

Performance Through Carbon Chemistry

The Power to Transform Enabling Energy Transition & Sustainability

Investor Presentation

April 2023

TSX: GRA OTCQX: NNXPF

FORWARD-LOOKING STATEMENTS

This presentation contains express or implied forward-looking statements, which are based on current expectations of management. These statements relate to, among other things, our expectations regarding management's plans, objectives, and strategies. All statements other than statements of historical fact could be considered forward-looking, including, but not limited to, any projections of financial information; any statements about historical results that may suggest trends in our business and results of operations; any statements of the plans, strategies and objectives of management for future operations, including the timing, funding and construction of planned manufacturing facilities and sales offices; any statements of expectation or belief regarding future events, potential markets or applications, the sizes of addressable markets, expected technology developments, strategic partnerships and collaborations, or enforceability of our intellectual property rights; any statements about the projected or expected economic or other benefits of our products compared to petroleum-derived equivalents, future sales and any statements of assumptions underlying any of the foregoing.

Forward-looking statements are subject to a number of risks, assumptions and uncertainties, many of which involve factors or circumstances that are beyond our control.

Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee that the events and circumstances reflected in the forward-looking statements will be achieved or occur and the timing of events and circumstances and actual results could differ materially from those projected in the forward-looking statements. Accordingly, you should not place undue reliance on these forward-looking statements. All such statements speak only as of the date made, and we undertake no obligation to update or revise publicly any forward-looking statements, whether as a result of new information, future events or otherwise.

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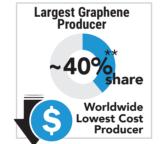
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NANOXPLORE AT A GLANCE



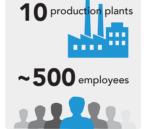




We pride ourselves on the quality & consistency of our branded powder

G.



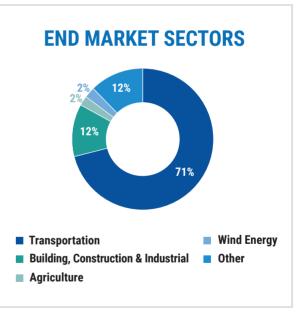


Strong IP portfolio & Know-how through vears of **R&D** development GRAPHENEBLACK[™] A Product of Nano×Plore





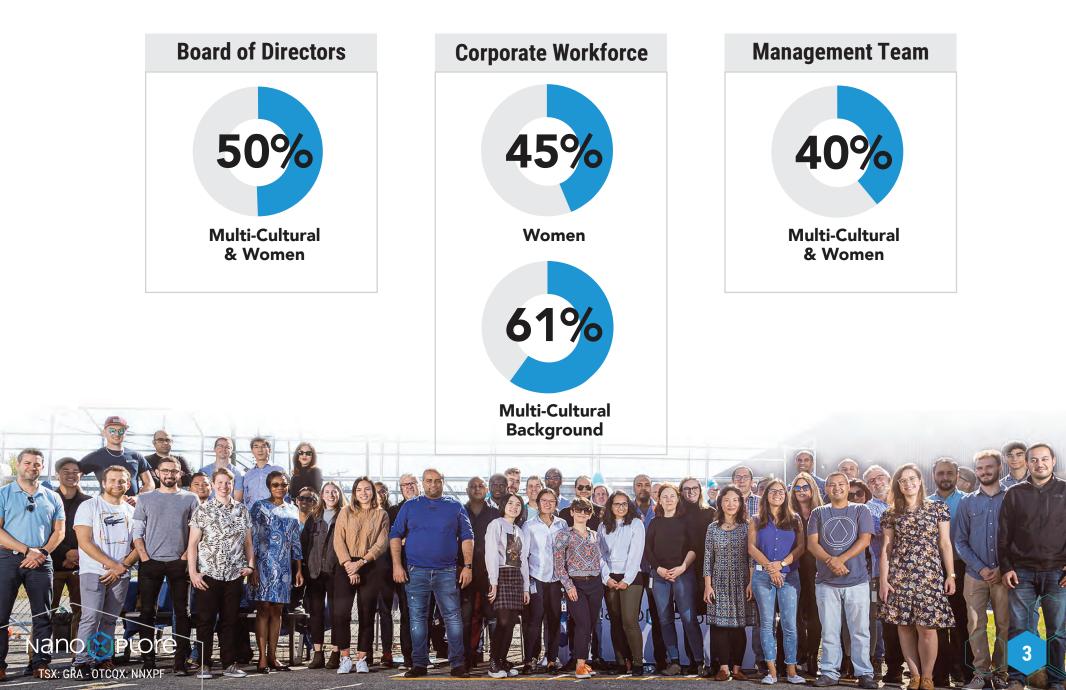
"Blue chip cu	istomers"
• Volvo	Caterpillar
• Paccar	• GE
• Ford	Solmax
• Daimler	• Itron
• Morgan Olson	• Gerdau



