



TSXV: GRA
OTCQX: NNXP

Nano Plore

Performance Through Carbon Chemistry

Investor Presentation

March 24, 2021

Forward-Looking Statements

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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 deemed forward-looking, including, but not limited to, any projections of financial information; any statements about historical results that may suggest trends for 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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Company Overview

Specialty chemical company founded in 2011 by CEO, Dr. Soroush Nazarpour

Manufacturer and supplier of advanced components and solutions based on proprietary graphene technology

Largest graphene producer in the world, about 35% of worldwide nameplate capacity (IDTechEx market report)

Global company headquartered in Montreal employing about 400 people

8 facilities in:

- Canada
- Switzerland
- United States

Serving blue chip customers in important markets

- Transportation: Volvo Truck, Volvo Bus, Paccar, Daimler, Caterpillar
- Renewable energy: GE
- Industrial: Itron

Management



Dr. Soroush Nazarpour, Ph.D
Chief Executive Officer

Expert in the field of graphene. Co-author of “Graphene Technology From Laboratory to Fabrication” (published by Wiley & Co in 2016). Ph.D in Nanotechnology from the University of Barcelona, Spain.



Rocco Marinaccio
Chief Operating Officer

More than 20 years of experience in operations. Previously with Martinrea International Inc. (MRE:TSX).



Luc Veilleux, CPA, CA
Chief Financial Officer

Over 20 years of executive management. Financial and operational experience in manufacturing and mining industries.

Supported by a strong Board of Directors*

Our Main Product : Graphene

Pure carbon consisting of carbon atoms arranged in a few-layer honeycomb lattice

- Discovered at Manchester University in 2004 (2010 Nobel Prize)

Used in thermoplastic, thermoset and molded products; also available in powder

Greatly improves mechanical properties

Excellent barrier and weatherability to UV, harsh chemicals, water, and gases

Improves thermal and electrical conductivities

Unique electromagnetic properties

Sustainable alternative to other carbon additives

Global market size expected to grow at 39% CAGR between 2020-27 to reach nearly US\$3 billion*

* Source: "Graphene Market Size, Share & COVID-19 Impact Analysis, By Product, By End-Use", Fortune Business Insights, August 2020



GRAPHITE

EXFOLIATION



GRAPHENE

Manufacturing Footprint and Process

Eight facilities in Canada, the United States and Switzerland

New, state-of-the-art graphene facility in Montreal

Natural flake graphite (>100,000 layers of carbon) exfoliated via a mechanical-liquid proprietary process

- Low cost, high volume, highly scalable

Production of very consistent and high-quality graphene in volume

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



Montreal Graphene Facility Ramp-Up



Capacity of 4,000 tons/year

- Capable of producing different grades of GrapheneBlack

Fully automated facility

- Managed by Programmable Logic Controllers, ensuring product consistency and highest level of quality assurance

Building Expansion underway

- Increase of graphene production capacity is possible by increments of 4,000 tons/year when current output is fully committed

Potential redundancy expansion at other facilities

- Bring capacity closer to OEM customers locations

Graphene as a technology platform

One material for many industries



- **Transportation**
- **Energy Storage & Batteries**
- **Renewable energy**
- **Industrial, building, and construction**
- **Agriculture**
- **Consumer Packaging**
- **Paints & Coatings**
- **Pipes & Tubes**

Graphene composites for Transportation

Technology: Sheet Molding Compound (SMC)



