Richardson Electronics Fourth Quarter Fiscal Year 2023 Investor Presentation

July 19, 2023

NASDAQ: RELL



Forward Looking Statement

This overview includes certain "forward-looking" statements as defined by the Securities and Exchange Commission. Statements regarding the Company's business which are not historical facts represent "forward-looking" statements that involve risks and uncertainties. For a discussion of such risks and uncertainties, which could cause actual results to differ from those contained in the forward-looking statements, see Item 1A, "Risk Factors" in the Company's Annual Report on Form 10-K. The Company assumes no responsibility to update the "forward-looking" statements in this overview as a result of new information, future events, or otherwise.



ENGINEERED SOLUTIONS



Technical expertise and "engineered solutions" based on our core engineering and manufacturing capabilities Value added solutions through design-in support, system integration, prototype design and manufacturing, testing, logistics, and aftermarket technical service and repair Global infrastructure and support to serve customers wherever they are located

Key Facts & Figures

FY2023 Sales: **\$262.7 million** (+16.9% YoY)

FY2023 Net Income: **\$1.55 per diluted share** (vs. **\$1.31 in FY2022**)

Strong Balance Sheet:
FY2023 Q4 cash and
cash equivalents of
\$25.0 million and
no debt

Certified Experts
ISO 9001:2015
ISO 13485: 2016
Certified

480+ Employees
Over half in sales,
engineering and product
management

Global Customers
Over 20,000 worldwide
OEM and end-user
customers

Headquarters: LaFox, Illinois

RELL is Global
60+ locations worldwide
with legal entities in
24 countries



Our Business Units





- o FY2023 Revenue: \$164.3 million
- Power grid and microwave tubes (EDG)
- Power management for 5G (PMG; started in 2014)
- In-house manufacturing and partnering with leading technology suppliers
- Global engineering and design support
- Key supplier to semiconductor industry



Green Energy Solutions (GES)

- o FY2023 Revenue: \$47.6 million
- Designs and manufactures key products for the fast-growing energy storage market and power management applications
- Leverages existing global infrastructure and expertise
- Products for numerous green energy applications such as wind, solar, hydrogen, EVs, and synthetic diamonds



Healthcare

- o FY2023 Revenue: \$11.4 million
- CT and MRI replacement tubes
- Diagnostic imaging replacement parts
- CT service training and technical support
- P3 Service Contracts for managing maintenance and repair costs
- State of the art manufacturing facility



Canvys

- o FY2023 Revenue: \$39.3 million
- Custom display solutions for healthcare, industrial, retail and transportation applications
- All-in-one computer display solutions
- Engineering design and support

A Legacy of Engineered Solutions A Future of Innovation



Power Grid Tubes



Ultracapacitors

CW Magnetrons



CT Replacement Tubes



Ignitrons & Thyratrons



Refurbished CT Systems



Microwave Generators



Custom OEM Displays



Pulse Magnetrons



All-In-One Computer Solutions



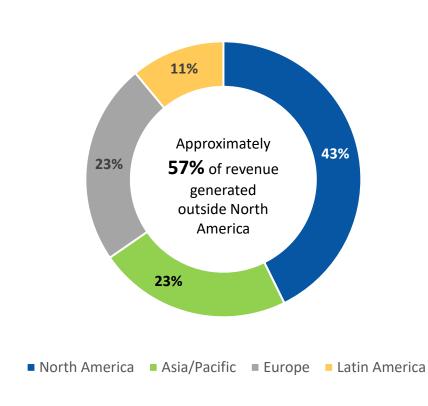


Investor Presentation

Local Service Supported Through Extensive Network of Over 60 Global Locations



FY2023 Full Year Sales by Geography



Sophisticated Global Infrastructure

- More than 60 sales offices & stocking locations
- Global field engineering support including over 75 RF,
 Microwave and CT engineers for leading technology suppliers
- Service and repair supported by local presence
- IT Infrastructure supports global visibility into real time inventory, quote and orders
- Information shared across organization to identify opportunities and facilitate design wins

