

Performance Through Carbon Chemistry

The Power to Transform Enabling Energy Transition & Sustainability

AGM - December 2022

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.

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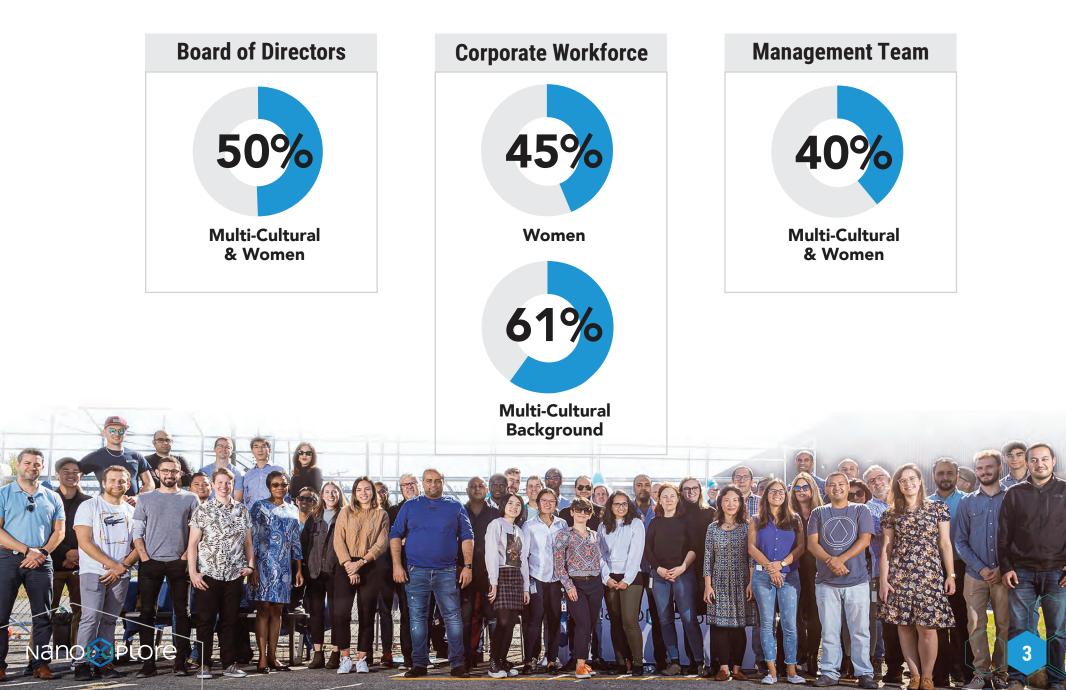


NANOXPLORE AT A GLANCE



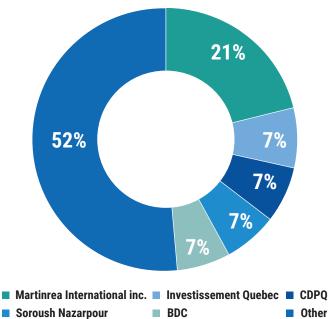


DIVERSITY, EQUITY & INCLUSION





Shareholders' Structure



Λ

Nano Relore

FY2022 CORPORATE HIGHLIGHTS



Supply-Chain Challenges

Difficulty in obtaining materials on a timely basis for both our customers and NanoXplore

TOTAL REVENUES \$94.3M up 30%

DRIVERS:

- Positive product mix including grapheneenhanced products
- New sales programs and price increases
- Higher tooling
- Canuck acquisition

Partially offset by customers supply-chain issues

2023 REVENUE GUIDANCE \$110M up 17%

Inflationary Pressures

From raw materials to labour costs

Labour Constraints

COVID-related disruptions:

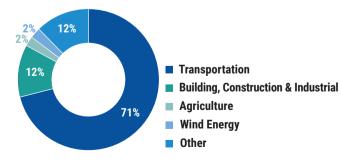
Early Retirements •

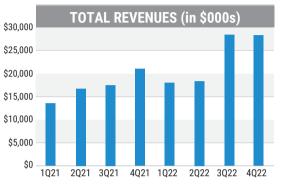
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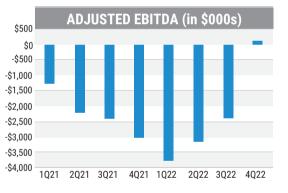
Nano

Immigration Bottleneck .