Compressive Strength



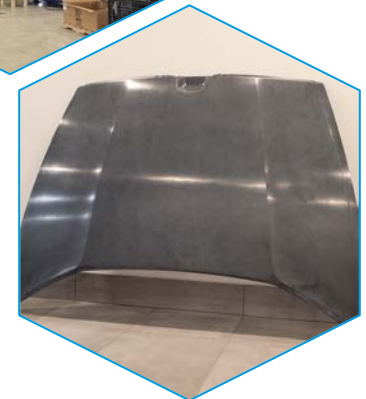
Light weighting



Processability



UV Resistance



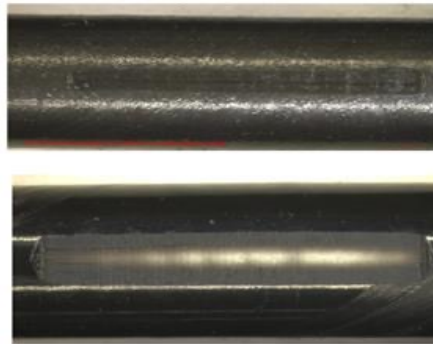
Light-weight composite hoods made with graphene demonstrate smoother surface finish compared to traditional ones. Graphene also increases the strength and stiffness of the composite hoods, enabling weight reduction for molded parts.

Graphene coatings for Transportation

Fuel and Brake Lines



NanoXplore



Material	Number of abrasion cycles	Improvement
Nylon/Graphene	>150,000	30X



Abrasion Resistance



Extend Lifetime

Graphene for Lithium-ion Batteries*



Additive that extends lifetime

Improves energy density, charge rate, and cycle life

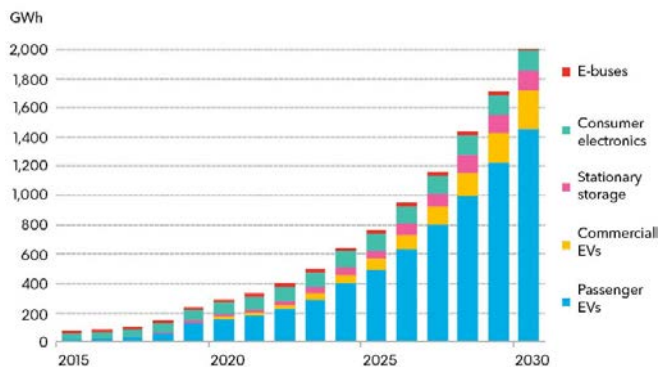
Favourable trends in the battery market

- Move toward larger cylindrical cells
- Nickel rich cathode formulation
- Silicon rich anode formulation

Our graphene battery initiative

- Over five years of R&D, internally and with partners
- Secured a strong IP portfolio for multiple applications
- Add GrapheneBlack™ to current Li-ion chemistries to improve energy capacity and charging speeds
- Applications in electric vehicles, trucks, buses and energy storage systems
- Dedicated R&D lab to support a pilot line for graphene-enhanced anodes and Li-ion batteries
- Low-cost technology enables us to potentially remove spherical graphite from Li-ion battery anodes, eliminating cost bottlenecks for commercial adoption