Global Logistics and Supply Chain Capabilities

- Importer of record in 24 countries with international distribution hubs in North America, Asia, and Europe
- Shipment to any location worldwide in one to three business days
- Transactions in local language, and local currency
- Maximum flexibility including small quantity orders
- ECCN items flagged for export control

Strategy Supported by Strong Core Business, New Products and New Markets



Management has created a strategic plan focused on driving growth and creating sustainable value for shareholders



Growth supported by strong core business, 75+ years of engineering capabilities, and global platform



Strategy focused on leveraging core engineering capabilities to expand product lines into large, fast growing global markets



Global footprint supports customers and maintains strong strategic partnerships with leading manufacturers

New markets and applications support significant expansion to the Company's growth opportunities

Growth Opportunities and Focus:

Richardson's Strategy Aligned with Compelling Market Dynamics



Market

Market Driver / Update

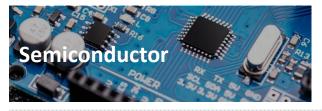
Richardson Opportunity



- Power management section of systems using distributive technology
- Growing markets that need new technology and products to support changing power management systems
- Developing patented technology for niche applications in niche markets
- Patented products for growth markets such as wind, solar, EV, generators, BMS modules, and ESS (energy storage systems)



- New applications are supporting growth in microwave tubes and magnetrons
- Examples include emerging markets such as synthetic diamonds, hydrogen, and building materials
- RELL is one of the few remaining tube manufacturers and engineering companies
- For example, RELL's 6KW magnetrons are being used for producing synthetic diamonds; replacement cycle every two years



- Semiconductor capex cycle expected to remain strong over the long term
- LAM Research, a RELL semiconductor customer, expects demand to return to growth in 2024
- Products support the global semiconductor wafer fab equipment market
- RELL well positioned for high mix/low volume production and engineering design and support



- Very few replacement options for CT tubes
- OEMs charge high prices for tubes and parts if hospital is not covered by expensive OEM service contract
- Helping customers improve efficiency and deliver better clinical outcomes while lowering the cost of healthcare delivery
- \$10 billion estimated global opportunity for aftermarket for diagnostic imaging parts and service

GES Product Roadmap SupportsLarge, Fast-Growing, and Global Opportunities



High double-digit year-over-year revenue growth target

Targeted 30-40% average GES gross margin



Pitch Energy Modules for Wind Turbines



Power Systems
For Materials
and Chemical
Markets



Power Modules For EV-Electric and Diesel Locomotives



Power Control
Systems
for Wind Turbines



Superstructures for EV-Electric Locomotives



Utility Scale Energy Storage Solutions

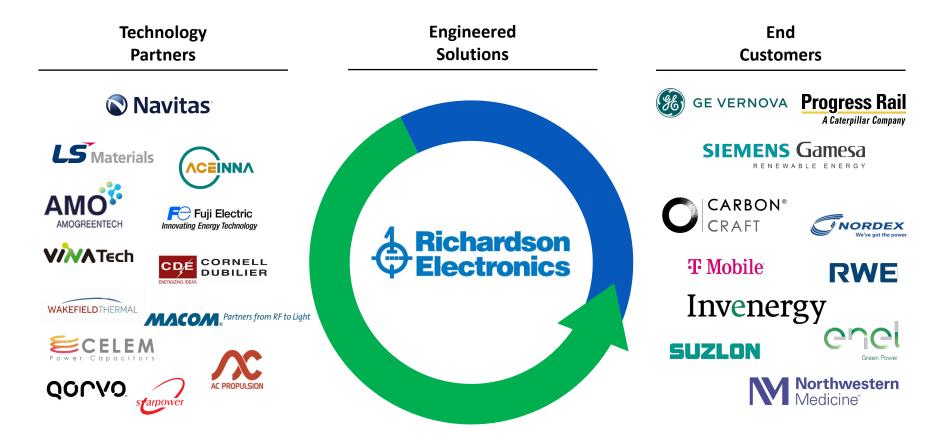
Applications In Production

Applications In Development

GES's strategy is to provide specialized technical expertise and engineered solutions using our core design engineering and manufacturing capabilities on a global basis

