prior notice. As of December 31, 2024, the remaining unused buyback authorization was \$347,257.

During the year ended December 31, 2024, the Company repurchased 1,046,351 shares of its common stock for \$152,743. During the year ended December 31, 2023, the Company repurchased 2,188,475 shares of its common stock for \$251,513. During the year ended December 31, 2022, the Company repurchased 2,722,007 shares of its common stock for \$345,840. During the year ended December 31, 2021, the Company repurchased 350,000 shares of its common stock for \$125,992. Since the inception of all stock repurchase programs (starting in August 2015), the Company has repurchased 13,937,188 shares of the Company's common stock for \$1,028,892 (at an average cost per share of \$73.82). We have periodically reissued shares out of Treasury stock, including for earnout acquisition contingent consideration payments.

14. Earnings Per Share

Basic earnings per share is calculated by dividing net income attributable to the common shareholders of the Company by the weighted average number of common shares outstanding during the period, exclusive of restricted shares. Except where the result would be anti-dilutive, diluted earnings per share is calculated by assuming the vesting of unvested restricted stock and the exercise of stock options, as well as the satisfaction of certain conditions related to acquisition contingent acquisition consideration conditions as of the end of the period. Refer to Note 4, "Redeemable Noncontrolling Interest," to the consolidated financial statements of this Annual Report on Form 10-K for further information regarding the accounting for redeemable noncontrolling interests within earnings per share.

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The following table reconciles the numerator and the denominator used to calculate basic and diluted earnings per share:

	Year Ended December 31,			Year Ended December 31,		
	2023	2022	2021	2024	2023	2022
Numerator						
Net income attributable to Generac Holdings Inc.	\$ 214,606	\$ 399,502	\$ 550,494	\$ 316,315	\$ 214,606	\$ 399,502
Redeemable noncontrolling interest redemption value adjustment	(11,517)	(49,235)	(17,102)			
Redemption value adjustment				8,941	(11,517)	(49,235)
Net income attributable to common shareholders	<u>\$ 203,089</u>	<u>\$ 350,267</u>	<u>\$ 533,392</u>	<u>\$ 325,256</u>	<u>\$ 203,089</u>	<u>\$ 350,267</u>
Denominator						
Weighted average shares, basic	61,265,060	63,117,007	62,686,001	59,559,797	61,265,060	63,117,007
Dilutive effect of stock compensation awards (1)	793,327	1,087,219	1,534,603	790,615	793,327	1,087,219
Dilutive effect of contingently issued shares	-	477,131	32,804	-	-	477,131
Diluted shares	<u>62,058,387</u>	<u>64,681,357</u>	<u>64,253,408</u>	<u>60,350,412</u>	<u>62,058,387</u>	<u>64,681,357</u>
Net income attributable to common shareholders per share						
Basic	\$ 3.31	\$ 5.55	\$ 8.51	\$ 5.46	\$ 3.31	\$ 5.55
Diluted	\$ 3.27	\$ 5.42	\$ 8.30	\$ 5.39	\$ 3.27	\$ 5.42

- (1) For the years ended December 31, 2024, December 31, 2023, and December 31, 2022, excludes approximately 428,000, 348,000 and 76,000 stock options and restricted stock awards, respectively, as the impact of such awards was anti-dilutive. There were no awards with an anti-dilutive impact for the year ended December 31, 2021.

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15. Income Taxes

The Company's provision for income taxes consists of the following:

	Year Ended December 31,			Year Ended December 31,		
	2023	2022	2021	2024	2023	2022
Current:						
Federal	\$ 71,741	\$ 118,320	\$ 105,236	\$ 117,749	\$ 71,741	\$ 118,320
State	13,802	25,743	21,295	20,970	13,802	25,743
Foreign	22,115	51,055	10,536	14,356	22,115	51,055
	107,658	195,118	137,067	153,075	107,658	195,118
Deferred:						
Federal	(26,504)	(43,475)	10,518	(46,526)	(26,504)	(43,475)
State	(5,254)	(10,966)	(3,728)	(8,613)	(5,254)	(10,966)
Foreign	(3,218)	(40,109)	(7,863)	(5,565)	(3,218)	(40,109)
	(34,976)	(94,550)	(1,073)	(60,704)	(34,976)	(94,550)
Change in valuation allowance	498	(972)	(1,037)	89	498	(972)
Provision for income taxes	\$ 73,180	\$ 99,596	\$ 134,957	\$ 92,460	\$ 73,180	\$ 99,596

The Company files U.S. federal, U.S. state and foreign jurisdiction tax returns which are subject to examination up to the expiration of the statute of limitations. The Company believes the tax positions taken on its returns would be sustained upon an exam, or where a position is uncertain, adequate reserves have been recorded. As of December 31, 2023 2024, the Company is no longer subject to income tax examinations for United States federal income taxes for tax years prior to 2020, 2021. Due to the carryforward of net operating losses and research & development credits, the Company's Wisconsin state income tax returns for tax years 2007 through 2022 2023 remain open, open for potential examination. In addition, the Company is subject to audit by various foreign taxing jurisdictions for tax years 2012 2013 through 2023.

The Company is regularly under tax return examination by tax authorities in the various jurisdictions in which we operate. The Company is actively managing the examinations and working to address any open matters. While the Company does not believe any material taxes or penalties are due, there is a possibility that the ultimate tax outcome of an examination may result in differences from what was recorded. Such differences may affect the provision for income taxes in the period in which the determination is made and could impact the Company's financial results.

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Significant components of deferred tax assets and liabilities are as follows:

	December 31,		December 31,	
	2023	2022	2024	2023
Deferred tax assets:				
Accrued expenses	\$ 48,758	\$ 46,994	\$ 52,351	\$ 48,758
Deferred revenue	36,927	34,914	43,261	36,927
Inventories	12,549	20,229	14,103	12,549
Stock-based compensation	14,143	11,750	16,959	14,143
Operating loss and credit carryforwards	54,753	56,279	50,327	54,753
Bad debt	1,380	1,415	1,803	1,380
Other	8,722	7,531	13,031	8,722
Capitalized R&D	65,523	33,738	98,323	65,523
Valuation allowance	(5,136)	(4,638)	(5,225)	(5,136)

Total deferred tax assets	237,619	208,212	284,933	237,619
Deferred tax liabilities:				
Goodwill and intangible assets	253,342	260,745	234,271	253,342
Depreciation	45,964	44,385	49,935	45,964
Debt refinancing costs	828	1,184	-	828
Interest swap and derivative	9,521	12,370		
Interest swap and derivative instruments			6,496	9,521
Prepaid expenses	2,444	2,473	3,284	2,444
Total deferred tax liabilities	312,099	321,157	293,986	312,099
Net deferred tax liabilities	\$ (74,480)	\$ (112,945)	\$ (9,053)	\$ (74,480)

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As of December 31, 2023 2024 and 2022 2023, deferred tax assets of \$15,532 \$24,132 and \$12,746, \$15,532, and deferred tax liabilities of \$90,012 \$33,185 and \$125,691, \$90,012, respectively, were reflected on in the consolidated balance sheets.

The Company maintains a \$5,225 valuation allowance against the deferred tax assets when it primarily related to certain tax loss carryforwards which may not be realized. Realization of the deferred income tax asset related to the tax loss carryforward is uncertain it will generate dependent upon generating sufficient taxable income in these jurisdictions prior to utilize the asset. their expiration. During 2023 2024,, the valuation allowance increased by \$498 primarily due to the establishment of valuation allowances in certain jurisdictions \$89 on our deferred tax assets where we believe the deferred tax assets asset may not be able to be fully utilized.

At December 31, 2023, 2024, the Company had tax loss carryforwards of approximately \$218,432, \$182,431, which have varying expiration periods ranging from 2024 2025 to indefinite. For carryforward amounts which the Company believes the losses will expire prior to use, a valuation allowance has been established. For all other carryforwards, the Company believes it will generate sufficient taxable income in these jurisdictions to utilize its loss carryforwards.

At December 31, 2023 2024, the Company had state manufacturing tax credit carryforwards of approximately \$29,196, \$27,510, which expire between 2028 and 2038. 2040. The Company believes it will generate sufficient taxable income in these jurisdictions to fully utilize the credits prior to their expiration.

Changes in the Company's gross liability for unrecognized tax benefits, excluding interest and penalties, were as follows:

	December 31,		December 31,	
	2023	2022	2024	2023
Unrecognized tax benefit, beginning of period	\$ 8,895	\$ 8,647	\$ 9,703	\$ 8,895
Increase in unrecognized tax benefit for positions taken in prior period	3,081	97	1,068	3,081
Increase in unrecognized tax benefit for positions taken in current period	1,122	975	943	1,122
Statute of limitation expirations	(3,395)	(824)	(536)	(3,395)
Settlements	-	-	-	-
Unrecognized tax benefit, end of period	\$ 9,703	\$ 8,895	\$ 11,178	\$ 9,703

The unrecognized tax benefit as of December 31, 2023 2024 and 2022 2023, if recognized, would favorably impact the effective tax rate.

As of December 31, 2023 2024 and 2022 2023, total accrued interest of approximately \$532 \$1,142 and \$161, \$532, respectively, and accrued penalties of approximately \$1,275 \$954 and \$422, \$1,275, respectively, associated with net unrecognized tax benefits are included in the consolidated balance sheets. Interest and penalties are recorded as a component of income tax expense expense.

The Company does not expect a significant change to the total amount of unrecognized tax benefits during the fiscal year ending December 31, 2024 2025.

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A reconciliation of the U.S. federal statutory tax rate to the effective tax rate for the years ended December 31, 2023, 2024, 2022 2023 and 2021 2022 is as follows:

	Year Ended December 31,			Year Ended December 31,		
	2023	2022	2021	2024	2023	2022
U.S. statutory rate	21.0%	21.0%	21.0%	21.0%	21.0%	21.0%
State taxes	4.0	4.0	4.3	3.8	4.0	4.0
State tax rate differential	0.0	(0.3)	0.0	(0.2)	0.0	(0.3)
Research and development credits	(2.4)	(1.1)	(1.0)	(1.2)	(2.4)	(1.1)
State credits	(0.9)	(1.5)	(1.1)	(0.5)	(0.9)	(1.5)
Share-based compensation	(0.4)	(2.7)	(3.8)			
Nondeductible U.S. compensation	1.0	1.6	1.5			
Share-based compensation benefit				(1.2)	(0.4)	(2.7)
Nondeductible U.S. compensation expense				1.2	1.0	1.6
Foreign tax deduction	0.0	(0.4)	(1.5)	0.0	0.0	(0.4)
Foreign deferred tax rate change	0.0	0.0	1.2			
Uncertain tax positions reserve	0.9	0.0	0.0	0.6	0.9	0.0
Global intangible low tax income	1.7	0.2	0.0	0.4	1.7	0.2
Other	0.3	(1.2)	(1.1)	(1.3)	0.3	(1.2)
Effective tax rate	25.2%	19.6%	19.5%	22.6%	25.2%	19.6%

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16. Benefit Plans

Medical and Dental Plans

The Company maintains medical and dental benefit plans covering its full-time domestic U.S. employees and their dependents. These plans are partially or fully self-funded under which participant claims are obligations of the plan. These plans are funded through employer and employee contributions at a level sufficient to pay for the benefits provided by the plan. The Company's contributions to the plans were \$26,090, \$32,964, \$31,180, 26,090, and \$24,189 \$31,180 for the years ended December 31, 2023, 2024, 2022, 2023 and 2021 2022, respectively.

Employees of the Company's foreign subsidiaries participate in government sponsored medical benefit plans and other local plans. In certain cases, the Company purchases supplemental medical coverage for certain employees at these foreign locations. The expenses related to these plans are not material to the Company's consolidated financial statements.

Savings Plan

The Company maintains a defined-contribution 401(k) savings plan for eligible domestic U.S. employees. Under the plan, employees may defer receipt of a portion of their eligible compensation. The Company may contribute a matching contribution of 50% of the first 6% 8% of eligible compensation of employees that is deferred. The Company may also contribute a non-elective contribution for eligible employees employed on December 31, 2008, that were impacted by the freezing of the Company's pension plans. The Company's matching contributions are subject to vesting. Forfeitures of unused company contributions may be applied against plan expenses and future Company contributions. The Company recognized \$3,735, 7,779, \$4,141, \$3,735, and \$6,725 \$4,141 of expense related to these plans for the years ended December 31, 2023, 2024, 2022, 2023 and 2021 2022, respectively.

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17. Share Plans

The Company adopted an equity incentive plan (the 2010 Plan) on February 10, 2010, in connection with its initial public offering. The 2010 Plan, as amended, allowed for granting the grant of up to 9.1 million share-based awards to executives, directors, and employees. Awards available for grant under the 2010 Plan included stock options, stock appreciation rights, restricted stock, other share-based awards and performance-based compensation awards. New grants under the 2010 Plan ceased in June 2019. Total share-

based compensation expense related to the 2010 Plan, net of estimated forfeitures, was \$309, \$2,379, \$0, \$309, and \$6,249 \$2,379 for the years ended December 31, 2023, 2024, 2022 2023 and 2021 2022, respectively, which is recorded in operating expenses in the consolidated statements of comprehensive income.

On June 13, 2019, the stockholders of Generac Holdings Inc. approved the Company's 2019 Equity Incentive Plan (the 2019 Plan). The 2019 Plan allows for granting the grant of up to 2.7 million share-based awards to executives, directors, and employees. Awards available for grant under the 2019 Plan include stock options, stock appreciation rights, restricted stock, other share-based awards and performance-based compensation awards. On June 13, 2024, the stockholders of Generac Holdings Inc. approved an amendment to the 2019 Plan to increase the number of shares available for issuance by 3.9 million. Total share-based compensation expense related to the 2019 Plan, net of estimated forfeitures, was \$35,183, \$27,102, \$49,248, \$35,183, and \$17,705 \$27,102 for the years ended December 31, 2023 2024, 2022 2023 and 2021 2022, respectively, which is recorded in operating expenses in the consolidated statements of comprehensive income.

Stock Options - Stock options granted in 2024 have an exercise price between \$112.45 and \$147.41 per share; stock options granted in 2023 have an exercise price between \$110.86 \$110.86 and \$119.57 per share share; and \$119.57 per share; stock options granted in 2022 have an exercise price between \$103.50 per share and \$315.88 per share; and stock options granted in 2021 have an exercise price between \$323.66 per share and \$438.83 per share. Stock options vest in equal installments over four years, subject to the grantee's continued employment or service and expire ten years after the date of grant.

Stock option exercises can be net-share settled such that the Company withholds shares with value equivalent to the exercise price of the stock option awards plus the employees' minimum statutory obligation for the applicable income and other employment taxes. Total shares withheld were were 9,701, 31,030, 17,376, and 8,608 17,376 for the years ended December 31, 2023 2024, 2022 2023 and 2021 2022, respectively, and were based on the value of the stock on the exercise dates. The net-share settlement has the effect of share repurchases by the Company as they reduce the number of shares that would have otherwise been issued.

Employees can also utilize a cashless for cash exercise of stock options, such that all exercised shares will be sold in the market immediately. Cash equivalent to the exercise price of the awards plus the employees' minimum statutory tax obligations is remitted to the Company, with the remaining cash being transferred to the employee. Total net proceeds to the Company from the cashless for cash exercise of stock options were \$27,558, \$7,815, \$13,786, and \$38,787 \$13,786 for the years ended December 31, 2023 2024, 2022 2023 and 2021 2022, respectively, and are reflected as a financing activity in the consolidated statements of cash flows.

Total payments made by the Company to the taxing authorities for the employees' tax obligations related to stock option exercises were were \$13,672, \$4,895, and \$14,089 and \$31,680 for the years ended December 31, 2023 2024, 2022 2023 and 2021 2022, respectively, and are reflected as a financing activity in the consolidated statements of cash flows.

The grant-date fair value of each option grant is estimated using the Black-Scholes-Merton option pricing model. The fair value is then amortized on a straight-line basis over the requisite service period of the awards, which is generally the vesting period. Use of a valuation model requires management to make certain assumptions with respect to selected model inputs. Expected volatility is calculated based on an analysis of historic volatility of the Company's stock price. The average expected life is based on the contractual term of the option using the simplified method. The risk-free interest rate is based on U.S. Treasury zero-coupon issues with a remaining term equal to the expected life assumed at the date of grant. The compensation expense recognized is net of estimated forfeitures. Forfeitures are estimated based on actual share option forfeiture history and are trued up upon vesting based on actual forfeiture activity.

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The weighted-average assumptions used in the Black-Scholes-Merton option pricing model for 2023 2024, 2022 2023 and 2021 2022 are as follows:

	Year Ended December 31,			Year Ended December 31,		
	2023	2022	2021	2024	2023	2022
Weighted average grant date fair value per share	\$ 57.73	\$ 129.38	\$ 129.47	\$ 59.30	\$ 57.73	\$ 129.38
Assumptions:						
Expected stock price volatility	45 %	38 %	37 %	49 %	45 %	38 %
Risk free interest rate	3.64 %	1.54 %	0.45 %	4.19 %	3.64 %	1.54 %
Expected annual dividend per share	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Expected life of options (years)	6.25	6.25	6.25	6.25	6.25	6.25

A summary of the Company's stock option activity and related information for the years ended December 31, 2023, 2024, 2022 2023 and 2021 2022 is as follows:

	Number of Options	Weighted- Average Exercise Price	Weighted- Average Remaining Contractual Term (in years)	Aggregate Intrinsic Value (\$ in thousands)	Number of Options	Weighted- Average Exercise Price	Weighted- Average Remaining Contractual Term (in years)	Aggregate Intrinsic Value (\$ in thousands)
Outstanding as of December 31, 2020	1,528,690	49.08	6.3	\$ 272,553				
Granted	70,392	335.70						
Exercised	(229,921)	45.95						
Forfeited	(27,030)	63.27						
Outstanding as of December 31, 2021	1,342,131	64.29	5.5	\$ 386,069	1,342,131	64.29	5.5	\$ 386,069
Granted	109,266	282.20			109,266	282.20		
Exercised	(137,305)	36.91			(137,305)	36.91		
Forfeited	(45,688)	194.05			(45,688)	194.05		
Outstanding as of December 31, 2022	1,268,404	81.35	4.9	\$ 47,764	1,268,404	81.35	4.9	\$ 47,764
Granted	208,392	119.31			208,392	119.31		
Exercised	(159,316)	42.46			(159,316)	42.46		
Forfeited	(33,144)	185.81			(33,144)	185.81		
Outstanding as of December 31, 2023	1,284,336	89.64	5.0	\$ 75,587	1,284,336	89.64	5.0	\$ 75,587
Exercisable as of December 31, 2023	961,340	63.08	3.8	\$ 72,609				
Granted					118,681	112.66		
Exercised					(310,201)	57.20		
Forfeited					(63,265)	152.06		
Outstanding as of December 31, 2024					1,029,551	96.10	4.9	\$ 78,310
Exercisable as of December 31, 2024					753,487	77.67	3.6	\$ 69,273

As of December 31, 2023 2024, there was \$18,109 \$13,405 of total unrecognized compensation cost, net of expected forfeitures, related to unvested options. The cost is expected to be recognized over the remaining service period, having a weighted-average period of 2.6 years. 2.3 years. Total share-based compensation cost related to stock options for the years ended December 31, 2023 2024, 2022 2023 and 2021 2022 was \$8,229, \$6,911, \$8,122, \$8,229, and \$6,462, \$6,911, respectively, which is recorded in operating expenses in the consolidated statements of comprehensive income.

