

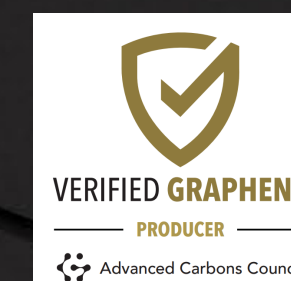


Graphene Manufacturing Group

TSX-V:GMG
OTCQX:GMGMF

TRANSFORMATIVE GRAPHENE ENERGY SOLUTIONS

 graphenemg.com



GMG is a certified Verified Graphene Producer[®] - independently verified by the Advanced Carbons Council (ACC) through rigorous in-person facility inspections and world-class material characterization.

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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 conflicts in Eastern Europe and the Middle East. 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; (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 conflicts in Eastern Europe and the Middle East 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. Any of the foregoing risks could materially and adversely affect the Company's business, financial condition, or results of operations. 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. The forward-looking statements herein are made as of the date of this Presentation only, and the Company does not assume any obligation to update or revise them to reflect new information, estimates or opinions, future events or results or otherwise, except as required by applicable law. Historical statements contained in this Presentation regarding past trends or activities should not be taken as a representation that such trends or activities will continue in the future. In this regard, certain financial information contained herein has been extracted from, or based upon, information available in the public domain and/or provided by the Company. In particular, historical results should not be taken as a representation that such trends will be replicated in the future. No statement in this document is intended to be nor may be construed as a profit forecast. 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. This presentation does not constitute an offer to sell or a solicitation of an offer to buy any securities.

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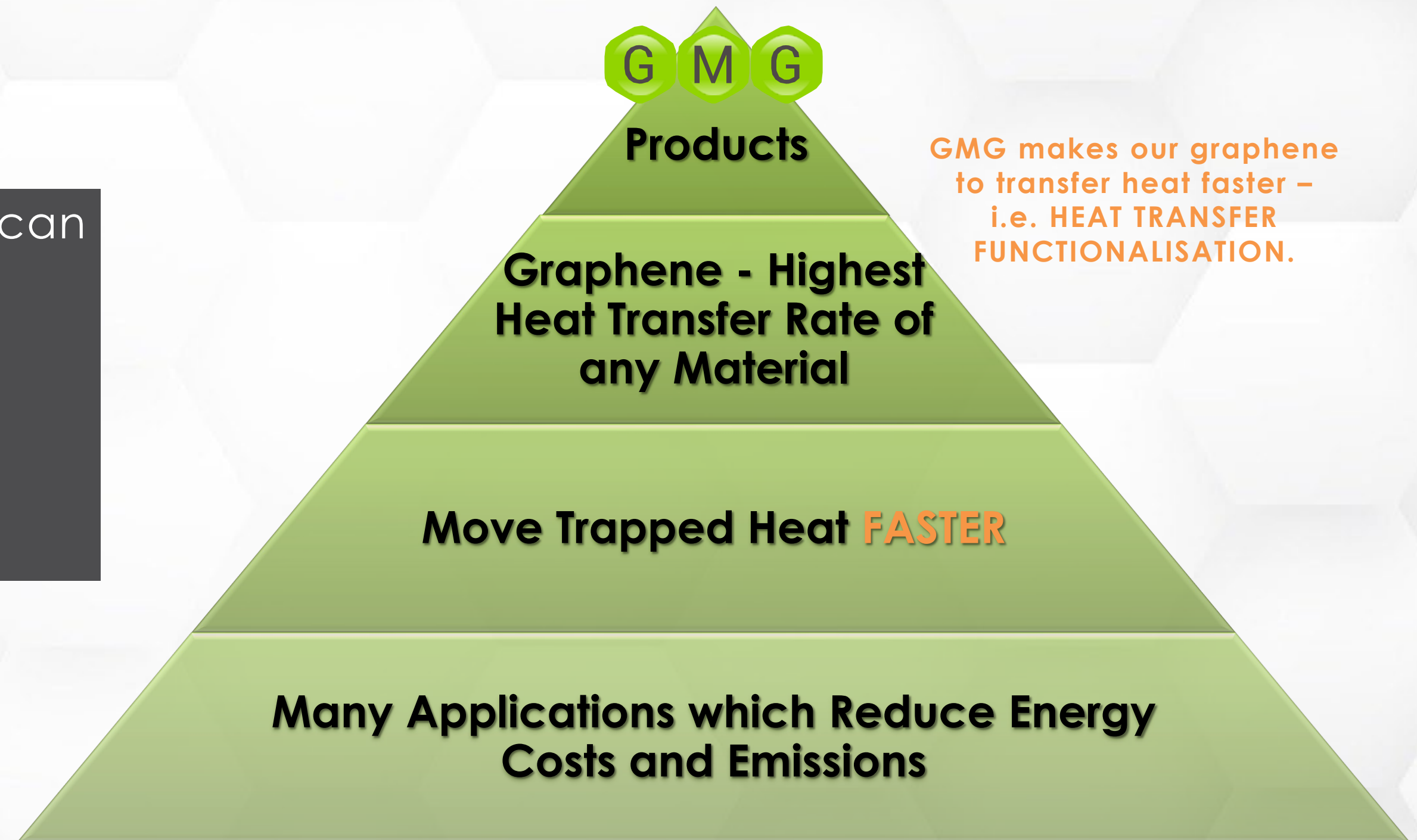