REVENUES FROM CUSTOMERS MIX









EXAMPLES OF COMMERCIAL SUCCESS



LARGE COMMERCIAL OEM Graphene-enhanced composite parts





MID-SIZED NORTH AMERICAN AGRICULTURAL COMPANY Graphene-enhanced composite parts



MID-SIZED NORTH AMERICAN CONSTRUCTION COMPANY Graphene-enhanced composite parts **CARGE ASIAN ELECTRONIC COMPANY** Graphene powder









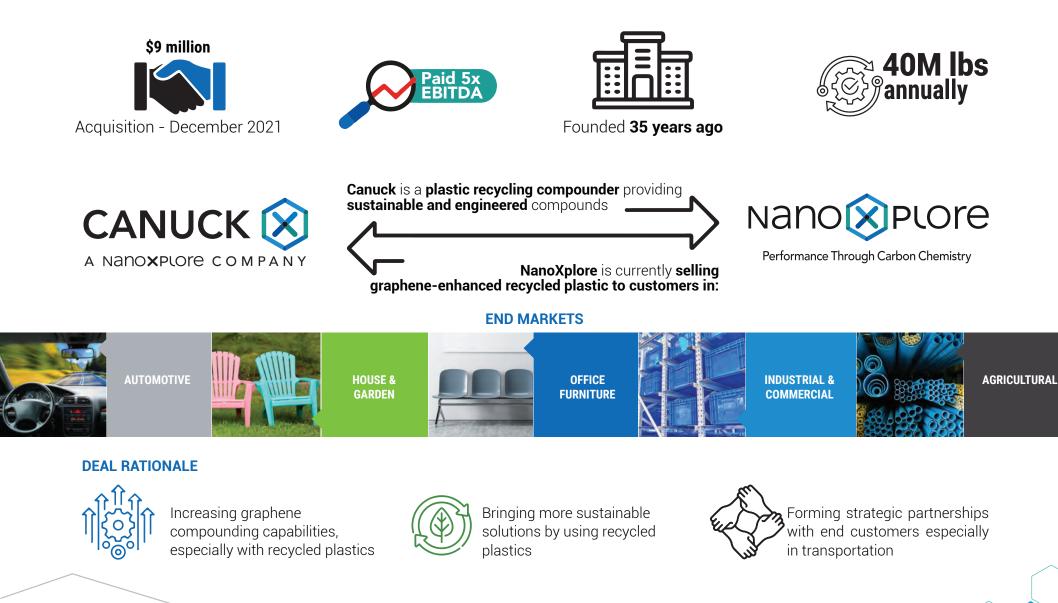
Nano Relore

HIGHLIGHTS OF RECENT DEVELOPMENTS



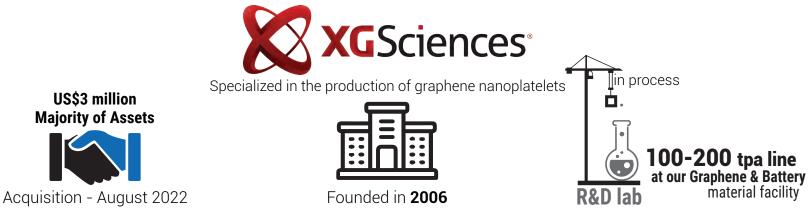


CANUCK COMPOUNDERS ACQUISITION





XG SCIENCES - ASSET PURCHASE



END MARKETS

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



DEAL RATIONALE



Nano X Plore

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

Detent Name



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

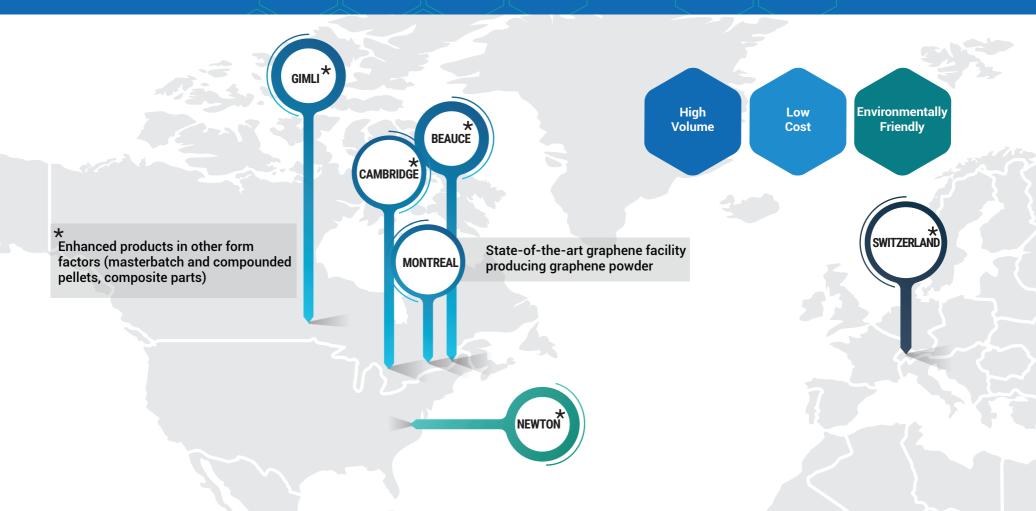
| | Patent Name | Арр |
|--|--|-------|
| | Si-Gn for electrochemical applications | Batte |
| | Si-Gn composite anode material & manufacturing | Batte |
| | LiF embedded Si-Gn powder for lithium-ion battery | Batte |
| | Electrodes for capacitors from mixed carbon compositions | Ener |
| | 2-dimensional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

| Applications | Patent number |
|--------------------------|-------------------|
| Battery | 10,079,389 |
| Battery | US 2022-0115646 A |
| Battery | 10,644,309 |
| Energy Storage | 9,472,354 |
| Thermal Interface Materi | als 10,568,544 |
| Foams | WO2021167881 A1 |

