TSX-V:GMG
OTCQX:GMGMF

Graphene Manufacturing Group

Transformative Graphene Energy Solutions

graphenemg.com

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CAUTIONARY NOTE REGARDING FORWARD-LOOKING INFORMATION

Certain statements made within this Presentation constitute forward-looking statements and forward looking information within the meaning of applicable Canadian securities legislation (collectively herein referred to as "forward-looking information"), which can often be identified by words such as "will", "may", "estimate", "expect", "plan", "project", "intend", "anticipate" and other words indicating that the statements are forward-looking, and include but are not limited to statements relating to: (a) GMG's business objectives and goals; (b) GMG's and other parties' planned or contemplated business (THERMAL-XR®, SUPA G® and G® LUBRICANT) and activities and timelines relating thereto; (c) potential applications and expected performance of GMG's products; (d) the development of the Graphene +Aluminum battery; (e) the Company's intention to engage third parties to assist in the development of its products and matters regarding GMG's existing relationships with third party partners; (f) the expectation that GMG will be able to improve its business operations; (g) GMG's expected target markets; (h) the timing, development, testing and commercialization of the Company's prototypes and products; (i) the sales channels and strategic partners the Company will engage in the marketing, sales, and development of its products; (j) the expansion of GMG's existing production facilities including the timing, expense, resulting productivity, and required machinery for any expansion; (k) potential distributor agreements, and the target markets for entering into distributor agreements; (l) the potential production capacity of the Company's existing facilities, including without limitation the Gen 2 Graphene Production Plant; (m) the progression of the Company's products along the Battery Technology Readiness Level scale and the Battery Cell Roadmap; (n) the nature and timing of sales to parties which have executed a non-disclosure agreement with the Company;(o) the expectation that the Company's products will be granted the necessary governmental approvals, including of the Environmental Protection Agency (the "EPA") in the USA; and (p) management's confidence in the development and scaling of production processes. Such forward-looking statements are based on a number of assumptions of management, including, without limitation, that the Company's cost and timing expectations are accurate, that GMG will be successful in generating revenue from its existing products, that the Company will be able to complete the development of its Graphene +Aluminum battery, that the Company will be able to achieve the expected results of its Graphene +Aluminum battery, that the Company will be successful in the deployment of its resources and personnel, that results of testing and development data will be consistent with anticipated results and estimates and are replicable in commercial applications, that the Company will be able to successfully identify and engage strategic partners, that the Company will be able to develop and test prototypes and products on the expected timelines, and that the results will align with management's current expectations, that existing production capability aligns with management's expectations, that an increase in GMG's existing production facility will result in a corresponding increase in production capacity, that the markets and sales channels for the Company's products will develop as expected, that the Company will enter into additional distributor agreements, that the Company's products will be granted the necessary regulatory approvals, include that of the EPA; that the Company's operations and ability to develop its products will not be adversely impacted by the ongoing conflict in eastern Europe. Additionally, forward-looking information involve a variety of known and unknown risks, uncertainties and other factors which may cause the actual plans, intentions, activities, results, performance or achievements of GMG to be materially different from any future plans, intentions, activities, results, performance or achievements expressed or implied by such forward-looking statements. Such risks include, without limitation: (a) GMG's operations could be adversely affected by possible future government legislation, policies and controls or by changes in applicable laws and regulations, or by the failure to obtain all necessary regulatory approvals, including that of the EPA; (b) public health crises such as the COVID-19 pandemic may adversely impact GMG's business and the ability of the Company to develop its products; (c) the volatility of global capital markets; (d) political instability; (e) the failure of GMG to attract and retain skilled personnel; (f) unexpected development and production challenges; (g) GMG could face technology or software disruptions; (h) unanticipated costs; (i) risks relating to the extent and duration of the conflict in Eastern Europe and its impact on global markets; (j) that the Company will be unable to develop, market, and sell its products as currently anticipated; (k) that the Company will be unsuccessful in identifying and engaging strategic partners; (l) that the Company will be unable to acquire equipment to streamline its production process, or that the expansion of the production facility will not result in the benefits currently expected; (m) that companies currently working with GMG will not be interested in purchasing the Company's products; and (n) the risk factors set out under the heading "Risk Factors" in the Company's AIF dated November 4, 2025 available for review on the Company's profile at www.sedarplus.ca. Such forward-looking information represents management's best judgment based on information currently available. No forward-looking statement can be guaranteed and actual future results may vary materially. Accordingly, readers are advised not to place undue reliance on forward-looking statements or information. Neither GMG nor any of its representatives make any representation or warranty, express or implied, as to the accuracy, sufficiency or completeness of the information in this Presentation. Neither GMG nor any of its representatives shall have any liability whatsoever, under contract, tort, trust or otherwise, to you or any person resulting from the use of the information in this Presentation by you or any of your representatives or for omissions from the information in this Presentation. 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An investment in the Company is speculative and involves substantial risk and is only suitable for investors that understand the potential consequences and are able to bear the risk of losing their entire investment. Investors should consider the risks set out in the AIF, in addition to many others, and consult with their own legal, tax and financial advisors with respect to all such risks before making an investment.