OUR PRODUCTS SOLVE ONE PROBLEM: **TRAPPED HEAT**

Our Products move heat **FASTER** through the use of GMG's Graphene

When Heat is moved **FASTER** it can provide four outcomes:

1. Cost and energy savings,
2. Time efficiencies gained,
3. Equipment life extension,
4. Less emissions



Source: International Energy Agency (IEA) — "Energy Efficiency 2023" report - States that thermal management improvements in buildings and industry represent the largest single opportunity for energy cost reduction globally. <https://www.iea.org/reports/energy-efficiency-2023>

HIGH MARGIN, SCALABLE & DISRUPTIVE APPLICATIONS

GMG targets two major markets:



ENERGY EFFICIENCY: Graphene coatings, lubricant additive and lithium-ion battery additive improve efficiency in HVAC-R⁽¹⁾, engines⁽¹⁾ and lithium-ion batteries⁽¹⁾. 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 intended to ultimately 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

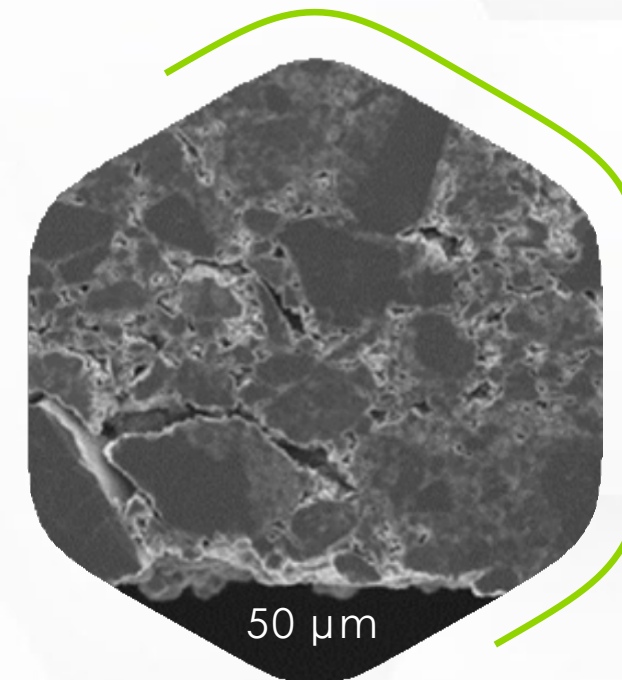
N. America Distribution Partner



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



(1) Third party testing and validation data available on www.graphenemg.com

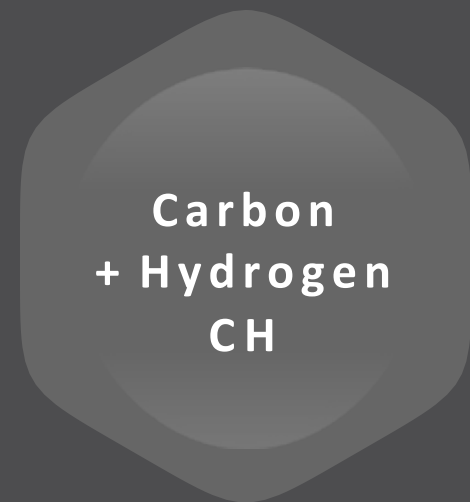
PROPRIETARY CLEAN TECHNOLOGY PLATFORM

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.