Strong relationships with market leading companies

9

MANUFACTURING FOOTPRINT & PROCESS

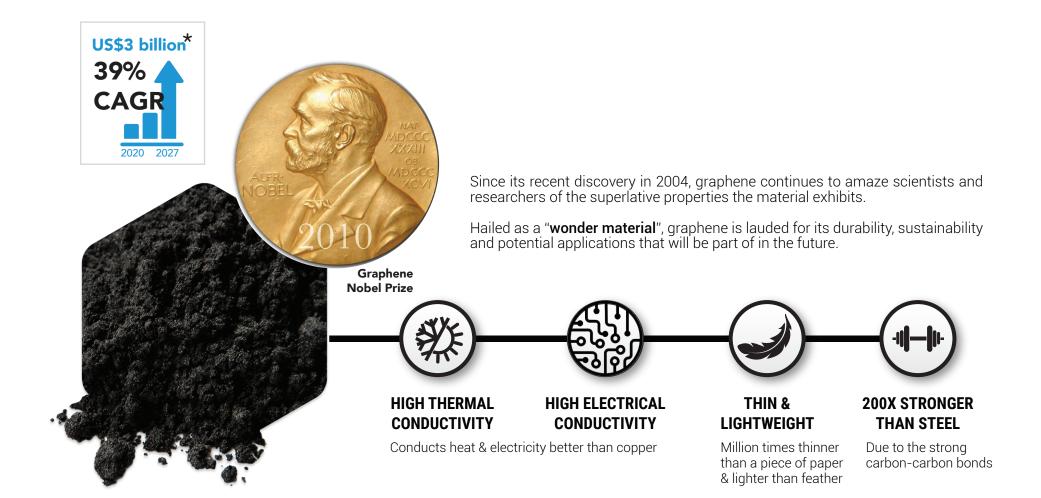


10 facilities in Canada, US and Switzerland

- 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



THE POWER OF GRAPHENE





11

LONG-TERM DRIVERS



Nano

OUR SOLUTION

We leverage our patented technology



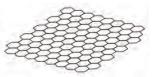
to provide **sustainable** alternative



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

CLEAN TECHNOLOGY







Nano X Plore

POWERING 2 KEY GLOBAL MEGATRENDS

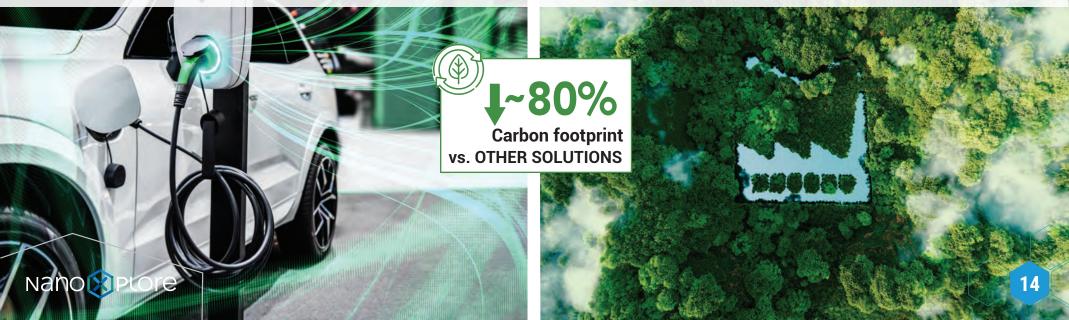
Our vision is to create a better tomorrow by providing innovative, sustainable products and solutions across multiple industries and applications



ENERGY TRANSITION

SUSTAINABILITY





THE POTENTIAL EVOLUTION AS A LEADING GRAPHENE PRODUCER



2017-2022 DE-RISKED & POSITIONED FOR SUCCESS