THIRD PARTY INFORMATION

This Presentation includes market and industry data which was obtained from various publicly available sources and other sources believed by the Company to be true. Although the Company believes it to be reliable, the Company has not independently verified any of the data from third-party sources referred to in this Presentation or analyzed or verified the underlying reports relied upon or referred to by such sources, or ascertained the underlying assumptions relied upon by such sources. The Company acknowledges that it is responsible for such information.

RIGHTS IN RELATION TO COPYRIGHT

HIGH MARGIN, SCALABLE & DISRUPTIVE APPLICATIONS

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GMG targets two major markets:

- **Energy Efficiency: Graphene** coatings, lubricant additive and lithium-ion battery additive improve efficiency in HVAC-R, engines and lithium-ion batteries. Lowering energy use and reducing emissions for commercial and industrial clients.

- **Energy Storage:** In collaboration with the University of Queensland, GMG is developing graphene aluminium-ion batteries that are expected to surpass lithium-ion batteries on charging speed, cycle life, safety, and sustainability. Aluminium is more abundant and less costly than lithium, and GMG's batteries reduce the risk of thermal runaway.

THERMAL -XR®

Air Conditioner & Heat Pump Coatings System

N. America Distribution Partner

Nu-Calgon

G ®LUBRICANT

Engine Oil Additive

Product Launched – sales starting

SUPA G®

Additive for Lithium -Ion Battery

Undergoing customer testing

GRAPHENE ALUMINIUM -ION BATTERY

Fast Charging Energy Storage

Co-developing with

RioTinto BIC

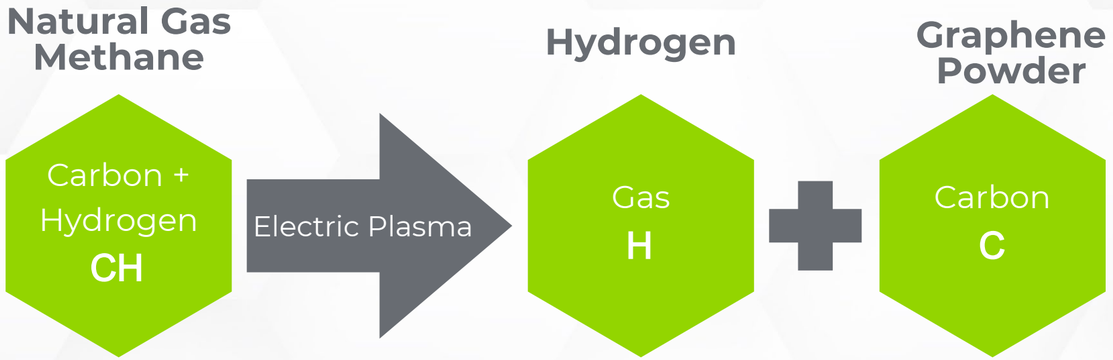
The University Of Queensland AUSTRALIA

PROPRIETARY CLEAN TECHNOLOGY PLATFORM

GMG Graphene Production

GMG manufactures graphene in-house using a proprietary process that converts natural gas into high-quality graphene, **bypassing typical graphite mining** dominated and controlled by China.

This graphene then supports GMG's energy-saving and energy storage applications.



Bypassing:

Graphite Mining & Processing

***GMG is expecting to bring online its Gen 2 Graphene Production Project in Jun'26 with up to 20 times higher production rate per unit – 10 tonne per annum.**

- Instantaneous & Continuous
- Low-Cost Inputs and Setup
- Fast Scalability Unconstrained by Resource
- Controlled Definability
- High-Quality Grade Graphene (University Verified)
- Cogeneration Capabilities
- Low environmental footprint

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LAUNCH: AUSTRALIAN ROLL OUT OF THERMAL-XR® COATING ON BEIJER REF COILS

BEIJER REF

Beijer Ref is one of the world's largest global refrigeration and HVAC wholesalers, headquartered in Malmö, Sweden, with operations spanning more than 40 countries and over 500 branches worldwide, 6,000 employees and 200,000 customers.

- **Beijer Ref has agreed to offer THERMAL-XR® ENHANCE as an optional coating solution on self branded refrigeration evaporator coils.**
- **~ 73 wholesale locations in Australia.**
- **Rolled out on November 17, 2025**

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WORLD FIRST PALLETISED GRAPHENE PRODUCTS AVAILABLE FOR ORDER FOR GLOBAL* DISTRIBUTION

Graphene Manufacturing Group

* Each product label has 16 languages. Delivery times to be confirmed at time of order.