Unique Relationships with Technology Partners Deepens Customers Relationships





Strong relationships with global technology partners expands Richardson Electronics' sales and deepens customer relationships from components to Engineered Solutions

ULTRA3000® Case Study: New Product and Market Development



Customer Problem:

Wind turbine manufacturers and operators needed an environmentally friendly solution to extend the life of auxiliary power supplies for their Pitch Energy Modules

Richardson Electronics' Solutions:

Developed the first ultracapacitor-based plug-and-play replacement for batteries within wind turbine pitch systems









FY2021

PRODUCT DEVELOPED

- Leveraged experience in ultracapacitor technologies
- Worked with technology partners
- Created specifically for replacement market within wind turbine generators (WTG)
- Patented product with 30+ protected embodiments

FY2022

PRODUCT LAUNCHED

- Product from conception to > \$10 million in shipments and backorders in < 14 months
- Initial launch just for replacement product within existing GE WTG
- Over 40K modules shipped since product inception

FY2023+

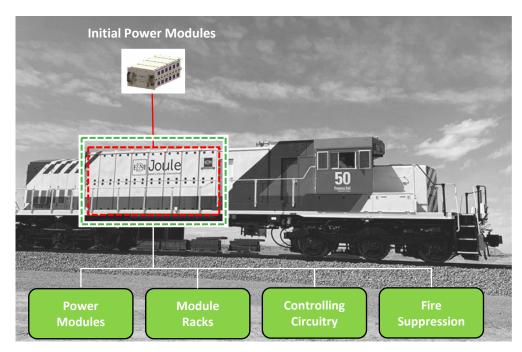
PRODUCT LINE AND MARKET EXPANSION

- Expanded market opportunity to serve multiple WTG manufacturers and operators
- Developed new ancillary products including the: UltraUPS3000, ULTRAPEMTM Multi-Brand Pitch Energy Module, and new Diagnostic and Voltage Reduction Tools
- IGBT/Silicon Carbide power modules

Progress Rail Case Study: Building Larger Customer Relationships



- Relationship with Progress Rail begins, and Richardson Electronics starts supplying IGBT power module design to Progress Rail in Brazil
- Richardson Electronics began working on a design development for battery management systems with Progress Rail Brazil
- Richardson Electronics works with Progress Rail in the U.S. to offer Engineered Solutions beyond initial scope
- Progress Rail selects Richardson
 Electronics to design and
 manufacturer superstructures
 for Progress Rail's Electric
 Locomotives in North America

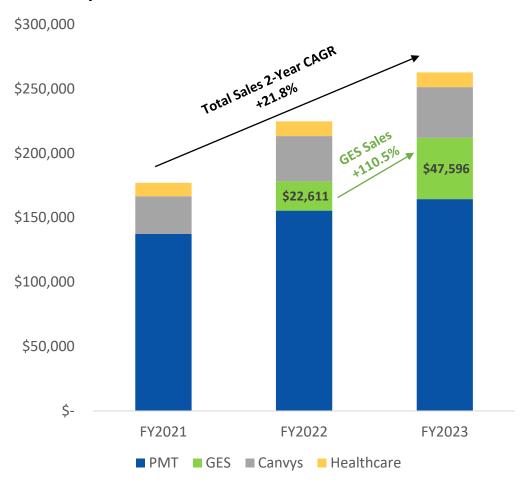


Relationship Expanded to Support Entire Superstructure

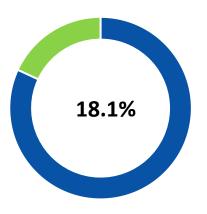
Successful GES Strategy has Accelerated Sales Growth



