Driving the Energy Transition with Intelligent Electrification

Corporate Presentation

Q1 2023



OPTIMIZING POWER

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Exro Overview

Visibility into the company and why it matters



Bringing advanced technology solutions to optimize electrification

Power Electronics Expertise



What We Do

Deliver next generation power control technology that expands the capabilities of electric motors and batteries enabling e-mobility and energy storage applications to deliver more with less "minimum energy – maximum results"

Proprietary technologies:

- → Coil Driver™
- → Cell Driver™
- → Battery Control System™
- → 40+ issued and pending patents
- 100+ employees

Public company in US & Canada

- \rightarrow TSX: EXRO
- \rightarrow OTCQB: EXROF

Power electronics technology platforms for e-mobility and energy storage



Software and electronics R&D, design, and manufacturing

- → Currently piloting with partners such as Linamar, Sea Electric, Vicinity, Zero
- → Demo units on road since Q1 2022 on three continents
- → Targeting net-zero manufacturing
- \rightarrow 2023 production launch



Investment Highlights

Accelerating the transition to clean energy by solving the most challenging problems in electrification

Innovative solutions that address major challenges to the electrification transition in mobility & energy storage

Scalable inverter technology co-developed with diverse industry partners

Macro sustainability

tailwinds driving growth in multiple addressable markets

Positioned for significant value realization and growth with commercialization in 2023 Significant upside through continued focus on innovation into e-transition market verticals



Capital Structure

Clean structure provides strong foundation for growth



Basic shares outstanding	135,148,864
Stock options outstanding	10,802,217
Warrants outstanding	7,697,922
Fully-diluted shares outstanding	153,649,003
TSX: EXRO OTC: EXROF	

Capitalization table numbers as of July 2022

* Exro has received letter of acceptance to list on Nasdaq. Committed to completing the listing at an opportune time for shareholders.



Our Core Technology

The Exro ecosystem



Building the Exro ecosystem with end-to-end solutions – from design to repurpose



Our Core Technology

Bridging the electrification gap with power electronics expertise

MOTOR CONTROL

Exro Coil Driver[™] brings electric gearing to EVs by enabling multiple speed-torque combinations in a single motor with Coil Switching technology

- \rightarrow Enable greater flexibility for optimizing powertrain solution
- \rightarrow Suitable for multiple motor designs and integrated axle designs (E-axles)
- \rightarrow Scalable motor controllers from 48 to 800V+
- ightarrow HV coil driver utilizing SiC technology
- \rightarrow Agnostic to energy supply and motor type

BATTERY CONTROL

Exro Battery Control System extends batteries into a second life by enabling next-generation battery management with cell-level control

- → Stationary Energy Storage solutions for commercial and industrial applications
- ightarrow Unique cell-level control ensures unparalleled safety and up-time
- \rightarrow Suitable for solar and EV charging applications
- → First or second life battery energy storage systems

POWERTRAIN OPTIMIZATION

Exro Vehicle Systems (EVS) offers full engineering services capabilities. In house design and power electronics expertise provide optimum efficiency designs

- → Full Engineering Design Services to develop next generation cost saving power train designs
- → Co-development platform design to customize inverter controls that reduce reliance on multiple motors and/or gearboxes
- ightarrow Optimize battery usage
- \rightarrow Licencing opportunities available



Exro Motor Control Solution

The World's First Intelligent Coil-Switching Drive

Exro Coil Driver™

Unique coil-switching technology optimizes the performance and efficiency of powertrains and other systems including electric motors and batteries

- → **De-risked** technology that accelerates the transition toward electrification in mobility by solving performance-cost trade-offs
 - \rightarrow Expanded motor capabilities
 - \rightarrow Electric gearing
 - ightarrow Scalable and cost-efficient performance
- → Gold award winner for the 2022 Edison Best New Product Awards[™] in manufacturing, logistics and transportation
- \rightarrow 2022 Illuminations Award winner for Business Innovation from the National Electrical Manufacturers Association

Exro Coil Driver™ is motor type agnostic



How it Works

Coil Driver™: Not a standard 3 phase inverter



Traditional OEMs needed to make a choice

- \rightarrow Two separate modes, two separate motors
 - \rightarrow Series mode = high torque applications
 - \rightarrow Parallel mode = high speed applications
- \rightarrow Left a gap to fill for performance

COIL DRIVER TORQUE CHART



Electric drives are now transforming for EVs

- \rightarrow Coil Driver brings a next-generation of power electronics that fills the gap
- \rightarrow Electric drive technology are differentiators for EVs
- \rightarrow Now one inverter can do the job of two



Why it Matters

Significant Value Proposition for E-Mobility Market

Increase performance by up to 50% with minimal system cost increase

Algorithm performs real-time optimization

ONO

Reduce system cost by up to more than 15% while maintaining same performance

Speed Torque Power

Performance

Energy Consumption Weight Cost

Total cost of ownership.