SIGNIFICANT MARKET OPPORTUNITY & REVENUE GROWTH POTENTIAL

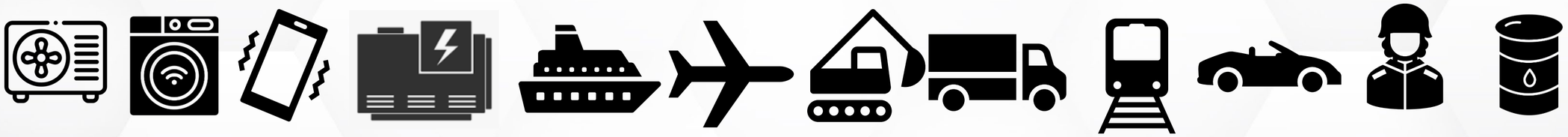
GMG's target markets for energy saving lubricants, coatings, and advanced batteries are multibillion-dollar opportunities, with initial deployment and sales underway in North America, Asia, Europe and other regions through distributors and direct B2B channels.

Sales Team Members

Countries with Product Testing & Sales Activity

STRATEGIC PARTNERS AND GLOBAL REACH

GMG has established confidential partnerships and distributor relationships with large manufacturers covering applications in automotive, personal electronics, aviation, energy, and heavy industry.

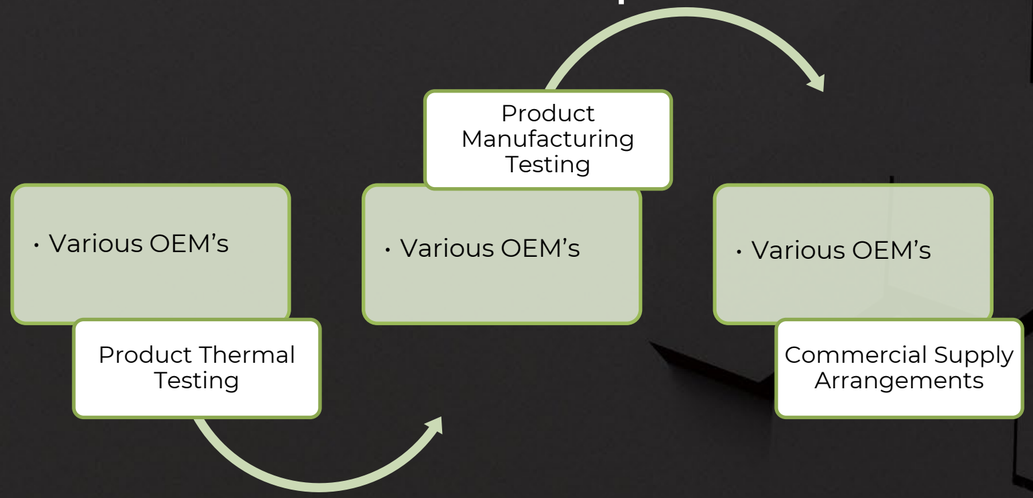


The company received support from tier-one industry participants like Rio Tinto (AU$6M joint product development agreement), and ongoing collaborations with academic institutions and government grants reinforce technical leadership and commercialization credibility.

THERMAL-XR® COMMERCIAL PROGRESS

Some of our customers trialing THERMAL-XR® are considered world market leaders in their industry and bring considerable large scale opportunity potential

THERMAL -XR Customer Adoption Process



SINGAPORE GREEN BUILDING PRODUCT SGBC GOOD

DATA CENTER WORLD
April 15-18, 2024
Walter E. Washington Convention Center | Washington, D.C.

ARBS WINNER

"Most Disruptive Technology Award" at Data Centre World Conference, Washington DC April 2024

"Best Chance for Market Success" at Data Centre World Conference

Product Excellence award at Air Conditioning, Refrigeration Building Services Exhibition

AIR CONDITIONERS

INDUSTRIAL PLANTS

HEAT SINKS FOR ELECTRONICS

DATA CENTRES

REFRIGERATION

GMG Graphene Manufacturing Group

THERMAL-XR® DISTRIBUTION

Distribution/Logistics

Nu-Calgon is GMG's exclusive distribution partner for AFTER MARKET HVAC in North America

- Nu-Calgon is the largest specialty chemical provider to the HVACR market
- 37 person sales team; 4000 distribution points
- Cool Worx is Nu-Calgon's private brand name for THERMAL-XR®
- Nu-Calgon introduced Cool Worx to the HVACR industry at the Chicago AHR Expo in January 2024, generating tremendous interest

GMG is distributing TXR directly and through distribution partners in other markets globally

Regulatory

THERMAL-XR® is approved for sale in Australia, Canada, Mexico, and China; Europe, Chile, Thailand, Singapore and South Korea.

The U.S. EPA requested a full Pre-Manufacture Notice (PMN) resubmission for THERMAL-XR®. This enables a comprehensive examination and the possibility of flexible approval conditions not available under a PMN LVE. The full PMN was submitted in 1H 2025, and was expected to take up to 12 months for the EPA to approve.