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Restricted Stock – Restricted stock awards vest in equal installments over three years, subject to the grantee's continued employment or service. Certain restricted stock awards also include performance shares, whereby the number of performance shares that can be earned are contingent upon Company performance measures over a three-year period. Performance measures are based on a weighting of a number of financial metrics, from which grantees may earn from 0% to 200% of their target performance share award. The performance period for the 2021 awards covers the years 2021 through 2023. The performance period for the 2022 awards covers the years 2022 through 2024. The performance period for the 2023 awards covers the years 2023 through 2025. The performance period for the 2024 awards covers the years 2024 through 2026. The Company estimates the number of performance shares that will vest based on projected financial performance. The fair value of restricted awards is determined based on the market value of the Company's stock on the grant date. The fair market value of the restricted awards at the time of the grant is amortized to expense over the period of vesting. The compensation expense recognized for restricted share awards is net of estimated forfeitures and is trued up upon vesting based on actual forfeiture activity.

Restricted All restricted stock vesting is net-share settled such that, upon vesting, the Company withholds shares with value equivalent to the employees' minimum statutory tax obligation, and then pays the cash to the taxing authorities on behalf of the employees. In effect, the Company repurchases these shares and classifies them as treasury stock. Total shares withheld were were 78,465, 50,577, 92,008, and 80,583 92,008 for the years ended December 31, 2024, 2023, and 2022 and 2021, respectively, and were based on the value of the stock on the vesting dates. Total payments made by the Company to the taxing authorities for the employees' tax obligations related to restricted stock vesting were \$11,097, \$6,002, \$26,834, and \$27,223 \$26,834 for the years ended December 31, 2023 2024, 2022 2023 and 2021 2022, respectively, and are reflected as a financing activity within the consolidated statements of cash flows.

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A summary of the Company's restricted stock activity for the years ended December 31, 2023, 2024, 2022 2023 and 2021 2022 is as follows:

	Shares	Weighted-Average Grant-Date Fair Value	Shares	Weighted- Average Grant-Date Fair Value
Non-vested as of December 31, 2020	456,194	\$ 68.42		
Granted	126,339	223.09		
Vested	(202,327)	58.99		
Forfeited	(14,241)	138.64		
Non-vested as of December 31, 2021	365,965	124.25	365,965	\$ 124.25
Granted	287,821	\$ 214.58	287,821	214.58
Vested	(234,284)	83.52	(234,284)	83.52
Forfeited	(41,204)	263.47	(41,204)	263.47
Non-vested as of December 31, 2022	378,298	203.04	378,298	203.04
Granted	425,099	\$ 117.62	425,099	\$ 117.62
Vested	(133,222)	175.94	(133,222)	175.94
Forfeited	(44,789)	213.80	(44,789)	213.80
Non-vested as of December 31, 2023	625,386	153.01	625,386	153.01
Granted			503,937	\$ 120.77
Vested			(206,435)	177.28
Forfeited			(115,135)	130.89
Non-vested as of December 31, 2024			807,753	127.07

As of December 31, 2023 2024, there was \$53,392 \$59,177 of unrecognized compensation cost, net of expected forfeitures, related to non-vested restricted stock awards. That cost is expected to be recognized over the remaining service period, having a weighted-average period of 2.0 1.9 years. Total share-based compensation cost related to the restricted stock for the years ended December 31, 2024, 2023, and 2022 and 2021, inclusive of performance shares, was \$41,126, \$27,263, \$22,570, and \$17,492, \$22,570, respectively, which is recorded in operating expenses in the consolidated statements of comprehensive income.

During 2023 2024, 2022 2023 and 2021 2022, 14,814, 16,174, 8,572, and 4,677 8,572 shares of stock, respectively, were granted to certain members of the Company's Board of Directors as a component of their compensation for their service on the Board, all of which were fully vested at time of grant. A non-employee director can elect to receive his or her director fees in the form of deferred stock units, which voluntarily defers the issuance of the related shares granted until the director separates from the Company, or a triggering event occurs. 8,484, 8,832, 5,008, and 3,160 5,008 of deferred stock units are included in the shares of stock granted to certain members of the Company's Board of Directors for the years 2024, 2023, 2022, and 2021 2022, respectively. Total share-based compensation cost for these share grants shares of stock granted to the Company's Board in 2024, 2023, 2022 and 2021 was \$1,846, \$1,886, and \$1,579, 2022 was \$1,992, \$1,846, and \$1,886, respectively, which is recorded in operating expenses in the consolidated statements of comprehensive income.

18. Commitments and Contingencies

The Company has an arrangement with a finance company to provide floor plan financing for certain dealers. The Company receives payment from the finance company after shipment of product to the dealer. The Company participates in the cost of dealer financing up to certain limits and has agreed to repurchase products repossessed by the finance company, but does not indemnify the finance company for any credit losses they incur. The amount financed by dealers which remained outstanding under this arrangement at as of December 31, 2023 2024 and 2022 2023 was approximately \$158.0 million \$165,432 and \$212.0 million \$158,028, respectively.

On August 1, 2022, Power Home Solar, LLC d/b/a Pink Energy (PHS) filed a lawsuit in the Western District of Virginia against Generac Power Systems, Inc., a wholly-owned subsidiary of the Company (Generac Power). The complaint alleges breaches of warranty, product liability, and other various causes of action against Generac Power relating to the sale and performance of certain clean energy equipment and seeks to recover damages, including consequential damages, that PHS allegedly incurred. The Company disputes the allegations in the complaint, including that PHS can seek consequential damages or amounts greater than the \$25.0 million \$25,000 liability cap set forth in the agreement between the parties. Generac Power moved to dismiss the complaint and compel arbitration consistent with the parties' agreement. PHS later filed a Chapter 7 bankruptcy petition in the Western District of North Carolina that identified Generac Power as one of its outstanding creditors. The parties agreed to toll PHS's deadline to respond to the motion to dismiss and

all other pretrial deadlines to allow the bankruptcy trustee to evaluate the complaint. The Trustee has not yet taken further action in this lawsuit. Generac Power intends to vigorously defend against the claims in the complaint, in whichever forum they may proceed.

On October 28, 2022, Daniel Haak filed a putative consumer class action lawsuit against Generac Power in the Middle District of Florida. The complaint alleges breaches of warranty, tort-based, and unjust enrichment claims against Generac Power relating to the sale and performance of certain clean energy products, and seeks to recover damages, including consequential damages, that the plaintiff and putative class allegedly incurred. Additional putative class actions were filed by consumers raising similar claims and allegations in other district court cases. These putative class actions have been consolidated into a Multidistrict Litigation, *In re: Generac Solar Power Systems Marketing, Sales Practices and Products Liability Litigation* currently pending in the Eastern District of Wisconsin, Case No.23-md-3078. Generac Power moved and the Company filed their answer to dismiss claims in the consolidated master complaint which is pending with after the court. court denied the motion to dismiss on May 24, 2024. Generac Power and the Company intend to vigorously defend against the consolidated master complaint.

On December 1, 2022, Oakland County Voluntary Employees' Beneficiary Association and Oakland County Employees' Retirement System filed a putative securities class action lawsuit against the Company and certain of its officers in the Eastern District of Wisconsin. The court subsequently consolidated a later filed action and appointed a lead plaintiff. The lead plaintiff filed a consolidated complaint alleging violation of federal securities law related to disclosures of quality issues in Generac Power's clean energy product, accounting for warranty reserves, reliance on channel partners, and demand for home standby generators certain matters (the "Oakland County Lawsuit" Lawsuit). The Company moved On February 7, 2025, the court granted the Company's motion to dismiss and found that plaintiffs failed to adequately plead a securities fraud claim. The court gave plaintiffs until March 10, 2025, to file an amended complaint if they want to continue the consolidated complaint on October 9, 2023. The Company disputes the allegations in the operative consolidated complaint and intends to vigorously defend against the claims in the consolidated class action. lawsuit.

On February 3, 2023, a purported Company shareholder filed a shareholder derivative action against certain of the Company's officers and directors in the United States District Court for the Eastern District of Wisconsin. The complaint seeks unspecified damages on behalf of the Company and certain other relief, such as certain reforms to corporate governance practices. The complaint (in which the Company is named as a nominal defendant) generally alleges, among other things, breaches of fiduciary duties in connection with the oversight of the Company's public statements and legal compliance, and that the Company was damaged as a result of the breaches of fiduciary duties, and the defendants were unjustly enriched. The complaint also alleges, among other things, violations of Sections 14(a), 10(b) and 20(a) of the Securities Exchange Act of 1934, abuse of control, gross mismanagement, and waste of corporate assets. The Company has received several additional derivative actions filed in both state and federal courts raising similar claims and allegations, including issues raised in the Oakland County Lawsuit. The Company disputes the allegations in the shareholder derivative actions and intends to vigorously defend against the claims in the complaints.

On October 28, 2022, Generac Power received a grand jury subpoena from the U.S. Attorney for the Eastern District of Michigan, as a result of which the Company became aware of an enforcement investigation by the U.S. DOJ. The subpoena requests similar documents and information provided by the Company to the U.S. EPA and the CARB in response to civil document requests related to the Company's compliance with emissions regulations for approximately 1.85 1,850 thousand (not in thousands) portable generators produced by the Company in 2019 and 2020 and sold in 2020. On October 2, 2024, the Company received additional information from the EPA that could increase the number of portable generators under review by the EPA by approximately 4,850 (not in thousands) if certain emissions certifications for 2020 are voided. The Company is cooperating with both the DOJ, and the EPA and CARB inquiries. regarding these topics and related requests.

On November 30, 2022, the CPSC notified the Company of its intention to recommend the imposition of a civil penalty for failing to timely submit a report to the CPSC in relation to certain portable generators that were subject to a voluntary recall previously announced on July 29, 2021. On May 3, 2023, the parties entered into a mutual settlement agreement. The agreement does not constitute an admission by Generac or a determination by the CPSC that Generac violated the CPSA. The terms of the settlement agreement require the Company to (i) abide by certain customary agency requirements regarding the ongoing commitment to the Company's internal CPSA compliance practices and program, and (ii) pay a civil fine of \$15.8 million. \$15,800. On July 21, 2023, Generac Power received a grand jury subpoena from the U.S. Attorney for the Eastern District of Wisconsin, as a result of which the Company became aware of a continuing inquiry by the DOJ related to its statutory obligations under the CPSA in connection with this matter. Additionally, on October 23, 2023, the CPSC notified the Company that it is further investigating whether the Company complied with the reporting requirements to the CPSC in relation to certain portable generators that were subject to a voluntary recall previously announced on September 14, 2023. The Company is cooperating fully with both the CPSC and DOJ investigations and, at this time, is unable to predict the eventual scope, duration or final outcome of such investigations.

In 2019, EcoFactor, Inc. started a litigation campaign against smart thermostat manufacturers, including ecobee, Inc., which was acquired by the Company in 2021. EcoFactor accused ecobee of infringing its patents in three lawsuits filed in the United States District Court for the Western District of Texas and one lawsuit in the United States District Court for the District of Delaware. On June 23, 2023, a jury issued a verdict in a consolidated action in the Western District of Texas (Case Nos. 21-cv-00428-ADA and 20-cv-00078-ADA) finding that ecobee infringed one of the two patents at issue and awarded a lump-sum payment of \$5.4 million \$5,400 for past and future damages. On December 27, 2023, the parties reached a global settlement at an incremental cost of \$4.6 million \$4,600 to resolve all remaining disputes between the parties, including the two remaining lawsuits. In 2023, the Company recorded a reserve of \$10,000 related to this matter.

On March 8, 2022, Ollnova Technologies Limited, a non-practicing entity, filed a patent infringement lawsuit against ecobee Technologies, ULC. (ecobee) in the United States District Court for the Eastern District of Texas (Case No. 22-cv-00072-JRG). Ollnova claimed that ecobee infringes on four of its patents. On Following an October 5, 2023, a jury issued a verdict finding one of Ollnova's patents invalid and that ecobee infringed at least one of the claims of the asserted patents, on March 1, 2024, the trial court entered judgment against ecobee for \$11,500, as well as an award of prejudgment and awarded post-judgment interest. In 2023, the Company recorded a lump-sum payment reserve of \$11.5

million. \$12,669 related to this matter. In the first quarter of 2024, the Company recorded an additional reserve of \$1,826 for estimated prejudgment and post-judgment interest. ecobee intends has appealed the trial court's judgment to file motions the Court of Appeals for judgment as a matter of law the Federal Circuit and an that appeal of any adverse judgment. is currently pending.

On June 9, 2023, Spartronics Vietnam, Inc., a contract manufacturer of Generac Power's clean energy products, filed multiple lawsuits against Generac Power and sub-suppliers accusing Generac Power of fraud, breaching its supply agreement with Spartronics, tortiously interfering with Spartronics' relationships with its sub-suppliers, and requesting a determination of rights under the parties' agreements in state and federal court. Spartronics subsequently filed additional third-party complaints against Generac Power raising similar claims and allegations. After a court granted Generac Power's motion to compel arbitration, Spartronics filed a demand for arbitration of its claims. Generac Power denies the allegations in the complaints, including that Generac Power is responsible for Spartronics Spartronics' purchasing practices, and moved for dismissal of the individual cases in favor of arbitration, and intends to pursue available claims is pursuing a counterclaim in connection with the arbitration.

On November 21, 2023, Christopher Walling filed a putative securities class action lawsuit against the Company and certain of its officers in the Western District of Wisconsin and was later appointed lead plaintiff. The complaint asserts claims for alleged violation of federal securities law related to statements concerning the Company's financial outlook and the impact of macroeconomic trends on the demand for its products. The plaintiff seeks to represent a class of individuals who purchased or otherwise acquired common stock between May 3, 2023, and August 3, 2023, and seeks unspecified compensatory damages and other relief on behalf of a purported class of purchasers of the Company's stock (the "Walling Lawsuit") Lawsuit). The lead plaintiff has not yet filed an Company moved to dismiss the amended complaint or designated an operative complaint. The Company disputes the allegations in the initially-filed complaint on June 21, 2024, and intends to vigorously defend itself vigorously against the claims in this action. the amended complaint.

On February 14, 2024, a purported Company shareholder filed a derivative action against certain of the Company's officers and directors in the United States District Court for the Eastern District of Wisconsin. The complaint (in which the Company is named as a nominal defendant) generally alleges, among other things, breaches of fiduciary duties in connection with the oversight of the Company's public statements and legal compliance, including as to the claims raised in the Walling Lawsuit. The complaint seeks unspecified damages on behalf of the Company and certain other relief, including certain corporate governance reforms. The Company disputes the allegations in the shareholder derivative action and intends to vigorously defend against the claims in the complaint.

In On October 9, 2024, Champion Power Equipment, Inc. (Champion) filed a patent infringement lawsuit against Generac Power in the opinion United States District Court for the Eastern District of management, it Wisconsin (Case No.24-cv-01281-LA). Champion claims that certain Generac and Powermate branded multi-fuel portable generators infringe on Champion's portfolio of dual and multi-fuel patents. Generac Power denies the allegations and intends to vigorously defend the matter.

On October 18, 2024, two individuals filed a putative consumer class action lawsuit against Generac Power and the Company in the Middle District of Florida (Case No.24-cv-02412). The Amended Complaint, which includes additional plaintiffs, alleges certain defects for home standby generators manufactured or sold to consumers from 2020-2024. Plaintiffs assert breaches of warranty, tort-based, and statutory claims relating to the sale and performance of home standby generators. The Company disputes the allegations and intends to vigorously defend against the claims in the complaint, including that the case should not proceed as a class action.

It is presently unlikely that any legal, regulatory or regulatory other proceedings pending against or involving the Company will have a material adverse effect on the Company's financial condition, results of operations or cash flows. However, in many of these matters, it is inherently difficult to determine whether a loss is probable or to estimate the size or range of the possible loss given the variety and potential outcomes of actual and potential claims, the uncertainty of future rulings, the behavior or incentives of adverse parties, and other factors outside the control of the Company. Accordingly, the Company's loss reserves may change from time to time, and actual losses could exceed the amounts reserved by an amount that could be material to the Company's consolidated financial position, results of operations or cash flows in any particular reporting period.

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19. Quarterly Financial Information (Unaudited)

	Quarters Ended 2023			
	Q1	Q2	Q3	Q4
Net sales	\$ 887,910	\$ 1,000,420	\$ 1,070,667	\$ 1,063,670
Gross profit	272,499	328,421	375,787	388,724
Operating income	44,483	85,972	104,776	150,968
Net income attributable to Generac Holdings Inc.	12,430	45,198	60,377	96,601
Net income attributable to common shareholders per common share - basic:	\$ 0.06	\$ 0.70	\$ 0.98	\$ 1.59
Net income attributable to common shareholders per common share - diluted:	\$ 0.05	\$ 0.70	\$ 0.97	\$ 1.57
	Quarters Ended 2022			
	Q1	Q2	Q3	Q4
Net sales	\$ 1,135,856	\$ 1,291,391	\$ 1,088,258	\$ 1,049,232
Gross profit	360,748	456,985	361,104	343,167

Operating income		154,735		216,844		87,523		107,228
Net income attributable to Generac Holdings Inc.		113,858		156,359		58,270		71,015
Net income attributable to common shareholders per common share - basic:	\$	1.61	\$	2.24	\$	0.84	\$	0.84
Net income attributable to common shareholders per common share - diluted:	\$	1.57	\$	2.21	\$	0.83	\$	0.83

20.19. Valuation and Qualifying Accounts

For the years ended December 31, 2023, 2024, 2022 2023 and 2021 2022:

						Balance at Beginning of Year	Additions Charged to Earnings	Charges to Reserve, Net (1)	Reserves Established for Acquisitions	Balance at End of Year
Year ended December 31, 2024										
Allowance for credit losses	\$	33,925	\$	4,524	\$	(3,509)	\$	525	\$	35,465
Reserves for inventory		39,027		10,738		(2,924)		1,332		48,173
Valuation of deferred tax assets		5,136		447		(358)		-		5,225
Year ended December 31, 2023										
Allowance for credit losses	\$	27,664	\$	7,443	\$	(1,206)	\$	24	\$	33,925
Reserves for inventory		39,714		4,621		(5,308)		-		39,027
Valuation of deferred tax assets		4,638		516		(18)		-		5,136
Year ended December 31, 2022										
Allowance for credit losses	\$	12,025	\$	17,966	\$	(2,825)	\$	498	\$	27,664
Reserves for inventory		33,537		9,656		(4,737)		1,258		39,714
Valuation of deferred tax assets		7,874		649		(1,501)		(2,384)		4,638
Year ended December 31, 2021										
Allowance for credit losses	\$	12,001	\$	206	\$	(1,640)	\$	1,458	\$	12,025
Reserves for inventory		27,817		17,698		(15,749)		3,771		33,537
Valuation of deferred tax assets		5,740		1,404		(2,441)		3,171		7,874

- (1) Deductions from the allowance for credit losses equal accounts receivable written off against the allowance, less recoveries, as well as foreign currency translation adjustments. Deductions from the reserves for inventory excess and obsolete items equal inventory written off against the reserve as items were disposed of, as well as foreign currency translation adjustments.