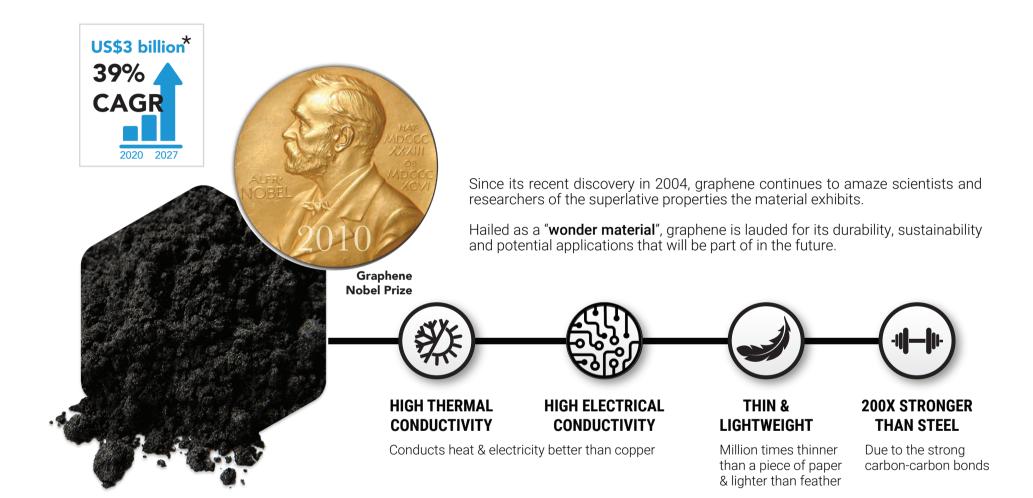


* Trailing Twelve Months ** 40% of worldwide nameplate capacity - IDTechEx Research, Dr. Richard Collins: Is the Tipping Point for Graphene Commercialization Approaching?

DIVERSITY, EQUITY & INCLUSION



THE POWER OF GRAPHENE





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OUR SOLUTION

We leverage our patented technology



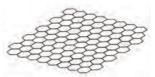
to provide **sustainable** alternative



Graphite Natural flake graphite (>100,000 layers of carbon)

EXFOLIATION

via a mechanical-liquid proprietary process



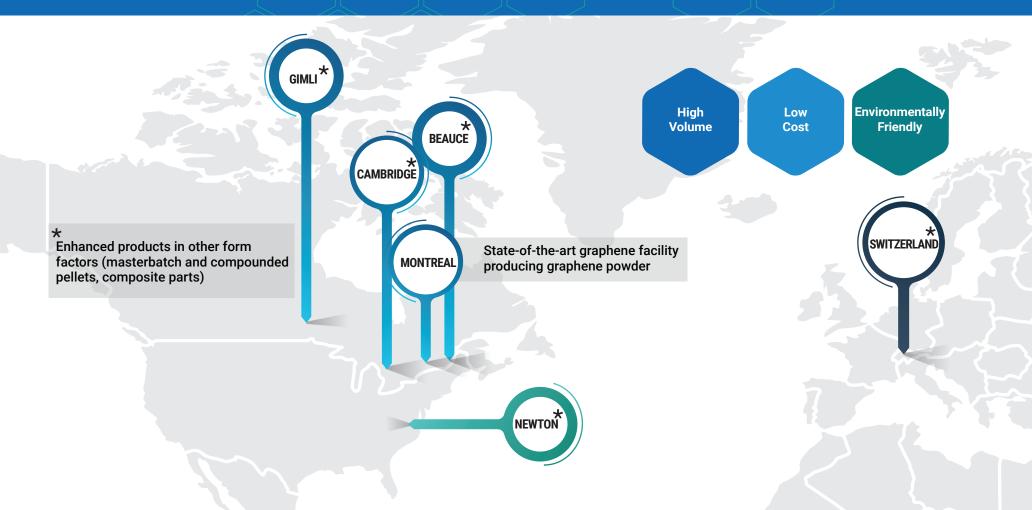
Graphene 6-10 atomic layers in thickness with 96-98% purity



based materia



MANUFACTURING FOOTPRINT & PROCESS



10 facilities in Canada, US and Switzerland

- Production of very consistent and high-quality graphene in volume in Montreal
- Capable of producing different grades of GrapheneBlack™
- Fully automated facility managed by Programmable Logic Controllers, ensuring product consistency and highest level of quality assurance



POWERING 2 KEY GLOBAL MEGATRENDS

Our vision is to create a better tomorrow by providing innovative, sustainable products and solutions across multiple industries and applications



ENERGY TRANSITION

SUSTAINABILITY





LONG-TERM DRIVERS





FQ2 2023 CORPORATE HIGHLIGHTS

Quarterly Key Developments

Transportation

- Large commercial OEM approved graphene in all existing and potentiel future programs
- Large passenger OEM approved graphene enhanced plastic for exterior applications

Drilling Fluid

Large specialized drilling fluid company received strong results, in late-stage trial, which speeds up drilling process by mitigating fluid loss



Insulation Foam

Large global chemical company, in late-stage trial, shows strong performance and, with a combination of cost, make graphene attractive