Supplying USA Customers for R&D purposes for now.

EPA conditions have been received and accepted by GMG. Awaiting final consent notice for exporting.

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THERMAL XR

G® LUBRICANT PERFORMANCE

Graphene from G® LUBRICANT reduces fuel consumption by up to 10% by lowering the friction on the critical boundary lubrication zones of pistons

~ 30% of fuel burned in an engine is to overcome internal friction.

More than 60% of engine friction is generated in the piston area.

$1 spent on G-Lubricant equates to ~ $10 saved in fuel*

G® Lubricant is mixed into engine oil at a 1:100 ratio.

G® Lubricant contains ~ 1% GMG Graphene

So the end mixed ratio of GMG Graphene to engine oil is 1:10,000

No other additive has 10% fuel reduction benefit claim with a dosage rate of 0.01%.

www.g-lubricant.com

* Results vary and the figures are sourced from client performance testing, GMG 4 ball wear testing, and third-party laboratory testing on a variety of base oils and fully formulated engine oils with 0.01% GMG Graphene.

Note: the Company notes that the data presented here should be considered preliminary, and that test results are not necessarily indicative of realized performance.

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GRAPHENE ADDITIVE FOR LITHIUM-ION BATTERY

- GMG's SUPA G® is an additive for Lithium-Ion Batteries
- It can be used as a Cathode Additive (1%) and/or after further development work it has potential for an Anode Alternative to Graphite - which is largely export controlled from China
- BIC Indiana is currently testing SUPA G with Lithium-ion Batteries and the results for this work should be available shortly.

SUPA G®

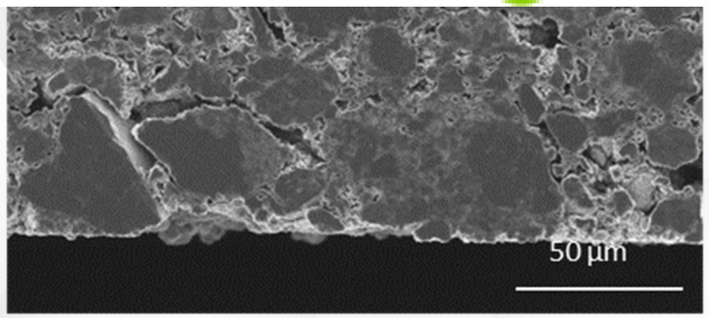
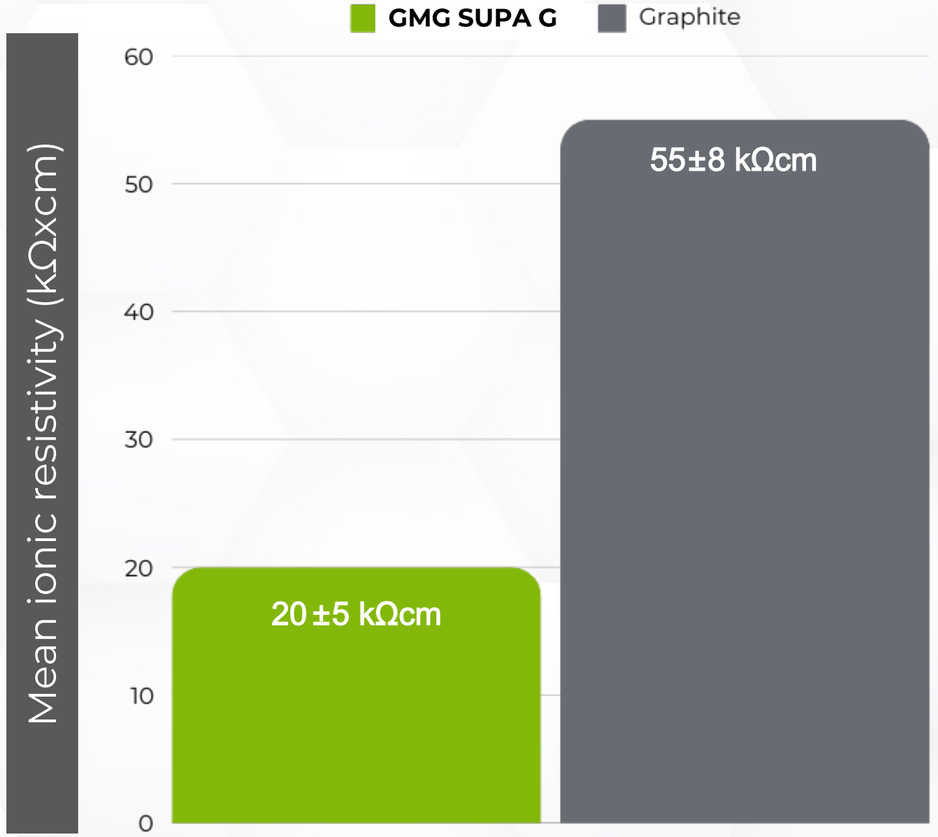