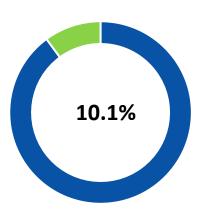
Components of Full Fiscal Year Sales Growth (000s)







FY2022 GES Sales Mix



Power & Microwave Technology (PMT) Opportunity



The leading provider of power and microwave components and related consumable parts

- Electron Device Group (EDG) which includes legacy tube business and semiconductor wafer fab
- Power and Microwave Group (PMG) which includes RF, wireless semiconductors, modules and power components
- Global provider of Engineered Solutions focusing on industrial tube manufacturing, microwave generators, power supplies and customer specific applications and assemblies
- o Highly specialized in demand creation for new technologies
- We partner with manufacturers of leading edge and disruptive technologies. These technologies drive the latest innovations for our customers.

Bringing key technologies and solutions to the world for power, microwave niche applications







Power Management

Semiconductor

Defense







Marine



Avionics



Scientific & Medical



Industrial

PMT Update

PMT Highlights

- Added new technology partners, expanding our ability to supply, support, and create new opportunities
- Power & Microwave Group (PMG) continues to have excellent sales growth related to the RF/wireless infrastructure business
- High growth in demand for Electron Device Group (EDG)

PMT Sales (\$ in 000s)

Fiscal 2023 Sales Up 5.7% YoY





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Healthcare Growth Opportunity



Richardson Healthcare provides OEM quality replacement parts and training to support in-house clinical engineering and third-party equipment maintenance companies.



Richardson Healthcare's CT Tube Programs provide exact form and function replacements for popular OEM CT scanners helping reduce healthcare costs by offering an alternative to higher cost OEM parts.



The Company has invested over \$35 million in its Healthcare SBU, creating a best-in-class, value-added CT Tube and CT refurbishment platform.



Richardson Healthcare first launched the ALTA750D in May 2018, followed by the ALTA750G in 2022, and expects to launch a Siemens repaired CT Tube Program in 2023.

\$10 billion estimated global opportunity for aftermarket diagnostic imaging parts and service

Healthcare Update

Healthcare Highlights

- Full year gross margins improved to 30.7% from 21.2% last year, due to productions variances stemming from enhanced operations and lower scrap costs.
- Tube reloading in Brazil and in the Americas creates new opportunities for Richardson Healthcare.
- The Straton Z tubes released into full production and performing well in the field.
- The Siemens MX series will launch in CY 2023.

Healthcare Sales (\$ in 000s)

Fiscal 2023 Sales Up 0.5% YoY





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Canvys Opportunity



Canvys is a global value-added integrator and manufacturer that specializes in creating comprehensive visual technology solutions for OEMs.



Canvys is focused on providing small run, smart displays for specialized applications - often for demanding environments.



Canvys brings together a deep understanding of visual technologies, wide-ranging capabilities and a worldwide network to create complete solutions for OEM customers.



Expertise manufacturing display sizes from 5" to 58", with custom enclosures, touchscreen integration, and all-in-one computer solutions.

2,000+ global blue-chip customers rely on Canvys to supply leading display solutions for their unique needs

Canvys Update

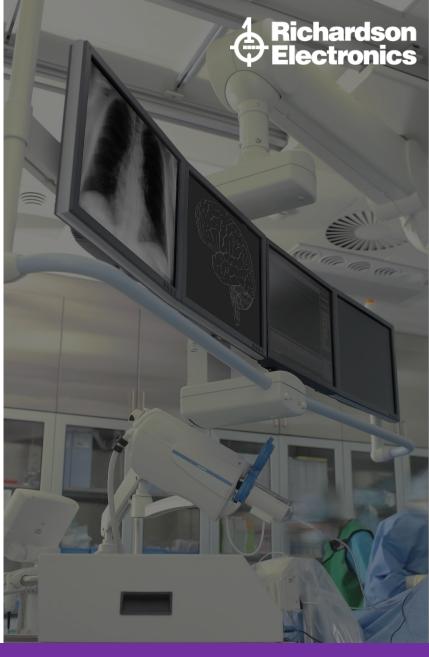
Canvys Highlights

- Demand for blue-chip medical and industrial OEM systems driving growth
- The 11.8% year-over-year increase was due to an increased demand globally, and the continued addition of new customers and programs
- A number of projects in the engineering stage, well positioned for continued growth
- Healthy backlog, which we expect to support strong sales throughout fiscal 2024