Concrete

Major concrete manufacturer saw 20% improvement in compressive strength

Secycled Plastics

Began commercialization with sustainable packaging company in Latin America

TOTAL REVENUES \$31.7M up 69%

DRIVERS:

- Positive product mix including grapheneenhanced products
- Higher volume
- . Canuck acquisition in December 2021
- Positive FX impact
- Price increases

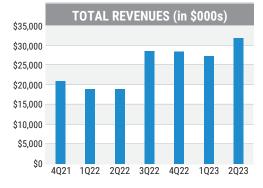
Partially offset by lower tooling revenues

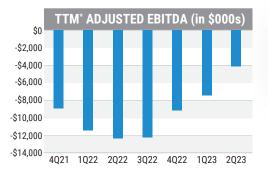
ADJUSTED EBITDA \$0.1M up \$3.3M

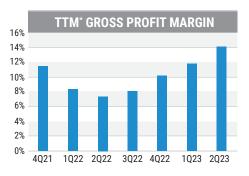
DRIVERS:

- Gross margin expansion driven by:
 - . Higher revenues
 - . Higher margins product mix
 - . Improved productivity
 - . Cost control
- Partially offset by higher administrative expenses

2023 REVENUE GUIDANCE RAISED \$115-120M up 22-27% from \$110M previously



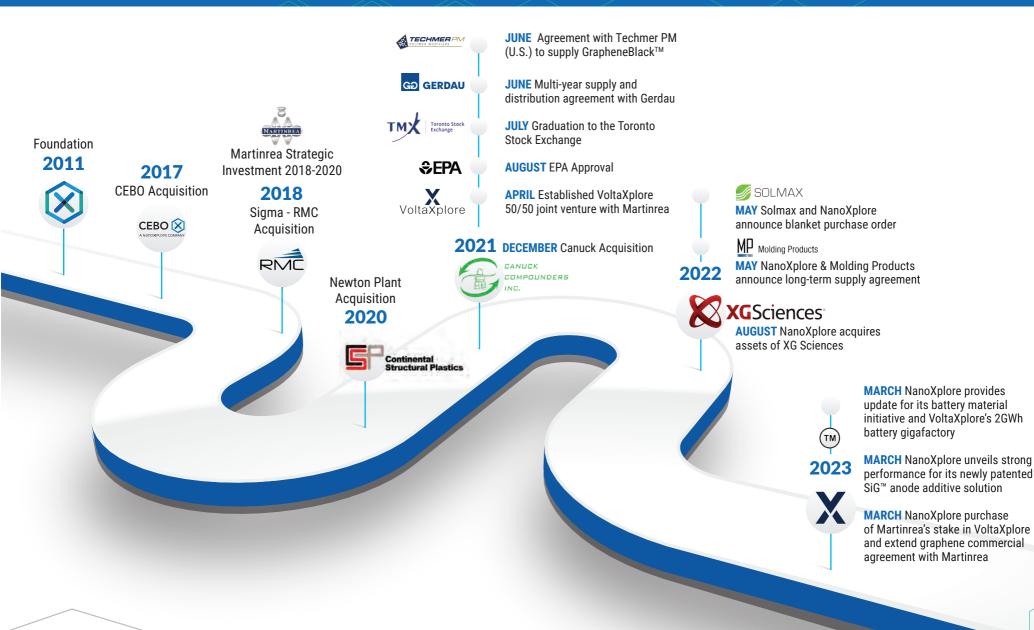




* Trailing Twelve Months

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HIGHLIGHTS OF RECENT DEVELOPMENTS





EXAMPLES OF COMMERCIAL SUCCESS



CARGE COMMERCIAL OEM Graphene-enhanced composite parts





















THE POTENTIAL EVOLUTION AS A LEADING GRAPHENE PRODUCER



Nano

TSX: GRA - OTCOX: NNXPF

2017-2022 DE-RISKED & POSITIONED FOR SUCCESS

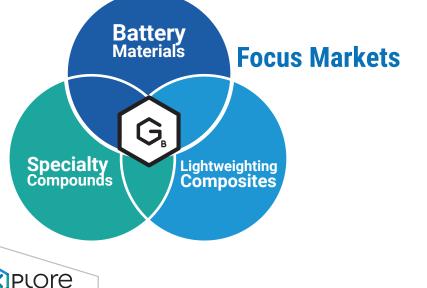
 Strengthened our balance sheet
 Positioned our company as a leading industrial scale graphene producer
 Successful at lowering our cost per unit to improve adoption



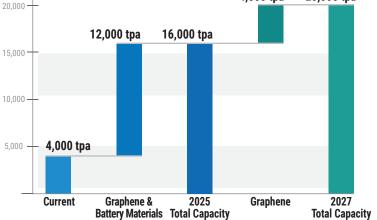
- \$120M graphene and battery materials plant
- \$50M GrapheneBlack SMC[™] (Sheet Molding Compound) plant
- Total investments of \$170M financed with cash on hand, grants, debt and equity (only if needed)
 - The company will focus to minimize
 or eliminate equity financing