Image: Cross-section prepared using wide-beam Ar+ ion polishing EDX pixel assignment filtered with 95% confidence interval threshold



World Leading University study showed SUPA G® has very attractive properties:

- Apparent ionic resistivity 2.5× lower than compared to typical graphite electrode
- Multimodal active particle distribution (~20 um large particles + sub-1 um particles)
- Calendaring does NOT significantly damage the binder layer

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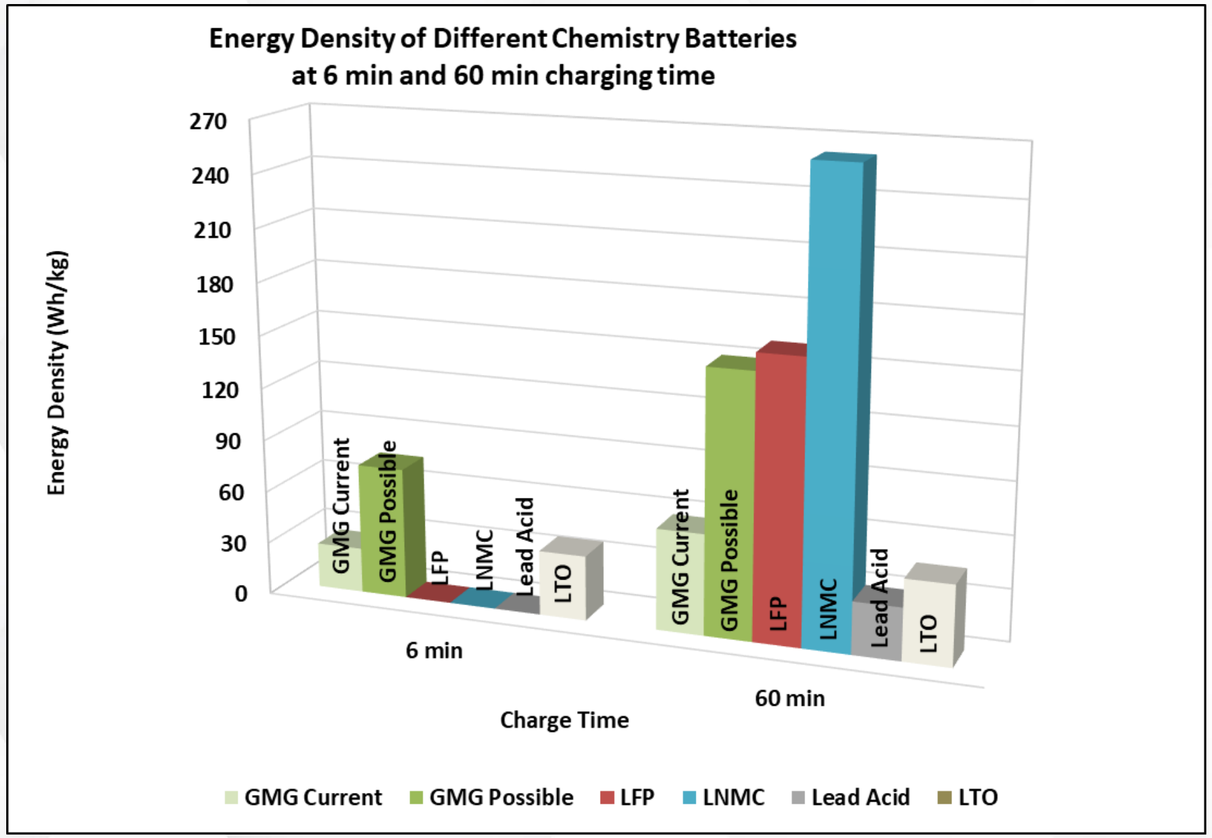
GRAPHENE ALUMINIUM ION BATTERY ADVANTAGES

Battery Development Update: **6 minute fast charging performance**

Battery **prioritizes durability and power capability** over energy density



Already **similar performance to Lithium Titanium Oxide (LTO) Batteries**

which can be **priced up to US$1500 / Whr** for their long-life high performance

Targeted Battery Use Case:

- Business/Industrial use vehicles
- Safety First – no Lithium chemical fires
- Similar recharging time as diesel refueling (~5 mins)
- Long life cycle > 1000 cycles ++
- Energy Density enough to be economic (>100 Wh/kg)
- Strategic Supply Chain and Simplicity
- High value / Low overall cost (when produced at scale)