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

There were no changes in, or disagreements with, accountants reportable herein.

Item 9A. Controls and Procedures

Evaluation of Disclosure Controls and Procedures

Disclosure controls and procedures are controls and other procedures that are designed to ensure that information required to be disclosed by us in reports we file or submit under the Securities Exchange Act of 1934 (Exchange Act), is recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that such information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate, to allow for timely decisions regarding required disclosure.

Our management, with the participation of our Chief Executive Officer and our Chief Financial Officer, has conducted an evaluation of the design and operation of our disclosure controls and procedures as defined in Rule 13a-15(e) and 15d-15(e) under the Exchange Act as of the end of the period covered by this report on Form 10-K. Based on that evaluation, our Chief Executive Officer and Chief Financial Officer concluded that our disclosure controls and procedures were effective in providing reasonable assurance that the information required to be disclosed in this report on Form 10-K has been recorded, processed, summarized and reported as of the end of the period covered by this report on Form 10-K.

Management's Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as defined in Rule 13a-15(f) and 15d-15(f) under the Exchange Act. Our internal control over financial reporting is designed under the supervision of our Chief Executive Officer and Chief Financial Officer to provide reasonable assurance regarding the reliability of financial reporting and the preparation of the consolidated financial statements in accordance with U.S. GAAP.

Internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the Company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of the financial statements in accordance with U.S. GAAP, and that receipts and expenditures of the Company are being made only in accordance with authorizations of management and directors of the Company; and (iii) 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 Company's financial statements.

There are inherent limitations to the effectiveness of any internal control over financial reporting, including the possibility of human error or the circumvention or overriding of the controls. Accordingly, even an effective internal control over financial reporting can provide only reasonable assurance of achieving its objective. Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate, because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Under the supervision and with the participation of our Chief Executive Officer and Chief Financial Officer, our management conducted an assessment of the effectiveness of internal control over financial reporting as of **December 31, 2023** **December 31, 2024** based on the criteria established in the 2013 *Internal Control – Integrated Framework*, issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). Based on this assessment, our management has concluded that our internal control over financial reporting was effective as of **December 31, 2023** **December 31, 2024**.

Deloitte & Touche LLP (PCAOB ID No. 34), the Company's independent registered public accounting firm, issued an attestation report on the effectiveness of the Company's internal control over financial reporting as of **December 31, 2023** **December 31, 2024**, which is included herein.

Changes in Internal Control Over Financial Reporting

There have been no changes in our internal control over financial reporting that occurred during the three months ended **December 31, 2023** **December 31, 2024** that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

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Item 9B. Other Information

Adoption: On November **13, 2023**, **19, 2024**, Aaron Jagdfeld, Chief Executive Officer and director, adopted a Rule 10b5-1 trading arrangement that is intended to satisfy the affirmative defense of Rule 10b5-1(c) for (i) the sale of up to **60,000** **46,303** shares of the Company's common stock and (ii) the exercise of stock options to acquire **13,697** shares

and sale of the acquired shares until February 28, 2025, 27, 2026.

Item 9C. Disclosure Regarding Foreign Jurisdictions that Prevent Inspections

None

PART III

Item 10. Directors, Executive Officers and Corporate Governance

The information required by Item 10 not already provided herein under "Item 1 – Business – Information About Our Executive Officers", will be included in our 2024 2025 Proxy Statement and is incorporated herein by reference.

Item 11. Executive Compensation

The information required by this item will be included in our 2024 2025 Proxy Statement and is incorporated herein by reference.

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

The information required by this item, including under the heading "Securities Authorized for Issuance Under Equity Compensation Plans," will be included in our 2024 2025 Proxy Statement and is incorporated herein by reference.

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

The information required by this item will be included in our 2024 2025 Proxy Statement and is incorporated herein by reference.

Item 14. Principal Accountant Fees and Services

The information required by this item will be included in our 2024 2025 Proxy Statement and is incorporated herein by reference.

PART IV

Item 15. Exhibits and Financial Statement Schedules

(a)(1) Financial Statements

Included in Part II of this report:

	Page
Reports of Independent Registered Public Accounting Firm	36 34
Consolidated balance sheets as of December 31, 2023 December 31, 2024 and 2022 2023	39 37
Consolidated statements of comprehensive income for years ended December 31, 2023 December 31, 2024, 2022 2023 and 2021 2022	40 38
Consolidated statements of stockholders' equity for years ended December 31, 2023 December 31, 2024, 2022 2023 and 2021 2022	41 39
Consolidated statements of cash flows for the years ended December 31, 2023 December 31, 2024, 2022 2023 and 2021 2022	42 40
Notes to consolidated financial statements	43 41

(a)(2) Financial Statement Schedules

All financial statement schedules have been omitted, since the required information is not applicable or is not present in amounts sufficient to require submission of the schedule, or because the information required is included in the consolidated financial statements and notes thereto.

(a)(3) Exhibits

The below exhibits index is the list of the exhibits being filed or furnished with or incorporated by reference into this Annual Report on Form 10-K:

Exhibits Number	Description
2.1	<u>Arrangement Agreement dated as of November 1, 2021 by and among 13462234 Canada Inc., Generac Power Systems, Inc., ecobee Inc., and Shareholder Representative Services LLC (incorporated by reference to Exhibit 2.1 of the Company's Current Report on Form 8-K filed with the SEC on November 2, 2021).</u>
2.2	<u>Amendment No. 1, dated as of May 31, 2022, to Arrangement Agreement dated as of November 1, 2021, by and among 13462234 Canada Inc., Generac Power Systems, Inc., ecobee Inc., and Shareholder Representative Services LLC (incorporated by reference to Exhibit 10.2 of the Quarterly Report on Form 10-Q filed with the SEC on August 8, 2022).</u>
2.3	<u>Amendment, dated as of December 29, 2022, to Arrangement Agreement dated as of November 1, 2021 by and among 13462234 Canada Inc., Generac Power Systems, Inc., ecobee Inc., and Shareholder Representative Services LLC (incorporated by reference to Exhibit 2.3 of the Annual Report on Form 10-K filed with the SEC on February 22, 2023).</u>
3.1	<u>Third Amended and Restated Certificate of Incorporation of Generac Holdings Inc. (incorporated by reference to Exhibit 3.1 of the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2009).</u>
3.2	<u>Amended and Restated Bylaws of Generac Holdings Inc. (incorporated by reference to Exhibit 3.2 of the Company's Current Report on Form 8-K filed with the SEC on March 10, 2023).</u>
4.1	<u>Form of Common Stock Certificate (incorporated by reference to Exhibit 4.1 of the Registration Statement on Form S-1 filed with the SEC on January 25, 2010).</u>
4.2	<u>Description of Securities (incorporated by reference to Exhibit 4.2 of the Annual Report on Form 10-K filed with the SEC on February 25, 2020).</u>
10.1	<u>Credit Agreement, Dated as of February 9, 2012, As Amended and Restated as of May 30, 2012, As Further Amended and Restated as of May 31, 2013, among Generac Power Systems, Inc., Generac Acquisition Corp., the lenders party thereto, JPMorgan Chase Bank, N.A., as Administrative Agent and Bank of America, N.A. and Goldman Sachs Bank USA, as syndication agent (incorporated by reference to Exhibit 10.2 to the Company's Current Report on Form 8-K filed with the SEC on June 4, 2013).</u>
10.2	<u>First Amendment dated as of May 18, 2015, to Credit Agreement, dated as of February 9, 2012, as amended and restated as of May 30, 2012, as further amended and restated as of May 31, 2013, among Generac Power Systems, Inc., Generac Acquisition Corp., the lenders party thereto, JPMorgan Chase Bank, N.A. as administrative agent and Bank of America, N.A. and Goldman Sachs Bank USA, as syndication agents and Deutsche Bank Securities Inc., Morgan Stanley Senior Funding, Inc. and Wells Fargo Bank, N.A. as document agents (incorporated by reference to Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q filed with the SEC on August 7, 2015).</u>
10.3	<u>Replacement Term Loan Amendment dated as of November 2, 2016, among Generac Power Systems, Inc., Generac Acquisition Corp., the lenders party thereto, JPMorgan Chase Bank, N.A., as Administrative Agent, and the other agents named therein (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed with the SEC on November 3, 2016).</u>
10.4	<u>2017 Replacement Term Loan Amendment dated as of May 11, 2017, among Generac Power Systems, Inc., Generac Acquisition Corp., the lenders party thereto, JPMorgan Chase Bank, N.A., as Administrative Agent, and the other agents named therein (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed with the SEC on May 15, 2017).</u>
10.5	<u>2017-2 Replacement Term Loan Amendment dated as of December 8, 2017, among Generac Power Systems, Inc., Generac Acquisition Corp., the lenders party thereto, JPMorgan Chase Bank, N.A., as Administrative Agent, and the other agents named therein (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed with the SEC on December 11, 2017).</u>
10.6	<u>2018 Replacement Term Loan Amendment, dated as of June 8, 2018, among Generac Power Systems, Inc., Generac Acquisition Corp., the lenders party thereto, JPMorgan Chase Bank, N.A., as Administrative Agent, and the other agents named therein (incorporated by reference to Exhibit 10.1 of the Current Report on Form 8-K filed with the SEC on June 14, 2018).</u>

- 10.7 [2019 Replacement Term Loan Amendment, dated as of December 13, 2019, among Generac Power Systems, Inc., Generac Acquisition Corp., the lenders party thereto, JPMorgan Chase Bank, N.A., as Administrative Agent, and the other agents named therein \(incorporated by reference to Exhibit 10.1 of the Current Report on Form 8-K filed with the SEC on December 16, 2019\).](#)
- 10.8 [Second Amendment, dated as of May 27, 2021, amending that certain Credit Agreement, dated as of February 9, 2012, as amended and restated as of May 30, 2012, as further amended and restated as of May 31, 2013, as amended by the First Amendment, dated as of May 18, 2015, as further amended by the Replacement Term Loan Amendment, dated as of November 2, 2016, as further amended by the 2017 Replacement Term Loan Amendment, dated as of May 11, 2017, as further amended by the 2017-2 Replacement Term Loan Amendment, dated December 8, 2017, as further amended by the 2018 Replacement Term Loan Amendment, dated June 8, 2018, and as further amended by the 2019 Replacement Term Loan Amendment, dated December 13, 2019, among Generac Power Systems, Inc., Generac Acquisition Corp., the other Loan Parties \(as defined therein\) party thereto, the lenders party thereto, JPMorgan Chase Bank, N.A., as Administrative Agent and the other agents named therein \(incorporated by reference to Exhibit 10.2 of the Current Report on Form 8-K filed with the SEC on May 28, 2021\).](#)
- 10.9 [Third Amendment, dated as of June 29, 2022, amending and restating that certain Credit Agreement, dated as of February 9, 2012, as amended and restated as of May 30, 2012, as further amended and restated as of May 31, 2013, as amended by the First Amendment, dated as of May 18, 2015, as further amended by the Replacement Term Loan Amendment, dated as of November 2, 2016, as further amended by the 2017 Replacement Term Loan Amendment, dated as of May 11, 2017, as further amended by the 2017-2 Replacement Term Loan Amendment, dated December 8, 2017, as further amended by the 2018 Replacement Term Loan Amendment, dated June 8, 2018, as further amended by the 2019 Replacement Term Loan Amendment, dated December 13, 2019 and as further amended by the Second Amendment, dated May 27, 2021, among Generac Power Systems, Inc., Generac Acquisition Corp., the other Loan Parties \(as defined therein\) party thereto, the lenders party thereto, JPMorgan Chase Bank, N.A., as Administrative Agent and the other agents named therein \(incorporated by reference to Exhibit 10.1 of the Current Report on Form 8-K filed with the SEC on June 30, 2022\).](#)
- 10.10 [First Amendment, dated as of January 31, 2023, to that certain Credit Agreement, dated as of February 9, 2012, as amended and restated as of May 30, 2012, as further amended and restated as of May 31, 2013, as amended by the First Amendment, dated as of May 18, 2015, as further amended by the Replacement Term Loan Amendment, dated as of November 2, 2016, as further amended by the 2017 Replacement Term Loan Amendment, dated as of May 11, 2017, as further amended by the 2017-2 Replacement Term Loan Amendment, dated December 8, 2017, as further amended by the 2018 Replacement Term Loan Amendment, dated June 8, 2018, as further amended by the 2019 Replacement Term Loan Amendment, dated December 13, 2019, as further amended by the Second Amendment, dated May 27, 2021, and as further amended and restated by the Third Amendment, dated June 29, 2022, among Generac Power Systems, Inc., Generac Acquisition Corp., the other Loan Parties \(as defined therein\) party thereto, the lenders party thereto, JPMorgan Chase Bank, N.A., as Administrative Agent and the other agents named therein \(incorporated by reference to Exhibit 10.10 of the Annual Report on Form 10-K filed with the SEC on February 22, 2023\).](#)
- 10.11 [Restatement Agreement, dated as of May 31, 2013, to that certain Credit Agreement, dated as of February 9, 2012, as amended and restated as of May 30, 2012, among Generac Power Systems, Inc., Generac Acquisition Corp., the lenders party thereto, JPMorgan Chase Bank, N.A., as Administrative Agent, and Bank of America, N.A. and Goldman Sachs Bank USA, as syndication agents \(incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed with the SEC on June 4, 2013\).](#)
- 10.12 [2024 Replacement Term Loan Amendment, dated as of July 3, 2024, to that certain Credit Agreement, dated as of February 9, 2012, as amended and restated as of May 30, 2012, as further amended and restated as of May 31, 2013, as amended by the First Amendment dated as of May 18, 2015, as amended by the Replacement Term Loan Amendment dated as of November 2, 2016, as amended by the 2017 Replacement Term Loan Amendment dated as of May 11, 2017, as amended by the 2017-2 Replacement Term Loan Amendment dated as of December 8, 2017, as amended by the 2018 Replacement Term Loan Amendment dated as of June 8, 2018, as amended by the 2019 Replacement Term Loan Amendment dated as of December 13, 2019, as amended by the Second Amendment dated as of May 27, 2021, as amended and restated by the Third Amendment dated as of June 29, 2022 and as amended by the First Amendment dated as of January 31, 2023, among Generac Acquisition Corp., Generac Power Systems, Inc., several lenders, and JPMorgan Chase Bank, N.A., as administrative agent \(incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed with the SEC on July 5, 2024\).](#)
- 10.12 10.13 [Guarantee and Collateral Agreement, dated as of February 9, 2012, as amended and restated as of May 30, 2012, among Generac Holdings Inc., Generac Acquisition Corp., Generac Power Systems, Inc., certain subsidiaries of Generac Power Systems, Inc. and JPMorgan Chase Bank, N.A., as Administrative Agent \(incorporated by reference to Exhibit 10.2 of the Company's Current Report on Form 8-K filed with the SEC on May 31, 2012\).](#)
- 10.13 10.14 [First Amendment to Guarantee and Collateral Agreement dated as of May 31, 2013, among Generac Holdings Inc., Generac Acquisition Corp., Generac Power Systems, Inc., certain subsidiaries of Generac Power Systems, Inc. and JPMorgan Chase Bank, N.A., as Administrative Agent \(incorporated by reference to Exhibit 10.3 to the Company's Current Report on Form 8-K filed with the SEC on June 4, 2013\).](#)

