



Performance Through Carbon Chemistry



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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CAPEX INVESTMENT PLAN SUMMARY

- Over the next 5 years, our strategic plan will be to develop our leadership position in large, growing, and promising end-markets:
 - Speciality Compounds
 - Battery Materials
 - Lightweighting composites
- Investing \$120M to increase graphene & battery materials capacity by 16,000 tpa and benefit from EV and graphene adoption
- Investing \$25M to \$30M to increase Sheet Molding Compound (SMC) capacity by 10M lbs and benefit from increased demand for lightweighting solutions
- In total, NanoXplore will invest \$145M to \$150M over the next 5 years with a combination of grants, debt and cash on hand



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COMPANY BACKGROUND



About us

We are a **fully integrated graphene supplier** to various customers in transportation, packaging, pipe, film, electronics, and other industrial sectors. We are headquartered in Montreal, Quebec with manufacturing facilities across North America and Europe



500 employees



Capabilities

Fully Automated Facility



Proprietary Technology

We own our innovative, **patent-protected graphene manufacturing technology** that provides a significant cost-effective solution to our customers

Credible & Supportive Shareholders

- Martinrea International Inc. (MRE: TSX)
- Caisse de dépôt et placement du Québec
- Investissement Québec
- Fidelity
- Business Development Bank of Canada

Strong IP & Know-how

We own a strong IP portfolio and know-how through years of R&D development in adding graphene to current Li-ion chemistries that improves energy capacity and charging speeds

High Quality & Consistency

We pride ourselves on the quality and consistency of our branded GrapheneBlack[™] powder



GRAPHENEBLACK[™]



Globally Registered





* The Graphene Batteries Market report by Roni Peleg and Ron Mertens: June 2024
1 Certified since March 8, 2019
2 Certified since August 12, 2021
3 Certified since September 4, 2020

OUR SOLUTION

We leverage our patented technology



to provide **sustainable** alternative¹

EXFOLIATION

via a mechanical-liquid proprietary process



Graphite

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



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





1 Graphene is an alternative to carbon black, a petroleum-derived product. Based on the emission intensity of 3 for carbon black production compared to an emission intensity of 0.4 for graphene production

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

 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
- \$25M to \$30M GrapheneBlack SMC[™] (Sheet Molding Compound) plant



- Benefit from our investments
- Bring new applications to graphene
- Extending our battery materials initiatives

Nano

CAPEX SUMMARY OF 5Y PLAN



* Source: Lucintel

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1 See appendix for assumptions

2 Non-IFRS measure – refer to non-IFRS measures disclosure in MD&A

3 According to the U.S. Department of energy (https://www.energy.gov/eere/vehicles/articles/fotw-1271-january-2-2023-electric-vehicle-battery-manufacturing-capacity)

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



BATTERY MATERIALS - CAPEX & RETURNS

ASSETS:

- 16,000 tpa graphene and battery materials facility
- 100-200 tpa graphene-silicon line
- R&D Facility

INVESTMENT1: \$120 million

POTENTIAL ANNUAL REVENUE1: \$120 million

IRR^{1,2}: 25%+

REASONS TO INVEST/STRATEGY:

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







10

LIGHTWEIGHTING COMPOSITES - EXECUTIVE SUMMARY



• EV Adoption

- Sustainability
- Transportation industry CO₂ Reduction Regulations

SMC KEY DRIVERS

PLORE

Nano



Transportation External parts of vehicles Battery enclosures

> **Construction** Commercial and Residential Applications

TARGETED VERTICALS





ASSET: 10M lbs SMC facility

INVESTMENT1: \$25 million to \$30 million

POTENTIAL ANNUAL REVENUE1: \$80 million

IRR^{1,2}: 25%+

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





SPECIALITY COMPOUNDS - EXECUTIVE SUMMARY





SPECIALITY COMPOUNDS - NANOXPLORE VALUE PROPOSITION



4 MarketsandMarkets, PPI, Straits Research & NanoXplore

Nano R Plore

15

APPENDIX

ASSUMPTIONS & RISKS 5 YEARS STRATEGIC PLAN

Graphene Anode ^{&}	
Revenue Assumptions	In recent years, North American demand for battery cells has resulted in numerous battery cell production facilities being built or announced to be built in North America. Along with this trend, North American governments are requiring and incentivising manufacturers to source more battery materials in North America. Against this backdrop, the Corporation sees a capability to sell all its annual anode materials capacity of 8,000MT over the course of 2 years at a price above \$7.50 USD/kg and an equivalent quantity of low-price graphene at a price above \$3USD/kg. Both with annual price escalations assumptions of 3%.
Major risks	 While risks of not achieving the expected revenues are numerous, the Corporation sees these as the main risks: Significant delay or non-creation of North American battery cell production market Slowdown in Electric Vehicle adoption New battery technologies New entrants to the anode materials market taking majority of future market share
Investment	Sum of all capital expenditures expected for the investment. The investment amount does not take into consideration sunk costs or costs already occurring in the Corporation that may be reaffected to execute the project.
IRR calculation	IRR is based on the expected net annual cash flows discounted at 8.8% over a period of 10 years with a 3% inflation assumption.
Financing	Financing for project is expected in part through investment tax credits (~30%), Federal and Provincial low-interest loans (~20%) which are currently being secured and with balance of financing needs covered through either additional debt financing yet to be secured or new equity, but only in favorable market conditions.

ASSUMPTIONS & RISKS 5 YEARS STRATEGIC PLAN

Graphene Enhanced	
Revenue Assumptions	Demand from our customers for SMC parts is in excess of our capacity to produce which indicates a continued market shift towards composite materials and more specifically SMC. Capacity to produce SMC parts for the commercial vehicle market in North America is limited with only a few large manufacturers, including the Corporation. The capacity being added with this initiative is smaller than the expected demand into the future and as such the Corporation expects to fully sell the added capacity over the course of 3 years. Production capacity will allow for the production of 80,000 truck parts at an average of \$750USD per part.
Major risks	While risks of not achieving the expected revenues are numerous, the Corporation sees these as the main risks: > Inability to increase sales with existing customers or to attract new customers > Shift to other composite production processes
Investment	Sum of all capital expenditures expected for the investment. The investment amount does not take into consideration sunk costs or costs already occurring in the Corporation that may be reaffected to execute the project.
IRR calculation	IRR is based on the expected net annual cash flows discounted at 10.0% over a period of 10 years, with a 3% inflation assumption.
Financing	Financing for project fully secured by RBC credit agreement through available equipment leasing and revolving credit line.

The information contained in this presentation was prepared using results and financial information determined under IFRS. However, the Corporation considers certain non-IFRS financial measures as useful additional information in measuring the financial performance and condition of the Corporation.

These measures, which the Corporation believes are widely used by investors, securities analysts and other interested parties in evaluating the Corporation's performance, do not have a standardized meaning prescribed by IFRS and therefore may not be comparable to similarly titled measures presented by other publicly traded companies, nor should they be construed as an alternative to financial measures determined in accordance with IFRS.

Non-IFRS measures include "Adjusted EBITDA" and "Adjusted gross margin".



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