Canvys Sales (\$ in 000s)

Fiscal 2023 Sales Up 11.8% YoY

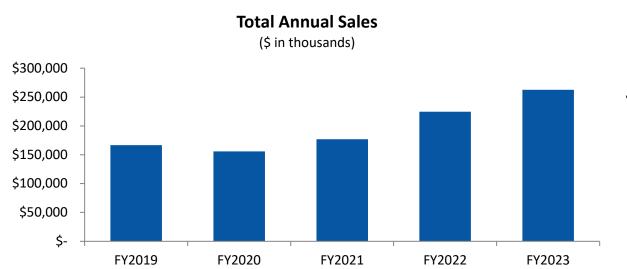




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Financial Results

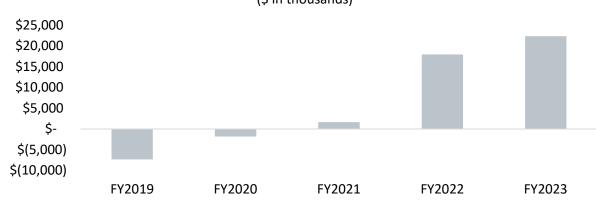




 Net sales for full year FY2023 increased to \$262.7 million, up 16.9% compared to net sales of \$224.6 million in the same period last year, due to positive year-over-year growth in each of the business segments.

Annual GAAP Net Income

(\$ in thousands)



- Full year FY2023 Net income improved 24.6% on a year-over-year basis as a result of higher sales, improved operating margin due to controlled operating expenses
- Operating income was \$25.0 million, or 9.5% of net sales for full year FY2023 as compared to \$16.0 million or 7.1% of net sales in the same period last year.

FY2023 Q4 Balance Sheet and Cash Flow



- Strong balance sheet with no debt, and \$25.0 million in cash and cash equivalents
- Allocated \$3.3 million of capital in FY2023 to support the company's regular cash dividend
- The Company continues to invest in working capital to support its growth initiatives across its four business units
- Most of the inventory increase was to support the growth in GES and other key growth initiatives
- Capital expenditures were \$7.4 million in FY2023 primarily related to investments in the Company's manufacturing business, and facility renovation

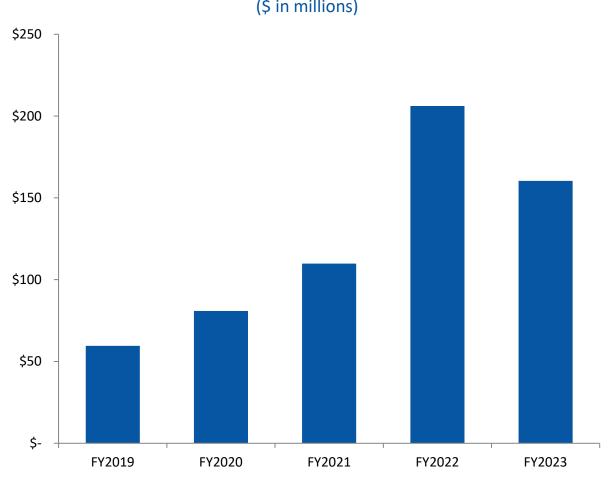
(\$s in 000s)	May 27, 2023	May 28, 2022
Cash and Cash Equivalents and Investments	\$24,981	\$40,495
Accounts Receivable	\$30,067	\$29,878
Inventories, net	\$110,402	\$80,390
Total Assets	\$198,048	\$179,819
Total Debt	\$0	\$0
Total Liabilities	\$38,728	\$43,972
Shareholders' Equity	\$159,320	\$135,847

Outlook









- Total backlog at the end of FY2023 was \$160.4 million versus and \$206.2 million at the end of FY2022, and \$59.5 million in FY2019 prepandemic.
- **Backlog has leveled off from historic** post-pandemic highs.