Exhibits Number	Description
10.14 10.15	Credit Agreement, dated as of May 30, 2012, among Generac Power Systems, Inc., its Domestic Subsidiaries listed as Borrowers on the signature pages thereto, Generac Acquisition Corp., the lenders party thereto, Bank of America, N.A. as Administrative Agent, JPMorgan Chase Bank, N.A. and Goldman Sachs Bank USA, as syndication agents, and Wells Fargo Bank, National Association, as Documentation Agent (incorporated by reference to Exhibit 10.3 of the Company's Current Report on Form 8-K filed with the SEC on May 31, 2012).
10.15 10.16	Amendment No. 1 dated as of May 31, 2013, among Generac Power Systems, Inc., its Domestic Subsidiaries listed as Borrowers on the signature pages thereto, Generac Acquisition Corp., the lenders party thereto, Bank of America, N.A. as Administrative Agent, JPMorgan Chase Bank, N.A. and Goldman Sachs Bank USA, as syndication agents, and Wells Fargo Bank, National Association, as Documentation Agent (incorporated by reference to Exhibit 10.4 to the Company's Current Report on Form 8-K filed with the SEC on June 4, 2013).
10.16 10.17	Amendment No. 2 dated as of May 29, 2015, among Generac Power Systems, Inc., its Domestic Subsidiaries listed as Borrowers on the signature pages thereto, Generac Acquisition Corp., the lenders party thereto, Bank of America, N.A. as Administrative Agent, and the other agents named therein (incorporated by reference to Exhibit 10.1 of the Company's Current Report on Form 8-K filed with the SEC on June 1, 2015).
10.17 10.18	Second Amended and Restated Credit Agreement, dated as of June 12, 2018, among Generac Power Systems, Inc., its Subsidiaries listed as Borrowers on the signature pages thereto, Generac Acquisition Corp., the lenders party thereto, Bank of America, N.A. as Administrative Agent, JPMorgan Chase Bank, N.A., as Syndication Agent, and Wells Fargo Bank, National Association, as Documentation Agent (incorporated by reference to Exhibit 10.2 of the Current Report on Form 8-K filed with the SEC on June 14, 2018).
10.18 10.19	Third Amended and Restated Credit Agreement, dated as of May 27, 2021, among Generac Power Systems, Inc., its Subsidiaries listed as Borrowers on the signature pages thereto, Generac Acquisition Corp., the lenders party thereto, Bank of America, N.A. as Administrative Agent, JPMorgan Chase Bank, N.A. as Syndication Agent, and Wells Fargo Bank, National Association as Documentation Agent (incorporated by reference to Exhibit 10.1 of the Current Report on Form 8-K filed with the SEC on May 28, 2021).
10.19 10.20	Guarantee and Collateral Agreement, dated as of May 30, 2012, among Generac Holdings Inc., Generac Acquisition Corp., Generac Power Systems, Inc., certain subsidiaries of Generac Power Systems, Inc. and Bank of America, N.A., as Administrative Agent (incorporated by reference to Exhibit 10.4 of the Company's Current Report on Form 8-K filed with the SEC on May 31, 2012).
10.20 10.21	First Amendment to Guarantee and Collateral Agreement dated as of May 31, 2013, among Generac Holdings Inc., Generac Acquisition Corp., Generac Power Systems, Inc., certain subsidiaries of Generac Power Systems, Inc. and Bank of America, N.A., as Administrative Agent (incorporated by reference to Exhibit 10.5 to the Company's Current Report on Form 8-K filed with the SEC on June 4, 2013).
10.21+ 10.22+	Generac Holdings Inc. Amended and Restated 2010 Equity Incentive Plan (incorporated by reference to Appendix A to the Definitive Proxy Statement on Schedule 14A of the Company filed with the SEC on April 27, 2012).
10.22+ 10.23+	Generac Holdings Inc. Annual Performance Bonus Plan (incorporated by reference to Exhibit 10.63 of the Registration Statement on Form S-1 filed with the SEC on January 25, 2010).
10.23+ 10.24+	Amended and Restated Employment Agreement dated November 5, 2018, between Generac and Aaron Jagdfeld (incorporated by reference to Exhibit 10.1 of the Company's Quarterly Report on Form 10-Q filed with the SEC on November 6, 2018).
10.24 10.25	Form of Confidentiality, Non-Competition and Intellectual Property Agreement (incorporated by reference to Exhibit 10.40 of the Registration Statement on Form S-1 filed with the SEC on November 24, 2009).
10.25+ 10.26+	Form of Nonqualified Stock Option Award Agreement (incorporated by reference to Exhibit 10.45 of the Registration Statement on Form S-1 filed with the SEC on January 25, 2010).
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Exhibits Number	Description
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10.26+	10.27+	Amended Form of Restricted Stock Award Agreement pursuant to the 2010 Equity Incentive Plan (incorporated by reference to Exhibit 10.3 of the Quarterly Report on Form 10-Q filed with the SEC on May 8, 2012).
10.27+	10.28+	Amended Form of Nonqualified Stock Option Award Agreement pursuant to the 2010 Equity Incentive Plan (incorporated by reference to Exhibit 10.4 of the Quarterly Report on Form 10-Q filed with the SEC on May 8, 2012).
10.28+	10.29+	Amended Form of Nonqualified Stock Option Award Agreement pursuant to the 2010 Equity Incentive Plan (incorporated by reference to Exhibit 10.24 of the Annual Report on Form 10-K filed with the SEC on February 26, 2019).
10.29+	10.30+	Amended Form of Restricted Stock Award Agreement pursuant to the 2010 Equity Incentive Plan (incorporated by reference to Exhibit 10.25 of the Annual Report on Form 10-K filed with the SEC on February 26, 2019).
10.30	10.31	Form of Director Indemnification Agreement (incorporated by reference to Exhibit 10.51 of the Registration Statement on Form S-1 filed with the SEC on January 11, 2010).
10.31	10.32	Form of Officer Indemnification Agreement (incorporated by reference to Exhibit 10.52 of the Registration Statement on Form S-1 filed with the SEC on January 11, 2010).
10.32+	10.33+	Amended Form of Performance Share Award Agreement pursuant to the 2010 Equity Incentive Plan (incorporated by reference to Exhibit 10.29 of the Annual Report on Form 10-K filed with the SEC on February 26, 2019).
10.33+	10.34+	Generac Holdings Inc. Non-Employee Director Compensation Policy (incorporated by reference to Exhibit 10.31 of the Annual Report on Form 10-K filed with the SEC on February 22, 2022).
10.34+	10.35+	Generac Power Systems, Inc. Executive Change in Control Policy, effective November 5, 2018 (incorporated by reference to Exhibit 10.2 of the Quarterly Report on Form 10-Q filed with the SEC on November 6, 2018).
10.35+	10.36+	Generac Holdings Inc. 2019 Equity Incentive Plan (incorporated by reference to Appendix A to the Definitive Proxy Statement on Schedule 14A of the Company filed with the SEC on April 26, 2019).
10.36+	10.37+	Form of Restricted Stock Award Agreement pursuant to the Generac Holdings Inc. 2019 Equity Incentive Plan (incorporated by reference to Exhibit 10.1 of the Quarterly Report on Form 10-Q filed with the SEC on November 5, 2019).
10.37+	10.38+	Form of Nonqualified Stock Option Award Agreement pursuant to the Generac Holdings Inc. 2019 Equity Incentive Plan (incorporated by reference to Exhibit 10.2 of the Quarterly Report on Form 10-Q filed with the SEC on November 5, 2019).
10.38+	10.39+	Form of Performance Share Unit Award Agreement pursuant to the Generac Holdings Inc. 2019 Equity Incentive Plan (incorporated by reference to Exhibit 10.3 of the Quarterly Report on Form 10-Q filed with the SEC on November 5, 2019).
10.39+*	10.40+	Amended Form of Restricted Stock Award Agreement pursuant to the Generac Holdings Inc. 2019 Equity Incentive Plan (incorporated by reference to Exhibit 10.39 of the Annual report on Form 10-K filed with the SEC on February 21, 2024).
10.40+*	10.41+	Amended Form of Nonqualified Stock Option Award Agreement pursuant to the Generac Holdings Inc. 2019 Equity Incentive Plan (incorporated by reference to Exhibit 10.40 of the Annual Report on Form 10-K filed with the SEC on February 21, 2024).
10.41+*	10.42+	Amended Form of Performance Share Unit Award Agreement pursuant to the Generac Holdings Inc. 2019 Equity Incentive Plan (incorporated by reference to Exhibit 10.41 of the Annual Report on Form 10-K filed with the SEC on February 21, 2024).
10.43+		Amended and Restated 2019 Equity Incentive Plan (incorporated by reference to Appendix A to the Definitive Proxy Statement on Schedule 14A of the Company filed with the SEC on April 29, 2024).
10.44+*		Amended Form of Restricted Stock Award Agreement pursuant to the Generac Holdings Inc. 2019 Equity Incentive Plan
10.45+*		Amended Form of Nonqualified Stock Option Award Agreement pursuant to the Generac Holdings Inc. 2019 Equity Incentive Plan
10.46+*		Amended Form of Performance Share Unit Award Agreement pursuant to the Generac Holdings Inc. 2019 Equity Incentive Plan
19*		Generac Holdings, Inc. Insider Trading Policy

21.1*	List of Subsidiaries of Generac Holdings Inc.
23.1*	Consent of Deloitte & Touche LLP, Independent Registered Public Accounting Firm.
31.1*	Certification of Chief Executive Officer pursuant to Securities Exchange Act Rules 13a-14(a) and 15d-14(a), pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
31.2*	Certification of Chief Financial Officer pursuant to Securities Exchange Act Rules 13a-14(a) and 15d-14(a), pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.

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Exhibits Number	Description
32.1**	Certification of Chief Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted by Section 906 of the Sarbanes-Oxley Act of 2002.
32.2**	Certification of Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted by Section 906 of the Sarbanes-Oxley Act of 2002.
97*97	Generac Holdings, Inc. Mandatory Restatement Compensation Recovery Policy (dated December 1, 2023) (incorporated by reference to Exhibit 97 of the Annual Report on Form 10-K filed with the SEC on February 21, 2024).
101*	The following financial information from the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2023 December 31, 2024, filed with the SEC on February 21, 2024 February 19, 2025, formatted in Inline eXtensible Business Reporting Language (iXBRL): (i) Consolidated Balance Sheets at as of December 31, 2024 and December 31, 2023 and December 31, 2022; (ii) Consolidated Statements of Comprehensive Income for the Fiscal Years Ended December 31, 2023 December 31, 2024, December 31, 2022 December 31, 2023 and December 31, 2021 December 31, 2022; (iii) Consolidated Statements of Stockholders' Equity for the Fiscal Years Ended December 31, 2023 December 31, 2024, December 31, 2022 December 31, 2023 and December 31, 2021 December 31, 2022; (iv) Consolidated Statements of Cash Flows for the Fiscal Years Ended December 31, 2023 December 31, 2024, December 31, 2022 December 31, 2023 and December 31, 2021 December 31, 2022; (v) Notes to Consolidated Financial Statements.
104	Cover Page Interactive Data File (embedded within the Inline XBRL and contained in Exhibit 101)
	<div> <div>*</div> <div>Filed herewith.</div> </div> <div> <div>**</div> <div>Furnished herewith.</div> </div> <div> <div>+</div> <div>Indicates management contract or compensatory plan or arrangement.</div> </div>

Item 16. Form 10-K Summary

None.

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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.

GENERAC HOLDINGS INC.

By:

/s/ AARON JAGDFELD

Aaron Jagdfeld

Dated: February 21, 2024 February 19, 2025

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

Signature	Title	Date
<div>/s/ AARON JAGDFELD</div> <div>Aaron Jagdfeld</div>	Chairman, President and Chief Executive Officer	February 21, 2024 19, 2025
<div>/s/ YORK A. RAGEN</div> <div>York A. Ragen</div>	Chief Financial Officer and Chief Accounting Officer	February 21, 2024 19, 2025
<div>/s/ BENNETT MORGAN</div> <div>Bennett Morgan</div>	Lead Director	February 21, 2024 19, 2025
<div>/s/ MARCIA J. AVEDON</div> <div>Marcia J. Avedon</div>	Director	February 21, 2024 19, 2025
<div>/s/ JOHN D. BOWLIN</div> <div>John D. Bowlin</div>	Director	February 21, 2024 19, 2025
<div>/s/ ROBERT D. DIXON</div> <div>Robert D. Dixon</div>	Director	February 21, 2024 19, 2025
<div>/s/ WILLIAM JENKINS</div> <div>William Jenkins</div>	Director	February 21, 2024 19, 2025
<div>/s/ ANDREW G. LAMPEREUR</div> <div>Andrew G. Lampereur</div>	Director	February 21, 2024 19, 2025
<div>/s/ NAM TRAN NGUYEN</div> <div>Nam Tran Nguyen</div>	Director	February 21, 2024 19, 2025
<div>/s/ DAVID A. RAMON</div> <div>David A. Ramon</div>	Director	February 21, 2024 19, 2025
<div>/s/ KATHRYN ROEDEL BOHL</div> <div>Kathryn Roedel Bohl</div>	Director	February 21, 2024 19, 2025
<div>/s/ DOMINICK ZARCONE</div> <div>Dominick Zarcone</div>	Director	February 21, 2024 19, 2025

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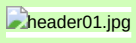


Exhibit 10.39 19

1. PURPOSE

Generac has established this Insider Trading Policy (“Policy”) to aid our employees in understanding their responsibilities in complying with laws prohibiting insider trading, to set forth procedures designed to facilitate compliance, and to avoid the appearance of any impropriety.

2. SCOPE

This Policy applies to all employees of Generac Holdings, Inc. and its subsidiaries (“Generac”) worldwide. The additional procedures in Section 5 apply only to Covered Persons.

3. POLICY STATEMENT

Our Policy prohibits trading in Generac securities on the basis of non-public, Material Information about Generac. It also prohibits trading in the securities of other companies on the basis of inside information learned about those companies through employment at Generac.

Our Policy also prohibits Covered Persons from engaging in the following types of transactions: hedging (e.g., forward sale contracts, collars, equity swaps, or similar derivative transactions), short sales, purchase of publicly traded options, or short swing transactions (meaning the execution of an opposite transaction within 6 months of an original transaction).

Covered Persons who are subject to pre-clearance procedures of Section 5.2.a) also may not directly or indirectly pledge shares of Generac securities, including holding of shares in a margin account, which would entitle a third party to foreclose against or otherwise sell the securities.

Any employee who violates this Policy may be subject to disciplinary action, up to and including termination.

4. DEFINITIONS

- 4.1. **Covered Person** is a director, officer, or an employee with regular direct or indirect access to non-public, Material Information about Generac, as well as any family member of such director, officer, or employee.
- 4.2. **Covered Senior Executive** is a Covered Person who is required to maintain minimum target ownership requirements of Generac securities under company policies
- 4.3. **Material Information** is information that could be expected to affect the company's stock price. Examples of information that typically is considered Material Information includes:
 - Financial information about Generac that has not been announced to the public;

Insider Trading Policy

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- Projections of future earnings or losses, or other earnings guidance;
- Potential or planned acquisitions, divestitures, mergers, joint ventures or restructuring;
- Changes to the board of directors or senior management; and
- Potential gain or loss of a significant customer, supplier or purchase order.

If you are unsure if information is Material Information, please contact the General Counsel or the Deputy General Counsel – Corporate Governance & Compliance for assistance.

5. PROCEDURES

5.1 Trading Restrictions

- a) Covered Persons as well as their family members may not conduct any transaction of Generac securities other than as specified in this Policy and its procedures.
 - Covered Persons may only conduct transactions outside of a “**Blackout Period**,” which generally starts on the 22nd calendar day prior to the end of a fiscal quarter and ends after the second business day following the public release of our quarterly earnings. Trading windows will open after the second business day following the public release of quarterly earnings until the beginning of the next Blackout Period.
 - This Policy's trading restrictions do not apply to the purchase of Generac securities through the exercise of stock options granted by the Company (whether by cash exercise, stock swap, or net exercise, to the extent these forms of exercise are permitted by the Company). The restrictions do, however, apply to any subsequent sale of Generac securities acquired through an option exercise, including a broker-assisted cashless exercise.
- b) Covered Senior Executives who are required to maintain minimum target ownership requirements of Generac securities under company policies **must pre-clear any trade** in Generac securities under the procedures in Section 5.2.a).
- c) An event-specific blackout period may be instituted due to material events or unforeseen circumstances, and an open trading window may be closed or not opened as a result. Impacted persons, including individuals who are not Covered Persons, will be notified by email of an event-specific blackout period.

An event-specific blackout period will not be announced separately and should not be communicated to any person who is not directly notified of it.
- d) Regardless of whether there is an open trading window or pre-clearance has been received, an employee or a Covered Person may not transact in Generac securities if he or she is aware of non-public, Material Information.

Insider Trading Policy

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5.2 Trading Procedures

- a) Covered Senior Executives and their family members **must pre-clear any trade in Generac securities** with the Chief Financial Officer or the General Counsel (or their designees) at least two (2) business days before the proposed transaction date.
 - 1. The pre-clearance must identify: 1) the proposed date of the transaction; 2) the broker-dealer or other investment professional responsible for executing the transaction.
 - 2. If the transaction does not occur on the proposed date, a new pre-clearance request must be resubmitted.
 - 3. Within one (1) business day of completing any transaction in Generac securities, the Covered Senior Executive or his or her broker-dealer must deliver to the Chief Financial Officer and the General Counsel (or their designees) documentation confirming the transaction.
 - 4. Pre-clearance is not required for:

- Purchases or sales of securities under a pre-arranged allocations elections made for any 401(k) or other tax-qualified employee benefit plan of the company;
 - Securities transactions made under a properly established Rule 10b5-1 trading plan. Such plans must be approved in advance by the Chief Financial Officer and General Counsel, and entered into only during an open trading window and outside of a Blackout Period; or
 - Transactions in any other company's securities, unless previously required by the Chief Financial Officer in writing.
- b) Covered Persons and their family members may only transact in Generac securities during an open trading window and outside of a Blackout Period. Except for Covered Senior Executives, Covered Persons are not required to follow the pre-clearance procedures of 5.2.a).
- c) Covered Persons who are subject to the reporting requirements of Section 16(a) of the Securities Exchange Act are responsible for those obligations. However, because of the complexity of these reporting requirements, Generac will prepare and file Section 16 reports with the Securities and Exchange Commission on the basis of information supplied by the individual and either our stock plan administrators or the individual's broker-dealer.

Insider Trading Policy

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5.3. Covered Persons List

The Deputy General Counsel – Corporate Governance and Compliance and the Manager – Executive Compensation and Incentives are responsible for maintaining a current list of Covered Persons.

5.4. Trading Window and Blackout Period Notices

All Covered Persons will receive a trading window notice by email within one week before the trading window opens. Covered Persons will also receive a notice by email before a Blackout Period begins.

5.5. Questions Regarding These Procedures

You should direct any questions regarding these restrictions and procedures to the General Counsel or the Deputy General Counsel – Corporate Governance and Compliance.

6. COMMUNICATING INFORMATION ABOUT THE COMPANY

6.1. Authorized Spokespersons

Only the Chief Executive Officer, the Chief Financial Officer, or any person designated by the Chief Executive Officer is authorized to speak on behalf of Generac. Employees may not disclose confidential information about the company outside of the company (regardless of the setting) without prior authorization.

6.2. Inadvertent Disclosure of Non-Public, Material Information

If an employee becomes aware that non-public, Material Information about Generac has been disclosed, the employee should notify the Chief Financial Officer and General Counsel immediately of such disclosure.

6.3. Advance Review of External Presentations and Speeches

If an employee believes that an external presentation or speech (for example, at an investor conference) may contain company sensitive or potentially non-public, Material Information, the employee must have the presentation or speech reviewed in advance by an authorized spokesperson of the company.

7. POLICY CERTIFICATION

Covered Persons must certify initially and on a regular basis that they acknowledge and comply with this Policy.

8. POLICY OWNER

The General Counsel or his or her designee is the owner of this Policy.

Exhibit 10.44

Generac Holdings Inc.
2019 Equity Incentive Plan

RESTRICTED STOCK AWARD AGREEMENT

Upon acceptance by you through the online acceptance procedures of the Third Party Stock Plan Administrator ("Administrator"), this Restricted Stock Award Agreement (this "Agreement") is made effective as of the date set forth on your online award acceptance page of the Administrator ("Grant Date"), which is incorporated by reference herein, between Generac Holdings Inc., a Delaware corporation (the "Company") and you (the "Participant").

RECITALS:

WHEREAS, the Company has adopted and its stockholders have approved the Generac Holdings Inc. 2019 Equity Incentive Plan (the "Plan"), which Plan is incorporated herein by reference and made a part of this Agreement. Capitalized terms not otherwise defined herein shall have the same meanings as in the Plan; and

WHEREAS, the Company has adopted the Generac Power Systems, Inc. Executive Change in Control Policy (the "**CIC Policy**"); and

WHEREAS, the Compensation Committee has determined that it would be in the best interests of the Company and its stockholders to grant the restricted stock provided for herein to the Participant pursuant to the Plan and the terms set forth herein.

NOW THEREFORE, in consideration of the mutual covenants hereinafter set forth, the parties agree as follows:

1. Restricted Stock Award. Subject to the terms and conditions of the Plan and this Agreement, the Company hereby grants to the Participant a certain number of Shares of the Common Stock of the Company as set forth on the Participant's online award acceptance page of the Administrator (the "**Restricted Shares**"), which shall vest and become nonforfeitable in accordance with Section 3 hereof. Unless and until these Restricted Shares vest as provided in Section 3 below, they are subject to the restrictions specified in Section 2 of this Agreement.