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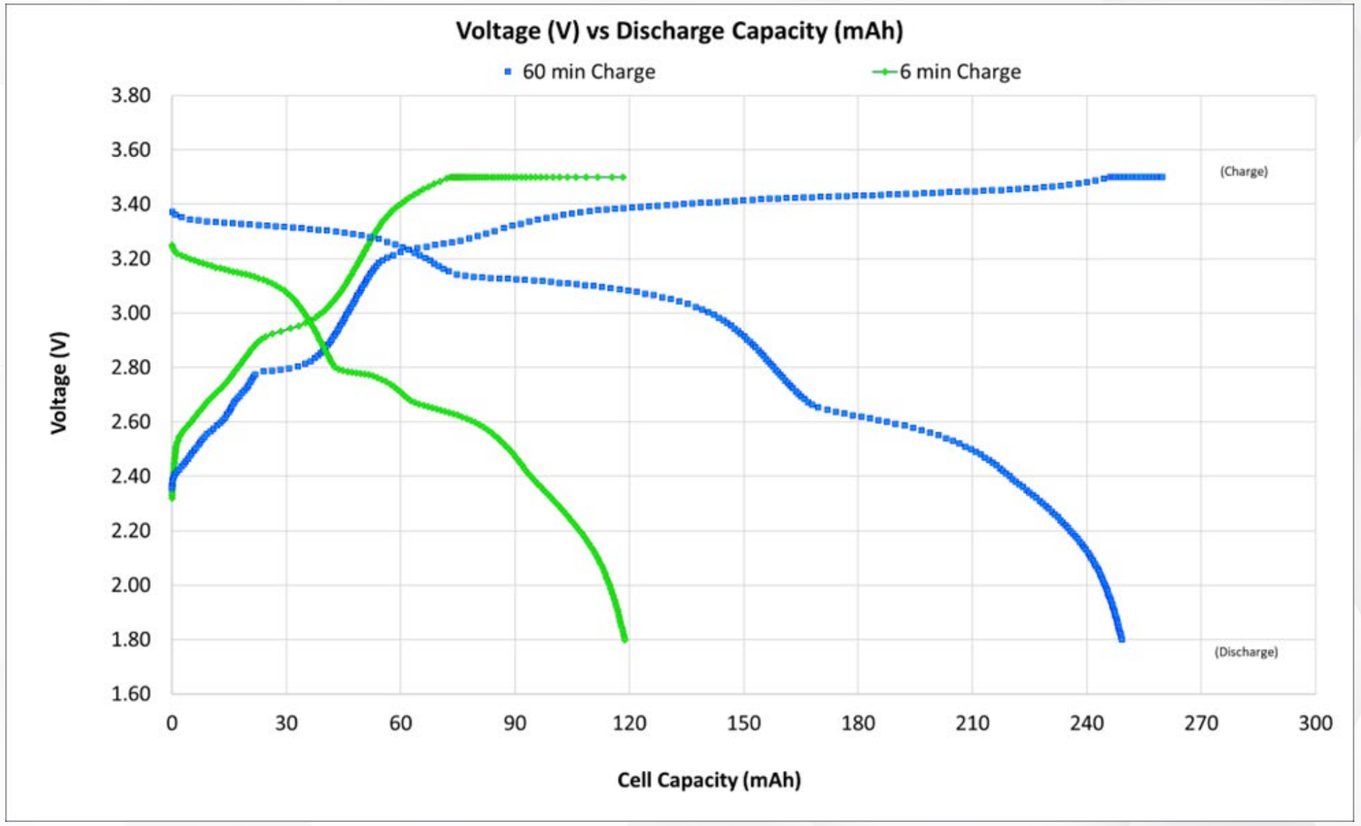
LFP: https://www.evlithium.com/catl-battery-cell/catl-150ah-lifepo4-battery-cell.html
LNMC: https://keheng-battery.com/product/catl-nmc-3-7v-151ah-high-energy-density-battery-for-ev/
LTO: https://www.global.toshiba/ww/products-solutions/battery/scib/product-next/product/cell/high-power.html
Lead Acid: https://www.altronics.com.au/p/s4530-12v-3.5ah-sealed-lead-acid-sla-battery/?srsltid=AfmBOoqZGMEIsX__YYOuRLC3nvYDFtNkf35qZYuYeoh3ACf4wrrOLISD
https://findingspress.org/article/21459-impact-of-charging-rates-on-electric-vehicle-batt

GRAPHENE ALUMINIUM ION BATTERY ADVANTAGES

Pouch Cell Samples

Expected Battery Pack Design

Charge and Discharge Curves



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GRAPHENE ALUMINIUM ION BATTERY ADVANTAGES

Potential Applications

- **DIESEL ENGINE REPLACEMENT (HIGH LOAD & POWER REQUIREMENTS)**
- **ENERGY STORAGE (IN FRONT OR BEHIND THE METER)**
- **ELECTRIC VEHICLES**
- **AVIATION (ELECTRIC VERTICAL TAKE OFF & LANDING)**
- **RAIL**
- **PERSONAL ELECTRONICS (FAST CHARGING & LONG LIFE)**
- **POWER TOOLS (FAST CHARGING & LONG LIFE)**

Similar to LTO Batteries

LTO battery energy density range **from 50 – 80 Wh/kg** (compared **to 58 Wh/kg** for GMG's G+A Battery currently)

