Richardson Electronics Investor Site Visit

August 22, 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.



Agenda



9:30 - 10:30 a.m.

Welcome—Wendy Diddell
FY23 at a Glance—Ed Richardson
SBU FY23/FY24—Wendy Diddell
and Greg Peloquin



10:30 a.m. – Noon

Tour



Noon – 1:30 p.m.

Lunch with Q&A Wrap Up

Management Introductions

Edward Richardson, CEO

Wendy Diddell, COO

Robert (Bob) Ben, CFO

Greg Peloquin, EVP and GM, PMT

Greg Kinney, SVP, LaFox Operations

Dan Erickson, Director, Richardson Healthcare

Brian Gumino, New Product Design Engineering Manager

John Curran, New Product Design Engineering Manager

Jeremy Wilks, Senior Business Unit Manager

Jeffrey Kerner, Senior Business Unit Manager

Angela Churchill, Executive Administrator

Andrew Berger, SM Berger & Company

VISION

To make our world a better, more sustainable place by providing innovative technology solutions.

MISSION

We provide solutions that improve our world through innovative engineering and manufacturing in collaboration with our employees, customers and technology partners.



- We are a diverse family; we take care of our people.
- We focus on long term viability for our company, our community and our world.
- Every interaction is important and deserving of respect.
- We believe in hard work, reward, and the determination to succeed.







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

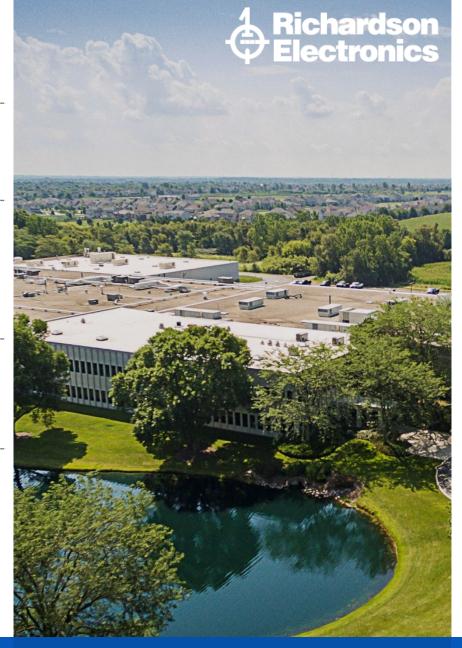
Over 20,000 worldwide

OEM and end-user

customers

Headquarters: **LaFox**, **Illinois**

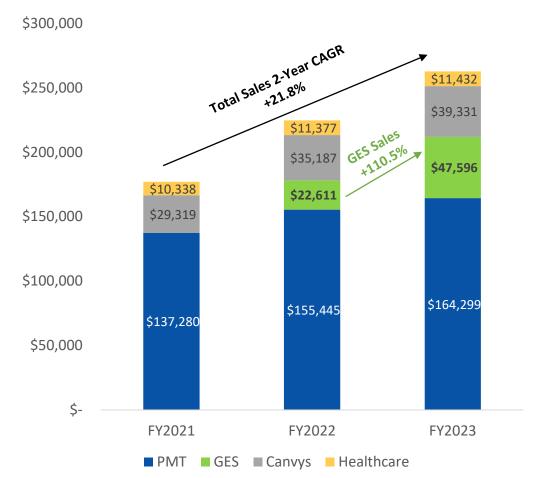
RELL is Global
60+ locations worldwide
with legal entities in
24 countries



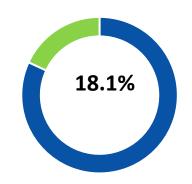
Successful GES Strategy has Accelerated Sales Growth



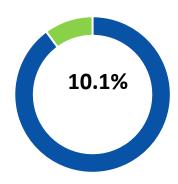
Components of Full Fiscal Year Sales Growth (000s)