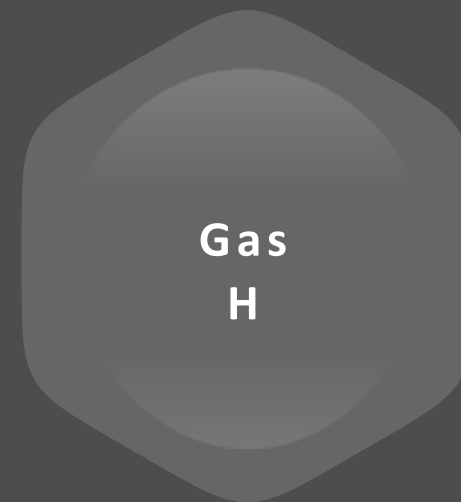
NATURAL GAS METHANE



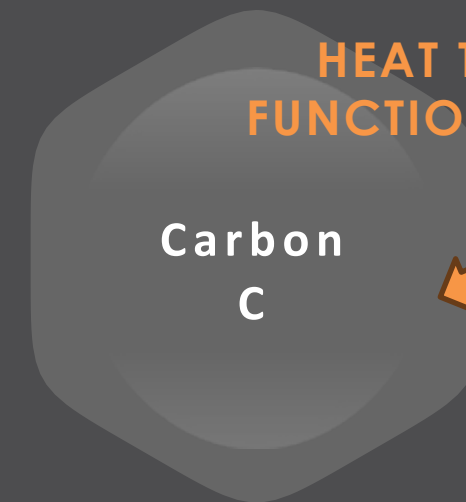
Electric Plasma



HYDROGEN



GRAPHENE POWDER



HEAT TRANSFER
FUNCTIONALISATION



Bypassing:

- Graphite Mining & Processing;
- Acetylene (which is made from Natural Gas) to Graphene.

→ 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

 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.

LAUNCH:

AUSTRALIAN ROLL OUT OF THERMAL-XR[®] COATING ON BEIJER REF COILS

Available from
BEIJER REF
Australia



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**



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



ENG

DEU

FRA

SPA

ITA

POR

POL

TUR

IND

VIE

HIN

CHI

JPN

KOR

THA

ARA

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



SIGNIFICANT REVENUE GENERATING OPPORTUNITIES

-  Sales Team Members
-  Countries with Product Testing & Sales Activity



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.



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.