Sales of LTO Batteries in **2025 : US$5.6 billion**

Sales expected to grow at 10% per annum to an estimated **US$ 12.5 billion by 2030.**

The major manufacturers of LTO batteries include **Toshiba, Gree, Microvast and CATL.**

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Sources: https://www.grepow.com/blog/battery-energy-density.html
Lithium Titanate Oxide Battery Market Size, Share & 2030 Growth Trends Report

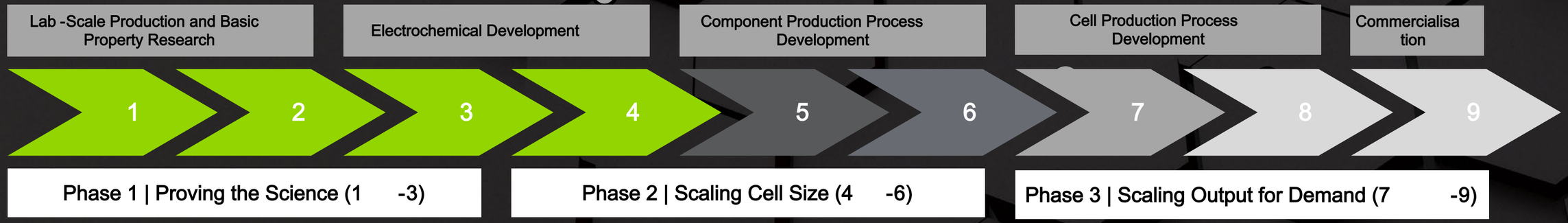
BATTERY TECHNOLOGY READINESS LEVEL (BTRL)

Rio Tinto is GMG's Joint Product Development Partner for use of the battery in heavy mobile equipment & grid energy storage applications in the mining and mineral industry

GMG Progress

G+Al Battery has progressed to BTRL 4

GMG is currently optimizing electrochemical behaviour for pouch cells



BIC Indiana is a world leading battery innovation centre which has completed over 500 battery development projects to date

COLLABORATION:

- CELL MODEL & DESIGN
- ELECTROLYTE DEVELOPMENT
- CATHODE MANUFACTURING
- CELL ASSEMBLY
- MATERIAL SUPPLY
- SEMI AUTOMATED CELL PLANT

GMG has engaged BIC with a monthly fee service to support BTRL 4 to 8 battery development.

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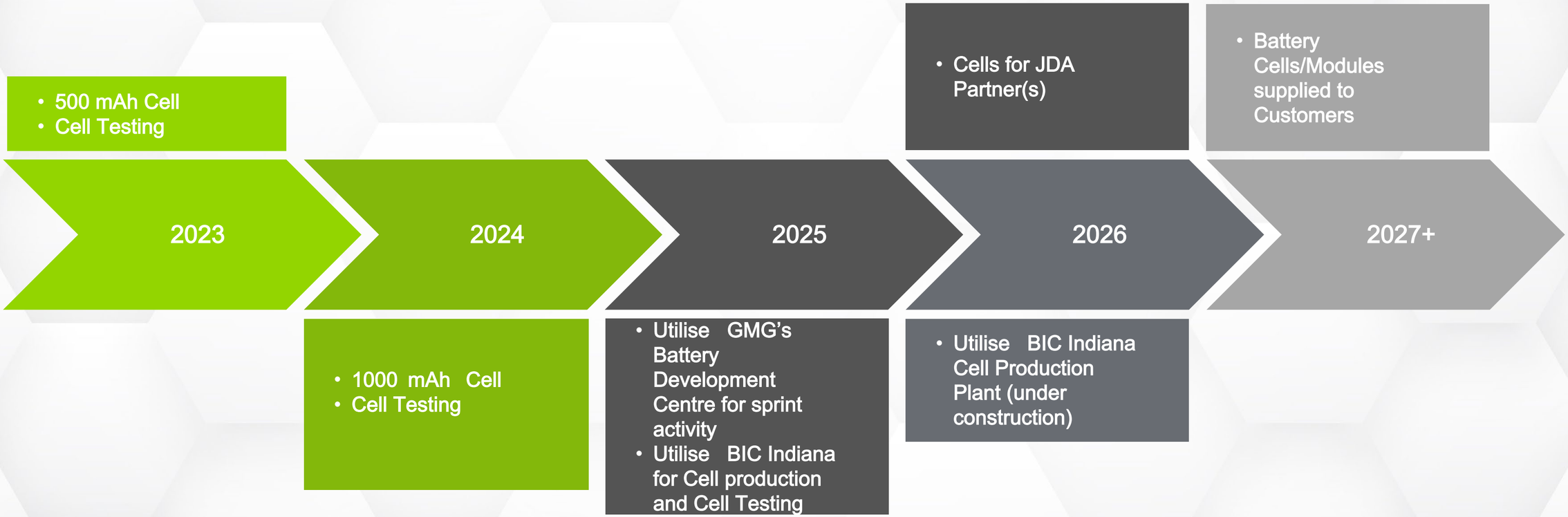
BATTERY CELL ROADMAP