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ore

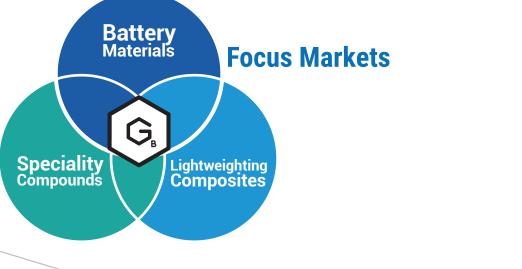
 Strengthened our balance sheet
Positioned our company as a leading industrial scale graphene producer
Successful at lowering our cost per unit to improve adoption



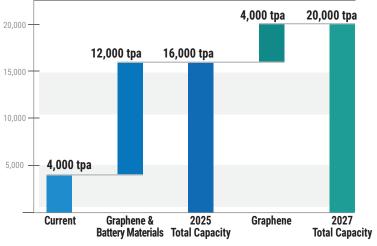
- \$120M graphene and battery materials plant
- \$50M GrapheneBlack SMC[™] (Sheet Molding Compound) plant
- Total investments of \$170M financed with cash on hand, grants, debt and equity (only if needed)
 - The company will focus to minimize or eliminate equity financing

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



BATTERY MATERIALS - EXECUTIVE SUMMARY



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

KEY DRIVERS



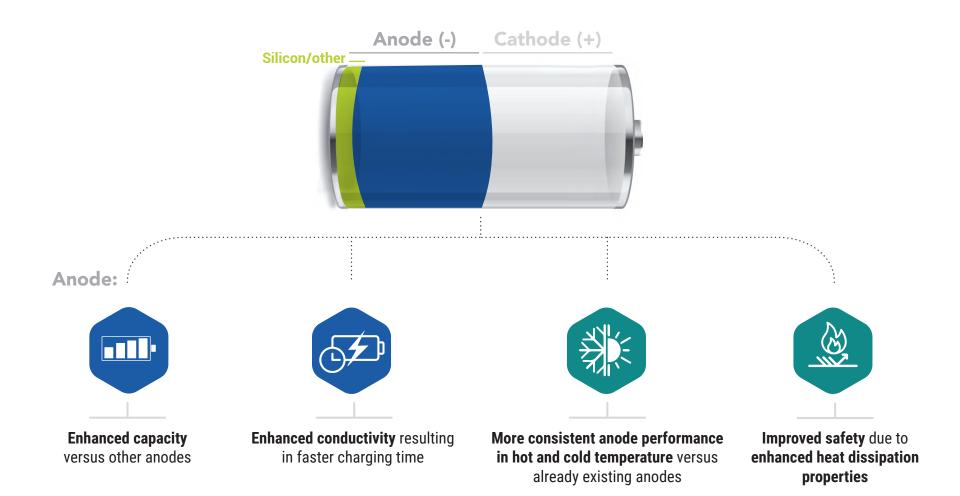
- Anode Active Material
- Anode Performance Additive (Gn + Si)
- Cathode Conductive Additive