OUR VISION PHASE 3 2026+ GROWTH & POSITIVE YIELDING RESULTS

- Benefit from our investments
- Focusing on sustainability and energy transition
- Bring new applications to graphene
- Extending our battery materials initiatives



2022-2027 CAPACITY EXPANSION PLAN 4,000 tpa 20,000 tpa



BATTERY MATERIALS - EXECUTIVE SUMMARY



- EV Adoption
- Energy Transition/ Sustainability
- Inflation Reduction Act
- IoT Adoption/Electronic Devices

KEY DRIVERS



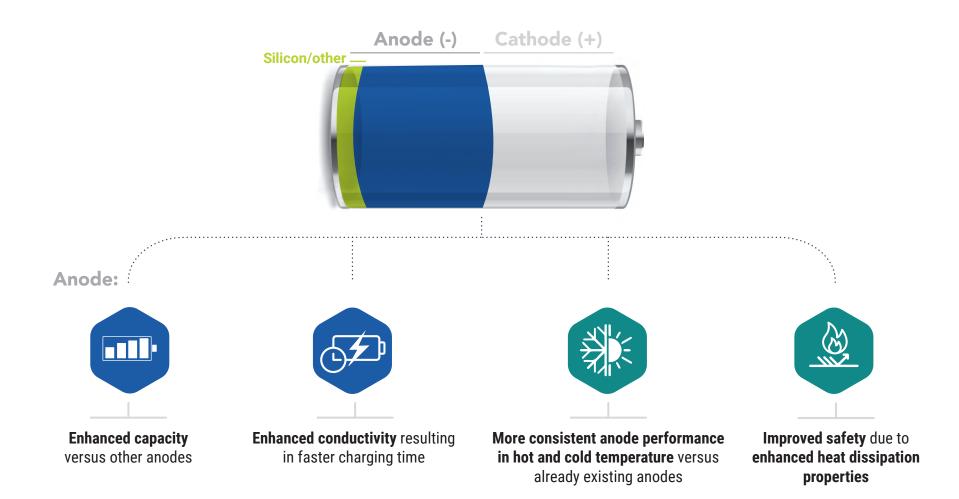
- Anode Active Material
- Anode Performance Additive (Gn + Si)
- Cathode Conductive Additive

TARGETED PRODUCTS





BATTERY MATERIALS - NANOXPLORE VALUE PROPOSITION





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BATTERY MATERIALS - CAPEX & RETURNS

ASSETS:

- 12,000 tpa graphene and battery materials facility
- 100-200 tpa graphene-silicon line
- R&D Facility

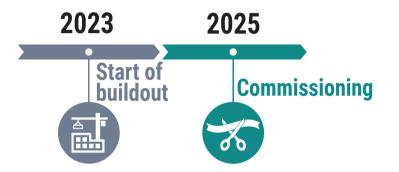
CAPEX: \$100 million

POTENTIAL ANNUAL REVENUE: \$100 million

IRR: 25%+

REASONS TO INVEST/STRATEGY:

- Large and growing addressable market
- Strong fundamentals with undersupplied market
- Attractive returns
- Flexible manufacturing process







LIGHTWEIGHTING COMPOSITES - EXECUTIVE SUMMARY



• EV Adoption

- Sustainability
- Transportation industry CO₂ Reduction Regulations

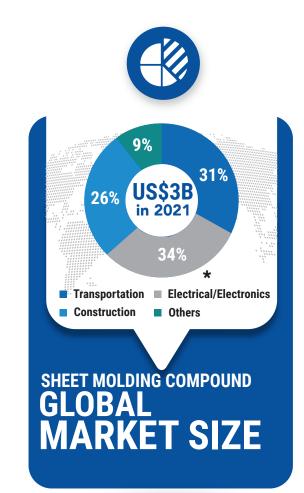
SMC KEY DRIVERS



Transportation External parts of vehicles Battery enclosures

Construction Commercial and Residential Applications

TARGETED VERTICALS



Nano Plore TSX: GRA - OTCQX: NNXPF

* Source Lucintel

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ASSET: 10M lbs SMC facility

CAPEX: \$50 million

POTENTIAL ANNUAL REVENUE: \$80 million

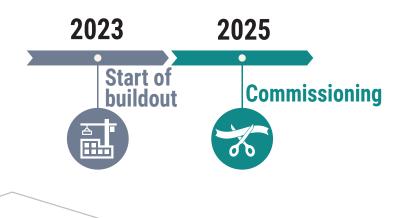
IRR: 25%+

Nano

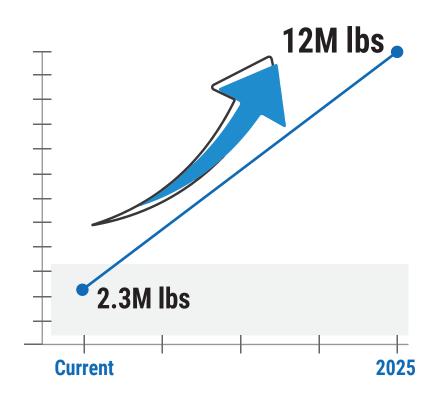
TSX: GRA - OTCQX: NNXPF

REASONS TO INVEST/STRATEGY:

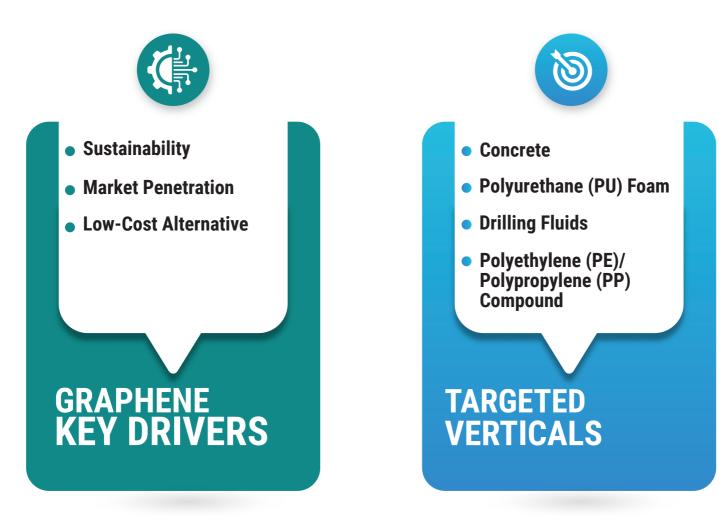
- Large and growing addressable market
- Attractive EV adoption market
- Undersupplied market
- Further capacity expansion potential (organic and/or inorganic)



SMC Nameplate Capacity

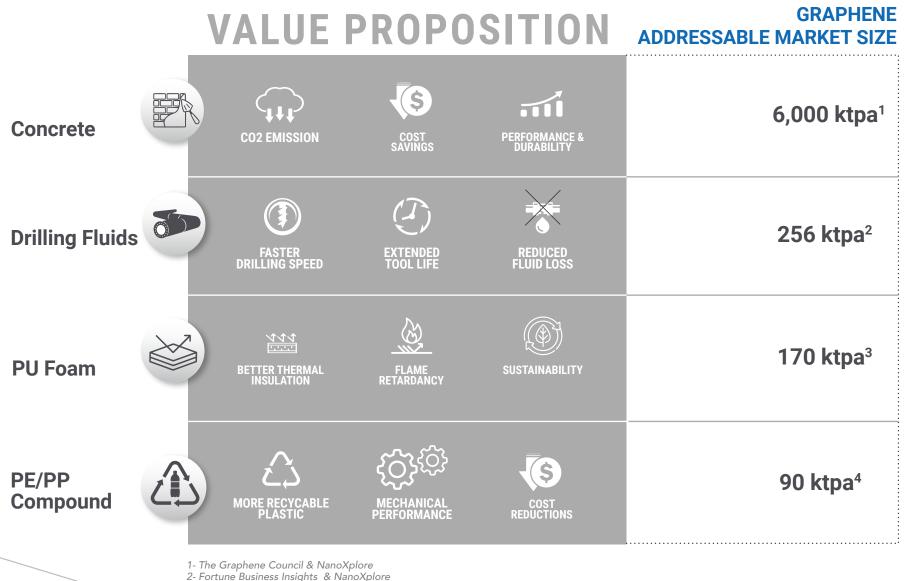


SPECIALTY COMPOUNDS - EXECUTIVE SUMMARY





SPECIALTY COMPOUNDS - NANOXPLORE VALUE PROPOSITION



NANO PLORE

3- MarketsandMarkets & NanoXplore

4- MarketsandMarkets, PPI, Straits Research & NanoXplore

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SPECIALTY COMPOUNDS - CAPEX & RETURNS

ASSET: 4,000 tpa GrapheneBlack[™] module (in addition to existing 4,000 tpa)