RioTinto



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

Product
Deployment &
Manufacturing
Testing

Various OEM's
& Distributors

Various OEM's
& Distributors

Various OEM's
& Distributors

Product Testing

Commercial Supply
Arrangements



Global Data Center Industry
Innovation Challenge Winner



Product
Excellence Award
- HVAC

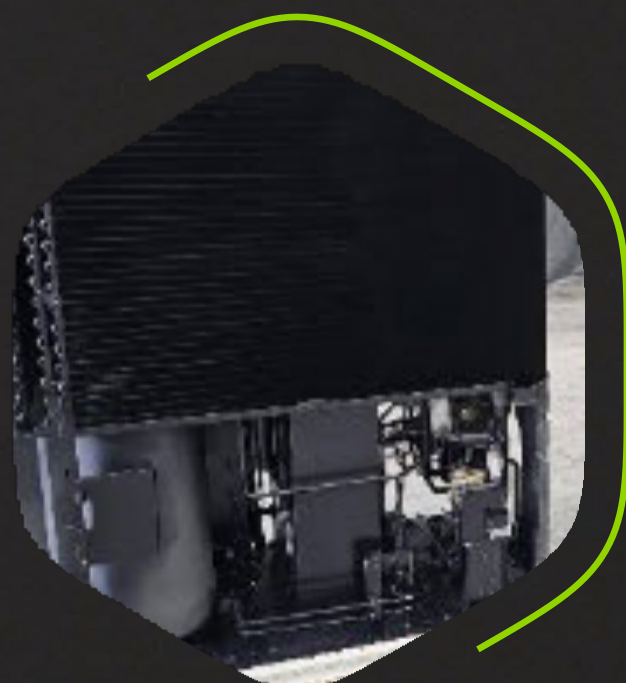


GOOD



AIRAH 2024
AWARDS

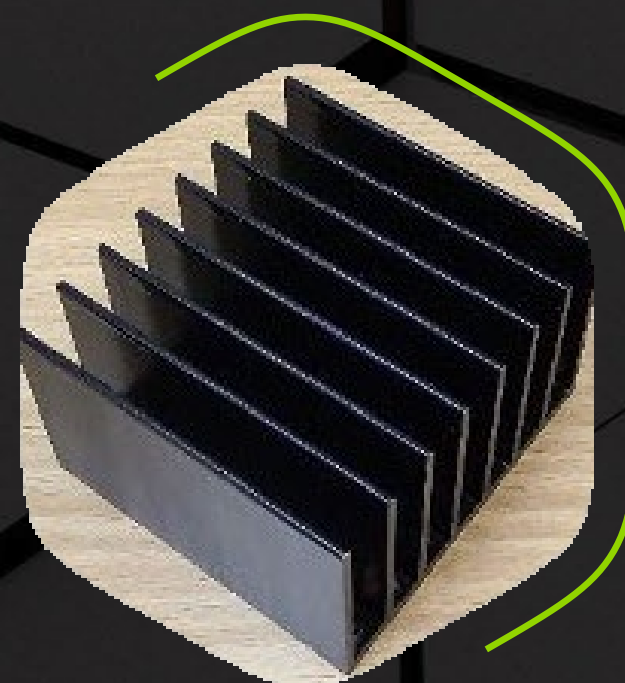
Australian Air Conditioning
Industry Product of the Year



AIR CONDITIONERS



INDUSTRIAL PLANTS



HEAT SINKS
FOR ELECTRONICS



DATA CENTRES



REFRIGERATION



Graphene Manufacturing Group

THERMAL-XR[®] DISTRIBUTION



DISTRIBUTION/LOGISTICS

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

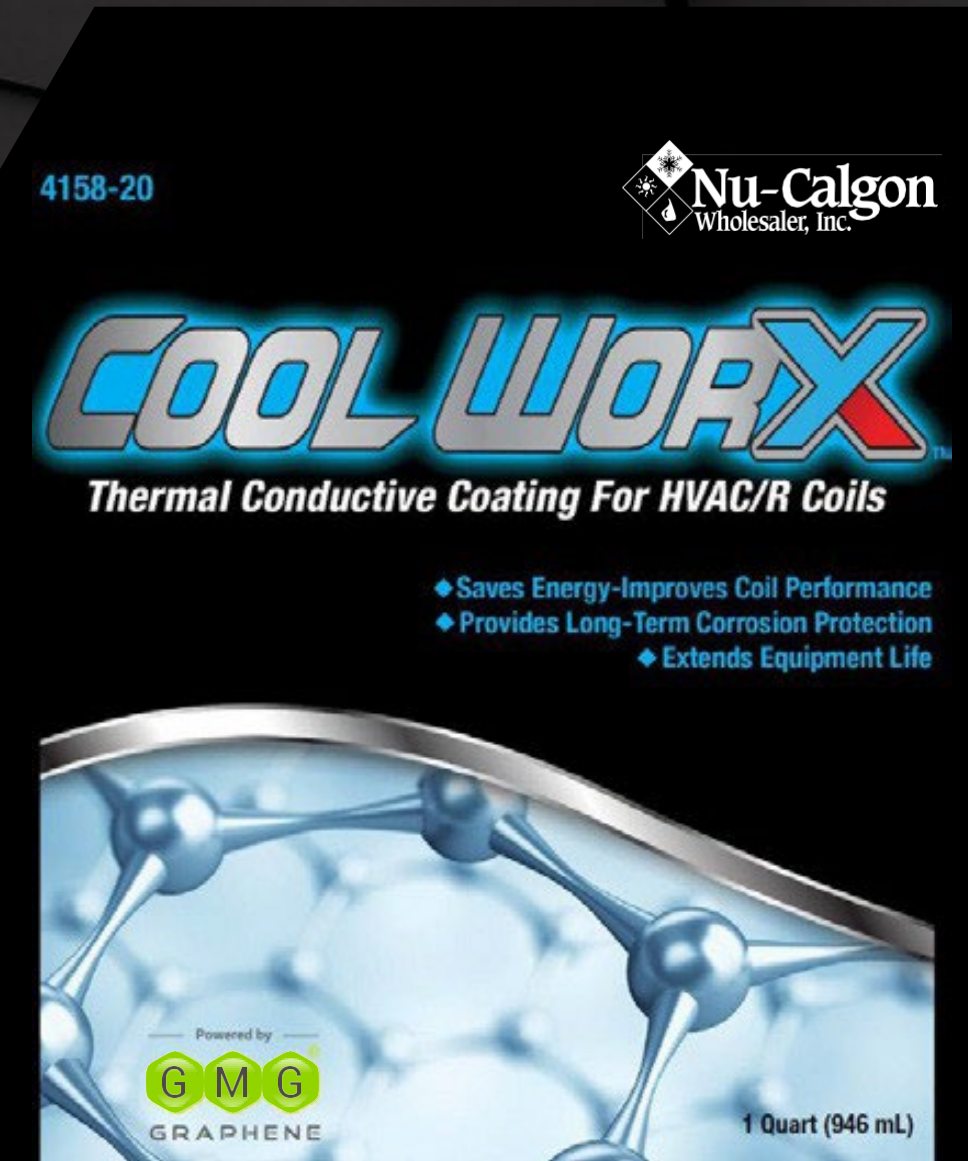
- Nu-Calgon is the largest specialty chemical provider to the HVACR market
- 37 person sales team; 4000 distribution points
- Cool Worx is Nu-Calgon's private brand name for THERMAL-XR[®]
- Nu-Calgon introduced COOL WORX to the HVACR industry at the Chicago AHR Expo in January 2024, generating strong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