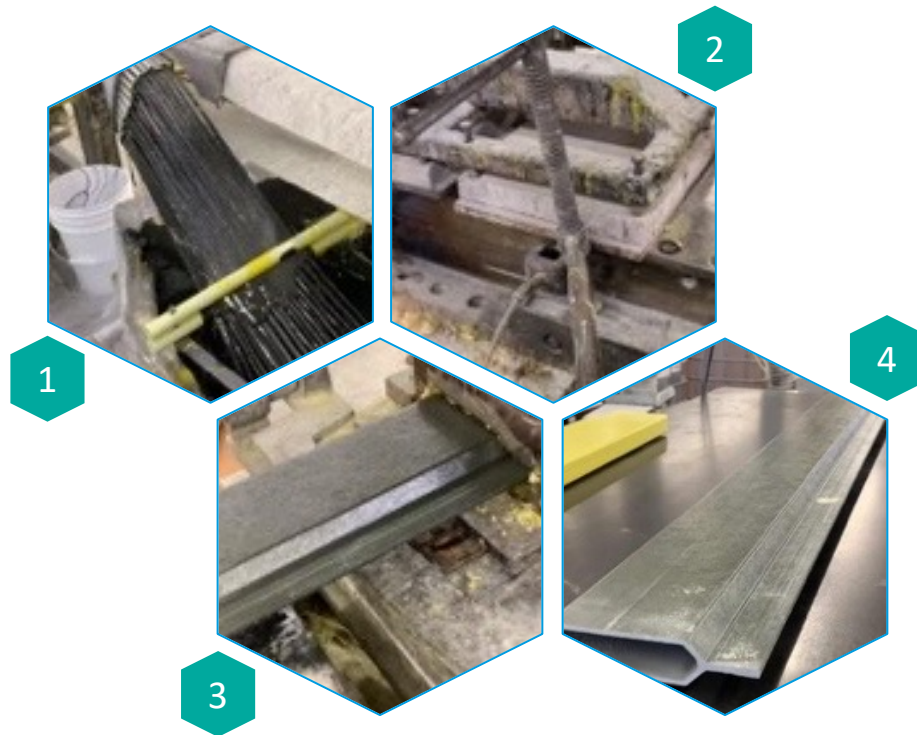
Annual lithium-ion battery demand



<https://energycentral.com/c/ec/world-battery-production#:~:text=As%20of%20Dec%202019%2C%20the,40%20million%20EVs%20by%202028.>

Graphene composites for Renewable Energy

Technology: Pultrusion



Windmill Blades



Graphene increases the strength and reduces the weight

Graphene for Industrial and Agricultural products



Recyclability

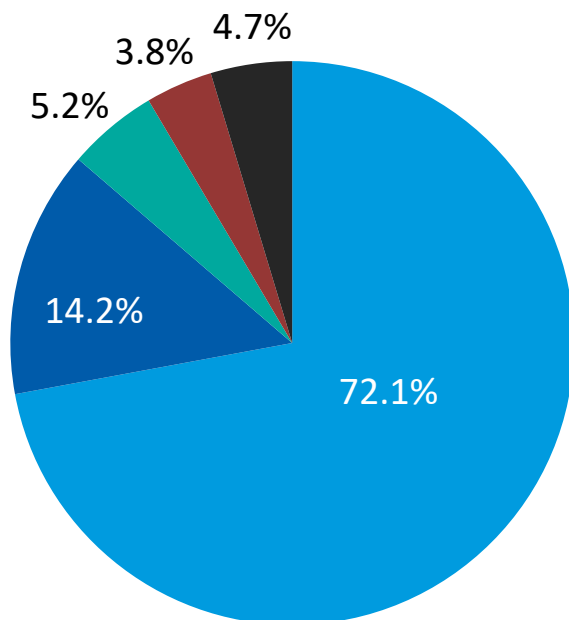


- Flooring parts made with 100% recycled plastics
- Graphene enables the use of recycled polypropylene without any virgin plastic
- Parts are fully recyclable at the end of life



Operating Results

Fiscal 2020 Sales Breakdown



- Transportation
- Building, Construction, Industrial
- Wind Energy
- Agriculture
- Others

REVENUE

Periods ended Dec. 31, 2020

Three months	\$17.5 M
Six months	\$33.0 M
Trailing 12 months	\$60.5 M

Cash and cash equivalent of \$23.1 million as at Dec. 31, 2020

- Additional net proceeds of \$43.2 million from equity issued in February 2021

Analyst Coverage



Rupert Merer



Amr Ezzat



MacMurray Whale



Ahmad Shaath



Marvin Wolff

RAYMOND JAMES®

Michael Glen

Why Invest in NanoXplore?



- Largest graphene power producer in the world
- Graphene market expected to grow significantly
- New capacity addition addresses significant market potential
- Solid business relationships with large OEM customers
- Provider of sustainable solutions
- Powerful combination of experience with state-of-the-art technology and methodologies to continuously improve products
- Committed to bring the best-in-class technology and processes to customers at a lower cost without sacrificing quality
- Sound financial position



4500 Thimens Blvd.
Montreal, Qc
H4R 2P2

www.nanoxplore.ca

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