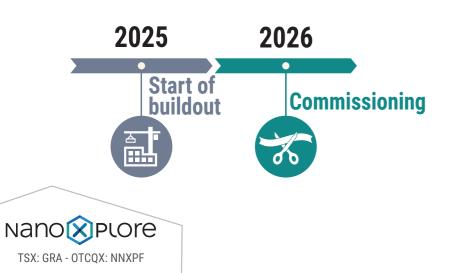
CAPEX: \$20 million

POTENTIAL ANNUAL REVENUE: \$40 million

IRR: 40%+

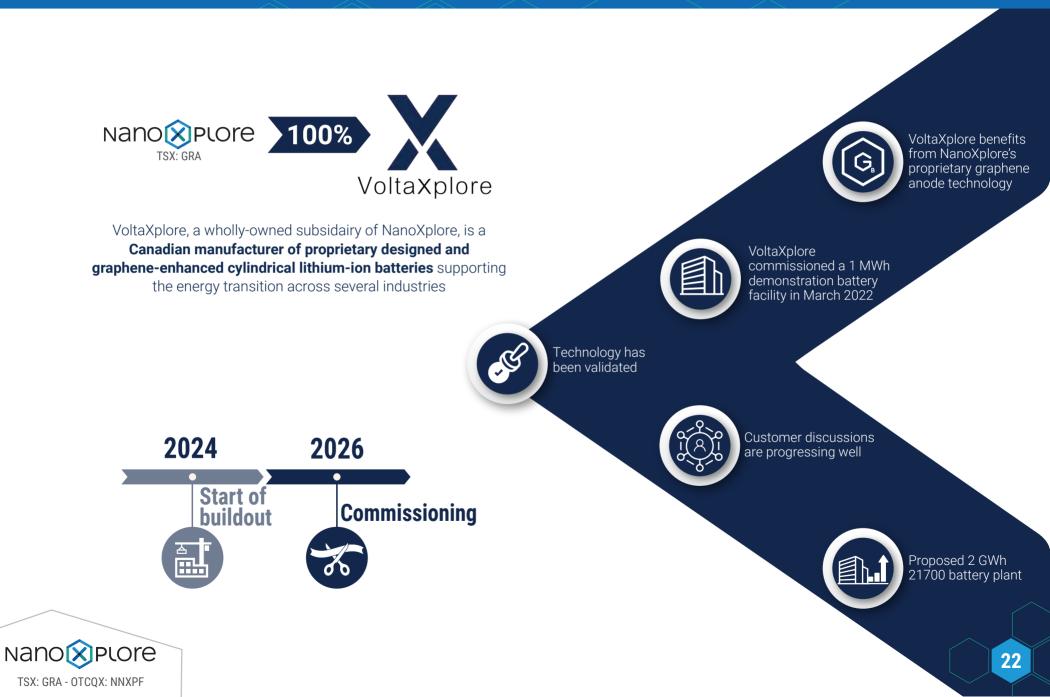
REASONS TO INVEST/STRATEGY:

- Narrowing the scope to focus on highest probability of success applications
- Focus on applications with large graphene powder consumption
- Increase return on R&D

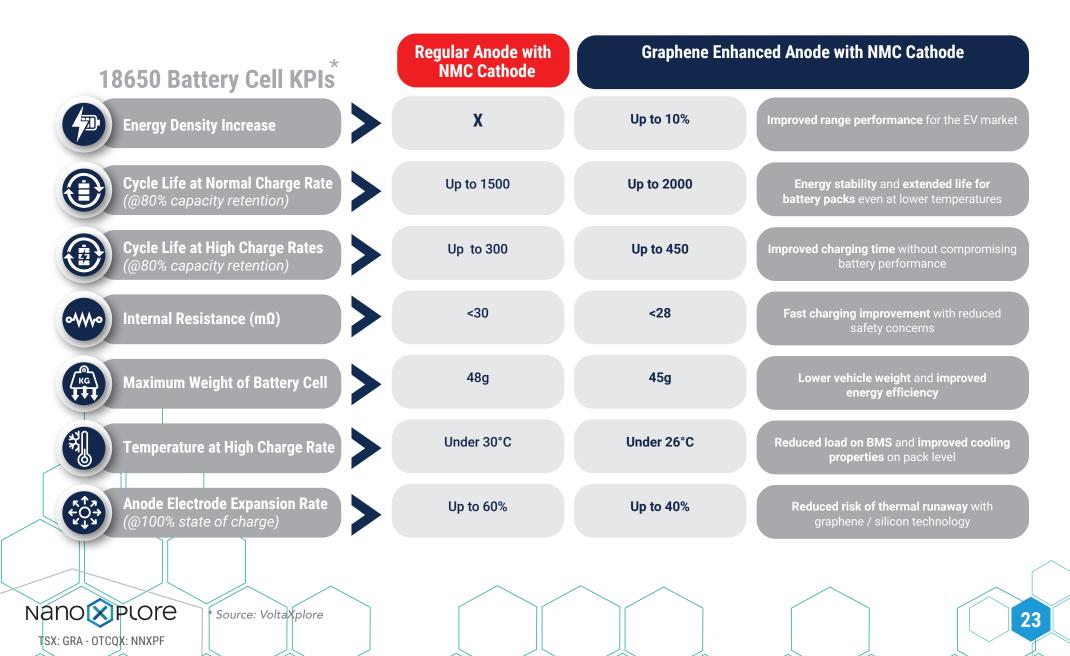




VOLTAXPLORE AT A GLANCE



ADVANTAGES OF GRAPHENE-ENHANCED BATTERY CELLS



* KPIs	COMPETITOR 1	COMPETITOR 2	Voltaxplore
Capacity (mAh)	2500-2600	2500-2600	2500-2600
Energy Density (Wh/Kg)	204	196	214
Cycle Life (@80%)	300 (@ 4A Charge Rate)	250 (@ 4A Charge Rate)	450 (@ 4A Charge Rate)
Internal Resistance (mΩ)	<30	<20	27.5
Mass (g)	45.8	47.8	43.7
Temperature (°C)	Under 30° (@ 4A Charge Rate)	Under 30° (@ 4A Charge Rate)	Under 26° (@ 4A Charge Rate)