2. Applicable Restrictions. Restrictions.

a. The Participant shall have none of the rights of a stockholder of the Company until the Restricted Shares vest, except as otherwise provided in this Section 2. The following restrictions apply to the unvested Restricted Shares (the "**Restrictions**"):

(i) dividends and other distributions declared and paid with respect to the Restricted Shares before they vest shall be subject to Section 2.b;

(ii) unless otherwise provided by the Committee, none of the Restricted Shares may be assigned, alienated, pledged, attached, sold or otherwise transferred or encumbered by the Participant other than by will or by the laws of descent and distribution, and any such purported assignment, alienation, pledge, attachment, sale, transfer or encumbrance shall be void and unenforceable against the Company or any Affiliate; provided, that, the designation of a beneficiary shall not constitute an assignment, alienation, pledge, attachment, sale, transfer or encumbrance. No such permitted transfer of the Restricted Shares to heirs or legatees of the Participant shall be effective to bind the Company unless the Committee shall have been furnished with written notice thereof and a copy of such evidence as the Committee may deem necessary to establish the validity of the transfer and the acceptance by the transferee or transferees of the terms and conditions hereof; and

(iii) subject to Section 3, all or a portion of the unvested Restricted Shares may be forfeited if the Participant's employment with the Company and its subsidiaries terminates before all of the Restricted Shares have vested, or if the Participant attempts to transfer Restricted Shares in a manner contrary to the Restrictions. Any Restricted Shares that are forfeited shall be returned to the Company for cancellation.

b. With respect to the Participant's outstanding but unvested Restricted Shares, any cash dividends and any other dividends or distributions payable or distributable with respect to or in exchange for outstanding but unvested Restricted Shares, including any shares of Company common stock or other property or securities distributable as the result of any equity restructuring or other change in corporate capitalization described in Section 12(a) of the Plan, shall be delivered to, retained and held by the Company subject to the same Restrictions, vesting conditions and other terms of this Agreement to which the underlying unvested Restricted Shares are subject. At the time the underlying Restricted Shares vest, the Company shall deliver to the Participant (without interest) the portion of such retained dividends and distributions that relate to the Restricted Shares that have vested. The Participant agrees to execute and deliver to the Company any instruments of assignment that may be necessary to permit transfer to the Company of all or any portion of any dividends or distributions subject to this Section 2.b that may be forfeited.

3. Vesting of Restricted Stock. Stock.

a. Scheduled Vesting. Scheduled Vesting. If the Participant remains in Service to the Company or any of its subsidiaries continuously from the Grant Date, then the Restricted Shares will vest in the number(s) and on the date(s) specified in the Vesting Schedule on the Participant's online award acceptance page of the Administrator, vesting in equal installments on each of the first three (3) anniversaries of the Grant Date (each, a "**Scheduled Vesting Date**").

b. Termination of Service Without Cause. Notwithstanding Section 3.a hereof, upon a termination of the Participant's Service by the Company without Cause (except as set forth in Section 3.d), any Restricted Shares, to the extent not then-vested, shall continue to vest during the period beginning on the date of such termination of Service and ending on the date that is one (1) year following such termination of Service, subject to the Participant's execution on or after the termination date of an effective general release and waiver of all claims against the Company, its Affiliates and their respective officers and directors, substantially in the form attached hereto as Exhibit A.

c. b. Termination of Service for Normal Retirement. Notwithstanding Section 3.a hereof, upon a termination of the Participant's Service by reason of Normal Retirement, any Restricted Shares, to the extent not then-vested, shall continue to vest during the period beginning on the last date of such termination of Service employment and ending on the date that is two one (1) year (two (2) years if at least six (6) months' notice of Normal Retirement is provided) following such termination last date of Service, employment, subject to the Participant's execution on or after the termination last date of employment of an effective general release and waiver of all claims against the Company, its Affiliates and their respective officers and directors, substantially in the form attached hereto as Exhibit A. However, any Restricted Shares, to the extent not then-vested, issued within six (6) months of this Agreement, as of the Participant's last date of employment, shall be forfeited. "Normal Retirement" shall mean a voluntary termination of Service by a Participant who has attained at least sixty-five (65) sixty (60) years of age and has at least twenty (20) fifteen (15) years of Service to the Company or any of its Affiliates.

d. c. Termination of Service following a Change of Control Termination of Service following a Change of Control. Notwithstanding Section 3.a hereof, (i) in the event of a Change in Control the provisions of Section 12 of the Plan shall apply except as specifically provided herein; and (ii) in the event of (1) Participant's Qualifying Termination (as defined under the CIC Policy) or (2) a termination of Participant's Service by the Company or any Affiliate without Cause within the one (1) year period following a Change in Control, the Restricted Shares shall vest as of the date of such Qualifying Termination or termination of Participant's Service, as applicable, subject to the Participant's execution on or after the termination date of an effective general release and waiver of all claims against the Company, its Affiliates and their respective officers and directors, substantially in the form attached hereto as Exhibit A.

e. d. Termination of Service for Death or Disability Termination of Service for death or Disability. Upon a termination of the Participant's Service by reason of death or Disability, any Restricted Shares, to the extent not then-vested, shall vest as of the date of such termination of Service.

f. e. Other Terminations of Service. Upon a termination of the Participant's Service for any reason, other than as contemplated by Sections 3.b, 3.c, and 3.d or 3.e above, the Restricted Shares, to the extent not then-vested, shall immediately be forfeited by the Participant without consideration.

4. Release of Unrestricted Shares. Upon the vesting of Restricted Shares and the corresponding lapse of the Restrictions as to those Shares, and after the Company has determined that all conditions to the release of unrestricted Shares to the Participant, including Sections 9 and 10 of this Agreement, have been satisfied, it shall release to the Participant such unrestricted Shares, as evidenced by issuance to him or her of a stock certificate without restrictive legend, by electronic delivery of such Shares to a brokerage account of the Participant, or by an unrestricted book-entry registration of such Shares with the Company's transfer agent.

5. Restrictive Covenant Agreement. The Participant and the Company may have previously entered into a restrictive covenant agreement. If applicable, Participant hereby reaffirms his obligations under such restrictive covenant agreement and nothing contained in this Agreement shall cancel, change or modify Participant's obligations thereunder.

6. Non-Disparagement. The Participant, while providing Service to the Company and thereafter, shall not make any oral or written communication to any Person that disparages, or has the effect of damaging the reputation of, the Company, the Affiliates or their respective directors, officers, agents, employees, former employees, representatives or stockholders; provided, that, nothing in the foregoing shall preclude the Participant from disclosing any information to Participant's attorney or in response to a lawful subpoena or court order requiring disclosure of information.

7. Adjustment of Shares. In the event of any corporate event or transaction (as described in Section 12(a) of the Plan), the terms of this Agreement (including, without limitation, the number and kind of Shares subject to this Agreement) may be adjusted as set forth in Section 12(a) of the Plan.

8. No Right to Continued Service. The granting of the Restricted Shares evidenced hereby and this Agreement shall impose no obligation on the Company or any Affiliate to continue the Service of the Participant and shall not lessen or affect any right that the Company or any Affiliate may have to terminate the Service of such Participant.

9. Securities Laws/Legend on Certificates. The issuance and delivery of Shares shall comply with Section 16(c) of the Plan as well as comply with (or be exempt from) all applicable requirements of law, including (without limitation) the Securities Act of 1933, as amended, the rules and regulations promulgated thereunder, state securities laws and

regulations, and the regulations of any stock exchange or other securities market on which the Company's securities may then be traded. The Company shall not be obligated to file any registration statement under any applicable securities laws to permit the purchase or issuance of any Shares under the Plan or Awards, and accordingly any certificates for Shares or documents granting Awards may have an appropriate legend or statement of applicable restrictions endorsed thereon. If the Company deems it necessary to ensure that the issuance of Shares under the Plan is not required to be registered under any applicable securities laws, each Participant to whom such Shares would be issued shall deliver to the Company an agreement or certificate containing such representations, warranties and covenants as the Company may reasonably request which satisfies such requirements.

10. Withholding. The Participant may be required to pay to the Company or any Affiliate and the Company shall have the right and is hereby authorized to withhold, any applicable withholding taxes in respect of the Restricted Shares, their vesting or transfer and to take such other action as may be necessary in the opinion of the Committee to satisfy all obligations for the payment of such withholding taxes.

11. Notices. Any notification required by the terms of this Agreement shall be given in writing and shall be deemed effective upon personal delivery or within three (3) days of deposit with the United States Postal Service, by registered or certified mail, with postage and fees prepaid. A notice shall be addressed to the Company, Attention: General Counsel, at its principal executive office and to the Participant at the address that he or she most recently provided to the Company.

12. Entire Agreement. This Agreement, the details of the award on the Participant's online award acceptance page of the Administrator, the terms of the Mandatory Clawback Policy and Supplemental Clawback policy, as amended from time to time, if applicable, and the Plan constitute the entire contract between the parties hereto with regard to the subject matter hereof. They supersede any other agreements, representations or understandings (whether oral or written and whether express or implied) which relate to the subject matter hereof; however if any term in either the Mandatory Clawback Policy or Supplemental Clawback Policy are contrary to any term contained herein, the terms of such policies shall prevail

13. Waiver. No waiver of any breach or condition of this Agreement shall be deemed to be a waiver of any other or subsequent breach or condition whether of like or different nature.

14. Successors and Assigns. The provisions of this Agreement shall inure to the benefit of, and be binding upon, the Company and its successors and assigns and upon the Participant, the Participant's assigns and the legal representatives, heirs and legatees of the Participant's estate, whether or not any such person shall have become a party to this Agreement and have agreed in writing to be joined herein and be bound by the terms hereof.

15. Choice of Law. This Agreement shall be governed by the law of the State of Delaware (regardless of the laws that might otherwise govern under applicable Delaware principles of conflicts of law) as to all matters, including but not limited to matters of validity, construction, effect, performance and remedies.

16. Restricted Shares Subject to Plan. By entering into this Agreement the Participant agrees and acknowledges that the Participant has received and read a copy of the Plan. The Restricted Shares are subject to the Plan. The terms and provisions of the Plan as it may be amended from time to time are hereby incorporated herein by reference. In the event of a conflict between any term or provision contained herein and a term or provision of the Plan, the applicable terms and provisions of the Plan will govern and prevail.

17. No Guarantees Regarding Tax Treatment. Participants (or their beneficiaries) shall be responsible for all taxes with respect to the Restricted Shares. The Committee and the Company make no guarantees regarding the tax treatment of the Restricted Shares. None of the Company, any Subsidiary or Affiliate, or any of their employees or representatives shall have any liability to a Participant with respect thereto.

18. Amendment. The Committee, or the CEO, may amend or alter this Agreement and the Restricted Shares granted hereunder at any time, subject to the terms of the Plan.

19. Section 83(b) Election. In the event the Participant determines to make an election with the Internal Revenue Service (the "IRS") under Section 83(b) of the Code and the regulations promulgated thereunder (the "**83(b) Election**"), the Participant shall provide a copy of such form to the Company promptly following its filing, which is required under current law to be filed with the IRS no later than thirty (30) days after the Date of Grant of the Restricted Shares. The form for making an 83(b) Election is attached hereto as Exhibit B. The Participant is advised to consult with his or her own tax advisors regarding the purchase and holding of the Restricted Shares, and the Company shall bear no liability for any consequence of the Participant making an 83(b) Election or failing to make an 83(b) Election.

20. Severability. The provisions of this Agreement are severable and if any one or more provisions are determined to be illegal or otherwise unenforceable, in whole or in part, the remaining provisions shall nevertheless be binding and enforceable.

21. Signature. The grant of Restricted Shares is subject to Participant's acceptance of the terms and conditions of this Agreement. By clicking the acknowledgment button, Participant indicates he or she (1) has been provided access to a copy of the Plan, (2) has had the opportunity to obtain independent legal advice prior to accepting the

grant, (3) has read this Agreement, (4) agrees fully to the terms of the Agreement and (5) consents to receive all applicable documentation by electronic delivery and to participate in the Plan through an on-line (and/or voice activated) system established and maintained by the Company or the Company's third-party stock plan administrator. The Participant also acknowledges that all decisions, determinations and interpretations of the Committee in respect of the Plan, this Agreement and the Restricted Shares shall be final and conclusive.

22. **Compensation Recovery.** In addition to those provisions in Sections 5 and 6, to the extent that this Award and any compensation associated therewith is considered "incentive- based compensation" within the meaning and subject to the requirements of Section 10D of the Exchange Act, this Award and any compensation associated therewith shall be subject to potential forfeiture or recovery by the Company in accordance with any compensation recovery policy adopted by the Board or the Committee in response to the requirements of Section 10D of the Exchange Act and any implementing rules and regulations thereunder adopted by the Securities and Exchange Commission or any national securities exchange on which the Company's Shares are then listed. This Agreement may be unilaterally amended by the Committee to comply with any such compensation recovery policy.

23. **Forfeiture.** Notwithstanding anything to the contrary in this Agreement, if the Participant's Service is terminated for Cause, or if, during the term of the Participant's Service with the Company and its Affiliates and for one year after such Service ends (or such longer period as specified in the Participant's Restrictive Covenant Agreement, if applicable, or following the Participant's Normal Retirement and prior to the Scheduled Vesting Date) (the "**Restricted Period**"), the Participant breaches any of the restrictive covenants contained in Section 5 or Section 6, then (i) the Participant shall immediately forfeit this Award and any right to receive Shares that have not yet been issued pursuant to Section 3, and (ii) with respect to Shares that have been issued pursuant to this Award, either (A) the Participant shall return such Shares to the Company, or (B) the Participant shall pay to the Company in cash an amount equal to the Fair Market Value of such Shares as of their respective vesting date.

EXHIBIT A

FORM OF RELEASE

A release is required as a condition for receiving the benefits provided pursuant to the Restricted Stock Award Agreement between GENERAC HOLDINGS INC. (the "**Company**") and Participant ("**Participant**") dated _____ (the "**Agreement**"); thus, by executing this release ("**Release**"), you have advised us that you hold no claims against the Company, its predecessors, successors or assigns, affiliates, shareholders or members and each of their respective officers, directors, agents and employees (collectively, the "**Releasees**" "**Releasees**"), and by execution of this Release you agree to waive and release any such claims, except relating to any compensation, severance pay and benefits described in any written agreement between you and the Company.

You understand and agree that this Release will extend to all claims, demands, liabilities and causes of action of every kind, nature and description whatsoever, whether known, unknown or suspected to exist, which you ever had or may now have against the Releasees in your capacity as an employee of the Company, including, without limitation, any claims, demands, liabilities and causes of action arising from your employment with the Releasees and the termination of that employment, including any claims for severance or vacation pay, business expenses, and/or pursuant to any federal, state, county, or local employment laws, regulations, executive orders, or other requirements, including, but not limited to, Title VII of the 1964 Civil Rights Act, the 1866 Civil Rights Act, the Age Discrimination in Employment Act as amended by the Older Workers Benefit Protection Act, the Americans with Disabilities Act, the Civil Rights Act of 1991, the Workers Adjustment and Retraining Notification Act and any other local, state or federal fair employment laws, and any contract or tort claims.

You understand and agree that this Release is intended to include all claims by you or on your behalf alleging discrimination on the basis of race, sex, religion, national origin, age, disability, marital status, or any other protected status or involving any contract or tort claims based on your termination from the Company. It is also acknowledged that your termination is not in any way related to any work-related injury.

It also is understood and agreed that the remedy at law for breach of the Award Agreement, any restrictive covenant agreements between you and the Company, and/or this Release shall be inadequate, and the Company shall be entitled to injunctive relief in respect thereof.

Your ability to receive payments and benefits under the terms of the Award Agreement will remain open for a 21-day period after your Termination Date to give you an opportunity to consider the effect of this Release. At your option, you may elect to execute this Release on an earlier date. Additionally, you have seven days after the date you execute this Release to revoke it. As a result, this Release will not be effective until eight days after you execute it. We also want to advise you of your right to consult with legal counsel prior to executing a copy of this Release.

Finally, this is to expressly acknowledge:

- You understand that you are not waiving any claims or rights that may arise after the date you execute this Release.

- You understand and agree that the compensation and benefits described in the Award Agreement offer you consideration greater than that to which you would otherwise be entitled.

I hereby state that I have carefully read this Release and that I am signing this Release knowingly and voluntarily with the full intent of releasing the Releases from any and all claims, except as set forth herein. Further, if signed prior to the completion of the 21 day review period, this is to acknowledge that I knowingly and voluntarily signed this Release on an earlier date.

Date:	

EXHIBIT B **SECTION 83(b)**

SECTION 83(b) ELECTION

This statement is being made under Section 83(b) of the Internal Revenue Code, pursuant to Treas. Reg. Section 1.83-2.

- (1) The taxpayer who performed the services is: **Name:**

Name: _____

Address: _____

- (2) The property with respect to which the election is being made is shares of the common stock, par value \$0.01 per share, of Generac Holdings Inc.
- (3) The transferor of the property is Generac Holdings Inc.
- (4) The property was transferred on .
- (5) The taxable year in which the election is being made is the calendar year .
- (6) The property will vest upon the third anniversary of the date of transfer, subject to the taxpayer's continued service to Generac Holdings Inc. or its affiliates.
- (7) The fair market value at the time of transfer (determined without regard to any restriction other than a restriction which by its terms will never lapse) is \$ per share.
- (8) The amount paid for such property is \$ per share.
- (9) A copy of this statement was furnished to Generac Holdings Inc. for whom taxpayer rendered the services underlying the transfer of property.
- (10) This statement is executed on .

Signature:

[Taxpayer's name]

This election must be filed with the Internal Revenue Service Center with which taxpayer files his Federal income tax returns and must be made within thirty days after the Date of Grant. This filing should be made by registered or certified mail, return receipt requested. The taxpayer shall also provide a copy of such form to the Company promptly following its

filing. The taxpayer should retain two (2) additional copies of the completed form for filing with Federal and state tax returns for the taxpayer's current tax year and an additional copy for the taxpayer's records.

Exhibit 10.40 10.45

Generac Holdings Inc.
2019 Equity Incentive Plan

NONQUALIFIED STOCK OPTION AWARD AGREEMENT

Upon acceptance by you through the online acceptance procedures of the Third Party Stock Plan Administrator ("**Administrator**"), this Nonqualified Stock Option Award Agreement (this "**Agreement**") is made effective as of the date set forth on your online award acceptance page of the Administrator ("**Grant Date**"), which is incorporated by reference herein, between Generac Holdings Inc., a Delaware corporation (the "**Company**") and you (the "**Participant**").

R E C I T A L S:

WHEREAS, the Company has adopted and the stockholders have approved the Generac Holdings Inc. 2019 Equity Incentive Plan (the "**Plan**"), which Plan is incorporated herein by reference and made a part of this Agreement. Capitalized terms not otherwise defined herein shall have the same meanings as in the Plan;

WHEREAS, the Company has adopted the Generac Power Systems, Inc. Executive Change in Control Policy (the "**CIC Policy**"); and

WHEREAS, the Committee has determined that it would be in the best interests of the Company and its stockholders to grant the option provided for herein to the Participant pursuant to the Plan and the terms set forth herein.