Green Energy Solutions ("GES")

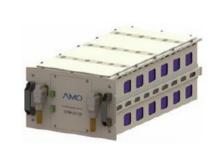


Strategic Business Unit Overview: GES

- Newest strategic business unit formed because of our exceptional growth in demand for green energy applications (sales previously including in PMT segment)
- Green solutions is key to our long-term growth strategy
- Rapidly expanding line of energy storage products for various green energy applications, and we plan to announce several new products in the second half of FY23
- Capitalizing on emerging markets trends through the combination of key technology partners and our engineered solutions capabilities, while leveraging our existing global infrastructure

Product and Services Highlights

Battery Modules and Superstructure for EV Locomotives





Applications & Markets

- Wind
- Solar
- Power Management
- Synthetic diamond
- Electric Vehicles
- Hydrogen
- Battery Chargers for EV and Industrial

Select Customers





YJ1600



ULTRA3000®



Power and Microwave Technologies ("PMT")



Strategic Business Unit Overview: PMT

- The leading distributor of power grid and microwave tubes and related consumable parts (EDG Group)
- Power and Microwave Group (PMG) brings key semiconductor active and passive technologies for RF, wireless, and microwave niche applications
- Partnering with manufacturers of leading edge and disruptive technologies to drive the latest innovations for customers
- Organic growth focused on product line expansion, leveraging 20,000+ global customer relationships, and manufacturing growing resources and capabilities
- Additional growth opportunities supported by partnerships and potential acquisitions

Applications

- SATCOM
- CO2 laser cutting
- Diagnostic imaging
- Dielectric/induction heating
- High energy transfer
- High voltage switching
- Plasma
- Power conversion
- Radar
- Microwave

Markets

- 5G
- Aviation
- Broadcast
- Communications
- Industrial
- Marine
- Medical
- Military
- Semiconductor

Product and Services Highlights

EDG Products





RF & Microwave Products







Richardson Healthcare



Strategic Business Unit Overview: Healthcare

- Richardson Healthcare helps lower the cost of healthcare delivery with high value parts, upgrades and training solutions for hospitals and third-party service providers
- Healthcare manufactures, repairs, refurbishes and distributes high value replacement parts and equipment for the healthcare market
- Customers include hospitals, medical centers, asset management companies, independent service organizations and multi-vendor service providers

Product and Services Highlights

CT Tubes



Parts



Supported Brands

- Canon (Toshiba)
- Siemens
- Hologic
- Richardson Healthcare
- GE
- Philips

Select Customers



















Refurbished CT Systems



Training and Service



Canvys



Strategic Business Unit Overview: Canvys

- Canvys develops custom display and All-In-One computer solutions for Original Equipment Manufacturers (OEMs). We evaluate each customer's unique needs and craft the right solution
- Key capabilities supported by local collaborative approach with customers, compliance with medical device regulation, and global logistics capabilities
- ISO certification provides products that comply with the most demanding quality standards throughout the entire delivery process
- Manufacturing fully customized displays that pair revolutionary technologies with solutions for individual customer needs

Product Highlights

5" to 58" Custom Displays







Applications

- Air Traffic Control
- Broadcast
- Dental Care Units
- Endoscopy Systems
- Food Industry
- Manufacturing
- Medical Navigation
- Ophthalmology
- Robotics
- Transportation
- Vending Machines / Kiosks

Select Customers

We sell to 7 of the top 10 medical device companies worldwide.

All-in-One Computer Solutions