GMG is distributing THERMAL-XR[®] 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 has now approved the import and sale of GMG's THERMAL-XR[®] graphene-based coating system in the United States.



G[®] LUBRICANT PERFORMANCE

 ↓ **10%**

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

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



500 ml
16.9 fl oz



50 ml
1.7 fl oz



→ **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

~ **30%**
of fuel burned
is to overcome friction.

> **60%**
of engine friction
is generated in the
piston area.



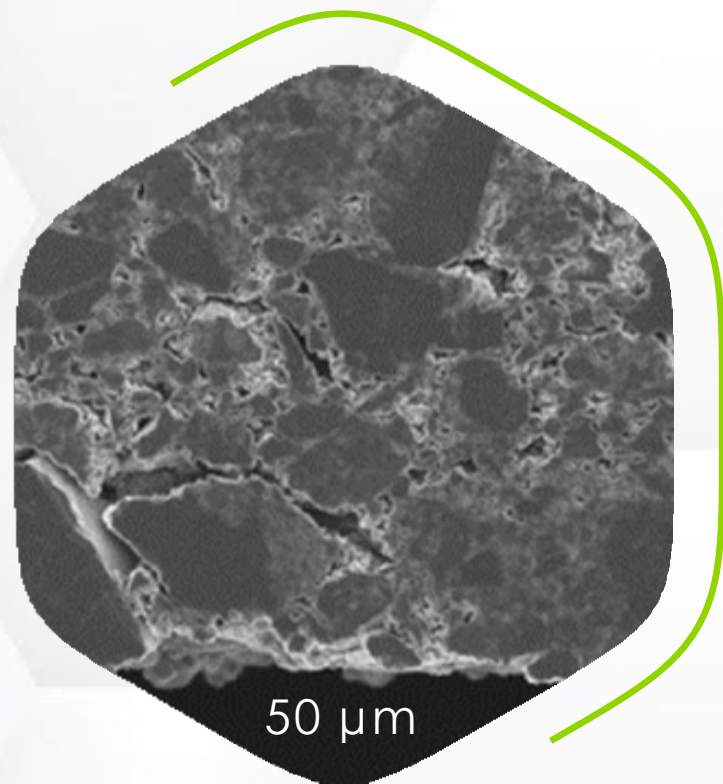
Graphene Manufacturing Group

* Results vary and the figures are sourced from University of Queensland verified GMG internal engine testing, 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. The Company notes that product performance results may vary for difference applications over time.