FY2022 GES Sales Mix as a % of Total Sales



Health of the Business-FY24

- Following long-term strategy focused on diversifying sales to high-growth, high-margin opportunities supported by large, fast growing niche markets and applications
 - Growing diversity of sales by product, application, and geography since the pandemic will help offset the impacts of challenging semiconductor wafer fab market
- We expect softer sales in the first half of fiscal 2024 due to timing of project-based orders and fluid economic environment
- Near-term strategies are focused on supporting gross margin, controlling expenses, managing inventory, and conserving cash, while continuing to support long-term growth opportunities
- We remain optimistic about the back half of fiscal year 2024 based on customer demand for recently launched products, new technology partners, and new engineered solutions
 - Green Energy Solutions—existing programs + new projects and products
 - ULTRA3000® and ULTRAPEM Multi-Brand Pitch Energy Module
 - ULTRAUPS3000
 - Battery Start Modules, Battery Management Systems, and Superstructures for EV locomotives
 - YJ1600 for Diamond Manufacturing
- We expect Healthcare profitability to improve with the launch of repaired Siemens tubes
- Ongoing strength in Canvys, our display market with more than 80% of sales from blue-chip medical OEMs
- We continue to believe that we are well positioned to capitalize on significant long-term opportunities associated with demand for our GES solutions to deliver sustainable annual sales growth

Strategic Business Unit Update FY23 Highlights and FY24 Initiatives









Healthcare FY23 Highlights

- Sales are flat compared to prior year, but net loss <u>reduced</u> to \$3 million versus \$5.5 million in FY22
- Ongoing sales of CT parts, tubes and systems—primarily Canon
- Margin improved
- SG&A below prior year
- Launched the Straton Z, the first in the Siemens repaired tube program



Healthcare





Healthcare FY24 Initiatives

- Achieve break-even point by Q4, FY24
- Increase sales of Canon parts, tubes and systems
 - P3 Programs
 - Capped Spend Programs
- Generate Sales of Straton Z
- Launch of repaired Siemens MX, MXP and MXP 46 end of CY2023
- Maintain full production with reduced scrap to improve gross margin
- Continuous improvement to reduce cost to manufacture
- Maintain SG&A
- Convert inventory to cash





Canvys FY23 Highlights

- Canvys Q4 revenue grew by 11.8% in FY23
- SG&A lower than budgeted
- Very solid Backlog of almost \$47 million!
- Many new blue chip customer wins









Canvys FY24 Initiatives

- Promote brand through Newsletters, Press Releases,
 Social Media Posts, and tweaking Google-Ads to efficiently build
 Online Awareness
- Increase travel activities / trade show participation
- Focus on targeting new customers and projects to lay the groundwork for future business opportunities
- Reduce Inventory



























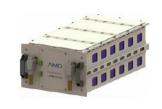


















Launch of Green Energy Solutions (GES)

- Power & Microwave
 Technology (PMT)
- In Q1 FY23, we launched GES to give both PMT and GES more focus to make key decisions on investments and opportunities.
- This created two new SBUs with more focus on key opportunities for growth.
- PMT focuses on <u>RF & Microwave</u> applications, products, customers, and markets.
- GES focuses on <u>Green Energy & Power Management</u> applications, products, customers, and markets.

Power & Microwave Technologies (PMT)

Power & Microwave Technology (PMT)

- RF & Microwave
 - Applications
 - Industrial RF
 - Broadcast
 - Cellular
 - Satcom
 - Radar
 - Communications
 - Products
 - SiRF Matching Networks
 - RF / Microwave Transistors, ICs and amplifiers
 - RF & Microwave Tubes
 - Microwave Components
 - Microwave Generators

Power & Microwave Technologies (PMT)

- RF & Microwave (continued)
 - Technology
 - Electron Devices
 - Semiconductor technologies
 - GaN
 - SiC
 - SiGe
 - CMOS
 - GaAs
 - Technology Partners
 - Thales
- THALES

CPI

- Qorvo
- Partners from RF to Light
- MACOM
- Anokiwave Mokiwave





PMT FY23 Highlights



- PMT sales grew 5.7% in FY23 to \$164.3M
- Improved profitability with topline growth
- Continued to add new technology partners
- Continued to grow market share by adding new customers and increasing market share with existing customers and new applications

PMT FY24 Initiatives



- Continue to focus on niche RF & Microwave applications
- Continue to develop portfolio of key technology partners with disruptive technology
- Continue to increase market share at key customers and key markets such as Semi-Wafer Fab, SATCOM, and 5G infrastructure
- Continue development of new products and technologies
 - SiC (Silicon Carbide)
 - GaN (Gallium Nitride)
 - Microwave Generators
 - 915MHz & 2.4 GHz

Green Energy Solutions (GES)

Green Energy Solutions

- Power Management Applications
- Green Energy Customers/Applications
- Applications
 - Wind Turbines
 - Solar
 - EV Locomotives
 - Electric Vehicles
 - EV Chargers
 - Inverters
- Products
 - ULTRA3000®
 - ULTRAUPS
 - ULTRAPEM Multi-Brand
 - ULTRAGEN3000 Starter Modules
 - Power semiconductors and modules including IGBTs, MOSFETs