NOW THEREFORE, in consideration of the mutual covenants hereinafter set forth, the parties agree as follows:

1. Grant of the Option. The Company hereby grants to the Participant the right and option (the "**Option**") to purchase, on the terms and conditions hereinafter set forth, all or any part of an aggregate a certain number of Shares as set forth on the Participant's online award acceptance page of the Administrator. The Option is intended to be a Non-Qualified Stock Option.

2. Option Exercise Price. The purchase price of the Shares subject to the Option shall equal the exercise price as defined and calculated pursuant to Section 7 of the Plan, and which corresponds to the Grant Date set forth on your online award acceptance page of the Administrator and denoted as the award exercise price (the "**Exercise Price**").

3. Option Term. The term of the Option shall be ten (10) years, commencing on the Date of Grant, unless terminated at an earlier time pursuant to Section 6 (the "**Option Term**"). The Option shall automatically terminate upon the expiration of the Option Term, or at such earlier time specified herein or in the Plan.

4. Scheduled Vesting of the Option. Subject to the Participant's continued Service to the Company through the applicable vesting date, the Option shall vest in equal installments on each of the first four (4) anniversaries of the Date of Grant, such that twenty-five percent (25%) of the Option vests on each such anniversary. At any time, the portion of the Option which has become vested in accordance with the terms hereof shall be called the "**Vested Portion**". To the extent the Option has not already been exercised and has not expired or been terminated or cancelled, the Participant or the person otherwise entitled to exercise the Option as provided in this Agreement may at any time during the Option Term purchase all or any portion of the Shares subject to the vested portion of the Option.

5. Acceleration of Vesting Upon Termination following a Change in Control. Notwithstanding Section 4 hereof, (i) in the event of a Change in Control, the provisions of Section 12 of the Plan shall apply except as specifically provided herein, and (ii) in the event of (1) Participant's Qualifying Termination (as defined under the CIC Policy) or (2) a termination of Participant's Service by the Company or any Affiliate without Cause within the one (1) year period following a Change in Control, the Option shall immediately vest and become exercisable in full as of the date of such Qualifying Termination or termination of Participant's Service, as applicable, and shall remain exercisable until the earlier of (x) one (1) year following such Qualifying Termination or termination of Service, as applicable, and (y) the expiration of the Option Term. In addition, vesting and exercisability of this Option may be accelerated during the term of the Option under the circumstances described in Sections 12(b)(2) of the Plan.

6. Termination of Service.

(a) Termination of Service for Cause. Upon a termination of the Participant's Service by the Company for Cause, the Option, including the Vested Portion, shall immediately terminate and be forfeited without consideration.

(b) Termination of Service Without Cause. Upon a termination of the Participant's Service by the Company without Cause (except as set forth in Section 5 and Section 6(e)), any unvested portion of the Option shall continue to vest during the period beginning on the date of such termination of Service and ending on the earlier of (i) one year following such termination of Service and (ii) the expiration of the Option Term, and any portion so vested shall remain exercisable until the earlier of (i) ninety days following the end of such one-year period and (ii) the expiration of the Option Term. Any Vested Portion as of the date of a termination of Service contemplated by this Section 6(b) shall remain exercisable until the earlier of (i) ninety (90) days following such termination of Service and (ii) the expiration of the Option Term.

(c) Termination of Service for Normal Retirement. Upon a termination of the Participant's Service by reason of Normal Retirement, any unvested portion of the Option shall continue to vest during the period beginning on the last date of such termination of Service the Participant's employment with the Company and ending on the earlier of (i) two one year (two years, if at least six (6) months' notice of Normal Retirement is provided) following such termination last date of Service employment and (ii) the expiration of the Option Term, and any portion so vested shall remain exercisable until the earlier of (i) ninety days following the end of such two one (or two) year period following the last date of employment and (ii) the expiration of the Option Term. However, any unvested portion of an Option issued within six (6) months of this Agreement, as of the Participant's last date of employment, shall be forfeited. Any Vested Portion as of the last date of a termination of Service employment as contemplated by this Section 6(c), 6(b), shall remain exercisable until the earlier of (i) one year following such termination of Service and (ii) the expiration of the Option Term. "Normal Retirement" shall mean a voluntary termination of employment or service by a Participant who has attained at least sixty- five (65) sixty (60) years of age and has at least twenty (20) fifteen (15) years of service to the Company or any of its Affiliates.

(d) (c) Termination of Service for death or Disability. Upon a termination of the Participant's Service by reason of death or Disability, any unvested portion of the Option shall vest as of the termination of Service and the Option shall remain exercisable until the earlier of (i) one year following such termination of Service and (ii) the expiration of the Option Term.

(e) (d) Other Terminations of Service. Upon a termination of the Participant's Service for any reason, other than as contemplated by Sections 6(a), 5, 6(b), and 6(c), and 6(d) above, any unvested portion of the Option shall immediately terminate and be forfeited without consideration. Any Vested Portion as of the date of a termination of Service contemplated by this Section 6(e), 6(d) shall remain exercisable until the earlier of (i) ninety (90) days following such termination of Service and (ii) the expiration of the Option Term.

7. Exercise Procedures.

(a) Notice of Exercise. Except as set forth in Section 6, the Participant or the Participant's representative may exercise the Vested Portion or any part thereof prior to the expiration of the Option Term by giving written notice to the Company in the form attached hereto as Exhibit A (the "Notice of Exercise"). The Notice of Exercise shall be signed by the person exercising such Option. In the event that such Option is being exercised by the Participant's representative, the Notice of Exercise shall be accompanied by proof (satisfactory to the Company) of such representative's right to exercise such Option. In the event the Option is being exercised following the termination of the Participant's Service, exercise shall be subject to the Participant's execution on or after the termination date of an effective general release and waiver of all claims against the Company, its Affiliates and their respective officers and directors, substantially in the form attached hereto as Exhibit B.

(b) Method of Exercise. The Participant or the Participant's representative shall deliver to the Company, at the time the Notice of Exercise is given, payment in a form permissible under Section 7 of the Plan for the full amount of the aggregate Exercise Price for the exercised Option.

(c) Issuance of Shares. Provided the Company receives a properly completed and executed Notice of Exercise and has determined that all other conditions to exercise, including satisfaction of withholding tax obligations and compliance with applicable laws as provided in Section 16(c) of the Plan, have been satisfied, payment for the full amount of the aggregate Exercise Price, and, if applicable, an effective release and waiver of all claims as required by this Section 7, the Company shall promptly cause to be issued certificates for the Shares underlying the exercised Option, registered in the name of the Person exercising the applicable Option, as evidenced by issuance of a stock certificate or certificates, electronic delivery of such Shares to a brokerage account of such person, or book-entry registration of such Shares with the Company's transfer agent. The Company shall pay any original issue or transfer taxes with respect to the issue or transfer of the Shares and all fees and expenses incurred by it in connection therewith. All Shares so issued shall be fully paid and nonassessable.

8. Restrictive Covenant Agreement. The Participant and the Company may have previously entered into a restrictive covenant agreement. If applicable, Participant hereby reaffirms their obligations under such restrictive covenant agreement and nothing contained in this Agreement shall cancel, change or modify Participant's obligations thereunder.

9. Non-Disparagement. The Participant, while providing Service to the Company and thereafter, shall not make any oral or written communication to any Person that disparages, or has the effect of damaging the reputation of, the Company, the Affiliates or their respective directors, officers, agents, employees, former employees, representatives

or stockholders; provided, that, nothing in the foregoing shall preclude the Participant from disclosing any information to Participant's attorney or in response to a lawful subpoena or court order requiring disclosure of information.

10. Adjustment of Shares. In the event of any corporate event or transaction (as described in Section 12(a) of the Plan), the terms of this Agreement (including, without limitation, the number and kind of Shares subject to this Agreement and the Exercise Price) may be adjusted as set forth in Section 12(a) of the Plan.

11. No Right to Continued Service. The granting of the Option evidenced hereby and this Agreement shall impose no obligation on the Company or any Affiliate to continue the Service of the Participant and shall not lessen or affect any right that the Company or any Affiliate may have to terminate the Service of such Participant.

12. Securities Laws/Legend on Certificates. The issuance and delivery of Shares shall comply with Section 16(c) of the Plan (or be exempt from) all applicable requirements of law, including (without limitation) the Securities Act of 1933, as amended, the rules and regulations promulgated thereunder, state securities laws and regulations, and the regulations of any stock exchange or other securities market on which the Company's securities may then be traded. The Company shall not be obligated to file any registration statement under any applicable securities laws to permit the purchase or issuance of any Shares under the Plan or Awards, and accordingly any certificates for Shares or documents granting Awards may have an appropriate legend or statement of applicable restrictions endorsed thereon. If the Company deems it necessary to ensure that the issuance of Shares under the Plan is not required to be registered under any applicable securities laws, each Participant to whom such Shares would be issued shall deliver to the Company an agreement or certificate containing such representations, warranties and covenants as the Company may reasonably request which satisfies such requirements.

13. Transferability. Unless otherwise provided by the Committee, the Option may not be assigned, alienated, pledged, attached, sold or otherwise transferred or encumbered by the Participant other than by will or by the laws of descent and distribution, and any such purported assignment, alienation, pledge, attachment, sale, transfer or encumbrance shall be void and unenforceable against the Company or any Affiliate; provided, that, the designation of a beneficiary shall not constitute an assignment, alienation, pledge, attachment, sale, transfer or encumbrance. No such permitted transfer of the Option to heirs or legatees of the Participant shall be effective to bind the Company unless the Committee shall have been furnished with written notice thereof and a copy of such evidence as the Committee may deem necessary to establish the validity of the transfer and the acceptance by the transferee or transferees of the terms and conditions hereof. During the Participant's lifetime, the Option is exercisable only by the Participant.

14. Withholding. The Participant may be required to pay to the Company or any Affiliate and the Company shall have the right and is hereby authorized to withhold, any applicable withholding taxes in respect of the Option, its exercise or transfer and to take such other action as may be necessary in the opinion of the Committee to satisfy all obligations for the payment of such withholding taxes.

15. Notices. Any notification required by the terms of this Award Agreement shall be given in writing and shall be deemed effective upon personal delivery or within three (3) days of deposit with the United States Postal Service, by registered or certified mail, with postage and fees prepaid. A notice shall be addressed to the Company, Attention: General Counsel, at its principal executive office and to the Participant at the address that he or she most recently provided to the Company.

16. Entire Agreement. This Agreement, the details of the award on the Participant's online award acceptance page of the Administrator, the terms of the Mandatory Clawback Policy and Supplemental Clawback policy, as amended from time to time, if applicable, and the Plan constitute the entire contract between the parties hereto with regard to the subject matter hereof. They supersede any other agreements, representations or understandings (whether oral or written and whether express or implied) which relate to the subject matter hereof; however if any term in either the Mandatory Clawback Policy or Supplemental Clawback Policy are contrary to any term contained herein, the terms of such policies shall prevail

17. Waiver. No waiver of any breach or condition of this Agreement shall be deemed to be a waiver of any other or subsequent breach or condition whether of like or different nature.

18. Successors and Assigns. The provisions of this Agreement shall inure to the benefit of, and be binding upon, the Company and its successors and assigns and upon the Participant, the Participant's assigns and the legal representatives, heirs and legatees of the Participant's estate, whether or not any such person shall have become a party to this Agreement and have agreed in writing to be joined herein and be bound by the terms hereof.

19. Choice of Law. This Agreement shall be governed by the law of the State of Delaware (regardless of the laws that might otherwise govern under applicable Delaware principles of conflicts of law) as to all matters, including but not limited to matters of validity, construction, effect, performance and remedies.

20. Option Subject to Plan. By entering into this Agreement, the Participant agrees and acknowledges that the Participant has received and read a copy of the Plan. The Option is subject to the Plan. The terms and provisions of the Plan as it may be amended from time to time are hereby incorporated herein by reference. In the event of a conflict between any term or provision contained herein and a term or provision of the Plan, the applicable terms and provisions of the Plan will govern and prevail.

21. No Guarantees Regarding Tax Treatment. The Participant (or their beneficiaries) shall be responsible for all taxes with respect to the Option. The Committee and the Company make no guarantees regarding the tax treatment of the Option. Neither the Committee nor the Company has any obligation to take any action to prevent the assessment of any tax under Section 409A of the Code or Section 457A of the Code or otherwise and none of the Company, any Affiliate, or any of their employees or representatives shall have any liability to the Participant with respect thereto.

22. Amendment. The Committee, or the CEO, may amend or alter this Agreement and the Option granted hereunder at any time, subject to the terms of the Plan.

23. Severability. The provisions of this Agreement are severable and if any one or more provisions are determined to be illegal or otherwise unenforceable, in whole or in part, the remaining provisions shall nevertheless be binding and enforceable.

24. Signature in Counterparts. The grant of Options is subject to Participant's acceptance of the terms and conditions of this Agreement. By clicking the acknowledgment button, Participant indicates he or she (1) has been provided access to a copy of the Plan, (2) has had the opportunity to obtain independent legal advice prior to accepting the grant, (3) has read this Agreement, (4) agrees fully to the terms of the Agreement and (5) has consented to receive all applicable documentation by electronic delivery and to participate in the Plan through an on-line (and/or voice activated) system established and maintained by the Company or the Company's third-party stock plan administrator. The Participant also acknowledges that all decisions, determinations and interpretations of the Committee in respect of the Plan, this Agreement and the Options shall be final and conclusive.

25. Compensation Recovery. Recovery. In addition to those provisions in Sections 8 and 9, to the extent that this Award and any compensation associated therewith is considered "incentive-based compensation" within the meaning and subject to the requirements of Section 10D of the Exchange Act, this Award and any compensation associated therewith shall be subject to potential forfeiture or recovery by the Company in accordance with any compensation recovery policy adopted by the Board or the Committee in response to the requirements of Section 10D of the Exchange Act and any implementing rules and regulations thereunder adopted by the Securities and Exchange Commission or any national securities exchange on which the Company's Shares are then listed. This Agreement may be unilaterally amended by the Committee to comply with any such compensation recovery policy.

26. Forfeiture. Forfeiture. Notwithstanding anything to the contrary in this Agreement, if the Participant's Service is terminated for Cause, or if, during the term of the Participant's Service with the Company and its Affiliates and for one year after such Service ends (or such longer period as specified in the Participant's Restrictive Covenant Agreement, if applicable, or following the Participant's Normal Retirement and prior to the Scheduled Vesting Date) (the "Restricted Period" "Restricted Period"), the Participant breaches any of the restrictive covenants contained in Section 8 or Section 9, then (i) the Participant shall immediately forfeit this Award and any right to receive Options that have not yet been issued pursuant to Section 4, (ii) all outstanding but not-yet-exercised Options shall be canceled, and (iii) with respect to Shares that have been issued pursuant to this Award, either (A) the Participant shall return such Shares to the Company, or (B) the Participant shall pay to the Company in cash an amount equal to the Fair Market Value of such Shares as of their date of issuance pursuant to this Agreement Agreement.

EXHIBIT A

NOTICE OF EXERCISE

Generac Holdings Inc.

Generac Holdings Inc.

S45 W29290 Hwy. 59

Waukesha, Wisconsin 53187

Attn: _____

Date of Exercise: _____

Ladies & Gentlemen:

1. Exercise of Option. This constitutes notice to Generac Holdings, Inc. (the "Company") that pursuant to my Nonqualified Stock Option Award Agreement (the "Award Agreement") under the Company's 2019 Equity Incentive Plan (the "Plan") I elect to purchase the number of Shares of Company common stock set forth below and for the price set forth below. By signing and delivering this notice to the Company, I hereby acknowledge that I am the holder of the stock option (the "Option") exercised by this notice and have full power and authority to exercise the same.

Date of Grant:

Number of Shares as to
which the Option is exercised
("Optioned Shares"):

Certificates to be issued in name of:

Total exercise price:

\$

Cash Exercise

Cash payment delivered
herewith:

\$

2. *Form of Payment.* Forms of payment other than cash or its equivalent (e.g. by cashier's check) are limited by the Plan and are permissible only to the extent approved by the compensation committee of the Board of Directors of the Company (the "Committee") or any committee designated thereby, in its sole discretion.

3. *Delivery of Payment.* With this notice, I hereby deliver to the Company the full purchase price of the Optioned Shares and any and all withholding taxes due in connection with the exercise of my Option.

4. *Rights as Stockholder.* While the Company will endeavor to process this notice in a timely manner, I acknowledge that until the issuance of the shares underlying the Optioned Shares (as evidenced by the appropriate entry on the books of the Company or of a duly authorized transfer agent of the Company), no right to vote or receive dividends or any other rights as a stockholder shall exist with respect to such shares, notwithstanding the exercise of my option(s). No adjustment shall be made for a dividend or other right for which the record date is prior to the date of issuance of the optioned stock.

5. *Interpretation.* Any dispute regarding the interpretation of this notice shall be submitted promptly by me or by the Company to the Committee, which shall review such dispute at its next regular meeting. The resolution of such a dispute by such administrator of the Plan shall be final and binding on all parties.

6. *Governing Law; Severability.* This notice is governed by the internal substantive laws but not the choice of law rules, of Delaware. In the event that any provision hereof becomes or is declared by a court of competent jurisdiction to be illegal, unenforceable or void, this notice will continue in full force and effect without said provision.

7. *Entire Agreement.* The Plan and the Award Agreement under which the Optioned Shares were granted are incorporated herein by reference, and together with this notice constitute the entire agreement of the parties with respect to the subject matter hereof.

Very truly yours,

EXHIBIT B FORM
OF RELEASE

A release is required as a condition for receiving the benefits provided pursuant to the Nonqualified Stock Option Award Agreement between GENERAC HOLDINGS INC. HOLDINGS INC. (the "**Company**") and ("**Participant**") dated (the "**Agreement**"); thus, by executing this release ("**Release**"), you have advised us that you hold no claims against the Company, its predecessors, successors or assigns, affiliates, shareholders or members and each of their respective officers, directors, agents and employees (collectively, the "**Releasees**" "**Releasees**"), and by execution of this Release you agree to waive and release any such claims, except relating to any compensation, severance pay and benefits described in any written agreement between you and the Company.

You understand and agree that this Release will extend to all claims, demands, liabilities and causes of action of every kind, nature and description whatsoever, whether known, unknown or suspected to exist, which you ever had or may now have against the Releasees in your capacity as an employee of the Company, including, without limitation, any claims, demands, liabilities and causes of action arising from your employment with the Releasees and the termination of that employment, including any claims for severance or vacation pay, business expenses, and/or pursuant to any federal, state, county, or local employment laws, regulations, executive orders, or other requirements, including, but not limited to, Title VII of the 1964 Civil Rights Act, the 1866 Civil Rights Act, the Age Discrimination in Employment Act as amended by the Older Workers Benefit Protection Act, the Americans with Disabilities Act, the Civil Rights Act of 1991, the Workers Adjustment and Retraining Notification Act and any other local, state or federal fair employment laws, and any contract or tort claims.