TRANSFORMATIVE **GRAPHENE** ENERGY SOLUTIONS

GRAPHENE ADDITIVE FOR LITHIUM-ION BATTERY

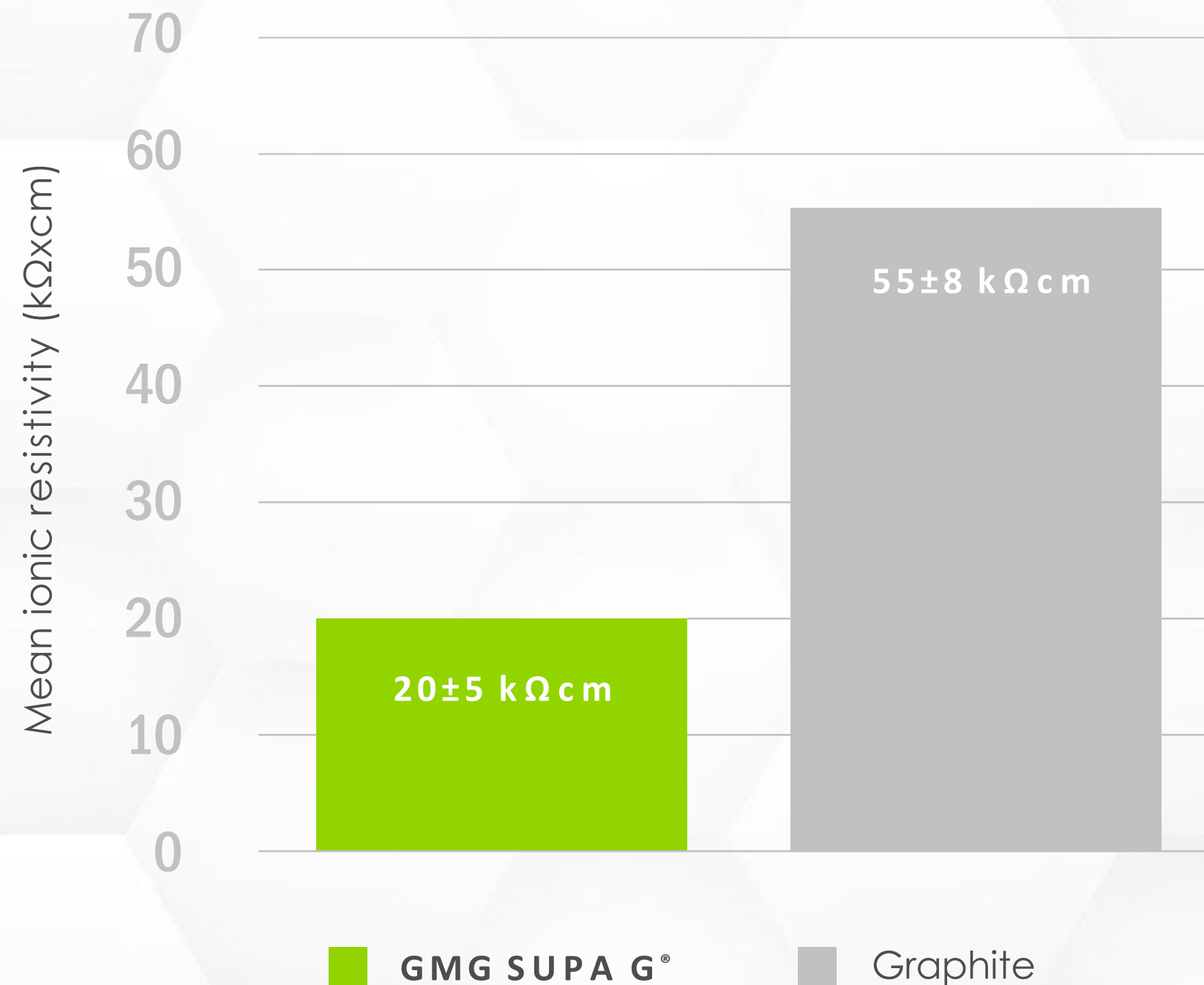
- GMG's **SUPA G**[®] is an additive for Lithium-Ion Batteries
- It can be used as a Cathode Additive (1%) and/or after further development, management believes it has potential for an Anode Alternative to Graphite – which is largely export controlled from China
- BIC Indiana is currently testing **SUPA 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

→ Apparent ionic resistivity 2.5× lower than compared to typical graphite electrode

→ Multimodal active particle distribution (~20 μm large particles + sub-1 μm particles)

→ Calendaring does NOT significantly damage the binder layer



GRAPHENE ALUMINIUM ION BATTERY ADVANTAGES



BATTERY DEVELOPMENT UPDATE

6 Minute Fast Charging Performance

Battery prioritizes durability and power capability over energy density

Energy Density of Different Chemistry Batteries at 6 min charging time

	G+A CELLS (APR'26)	G+A CELLS (DEC'25)	HIGH POWER LTO (LEADING BRAND)
Energy Density (Wh/kg) when charged in 6 minutes (10C)	49	26	37

*Testing data provided by BIC Indiana.

Exceeding performance of Lithium Titanate Oxide (LTO) Batteries which can be priced up to US\$1200 / kWh for their long-life high performance

LTO <https://www.global.toshiba/ww/products-solutions/battery/scib/product-next/product/cell/high-power.html>
 Source: <https://graphenemg.com/gmg-doubles-energy-density-of-6-minute-charging-graphene-aluminium-ion-battery/>



RioTinto

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

TARGETED BATTERY USE CASE:

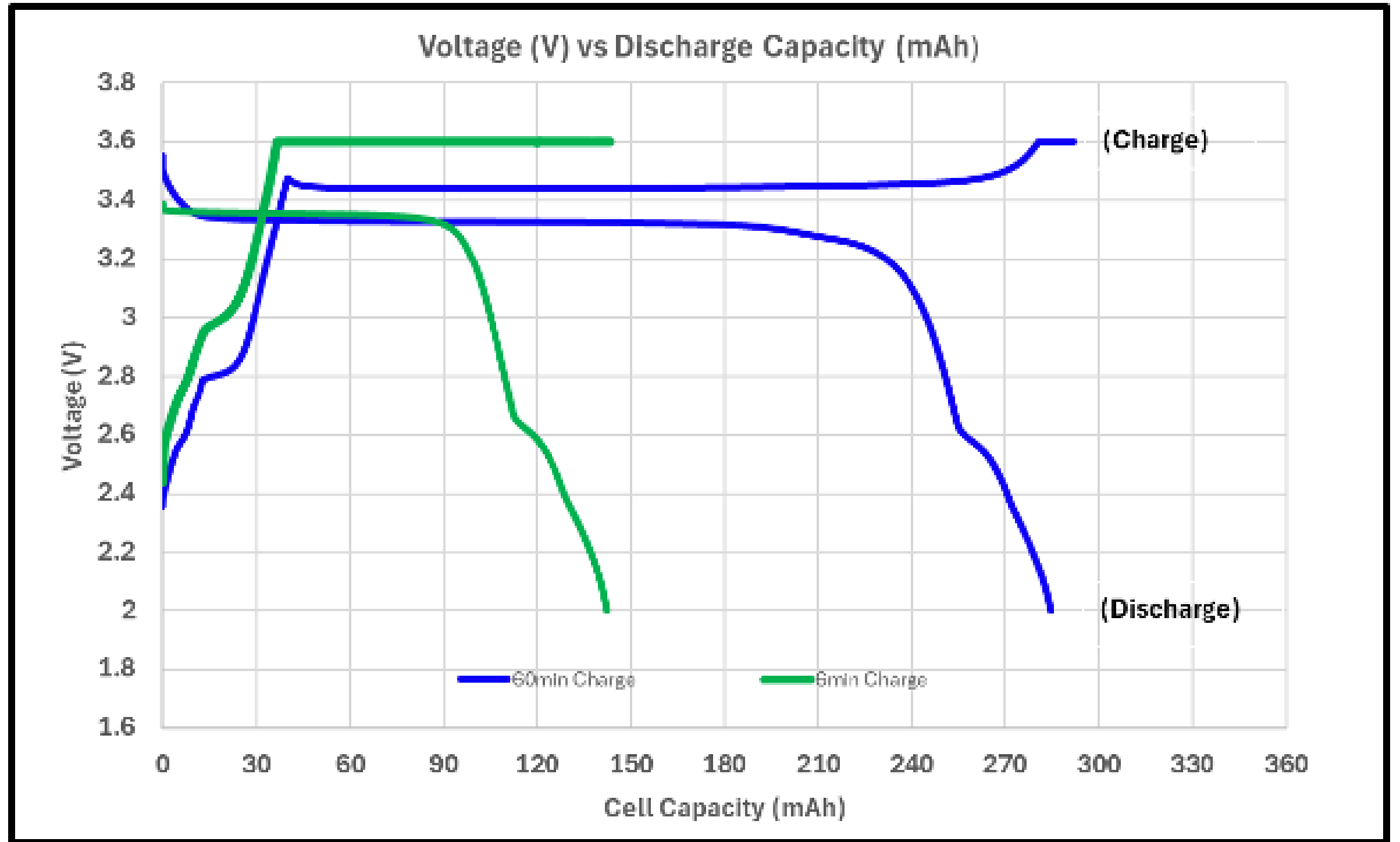
- Business/Industrial use vehicles
- Safety First – no Lithium chemical fires
- Similar recharging time as diesel refueling (~5 mins)
- Long life cycle > 1000 cycles ++
- Energy Density enough to be economic (>100 Wh/kg)
- Strategic Supply Chain and Simplicity
- High value / Low overall cost (when produced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

GRAPHENE ALUMINIUM ION BATTERY ADVANTAGES

POUCH CELL
SAMPLES



EXPECTED
BATTERY
PACK DESIGN



Battery performance curves of G+A CELLS at 60 min and 6min charge (1C & 10C)

*Testing data provided by BIC Indiana.