Heavy-duty urban dynamometer driving schedule.

*Potential based on similar application in HD-UDDS drive cycle

OPTIMIZING POWER

De-Risked Product Development

Functional demonstration vehicles plus pilots in vehicles on three continents



Simulation • Product Testing • On-Road Validation

Vehicle demonstrators provide insight into how these EVs can outperform their equivalents, simply by adding Exro technology inside



Driven by Disciplined Innovation

Minimum energy for maximum results



What we have done

- \rightarrow Enhanced performance at high speed, better start ability and gradeability at low speed
- \rightarrow Improved operational efficiency & extended range
- \rightarrow Motor and energy supply agnostic, adaptable across mobility applications
- \rightarrow Scalable technology developed systems from 48V–20 KW to 800V–1.3 MW

Where we are going





Coil Driver™ Supports AC Fast Charging and V2X Capabilities

Unlocks attractive fleet electrification economics



BENEFITS FOR OEMS AND AUTOMOTIVE MANUFACTURERS

- → Native technology can deliver up to level 4 fast charging capabilities and capable of V2X ⁽²⁾
- ightarrow Eliminates need for motor drive and on-board charger
- → AC vs. DC significantly reduces environmental impact due to smaller infrastructure foot-print

BENEFITS FOR EV FLEET AND CHARGING OPERATORS

- → Materially reduces TCO for fleet operators
- $\rightarrow\,$ Unlocks access to AC fast charging network meeting larger per-mile energy demands of E-MHDV $^{(1)}$
- $\rightarrow\,$ V2X capability has potential to further reduce TCO by transforming EV fleet into revenue-generative asset



Notes:

MHDV = Medium- & Heavy-Duty Vehicles.

V2X: vehicle to everything.

Exro Energy

Safer, more efficient battery energy storage systems

Exro Battery Control System (BCS)

Unique technology that establishes greater depth of control in managing to the cell level in a battery for first & second life applications including commercial & industrial buildings, solar/wind farms, etc.

- \rightarrow BCS enables a next generation of Energy Storage System (ESS) solutions for EV batteries
- \rightarrow Exro's unique BCS extends batteries into second life for an extra 5-10 years in an ESS application
- \rightarrow Leader in thermal management & runaway
 - ightarrow BCS connects electronics to individual battery cells
- \rightarrow Enables greater use of existing resources and recycling to promote a circular economy
- \rightarrow On track for UL Certification in Q2 2023





Exro battery control is battery type agnostic

Exro's Technology Advantages



CELL LEVEL CONTROL

- ightarrow Enhanced safety with individual cell monitoring
- \rightarrow Full cell control with ability to adjust current per cell
- \rightarrow Increased depth of discharge
- \rightarrow Negate cell balancing circuits and traditional BMS
- \rightarrow Dynamically isolate defect cells or modules while operating ESS

MODULAR SYSTEM ARCHITECTURE

- → Reduce system maintenance and down-time in case of failure with quick modular replacement
- \rightarrow Minimal installation time

Design ready for 2nd life cell utilization = significant cost benefit



Powertrain Optimization

Exro Vehicle Systems (EVS), Ann Arbor, MI

- \rightarrow EVS provides critical electric vehicle integration support and provides a platform to onboard clients early in the design
- → Secured purchase order from a leading tier-1 automotive supplier to provide more than \$1 Million in engineering design and consulting services



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Pictured: Exro functional demonstration vehicles
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CONSULTING

Market analysis, systems architecture definition, component selection, safety-critical analysis, strategic sourcing

ENGINEERING

System definition, detailed engineering design & development, verification & validation of electrified power systems, production software systems

TESTING

Relevant capital equipment available to test electronics, software, batteries and vehicles

Packaged system solutions from a variety of top supplier and preferred partners



Outlook

Market Strategy | Our Capabilities | Our People



Large TAM Opportunity Supported by Secular Tailwinds

Exro's Coil Driver and BCS are positioned to capture rapidly expanding use case markets



Exro's propulsion-agnostic design significantly increases its market opportunity across all e-mobility classes



Notes:

- Bloomberg NEF Electric Vehicle Outlook 2022.
- Bloomberg NEF Global Energy Storage Market 2022.
- HDV: Heavy–Duty Vehicles; MDV: Medium–Duty Vehicles; LDV: Light–Duty Vehicles.