You understand and agree that this Release is intended to include all claims by you or on your behalf alleging discrimination on the basis of race, sex, religion, national origin, age, disability, marital status, or any other protected status or involving any contract or tort claims based on your termination from the Company. It is also acknowledged that your termination is not in any way related to any work-related injury.

It also is understood and agreed that the remedy at law for breach of the Award Agreement, any restrictive covenant agreements between you and the Company, and/or this Release shall be inadequate, and the Company shall be entitled to injunctive relief in respect thereof.

Your ability to receive payments and benefits under the terms of the Award Agreement will remain open for a 21-day period after your Termination Date to give you an opportunity to consider the effect of this Release. At your option, you may elect to execute this Release on an earlier date. Additionally, you have seven days after the date you execute this Release to revoke it. As a result, this Release will not be effective until eight days after you execute it. We also want to advise you of your right to consult with legal counsel prior to executing a copy of this Release.

Finally, this is to expressly acknowledge:

- You understand that you are not waiving any claims or rights that may arise after the date you execute this Release.

-
- You understand and agree that the compensation and benefits described in the Award Agreement offer you consideration greater than that to which you would otherwise be entitled.

I hereby state that I have carefully read this Release and that I am signing this Release knowingly and voluntarily with the full intent of releasing the Releasees from any and all claims, except as set forth herein. Further, if signed prior to the completion of the 21 day review period, this is to acknowledge that I knowingly and voluntarily signed this Release on an earlier date.

Date:	

2

Exhibit 10.41 10.46

Generac Holdings Inc.
2019 Equity Incentive Plan

PERFORMANCE SHARE UNIT AWARD AGREEMENT

Upon acceptance by you through the online acceptance procedures of the Third Party Stock Plan Administrator ("**Administrator**"), this Performance Share Unit Award Agreement (this "**Agreement**") is made effective as of the date set forth on your online award acceptance page of the Administrator ("**Grant Date**"), which is incorporated by reference herein, between Generac Holdings Inc., a Delaware corporation (the "**Company**") and you (the "**Participant**").

RECITALS:

WHEREAS, the Company has adopted and its stockholders have approved the Generac Holdings Inc. 2019 Equity Incentive Plan (the "**Plan**"), which Plan is incorporated herein by reference and made a part of this Award Agreement. Capitalized terms not otherwise defined herein shall have the same meanings as in the Plan;

WHEREAS, the Company has adopted the Generac Power Systems, Inc. Executive Change in Control Policy (the "**CIC Policy**"); and

WHEREAS, the Compensation Committee (the "**Committee**") has determined that it would be in the best interests of the Company and its stockholders to grant the performance share unit award provided for herein to the Participant pursuant to the Plan and the terms and conditions set forth herein.

NOW THEREFORE, in consideration of the mutual covenants hereinafter set forth, the parties agree as follows:

1. Performance Share Award. The Company hereby confirms the grant to the Participant, as of the Grant Date and subject to the terms and conditions of this Agreement and the Plan, of an award of Performance Share Units (the "**Units**") in an amount initially equal to the Target Number of Performance Share Units specified on the Participant's online award acceptance page of the Administrator ("**Target Number of Units**"). The number of Units that may actually be earned and become eligible to vest pursuant to this Award can be between 0% and 200% of the Target Number of Units. Each Unit that is earned as a result of the performance goals specified in Exhibit A to this Agreement having been satisfied and which thereafter vests represents the right to receive one Share of the Company's common stock. Prior to their settlement or forfeiture in accordance with the terms of this Agreement, the Units granted to the Participant will be credited to a performance share unit account in the Participant's name maintained by the Company. This account will be unfunded and maintained for book-keeping purposes only, with the Units simply representing an unfunded and unsecured contingent obligation of the Company.

2. Vesting.

(a) Scheduled Vesting Date. The number of Units that have been earned during the Performance Period, as determined by the Committee in accordance with Exhibit A, will vest on the Scheduled Vesting Date, so long as the Participant's Service has been continuous from the Grant Date to the Scheduled Vesting Date. For these purposes, the "**Scheduled Vesting Date**" means the date the Committee certifies (i) the degree to which the applicable performance goals for the Performance Period have been satisfied, and (ii) the number of Units that have been earned during the Performance Period specified on the Participant's online award acceptance page of the Administrator ("**Performance Period**") as determined in accordance Exhibit A, which certification shall occur no later than March 10 of the calendar year immediately following the calendar year during which the Performance Period ended.

(b) Termination of Service. Notwithstanding Section 2(a) hereof, upon a termination of the Participant's Service for any reason (except as set forth in Section 2(c), Section 2(d) and Section 2(e)), the Units, to the extent not then vested, shall immediately be forfeited by the Participant without consideration.

(c) Termination of Service for Normal Retirement. Notwithstanding Section 2(a) hereof, upon a termination of the Participant's Service by reason of Normal Retirement, as defined below, prior to the Scheduled Vesting Date, the Participant will be entitled to have vest on the Scheduled Vesting Date a pro rata portion of the Units that would otherwise have been determined to have been earned during the Performance Period in accordance with Exhibit A if the Participant's Service had been continuous until the Scheduled Vesting Date, subject to the Participant's execution on or within the 21-day period after the Award payment date of an effective general release and waiver of all claims against the Company, its Affiliates and their respective officers and directors, substantially in the form attached hereto as Exhibit B. The pro rata portion shall be determined by multiplying the number of Units that would otherwise have been determined to have been earned by a fraction whose numerator is the number of days during the Performance Period prior to the Participant's employment termination date and whose denominator is the number of days in the Performance Period. For purposes of this Section 2(c), "Normal Retirement" shall mean a voluntary termination of employment by a Participant who has attained at least **sixty-five (65) sixty (60)** years of age and has at least **twenty (20) fifteen (15)** years of service to the Company or any of its Affiliates.

(d) Termination of Service for Death. Notwithstanding Section 2(a) hereof, upon a termination of the Participant's Service by reason of his or her death prior to the Scheduled Vesting Date, a pro rata portion of the Target Number of Units shall vest as of the date of Participant's death and shall be paid to the beneficiary designated by the Participant or, in the absence of any such designation, to the Participant's estate. The pro rata portion shall be determined utilizing a fraction determined in the same manner as provided in Section 2(c) above.

(e) Termination of Service for Disability. Notwithstanding Section 2(a) hereof, upon a termination of the Participant's Service by reason of his or her Disability prior to the Scheduled Vesting Date, a pro rata portion of the Target Number of Units shall vest as of the date of such termination of Service, subject to the Participant's execution on or within the 21-day period after the termination of Service date of an effective general release and waiver of all claims against the Company, its Affiliates and their respective officers and directors, substantially in the form attached hereto as Exhibit B. The pro rata portion shall be determined utilizing a fraction determined in the same manner as provided in Section 2(c) above.

(f) Termination of Service following a Change in Control. Notwithstanding Section 2(a) hereof, (i) in the event of a Change in Control the provisions of Section 12 of the Plan shall apply except as specifically provided herein, (ii) in the event of (1) the Participant's Qualifying Termination (as defined under the CIC Policy) on or after the occurrence of a Change in Control but prior to the Scheduled Vesting Date, or (2) a termination of Participant's Service by the Company or any Affiliate within the one (1) year period following a Change in Control, the Target Number of Units shall vest as of the date of such Qualifying Termination or termination of Participant's Service, as applicable, and (iii) in the event of a Qualifying Termination within 120 days prior to the occurrence of a Change in Control and prior to the Scheduled Vesting Date, the Target Number of Units will vest upon the Change in Control. In all cases the vesting of Units pursuant to this Section 2(f) shall be subject to the Participant's execution on or after the termination of Service date of an effective general release and waiver of all claims against the Company, its Affiliates and their respective officers and directors, substantially in the form attached hereto as Exhibit B.

(g) Modifications to Vesting Schedule. In the event that the Participant takes an authorized leave of absence ("LOA") prior to the Scheduled Vesting Date, the Units subject to this Agreement that are scheduled to vest shall be modified as follows:

(i) if the duration of the Participant's LOA is sixty (60) days or less, the vesting schedule set forth in Section 2(a) shall not be affected by the Participant's LOA.

(ii) if the duration of the Participant's LOA is greater than sixty (60) days, the scheduled vesting of any Units awarded by this Agreement that are not then vested shall be deferred for a period of time equal to the duration of the Participant's LOA.

3. Delivery of Shares. Subject to Section 23 below, as soon as administratively practicable, but not later than sixty (60) days (thirty (30) days in the case of vesting pursuant to Section 2(c), Section 2(d), Section 2(e) or Section 2(f)), following the vesting of the Units (as described in Section 2 hereof), the Company shall cause to be issued and delivered to the Participant (or to his or her personal representative or designated beneficiary or estate in the event of the Participant's death, as applicable) one Share in payment and settlement of each vested Unit. Delivery of the Shares shall be effected by the issuance of a stock certificate to the Participant, by an appropriate entry in the stock register maintained by the Company's transfer agent with a notice of issuance provided to the Participant, or by the electronic delivery of the Shares to Participant's brokerage account with the Administrator, and shall be subject to the tax withholding provisions of Section 12 and compliance with all applicable legal requirements as provided in Section 10 hereof and Section 16(c) of the Plan, and shall be in complete satisfaction and settlement of such vested Units.

4. Rights as a Stockholder. Except as provided in Section 5, the Participant shall have none of the rights of a stockholder of the Company in connection with the Units unless and until Shares are issued to him or her in settlement of earned and vested Units as provided in Section 3.

5. Dividend Equivalents. If the Company pays cash dividends on its Shares while any Units subject to this Agreement are outstanding, then on the date this Award vests pursuant to Section 2 above, a total Dividend Equivalent amount will be credited to the Participant's performance share unit account and shall be deemed reinvested in additional Units ("**Dividend Equivalent Units**"). The total Dividend Equivalent amount will be determined by multiplying the number of underlying Units determined to have vested by the per share amount of each cash dividend paid on the Company's common stock with a record date and payment date occurring between the Grant Date and the applicable vesting date, and adding those products together. Each of those products is referred to as a "**Dividend Equivalent Amount**." The number of Dividend Equivalent Units to be credited to the Participant's performance share unit account pursuant to this deemed reinvestment will be determined by dividing each Dividend Equivalent Amount by the Fair Market Value of a share of the Company's common stock on the applicable dividend payment date, and adding those quotients together. Any Dividend Equivalent Units so credited will be fully vested and subject to settlement with the underlying Units as provided in Section 3 above.

6. Restrictive Covenant Agreement. The Participant and the Company may have previously entered into a restrictive covenant agreement ("**Restrictive Covenant Agreement**"). If applicable, Participant hereby reaffirms their obligations under such Restrictive Covenant Agreement and nothing contained in this Agreement shall cancel, change or modify Participant's obligations thereunder.

7. Non-Disparagement. The Participant, while providing Services to the Company and thereafter to the fullest extent permitted by law, shall not make any oral or written communication to any person or entity that disparages, or has the effect of damaging the reputation of, the Company, the Affiliates or their respective directors, officers, agents, employees, former employees, representatives or stockholders; provided, that, nothing in the foregoing shall preclude the Participant from disclosing any information to Participant's attorney, or from responding truthfully to any inquiry from a governmental entity, and/or engaging in any protected activities and/or from communicating with the Company's CEO and/or those employees or directors with a need to know about personnel issues involving Company officers, directors and/or employees.

8. Adjustment of Shares. In the event of any corporate event or transaction (as described in Section 12(a) of the Plan), the terms of this Award Agreement (including, without limitation, the number and kind of Units subject to this Agreement and the shares of stock deliverable with respect to such Units) may be adjusted as set forth in Section 12(a) of the Plan.

9. No Right to Continued Service. The granting of the Units evidenced hereby and this Agreement shall impose no obligation on the Company or any Affiliate to continue the Service of the Participant and shall not lessen or affect any right that the Company or any Affiliate may have to terminate the Service of such Participant.

10. Securities Laws/Restrictions. The issuance and delivery of Shares pursuant to this Award Agreement shall comply with Section 16(c) of the Plan as well as comply with (or be exempt from) all applicable requirements of law, including (without limitation) the Securities Act of 1933, as amended, the rules and regulations promulgated thereunder, state securities laws and regulations, and the regulations of any stock exchange or other securities market on which the Company's securities may then be traded. The Company shall not be obligated to file any registration statement under any applicable securities laws to permit the purchase or issuance of any shares of common stock under the Plan or Awards, and accordingly any certificates or other indicia of ownership for shares of common stock may have an appropriate legend or statement of applicable restrictions endorsed thereon. If the Company deems it necessary to ensure that the issuance of shares of common stock under the Plan is not required to be registered under any applicable securities laws, each Participant to whom such shares of common stock would be issued shall deliver to the Company an agreement or certificate containing such representations, warranties and covenants as the Company may reasonably request which satisfies such requirements.

11. Transferability. Unless otherwise provided by the Committee, the Units may not be assigned, alienated, pledged, attached, sold or otherwise transferred or encumbered by the Participant other than by will or by the laws of descent and distribution, and any such purported assignment, alienation, pledge, attachment, sale, transfer or encumbrance shall be void and unenforceable against the Company or any Affiliate; provided, that, the designation of a beneficiary shall not constitute an assignment, alienation, pledge, attachment, sale, transfer or encumbrance. No such permitted transfer of the Units to heirs or legatees of the Participant shall be effective to bind the Company unless the Committee shall have been furnished with written notice thereof and a copy of such evidence as the Committee may deem necessary to establish the validity of the transfer and the acceptance by the transferee or transferees of the terms and conditions hereof.

12. Withholding. The Participant may be required to pay to the Company or any Affiliate and the Company shall have the right and is hereby authorized to withhold, any applicable withholding taxes in respect of the transfer of Shares and to take such other action as may be necessary in the opinion of the Committee to satisfy all obligations for the payment of such withholding taxes.

13. Notices. Any notification required by the terms of this Agreement shall be given in writing and shall be deemed effective upon personal delivery or within three (3) days of deposit with the United States Postal Service, by registered or certified mail, with postage and fees prepaid. A notice shall be addressed to the Company, Attention: General Counsel, at its principal executive office and to the Participant at the address that he or she most recently provided to the Company.

14. Entire Agreement. This Agreement, the details of the award on the Participant's online award acceptance page of the Administrator, the terms of the Mandatory Clawback Policy and Supplemental Clawback policy, as amended from time to time, if applicable, and the Plan constitute the entire contract between the parties hereto with regard to the subject matter hereof. They supersede any other agreements, representations or understandings (whether oral or written and whether express or implied) which relate to the subject matter hereof; however if any term in either the Mandatory Clawback Policy or Supplemental Clawback Policy are contrary to any term contained herein, the terms of such policies shall prevail

15. Waiver. No waiver of any breach or condition of this Agreement shall be deemed to be a waiver of any other or subsequent breach or condition whether of like or different nature.

16. Successors and Assigns, Assigns. The provisions of this Agreement shall inure to the benefit of, and be binding upon, the Company and its successors and assigns and upon the Participant, the Participant's assigns and the legal representatives, heirs and legatees of the Participant's estate, whether or not any such person shall have become a party to this Agreement and have agreed in writing to be joined herein and be bound by the terms hereof.

17. Choice of Law, Law. This Agreement shall be governed by the law of the State of Delaware (regardless of the laws that might otherwise govern under applicable Delaware principles of conflicts of law) as to all matters, including but not limited to matters of validity, construction, effect, performance and remedies.

18. Units Subject to Plan, Plan. By entering into this Agreement the Participant agrees and acknowledges that the Participant has received and read a copy of the Plan. The Units are subject to the Plan. The terms and provisions of the Plan as it may be amended from time to time are hereby incorporated herein by reference. In the event of a conflict between any term or provision contained herein and a term or provision of the Plan, the applicable terms and provisions of the Plan will govern and prevail.

19. No Guarantees Regarding Tax Treatment. Participants (or their beneficiaries) shall be responsible for all taxes with respect to the Units and related Shares, if any, that are vested and earned. The Committee and the Company make no guarantees regarding the tax treatment of this Award. Neither the Committee nor the Company has any obligation to take any action to prevent the assessment of any tax under Section 409A of the Code or Section 457A of the Code or otherwise and none of the Company, any Subsidiary or Affiliate, or any of their employees or representatives shall have any liability to a Participant with respect thereto. If the delivery of Shares pursuant to the vesting of the Units is conditioned upon the execution of a release by the Participant and the combined time period for the execution of the release and the delivery of such shares overlaps the end of a calendar year, the shares of common stock shall be delivered in the second calendar year.

20. Amendment. The Committee, or the CEO, may amend or alter this Agreement and the Units granted hereunder at any time, subject to the terms of the Plan.

21. Severability. The provisions of this Agreement are severable and if any one or more provisions are determined to be illegal or otherwise unenforceable, in whole or in part, the remaining provisions shall nevertheless be binding and enforceable.

22. Signature. The Agreement is subject to Participant's acceptance of the terms and conditions of this Agreement. By clicking the acknowledgment button, Participant indicates he or she (1) has been provided access to a copy of the Plan, (2) has had the opportunity to obtain independent legal advice prior to accepting the grant, (3) has read this Agreement, (4) agrees fully to the terms of the Agreement and (5) consents to receive all applicable documentation by electronic delivery and to participate in the Plan through an on-line (and/or voice activated) system established and maintained by the Company or the Company's third-party stock plan administrator. The Participant also acknowledges that all decisions, determinations and interpretations of the Committee in respect of the Plan, this Agreement and the Units shall be final and conclusive.

23. Compensation Recovery. In addition to those provisions in Sections 6 and 7 to the extent that this Award and any compensation associated therewith is considered "incentive-based compensation" within the meaning and subject to the requirements of Section 10D of the Exchange Act, this Award and any compensation associated therewith shall be subject to potential forfeiture or recovery by the Company in accordance with any compensation recovery policy adopted by the Board or the Committee in response to the requirements of Section 10D of the Exchange Act and any implementing rules and regulations thereunder adopted by the Securities and Exchange Commission or any national securities exchange on which the Company's Shares are then listed. This Agreement may be unilaterally amended by the Committee to comply with any such compensation recovery policy.

24. Forfeiture. Notwithstanding anything to the contrary in this Agreement, if the Participant's Service is terminated for Cause, or if, during the term of the Participant's Service with the Company and its Affiliates and for one year after such Service ends (or such longer period as specified in the Participant's Restrictive Covenant Agreement, if applicable, or following the Participant's Normal Retirement and prior to the Scheduled Vesting Date) (the "Restricted Period"), the Participant breaches any of the restrictive covenants contained in Section 6 or Section 7, then (i) the Participant shall immediately forfeit this Award and any right to receive Shares that have not yet been issued pursuant to Section 3, and (ii) with respect to Shares that have been issued pursuant to this Award, either (A) the Participant shall return such Shares to the Company, or (B) the Participant shall pay to the Company in cash an amount equal to the Fair Market Value of such Shares as of the respective vesting date of the underlying Units.