VoltaXplore's Graphene-Enhanced Batteries Offer Clear Performance Advantages in Terms of Energy Density, Temperature and Cycle Life Under a Lower Weight



* Source: VoltaXplore

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LEADERSHIP TEAM



Dr. Soroush Nazarpour, Ph.D. Founder & Chief Executive Officer

Ph.D in Nanotechnology from the University of Barcelona;

Serial entrepreneur and the founder of NanoXplore President & CEO since 2011 and serves as a director on the board of directors;

Acknowledged expert in the field of graphene and co-author of "Graphene Technology From Laboratory to Fabrication" published by Wiley & Co in 2016;

CEO of VoltaXplore, an electric vehicle battery manufacturing company.



Rocco Marinaccio Chief Operating Officer

More than 20 years of experience within operations;

Vice President of Flexible Manufacturing Group at Martinrea;

Occupied multiple senior positions at Martinrea International Inc. including Material Production and Logistics Manager, General Manager and Director of Modules;

Formerly responsible for over-seeing the construction of key Martinrea facilities located in Ramos Arizpe, Mexico and Riverside, Missouri as well as the relocation of two facilities in Canada.



Pedro Azevedo Chief Financial Officer

Extensive experience in manufacturing and operations, as well as M&A:

Former CFO of Tarkett Sports, a division of publicly traded global manufacturing company Tarkett S.A.;

Occupied a variety of positions starting from a cost accountant to different corporate controller functions.

Ph.D. in Mechanical Engineering from the University of Victoria;

Nima Moghimian

Global Director of R&D

Master's in Nanotechnology from the University of Barcelona;

Materials and battery scientist; +8 yrs of product development leadership experience in graphene and battery materials;

Extensive materials regulation experience: TSCA, REACH, CEPA, FDA;

Government grants: Managed several program IRAP, SDTC, TechnoClimat;

Inventor of 6 Patents in graphene and batteries;

Author of >30 peer reviewed scientific articles.



Vincent Livoti Global VP Sales & Marketing

Over 20 years of experience in sales and marketing for specialty chemicals & advanced materials;

Former Vice President of Sales and Business Development at Daikin America (Chemical Division);

Former Head of Specialty Ingredients / Microbial Control at Lonza Inc.;

Former Director of Business Development at BASF;

Occupied multiple senior positions at Ciba Specialty Chemicals including Director of Business Development, Global Marketing Manager, and Sr. Global Account Manager.



Darrin Hotts VP Sales & Business Development Composites

30 years of experience in the automotive industry with wide expertise in manufacturing;

Former Executive Director at Martinrea;

Former Senior Account Manager at Nachi Robotic Systems Inc. responsible for the tier 1's and Ford Motor Company;

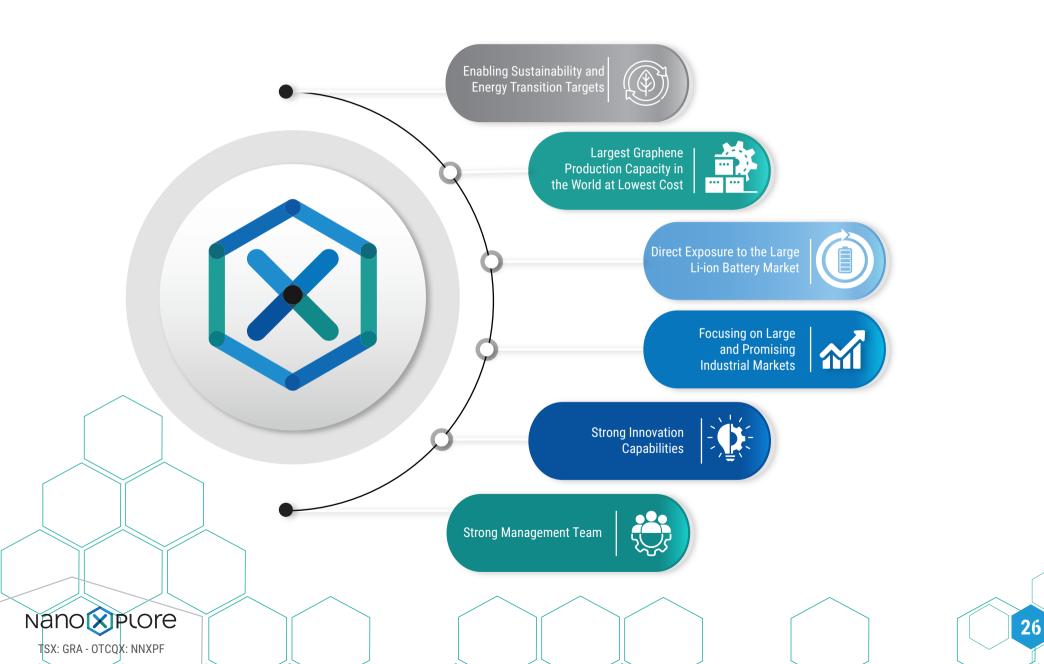
Former Senior Account Manager at Mitchell Plastics responsible for commercial with Chrysler/Fiat;

Former Business Development Manager at Benteler working with Chrysler & Nissan to develop lightweight opportunities.