A Systematic Go-to-Market Strategy

Roadmap to capitalize on a rapidly growing and changing electrification ecosystem



Attack Market in Waves

Roadmap to grow market share and unlock shareholder value





Targeted Market Penetration

- → Positioned to evolve and engage alongside the electrification of transportation regardless of propulsion technology market direction
- → Technology is highly adaptable and will optimize a wide range of e-mobility applications
- \rightarrow Next generation platform of power electronic solutions for multiple applications

Motor and propulsion agnostic technology to capitalize on electrification trends and drive Exro's growth

Current & Potential Partners



Mass Production Through Partnerships



- \rightarrow Major Tier 1 supplier to global OEMs
- \rightarrow 26,000+ employees across 60+ global facilities
- \rightarrow C\$6.5B 2021 revenue
- → June 2021: announced partnership to co-develop a lower cost/ higher performance eAxle using Exro's Coil Driver™ technology
- \rightarrow Technology developed has a wide range of potential EV applications



Product	Coil Driver™ eAxle for medium-duty commercial vehicles
Timing	 → Finalization of testing and validation of prototypes expected in 2022 → Following testing, Exro and Linamar plan to commercialize the Coil Driver[™] eAxle into series production → Delivery of prototypes: completion of phase 1 with the delivery of prototypes in November 2022
Sales/ Volume	First revenue expected in 2023/ 2024



Offering Diversification

Functional demonstration units and working models. Electrification Applications.



Fully functional demonstration units provide Exro customers the ability to experience

top-end performance impacts across a range of applications



Notes:

 Proof of concepts or pilots, CD charger needs to show as HV only.

Customer Momentum Building

Recent Coil Driver™ purchase order announcements backed by multiyear supply agreements (MSA)

VICINITY LIGHTNING E-BUS



Initial PO backed by MSA for up to 2,500 high-voltage Coil Drive Systems over a 36-month term EVTS FIREFLY ESV



Initial PO for a first lot of 1,000 low-voltage Coil Drive Systems with additional units over a 36-month term SEA ELECTRIC F59 DELIVERY VAN

MAJOR EUROPEAN NDA PARTNER



Initial PO backed by MSA for minimum of 1,500 highvoltage Coil Drive Systems over a 36-month term; Onroad pilot as early as Nov 2022

New product development incorporating Coil-Driver to introduce a hybrid dieselelectric powertrain for offhighway application; Initial samples in Q1 2023

Fully executed these MSA's would equate to >US\$100 M in revenue and <20% of annual production capacity



Our Capabilities



Manufacturing Center

CALGARY, AB, CANADA

- → World-class automated manufacturing facility with functional safety team
- → Automated assembly processes with minimal operator intervention
- \rightarrow Complete clean room with SMT line(s)
- \rightarrow Commissioned by end of 2022
- → Launch of commercial/ nonauto production Q3 2023
- → Automotive certified by end of 2024 (post 12 months of production)
- ightarrow 37,000 ft²



Innovation Center

CALGARY, AB, CANADA

- → Advanced Power Electronics design
- → Full product development with validation and sample assembly
- → Medium & small dyno testing capacity
- \rightarrow Dedicated engineering team of 35+
- \rightarrow 15,000 ft²



Innovation Center

PHOENIX, AZ, USA

- →Advanced Power Electronics and Energy Storage design
- → Full product development with validation and sample assembly
- \rightarrow HQ for Energy Storage
- \rightarrow Medium dyno testing bay
- \rightarrow Product demonstration center for USA
- ightarrow 15,000 ft²



Exro Vehicle Systems

ANN ARBOR, MI, USA

- → Provides vehicle integration solutions for automakers pursuing electrification, including end-to-end electric vehicle design and engineering services
- → Focuses on complete powertrain designs that integrate Exro's core technology with vehicle powertrains including embedded software, Vehicle Control Units (VCUs) and batteries

Exro's testing capabilities includes 4 dynos and 8,000+ hrs of in-house testing capabilities per annum



World-Class Manufacturing Center

Inverter facility near completion in Calgary, AB with net-zero targets

Ability to Supply

- \rightarrow Capacity of ~100,000 units/year
- \rightarrow Technical cleanliness
- \rightarrow Track and trace
- \rightarrow Class 10,000 clean room with SMT line(s)
- ightarrow Targeting net-zero building:
 - ightarrow solar power roof
 - ightarrow water conservation
 - ightarrow zero waste production





ISO 9001 Quality Management System **ISO 14001** Health & Safety

IATF 16949

ISO 45001 Environmental Management

ISO 26262 Automotive Functional Safety

Global Automotive Quality Management System



Comprehensive Intellectual Property Protection Program

Exro's patented control technology expands the capabilities of electric motors and batteries

40 PATENTS PUBLISHED AND PENDING

- ightarrow 25 issued patents and 15 pending applications
- ightarrow IP wholly owned in 13 patent families providing or seeking global protection in strategic countries
- ightarrow Global portfolio coverage including US, CA, CN, DE, DK, EP, FR, GB, HK, IN, IT, JP, SK
- ightarrow Trade secrets to protect proprietary software and algorithms