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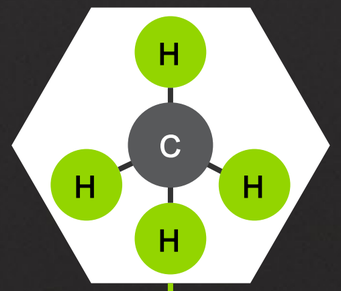
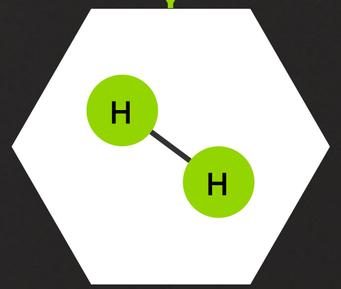
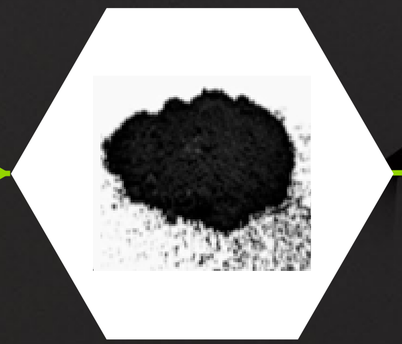
GMG OPERATIONS

NATURAL GAS





HYDROGEN
enriched Natural Gas



GRAPHENE MANUFACTURING PLANT

Phase 1
Operational

HEAT EXCHANGER COATING
Coating Blending Plant
(<2% Graphene)

1 Million Litres p.a.
Operational

®LUBRICANT
Lubricants Blending Plant
(<1% Graphene)

Blend Plant
Operational

GRAPHENE SLURRY
(~90% Graphene)

Pilot Production Plant
Operational

ALUMINIUM-ION BATTERY TECHNOLOGY
(~50% Graphene)

Battery Development Centre
Operational

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MATURING FINANCIAL CAPABILITY

Build Revenue

Maturing sales and marketing team, processes and systems

New Distributors in Asia, Europe & North America (Pending full EPA Approval for USA)

NDA's with global companies targeting increase in sales

Develop

First leading segment partner Rio Tinto JDA (AU$ 6M)

Exploring JDA's with other global sector leaders for the battery.

Partner

Australian Government R&D Tax Rebate Support (2025: AU$ 2.0M)

Exploring Grants and incentives

Cash on Hand

AU$12.9M (a)

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(a) As at September 30, 2025

(b) As at January 11, 2026

Canada's TSX-V (TSX Venture) Exchange **GMG**

Shares Outstanding

122,797,601 (b)

Market Capitalization

~C$321 M (b)

Options

2,903,483 (a)
WAEP AU$1.26

Warrants, RSUs

17,884,584 (b)
WAEP AU$1.60
2,460,952 (a)

INVESTMENT THEME COMPARABLES

		GMG Graphene Manufacturing Group	Other graphene companies
1	PROPRIETARY LOW COST SCALABLE GRAPHENE PRODUCTION TECHNOLOGY	✓	✓
2	PATENTED OR PATENT PENDING GLOBAL SCALE HIGH MARGIN APPLICATION WORLD LEADERS	✓	✓
3	LOW COST SCALABLE PRODUCTION TECHNOLOGIES FOR COATINGS, LUBRICANTS AND BATTERIES	✓	
4	DEVELOPING GRAPHENE SPRAY COATING BUSINESS	✓	
5	DEVELOPING BULK GRAPHENE COATING SUPPLY BUSINESS	✓	
6	DEVELOPING SMALL PACK DISTRIBUTION GRAPHENE COATING BUSINESS	✓	
7	DEVELOPING BULK GRAPHENE LUBRICANT ADDITIVE BUSINESS	✓	
8	DEVELOPING SMALL PACK DISTRIBUTION BUSINESS GRAPHENE LUBRICANT ADDITIVE	✓	
9	DEVELOPING BULK SUPPLY BUSINESS OF GRAPHENE ADDITIVE FOR LITHIUM ION BATTERY	✓	
10	DEVELOPING NEXT GEN BATTERY TECHNOLOGY ALUMINIUM ION	✓	
11	DEVELOPING NEXT GEN BATTERY TECHNOLOGY ALUMINIUM ION ELECTROLYTES	✓	
12	POISED FOR MULTIPLE SOURCES OF SIGNIFICANT POTENTIAL REVENUE WITH LOW COSTS	✓	

INVESTMENT HIGHLIGHTS

1. Proprietary Low-Cost Scalable Production Technology
2. High Margin First to Market in Global Scale Sectors
3. Multiple Revenue Opportunities Poised For Growth
4. Energy Efficiency & Energy Storage Market Forces
5. Potential Expansion to North America

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Transformative Graphene Energy Solutions

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