Green Energy Solutions (GES)

- Green Energy Solutions (continued)
 - Technology
 - Ultracapacitors & modules
 - LiFePO4 batteries and systems
 - IGBTs
 - SiC
 - GaN
 - Technology Partners
 - LS Materials
 - AMOGREENTECH
 - VINATech
 - Navitas
 - Fuji Semiconductor













GES FY23 Highlights



- **GES** sales grew 110% in FY23 to \$47.6M
- Improved profitability with topline growth each quarter
- Continued to add new technology partners
- Continued designing and developing new products and developed very successful new product introduction (NPI) program
 - Used unique model of technology partner agreements, engineered solutions, and global reach

GES FY23 Highlights—Press Releases



- Richardson Electronics, Ltd. Announces New Patent Pending Shunt Resistor Accessory For ULTRA3000° Pitch Energy Module
- Richardson Electronics, Ltd. Participating In WindEnergy Hamburg 2022
- Richardson Electronics, Ltd. Announces New Patent Pending ULTRAVOLTAGE3000 - A Voltage Discharge Device For Ultracapacitors
- Richardson Electronics Ltd. Receives Third Patent for a Pitch Energy System for Wind Turbines
- Richardson Electronics, Ltd. Strengthens Power Management Portfolio in the Americas with Navitas Semiconductor
- VINATech Joins Richardson Electronics, Ltd. Portfolio of Technology Partners

- Richardson Electronics, Ltd. Announces New ULTRAPEMTM Series of Pitch Energy Modules for Wind Turbines
- Pending Hybrid Ultracapacitor UPS System for Wind Turbines and Other Power Management Systems
- Richardson Electronics' Patented ULTRA3000® Selected by GE Vernova as the Exclusive Pitch Energy Module Available on their Expanded Product Marketplace

GES FY24 Initiatives



- Continue to gain ULTRA3000® market share with over 40,000 units in the field
- Expedite the launch of new products
- Continue to increase market share at current customers and in key markets
- Continue to identify key markets and niche applications with new products
- Improve profitability with topline growth

















PMT/GES Product Showcase

















ULTRA3000®



Features

- Multiple Patents
- Form, fit, and function installation
- Over 2M hours in proven field installation
- Designed, manufactured, and supported in USA

Key Customers

- Invenergy Invenergy
- Siemens **SIEMENS**
- GE
- Enel
- RWE
- Network of Tier 2 customers

Benefits

- Improved turbine reliability
- Reduced operation & maintenance cost
- Eliminates hazardous lead acid batteries
- Lifetime of 15 years

Market Applications

 Wind Turbine Pitch Energy Storage

ULTRAPEM - Multi-Brand Pitch Energy Module



Features

- Drop-in replacement for high voltage pitch systems
- Compatible with:
 - Suzlon
 - Senvion
 - SSB
 - Nordex Pitch Systems

Key Customers

- Siemens SIEMENS
- Suzlon
 - Senvion SIEMENS Gamesa
- Nordex
- NORDEX
- Network of Tier 2 We've got the power.

Benefits

- Improved turbine reliability
- Reduced operation & maintenance cost
- Eliminates hazardous lead acid batteries
- Lifetime of 15 years

Market Applications

 Wind Turbine Pitch Energy Storage

ULTRAUPS3000



Features

- Patent-Pending
- Ultracapacitor based UPS for industrial and IT applications
- Form, fit, and function installation
- 1 million charge/discharge cycles vs lead-acid with only 20k charge/discharge cycles

Key Customers

- Siemens
 - emens **SIEMENS**
- Invenergy
- Invenergy
- Enel

Green Power

- RWE
- GE Wind Turbine Owner Operators

Benefits

- 100% power conversion no switching time
- True low voltage ride through so turbine will not have to be shut down
- Lifetime of 15 years
- Future scalability

Market Applications

- Wind Turbine Generators (WTG)
- Servers
- Hospitals
- Critical Facilities



Voltage Reduction Tool (VRT)



Features

- Patent-Pending
- Fast Discharge of Ultracapacitor modules
- Measures ESR/Life of ultracapacitors
- Needed to comply with NFPA 70E Section 360

Key Customers

- Invenergy Invenergy
- Enel
 - RWE
- Network of Tier 2 customers
- Any customer using ultracapacitors for PEMs & any customer using ultracapacitors up to 18V operation