TARGETED PRODUCTS





BATTERY MATERIALS - NANOXPLORE VALUE PROPOSITION



NanoSplore

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

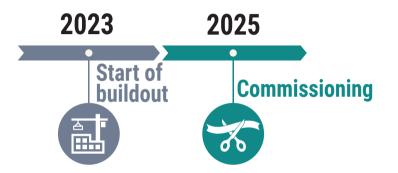
POTENTIAL ANNUAL REVENUE: \$100 million

IRR: 25%+

Nanoxplore

REASONS TO INVEST/STRATEGY:

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





18

LIGHTWEIGHTING COMPOSITES - EXECUTIVE SUMMARY



• EV Adoption

- Sustainability
- Transportation industry CO₂ Reduction Regulations

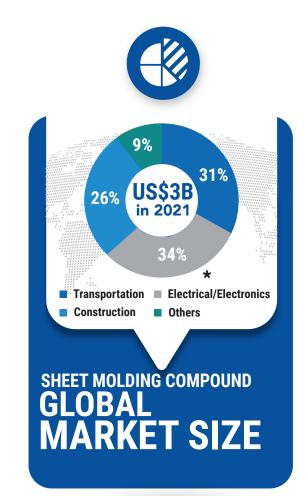
SMC KEY DRIVERS



Transportation External parts of vehicles Battery enclosures

Construction Commercial and Residential Applications

TARGETED VERTICALS









ASSET: 10M lbs SMC facility

CAPEX: \$50 million

POTENTIAL ANNUAL REVENUE: \$80 million

IRR: 25%+

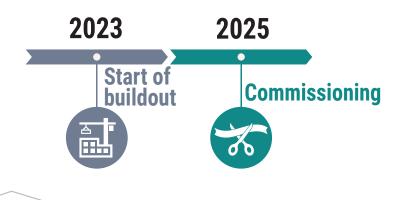
REASONS TO INVEST/STRATEGY:

- Large and growing addressable market
- Attractive EV adoption market
- Undersupplied market

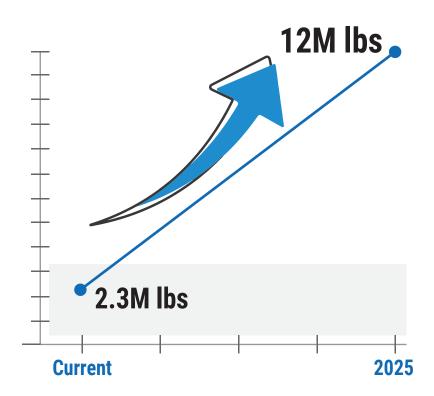
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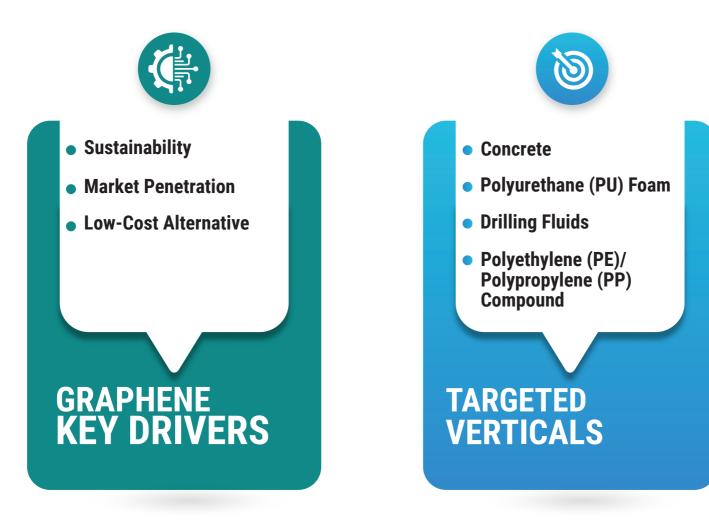
• Further capacity expansion potential (organic and/or inorganic)