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KEY TAKEAWAYS



APPENDIX

ANALYST COVERAGE

NATIONAL BANK FINANCIAL MARKETS	Rupert Merer
ECH ELON WEALTH PARTNERS	Amr Ezzat
	MacMurray Whale
BEAC ON Securities I miled	Ahmad Shaath
C A P L T A L	Marvin Wolff
RAYMOND JAMES [®]	Michael Glen
PI FINANCIAL	Ben Jekic



ACQUISITION OF MARTINREA'S STAKE IN VOLTAXPLORE



End Markets



Energy storage





Equity consideration only Issuance of 3.4 million shares to Martinrea

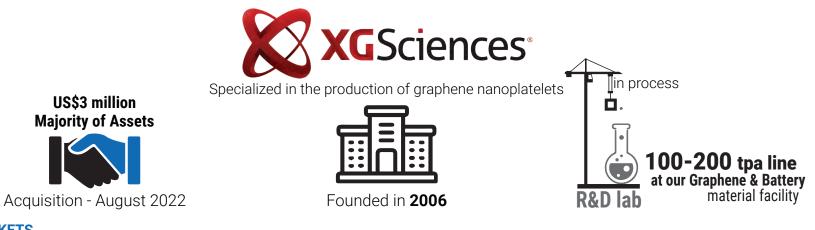
Deal Rationale

- Simplifies the capital structure Access to additional financing
- opportunities

Capacity 2GWh or up to 130 million cells/year



XG SCIENCES - ASSET PURCHASE



END MARKETS

Partnered with market leading companies in key end markets such as:



DEAL RATIONALE



Nano

TSX: GRA - OTCOX: NNXPF

Strong patent portfolio in attractive end markets, especially in battery anode material & PU foam

Patent Name

Si-Gn for electrochemical applications Si-Gn composite anode material & manufacturing LiF embedded Si-Gn powder for lithium-ion battery Electrodes for capacitors from mixed carbon compositions 2-dimensional thermal conductive materials Graphene-modified Polymeric foam

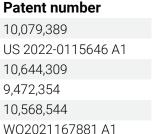


Support our next generation solid state battery solutions with their silicon-graphene patents

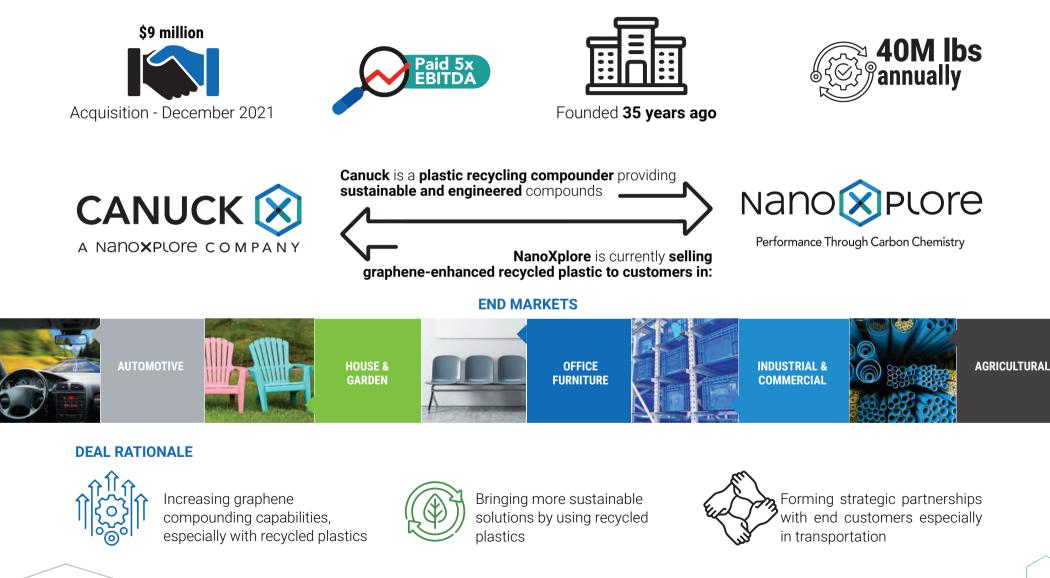
Applications	Patent I
Battery	10,079,3
Battery	US 2022
Battery	10,644,3
Energy Storage	9,472,35
Thermal Interface Materials	10,568,5
Foams	W02021

St m

Strong relationships with market leading companies



CANUCK COMPOUNDERS ACQUISITION







Performance Through Carbon Chemistry

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