Managing Risks Through Well Defined Supply Chain Program

10+ Years of Relationship with Leading Suppliers

- \rightarrow Commitment to long-term partnerships with quality suppliers, which includes global Tier 1 OEMs
- \rightarrow Development partners lead to long-term partnerships with suppliers

Strong Demand Plan

- \rightarrow Production agility leading to scalability
- \rightarrow Early purchases for product development bear fruit for supplier relationships

Global Chip Shortage Mitigation Program

- ightarrow Secured major components for 2023 production
- ightarrow Supplier redundancy limits concentration risk and ensures timely sourcing





Environmental, Social, Governance

Committed to the highest standards

ENVIRONMENTAL

Environmental matters are at the core of Exro's operations and are embedded across the organization's activities

- → World class targeting net-zero automated manufacturing facility in Calgary, AB
- → Optimized energy efficiency, with all lights converted to LED format in its main facility
- → Responsible sourcing and procurement, with exclusive utilization of recyclable, renewable products in the workplace

SOCIAL

Exro fosters a cohesive and inclusive corporate culture, enabling positive social change

- → Manufacturing facilities ISO 9001, 14001 and 45001 certified, implementing safety best practices
- → Emphasis on gender equality and diversity, with an employee diversity target in place
- ightarrow 2022 net employee score of 90%+
- → Partnerships with leading global Tier I automotive suppliers to ensure sustainability integration across the supply chain
- → Involved in community support and charitable endeavors

GOVERNANCE

Rigorous and impactful governance is foundational to Exro's board and executive team mandates

- $\rightarrow\,$ Board Diversity, both in backgrounds, gender, and area of expertise
- → Business ethics underscored by robust internal policies and track record of the team
- → Comprehensive risk management oversight
- $\rightarrow\,$ Sound corporate governance, underpinned by diligent executive team

Management

Strong team in place to see Exro through accelerated growth



Sue Ozdemir Chief Executive Officer

- Former CEO of GE's Small Industrial Motors
- Division General Electric (NYSE: GE) ("GE").
- ightarrow \$160M revenue enterprise



John Meekison

Chief Financial Officer

- $\rightarrow~$ 20+ Years Experience as CFO in Capital and Small Cap Markets.
- $\rightarrow\,$ Previous Capital Experience- Haywood Securities



Josh Sobil Chief Commercial Officer

- → 10+ Years Experience in electric motors and power electronics as Siemens (NSEI: SIEMENS) segment leader from 2016-2019 and sales leader at GE (NYSE: GE)
- \rightarrow Mechanical Engineer & MBA



Eric Hustedt

Chief Technology Officer

- → 20+ Years Experience Automotive Inverter Design and Manufacturing
- \rightarrow International Rectifiers Automotive
- \rightarrow KSR International,
- \rightarrow Vishay Intertechnology (NYSE: VSH)



Darrell Bishop

Chief Investment Officer

- $\rightarrow~$ 10+ Years Experience in Investment Banking and Capital Markets
- $\rightarrow\,$ Previous Capital Experience Peters & Co Limited, Haywood Securities, National Bank
- ightarrow Mechanical Engineer & MBA



Board of Directors

Extensive automotive industry experience & connections



Mark Godsy

Executive Chairman → Co-Founder ID BioMedical

→ Co-Founder AngioTech Pharmaceuticals



Sue Ozdemir Chief Executive Officer



Frank Borowicz

Director

 $\rightarrow~$ 40+ years exp corporate governance, regulatory compliance and risk management



Jill Bodkin

- Director → Former Director at Westport (NASDAQ: WPRT)
- → Former Partner at E&Y



Rod Copes

Director

- $\rightarrow\,$ Former Chief Operating Officer at Rivian electric vehicles; Former division President at Harley-Davidson
- ightarrow 30+ years automotive executive



Terence Johnsson

Director

- $\rightarrow\;$ Former Vice President at Audi, Volkswagen, General Motors
- ightarrow 35+ years automotive sales experience



Investment Attributes

A unique high-growth technology opportunity in the electrification transition race

Innovative solutions that address major challenges to the electrification transition in emobility & energy storage

Scalable inverter technology co-developed with diverse industry partners Macro sustainability tailwinds driving growth in multiple addressable markets

Positioned for significant value realization and growth with commercialization in 2023 Significant upside through continued focus on innovation into e-transition market verticals

OPTIMIZING POWER

Thank you

Sue Ozdemir Chief Executive Officer

John Meekison Chief Financial Officer

Darrell Bishop Chief Investment Officer 12-21 Highfield Circle SE Calgary, AB, T2G 5N6 Canada

7853 E Ray Rd, Mesa, AZ 85212, USA

www.exro.com

@exrotech in f y 💌

Questions? ir@exro.com



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