EXHIBIT A

Performance Goals

Exhibit A shall be provided by separate document and constitutes part of this Agreement.

EXHIBIT B

FORM OF RELEASE

A release is required as a condition for receiving the benefits provided pursuant to the Performance Share Award Agreement between GENERAC HOLDINGS INC. (the "Company" **"Company"**) and (the "Participant" **"Participant"**) dated (the "Agreement" **(the "Agreement")**); thus, by executing this release ("Release"), you have advised us that you hold no claims against the Company, its predecessors, successors or assigns, affiliates, shareholders or members and each of their respective officers, directors, agents and employees (collectively, the "Releasees"), and by execution of this Release you agree to waive and release any such claims, except relating to any compensation, severance pay and benefits described in any written agreement between you and the Company.

You understand and agree that this Release will extend to all claims, demands, liabilities and causes of action of every kind, nature and description whatsoever, whether known, unknown or suspected to exist, which you ever had or may now have against the Releasees in your capacity as an employee of the Company, including, without limitation, any claims, demands, liabilities and causes of action arising from your employment with the Releasees and the termination of that employment, including any claims for severance or vacation pay, business expenses, and/or pursuant to any federal, state, county, or local employment laws, regulations, executive orders, or other requirements, including, but not limited to, Title VII of the 1964 Civil Rights Act, the 1866 Civil Rights Act, the Age Discrimination in Employment Act as amended by the Older Workers Benefit Protection Act, the Americans with Disabilities Act, the Civil Rights Act of 1991, the Workers Adjustment and Retraining Notification Act and any other local, state or federal fair employment laws, and any contract or tort claims.

You understand and agree that this Release is intended to include all claims by you or on your behalf alleging discrimination on the basis of race, sex, religion, national origin, age, disability, marital status, or any other protected status or involving any contract or tort claims based on your termination from the Company. It is also acknowledged that your termination is not in any way related to any work-related injury.

It also is understood and agreed that the remedy at law for breach of the Award Agreement, any restrictive covenant agreements between you and the Company, and/or this Release shall be inadequate, and the Company shall be entitled to injunctive relief in respect thereof.

Your ability to receive payments and benefits under the terms of the Award Agreement will remain open for a 21-day period after your Termination Date to give you an opportunity to consider the effect of this Release. At your option, you may elect to execute this Release on an earlier date. Additionally, you have seven days after the date you execute this Release to revoke it. As a result, this Release will not be effective until eight days after you execute it. We also want to advise you of your right to consult with legal counsel prior to executing a copy of this Release.

Finally, this is to expressly acknowledge:

- You understand that you are not waiving any claims or rights that may arise after the date you execute this Release.
- You understand and agree that the compensation and benefits described in the Award Agreement offer you consideration greater than that to which you would otherwise be entitled.

I hereby state that I have carefully read this Release and that I am signing this Release knowingly and voluntarily with the full intent of releasing the Releasees from any and all claims, except as set forth herein. Further, if signed prior to the completion of the 21 day review period, this is to acknowledge that I knowingly and voluntarily signed this Release on an earlier date.

Date:	

Exhibit 21.1

LISTING OF SUBSIDIARIES OF GENERAC HOLDINGS INC.

Subsidiaries of the Registrant	State or Other Jurisdiction of Incorporation
Generac Power Systems, Inc.	Wisconsin, U.S.
Generac Mobile Products, LLC	Wisconsin, U.S.
Warehouse Development Group LLC	Wisconsin, U.S.
Generac Ventures LLC	Wisconsin, U.S.
Generac Acquisition Corp.	Delaware, U.S.
MAC, Inc.	Delaware, U.S.
CHP Holdings, Inc.	Delaware, U.S.
Country Home Products, Inc.	Delaware, U.S.

Powermate, LLC	Delaware, U.S.
Generac Grid Services LLC	Delaware, U.S.
Pika Energy, Inc.	Delaware, U.S.
Power Management Holdings (U.S.), Inc.	Delaware, U.S.
Enbala U.S. Power Inc.	Delaware, U.S.
Generac TEP I, LLC	Delaware, U.S.
Sunnova TEP V-A, LLC	Delaware, U.S.
Tank Utility, Inc.	Delaware, U.S.
Energy Systems Holdings Inc.	Delaware, U.S.
Generac Power Plan, Inc.	Vermont, U.S.
Generac Services, Inc.	Vermont, U.S.
Route 22A & 1 Main LLC	Vermont, U.S.
MAC Holdings, LLC	North Dakota, U.S
PR-NA Industries Inc.	Florida, U.S.
Motortech Americas, L.L.C	Louisiana, U.S.
East Coast Energy Systems LLC	Massachusetts, U.S.
Electronic Environments Co. LLC	Massachusetts, U.S.
Wolverine Power Systems, LLC	Michigan, U.S.
Energy Systems New York, LLC	New York, U.S.
West Coast Energy Systems LLC	California, U.S.
Energy Systems Texas, LLC	Texas, U.S.
ecobee Ltd.	Nevada, U.S.
Deep Sea Electronics, Inc.	United States Illinois, U.S.
PR Australia PTY Ltd	Australia
PR Middle East WLL	Bahrain
Generac do Brasil Ltda	Brazil
GPR Brazil Equipamentos Ltda	Brazil
Neurio Technology ULC	Canada
Enbala Power Networks ULC	Canada
Enbala Power Networks B.C. ULC	Canada
ecobee Technologies ULC	Canada
Axcendo Innovation Corporation Generac Industrial ULC	Canada
Pramac Fu Lee Foshan Power Equipment Ltd	China
Motortech Shanghai Co., Ltd.	China
Suzhou Generac Power Systems Co., Ltd	China
Generac Colombia S.A.S.	Colombia
GAM Dominicana SA	Dominican Republic
Pramac Europe SAS	France
Services & Gestion France Sarl	France
Pramac GmbH	Germany
Motortech GmbH	Germany
Pramac Storage Systems GmbH	Germany
Captiva Energy Solutions Pvt. Ltd.	India
Deep Sea Electronics India Private Limited	India
PR Industrial S.r.l.	Italy
PRO S.r.l	Italy
IFC, S.r.l	Italy
La Serena Sculture S.r.l	Italy
Generac Mexico Administracion, S.A. de C.V.	Mexico
Generac Mexico, S.A. de C.V.	Mexico
Selmec Equipos Industriales, S.A. de C.V.	Mexico
Generac Servicios Mantenimiento, S.A. de C.V.	Mexico
Servicios Administrativos Selmec, S.A. de C.V.	Mexico
Generac Hidalgo, S.A. de C.V.	Mexico
GMH 2020, S. de R.L. de C.V.	Mexico
Pramac Sp. Z.o.o.	Poland

Motortech Polska Sp. Z.o.o.	Poland
Pramac Generators S.r.l.	Romania
Pramac RUS Ltd	Russia
Pramac Iberica S.A.U.	Spain
PR Middle East Fze	United Arab Emirates
Generac UK Acquisition Limited	United Kingdom
Generac UK DSE Topco Limited	United Kingdom
Generac UK DSE Midco Limited	United Kingdom
Generac UK DSE Bidco Limited	United Kingdom
Deep Sea Electronics Limited	United Kingdom
Generac Holdings UK Limited	United Kingdom
Generac Global UK Limited	United Kingdom
Ottomotores Nominees Limited	United Kingdom
Pramac - Generac UK Ltd.	United Kingdom
Pramac Racing Limited	United Kingdom
DSE Development Limited	United Kingdom
Off Grid Energy Limited	United Kingdom
Cocoon Labs Ltd.	United Kingdom

Exhibit 23.1

Consent of Independent Registered Public Accounting Firm

We consent to the incorporation by reference in Registration Statement Nos. 333-164851, 333-183109, 333-197944, 333-233050, and 333-233050 333-283011 on Form S-8 of our reports dated February 21, 2024 February 19, 2025, relating to the financial statements of Generac Holdings Inc., and the effectiveness of Generac Holdings Inc.'s internal control over financial reporting, appearing in this Annual Report on Form 10-K of Generac Holdings Inc. for the year ended December 31, 2023 December 31, 2024.

/s/ Deloitte & Touche LLP

Milwaukee, Wisconsin

February 21, 2024 19, 2025

Exhibit 31.1

CERTIFICATION OF CHIEF EXECUTIVE OFFICER PURSUANT TO SECURITIES EXCHANGE ACT RULES 13a-14(a) AND 15d-14(a), AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Aaron Jagdfeld, certify that:

1. I have reviewed this annual report on Form 10-K of Generac Holdings Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

- a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's Board of Directors (or persons performing the equivalent functions):
- a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 21, 2024 February 19, 2025

/s/ Aaron Jagdfeld

Name: Aaron Jagdfeld

Title: Chairman, President and Chief Executive Officer

Exhibit 31.2

**CERTIFICATION OF CHIEF FINANCIAL OFFICER PURSUANT TO
SECURITIES EXCHANGE ACT RULES 13a-14(a) AND 15d-14(a), AS ADOPTED
PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, York A. Ragen, certify that:

1. I have reviewed this annual report on Form 10-K of Generac Holdings Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

- b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's Board of Directors (or persons performing the equivalent functions):
- a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 21, 2024 February 19, 2025

/s/ York A. Ragen

Name: York A. Ragen

Title: Chief Financial Officer

Exhibit 32.1

**CERTIFICATION OF THE CHIEF EXECUTIVE OFFICER
PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED
BY SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

Pursuant to Section 1350, Chapter 63 of Title 18, United States Code, as adopted by Section 906 of the Sarbanes-Oxley Act of 2002, the undersigned, as Chief Executive Officer of Generac Holdings Inc. (the "Company"), does hereby certify that to his knowledge:

1. the Company's annual report on Form 10-K for the fiscal year ended December 31, 2023 December 31, 2024 fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and
2. the information contained in the Company's annual report on Form 10-K for the fiscal year ended December 31, 2023 December 31, 2024 fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: February 21, 2024 February 19, 2025

/s/ Aaron Jagdfeld

Name: Aaron Jagdfeld

Title: Chairman, President and Chief Executive Officer

Exhibit 32.2

**CERTIFICATION OF THE CHIEF FINANCIAL OFFICER
PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED**

BY SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

Pursuant to Section 1350, Chapter 63 of Title 18, United States Code, as adopted by Section 906 of the Sarbanes-Oxley Act of 2002, the undersigned, as Chief Financial Officer of Generac Holdings Inc. (the "Company"), does hereby certify that to his knowledge:

- the Company's annual report on Form 10-K for the fiscal year ended ~~December 31, 2023~~ December 31, 2024 fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and
- the information contained in the Company's annual report on Form 10-K for the fiscal year ended ~~December 31, 2023~~ December 31, 2024 fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: February 21, 2024 February 19, 2025

/s/ York A. Ragen

Name: York A. Ragen

Title: Chief Financial Officer

Exhibit 97

GENERAC HOLDINGS, INC.

MANDATORY RESTATEMENT COMPENSATION RECOVERY POLICY

Adopted December 1, 2023

Policy

The Board of Directors (the "**Board**") of Generac Holdings, Inc. (the "**Company**") has adopted this Mandatory Restatement Compensation Recovery Policy (this "**Policy**") pursuant to Rule 10D-1 of the Securities and Exchange Act of 1934, as amended (the "**Exchange Act**"), the Securities and Exchange Commission ("**SEC**") regulations promulgated thereunder, and applicable New York Stock Exchange ("**NYSE**") listing standards. Subject to and in accordance with the terms of this Policy, upon a Recoupment Event, each Covered Executive shall be obligated to return to the Company, reasonably promptly, the amount of Erroneously Awarded Compensation that was received by such Covered Executive during the Lookback Period.

Administration

This Policy will be administered by the Human Capital and Compensation Committee of the Board (the "**Committee**"). Any determinations made by the Committee will be final and binding on all affected individuals.

Definitions

"**Accounting Restatement**" means an accounting restatement due to the material noncompliance of the Company with any financial reporting requirement under the securities laws, including any required accounting restatement to correct an error in previously issued financial statements that is (a) material to the previously issued financial statements (commonly referred to as a "Big R" restatement), or (b) would result in a material misstatement if the error were corrected in the current period or left uncorrected in the current period (commonly referred to as a "little r" restatement).

"**Covered Executive**" means each of the Company's current and former Section 16 Officers.

"**Erroneously Awarded Compensation**" means, with respect to each Covered Executive in connection with an Accounting Restatement, the excess of the amount of Incentive-Based Compensation received by the Covered Executive during the Lookback Period over the amount of Incentive-Based Compensation that otherwise would have been received had it been determined based on the restated amounts, computed without regard to any taxes paid. For Incentive-Based Compensation based on stock price or total shareholder return, where the amount of Erroneously Awarded Compensation is not subject to mathematical recalculation directly from the information in an Accounting Restatement: (a) the amount must be based on a reasonable estimate of the effect of the Accounting Restatement on the stock price or total shareholder return upon which the Incentive-Based Compensation was received; and (b) the Company must maintain documentation of the determination of that reasonable estimate and provide such documentation to NYSE.

"**Financial Reporting Measures**" are any measures that are determined and presented in accordance with the accounting principles used in preparing the Company's financial statements, and any measures derived wholly or in part from such measures. Stock price and total shareholder return are also Financial Reporting Measures. A Financial Reporting Measure need not be presented within the financial statements or included in a filing with the SEC.

"**Incentive-Based Compensation**" is any compensation that is granted, earned, or vested based wholly or in part upon the attainment of a Financial Reporting Measure.

"**Lookback Period**" means the three completed fiscal years immediately preceding the Required Restatement Date and any transition period (that results from a change in the Company's fiscal year) of less than nine months within or immediately following those three completed fiscal years.

A "**Recoupment Event**" occurs when the Company is required to prepare an Accounting Restatement.

"**Required Restatement Date**" means the earlier to occur of: (a) the date the Company's Board, a committee of the Board, or the officer(s) of the Company authorized to take such action if Board action is not required, concludes, or reasonably should have concluded, that the Company is required to prepare an Accounting Restatement, or (b) the date a court, regulator, or other legally authorized body directs the Company to prepare an Accounting Restatement.

"**Section 16 Officer**" is defined as an "officer" of the Company within the meaning of Rule 16a-1(f) of the Exchange Act.

"Section 409A" means Section 409A of the Internal Revenue Code and the regulations and guidance promulgated thereunder.

Amount Subject to Recovery

The Incentive-Based Compensation that is subject to recovery under this Policy includes such compensation that is received by a Covered Executive (i) on or after October 2, 2023 (even if such Incentive-Based Compensation was approved, awarded or granted prior to this date), (ii) after the individual began service as a Covered Executive, (iii) if the individual served as a Section 16 Officer at any time during the performance period for such Incentive-Based Compensation, and (iv) while the Company has a class of securities listed on a national securities exchange or national securities association.

The amount of Incentive-Based Compensation subject to recovery from a Covered Executive upon a Recoupment Event is the Erroneously Awarded Compensation, which amount shall be determined by the Committee.

For purposes of this Policy, Incentive-Based Compensation is deemed "received" in the Company's fiscal period during which the Financial Reporting Measure specified in the Incentive-Based Compensation award is attained, even if the payment or grant of the Incentive-Based Compensation occurs after the end of that period.

Recovery of Erroneously Awarded Compensation

Promptly following a Recoupment Event, the Committee will determine the amount of Erroneously Awarded Compensation for each Covered Executive, and the Company will provide each such Covered Executive with a written notice of such amount and a demand for repayment or return. Upon receipt of such notice, each affected Covered Executive shall promptly repay or return such Erroneously Awarded Compensation to the Company.

If such repayment or return is not made within a reasonable time, the Company shall recover Erroneously Awarded Compensation in a reasonable and prompt manner using any lawful method determined by the Committee; provided that recovery of any Erroneously Awarded Compensation must be made in compliance with Section 409A.

Limited Exceptions

Erroneously Awarded Compensation will be recovered in accordance with this Policy unless the Committee determines that recovery would be impracticable and one of the following conditions is met:

- the direct expense paid to a third party to assist in enforcing this Policy would exceed the amount to be recovered, provided the Company has first made a reasonable effort to recover the Erroneously Awarded Compensation; or
- the recovery would likely cause a U.S. tax-qualified retirement plan to fail to meet the requirements of Internal Revenue Code Sections 401(a)(13) and 411(a) and the regulations thereunder.

Reliance on any of the above exemptions will further comply with applicable listing standards, including without limitation, documenting the reason for the impracticability and providing required documentation to NYSE.

No Insurance or Indemnification

Neither the Company nor any of its affiliates or subsidiaries may indemnify any Covered Executive against the loss of any Erroneously Awarded Compensation (or related expenses incurred by the Covered Executive) pursuant to a recovery of Erroneously Awarded Compensation under this Policy, nor will the Company nor any of its affiliates or subsidiaries pay or reimburse a Covered Executive for any insurance premiums on any insurance policy obtained by the Covered Executive to protect against the forfeiture or recovery of any compensation pursuant to this Policy.

Interpretation

The Committee is authorized to interpret and construe this Policy and to make all determinations necessary, appropriate, or advisable for the administration of this Policy. This Policy shall be applied and interpreted in a manner that is consistent with the requirements of Rule 10D-1 and any applicable regulations, rules or standards adopted by SEC or the rules of any national securities exchange or national securities association on which the Company's securities are listed. In the event that this Policy does not meet the requirements of Rule 10D-1, the SEC regulations promulgated thereunder, or the rules of any national securities exchange or national securities association on which the Company's securities are listed, this Policy shall be deemed to be amended to meet such requirements.

Amendment; Termination

The Board or the Committee may amend this Policy in its discretion and shall amend this Policy as it deems necessary to comply with the regulations adopted by the SEC under Rule 10D-1 and the rules of any national securities exchange or national securities association on which the Company's securities are listed. The Board or the Committee may terminate this Policy at any time. Notwithstanding anything herein to the contrary, no amendment or termination of this Policy shall be effective if that amendment or termination would cause the Company to violate any federal securities laws, SEC rules or the rules of any national securities exchange or national securities association on which the Company's securities are listed.

Other Recoupment Rights

Any right of recoupment under this Policy is in addition to, and not in lieu of, any other remedies or rights of recoupment that may be available to the Company pursuant to the terms of any similar provision in any employment agreement or other compensation plan or agreement and any other legal remedies available to the Company. This Policy is in addition to any other clawback or compensation recovery, recoupment or forfeiture policy in effect or that may be adopted by the Company from time to time, or any laws, rules or listing standards applicable to the Company, including without limitation, the Company's right to recoup compensation subject to Section 304 of the Sarbanes-Oxley Act of 2002. To the extent that application of this Policy would provide for recovery of Erroneously Awarded Compensation that the Company recovers pursuant to another policy or provision, the amount that is recovered will be credited to the required recovery under this Policy.

Successors

This Policy shall be binding and enforceable against all Covered Executives and their beneficiaries, heirs, executors, administrators or other legal representatives.

DISCLAIMER

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