Benefits

- Designed for working safely in cabinets containing stored energy using ultracapacitors
- Resolved NextEra's issues with Maxwell product

Market Applications

 Compatible with all manufacturers' ultracapacitor energy storage modules up to 18V

Pitch Energy Module Shunt



Features

- Patent-Pending
- Robust Drop-In Replacement for GE Style Shunts
- Greater thermal Mass for increased current and heat dissipation
- Reduced failures in short circuited pitch motor scenarios

Key Customers

- Invenergy Invenergy
- Enel
- Gree
- RWE
- Network of Tier 2 customers
- All GE wind turbines worldwide



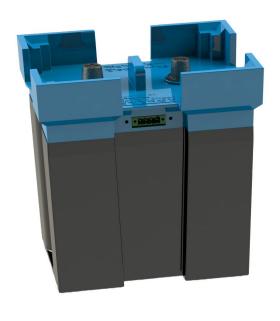
Benefits

- Increases market share at current customers.
- Solves long term issues
- Works with batteries or ultracapacitor systems
- Design patent filed

Market Applications

- Wind Turbine Pitch Energy Storage
- Used in all GE wind turbines

ULTRAGEN3000



Features

- **Patent-Pending**
- Drop-in replacement for lead acid batteries
- Remote monitoring capabilities
- No hazardous chemicals

Benefits

- Eliminates hazardous lead acid batteries
- Jump start compatible
- Lifetime of 15 years

Key Customers

- Verizon
- T-Mobile
- Northwestern Medical
- Carrier
- **Data Centers**









Market Applications

- Wireless Infrastructure
- **Critical Facilities**
- **Data Centers**
- Wind Farms

Hybrid Starter Modules



Features

- Ultracapacitor technology
- Replaces lead-acid batteries

Key Customers

 Large diesel and electric locomotive manufacturers

Benefits

 Can be used in electric & diesel locomotives

Market Applications

Electric & diesel locomotives

Electric Locomotives

Features

- Replaces Diesel Electric Engine by purely electric
- Dynamic Braking (Regenerative)
- 2.4MWh & 14MWh energy

Key Customers

- Long Island Railway
- Union Pacific
- Burlington Northern & Santa Fe Railway (BNSF)
- Rio Tinto (Australia)
- All <u>Cargo</u> Rail customers

Benefits

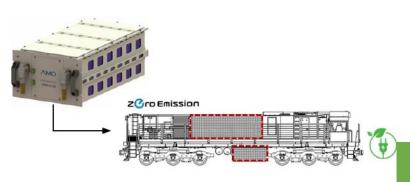
- 100% power conversion
- 100% zero emissions
- Saving fuel and reducing emissions (decarbonization efforts)
- Silent and less maintenance

Market Applications

- Electric Rail
- Mining

RioTinto

- Construction
- Mainline or long-haul service
- Diesel Locomotive Starting replacing lead-acid batteries



YJ1600



Features

- High Efficiency
- Compact size and light weight
- Quick start
- Easy power controlling

Key Customers

Carbon Craft

- C | CARBON® | CRAFT
- Bhathwari Technologies
- Sairem

- **palren**
- Network of Tier 2 customers

Benefits

- Long operating life
- Accurate output power control & stabilization
- Integrated magnet structure eliminating costly additional components

Market Applications

- Industrial Heating
- PECVD (lab grown diamond)
- Plasma

SiRF (Single-Ended RF Matching Network)





Features

- Mixes 13.56 MHz and 400 kHz
- Both static and dynamic operation
- Allows the customer to strike a constant plasma on their tool to clean out the etch or deposition chamber

Key Customer

- LAM Research
- MKS
- Talus Manufacturing





Benefits

- Configurable Designs for different power levels
- Starting to build motorized dynamic systems
- We work with the customer to increase power levels and improve components

Market Applications

- RF Power Conditioning
- RF Matching

Group Tours



Lunch and Q&A

Final Thoughts

- We continue to gain market share with new customers, exclusive supplier agreements, new products and our growing list of patents.
- We are more optimistic than ever about the future of Richardson Electronics, as a result of the success of our product and geographic growth strategies, strong balance sheet, and deep customer and supplier relationships.
- The first half will be softer than anticipated.
- There are certain macro and timing related variables that make it difficult to forecast beyond the next couple of quarters, but we expect our long-term growth strategies to produce sustainable annual growth.
- We continue to invest and position the business for tomorrow.
- It's not a matter of IF, but WHEN!