SMC Nameplate Capacity

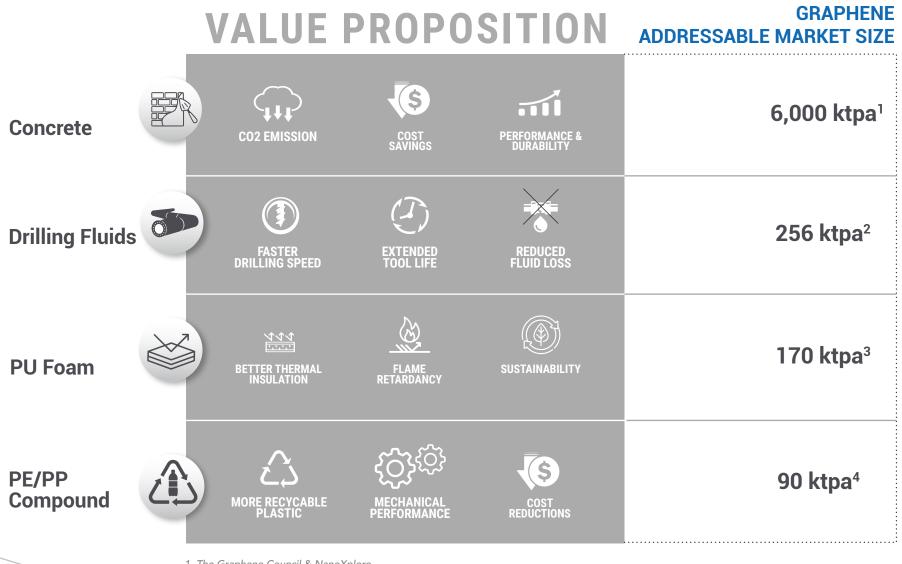


SPECIALITY COMPOUNDS - EXECUTIVE SUMMARY





SPECIALITY COMPOUNDS - NANOXPLORE VALUE PROPOSITION



1- The Graphene Council & NanoXplore

2- Fortune Business Insights & NanoXplore

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PLORE

3- MarketsandMarkets & NanoXplore

4- MarketsandMarkets, PPI, Straits Research & NanoXplore

SPECIALITY COMPOUNDS - CAPEX & RETURNS

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

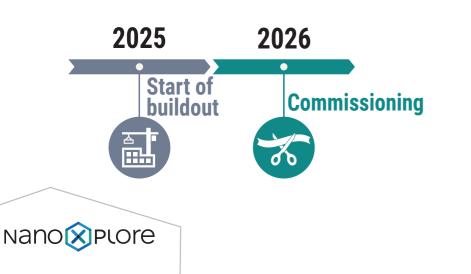
CAPEX: \$20 million

POTENTIAL ANNUAL REVENUE: \$40 million

IRR: 40%+

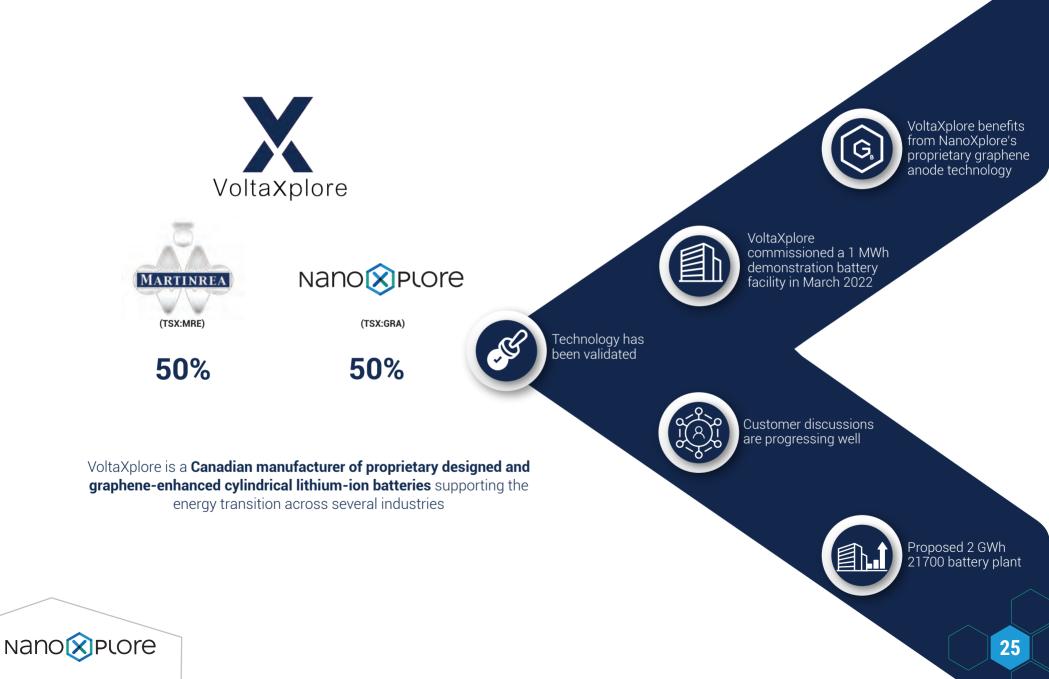
REASONS TO INVEST/STRATEGY:

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

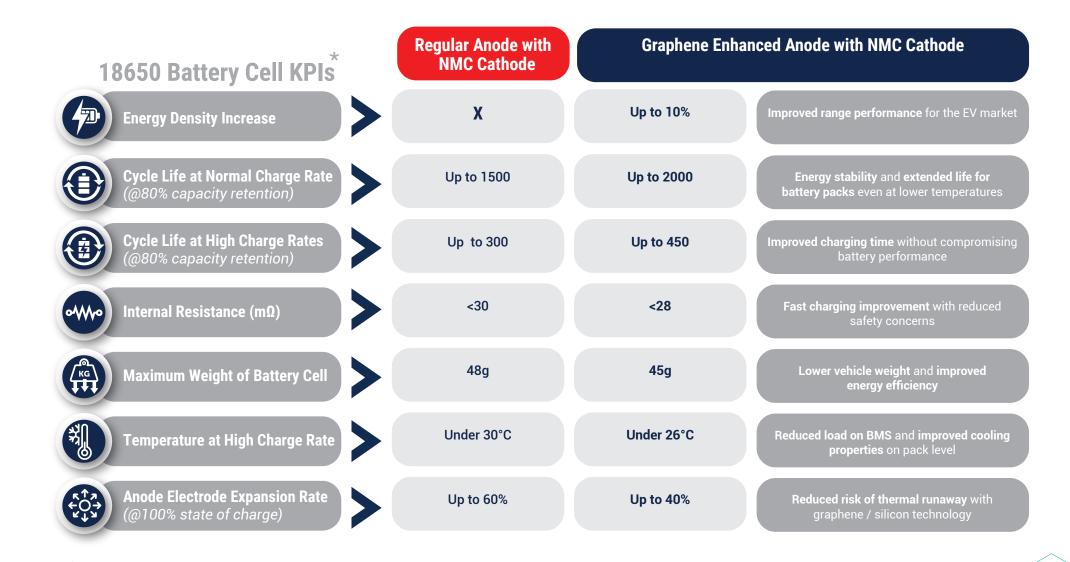




VOLTAXPLORE AT A GLANCE



ADVANTAGES OF GRAPHENE-ENHANCED BATTERY CELLS



Nano Plore * Source: VoltaXplore

| 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 (m Ω) | <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

Nano X Plore

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.

Nanoxplore



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



Nima Moghimian Global Director of R&D

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

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 and 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.

28

ANALYST COVERAGE

| FINANCIAL MARKETS | Rupert Merer |
|-----------------------------|-----------------|
| ECH ELON WEALTH PARTNERS | Amr Ezzat |
| | MacMurray Whale |
| BEAC IN | Ahmad Shaath |
| C A P I T A L | Marvin Wolff |
| RAYMOND JAMES® | Michael Glen |
| PI FINANCIAL | Ben Jekic |





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