Source: <https://graphenemg.com/gmg-doubles-energy-density-of-6-minute-charging-graphene-aluminium-ion-battery/>



GRAPHENE ALUMINIUM ION BATTERY ADVANTAGES

POTENTIAL APPLICATIONS



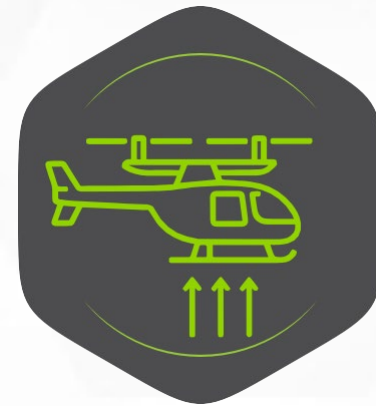
DIESEL ENGINE REPLACEMENT
(high load & power requirements)



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)

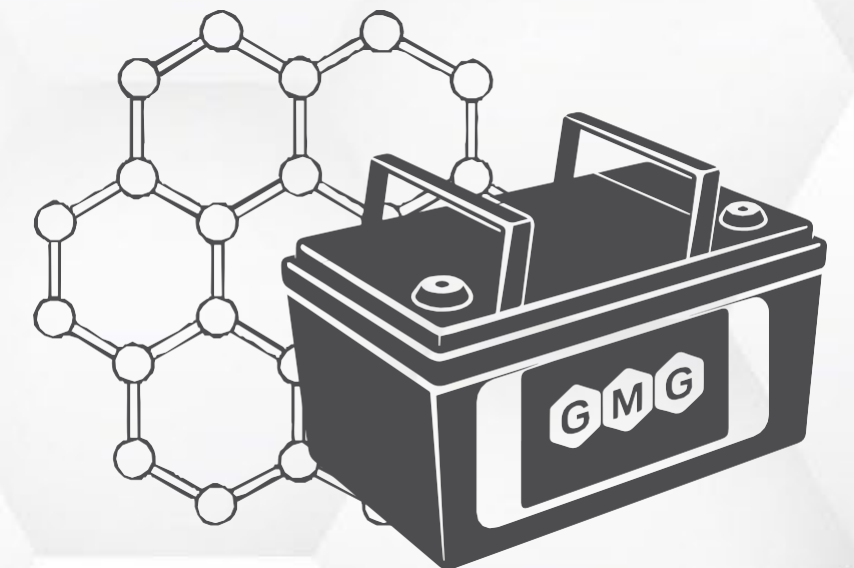
SIMILAR TO LTO BATTERIES

→ LTO battery energy density range from **50 – 80 Wh/kg¹** (compared to **101 Wh/kg** for GMG's latest G+Al Battery when charged in 60 minutes at 1C)

→ Sales of LTO Batteries in **2025 : US\$5.6 billion²**

→ Sales of LTO Batteries expected to grow at **10%** per annum to an estimated **US\$ 12.5 billion by 2030²**

→ The major manufacturers of LTO batteries include **Toshiba, Gree, Microvast and CATL²**



Sources:

1. <https://www.grepow.com/blog/battery-energy-density.html>
2. [Lithium Titanate Oxide Battery Market Size, Share & 2030 Growth Trends Report](#)

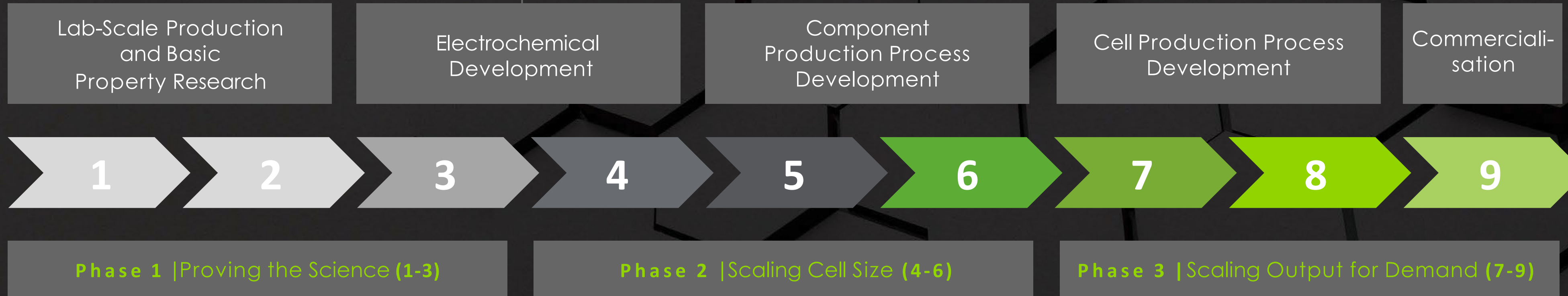
BATTERY TECHNOLOGY

READINESS LEVEL (BTRL)

GMG Progress

G+AI Battery has progressed to BTRL 4

GMG is currently optimizing electrochemical behaviour for pouch cells



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

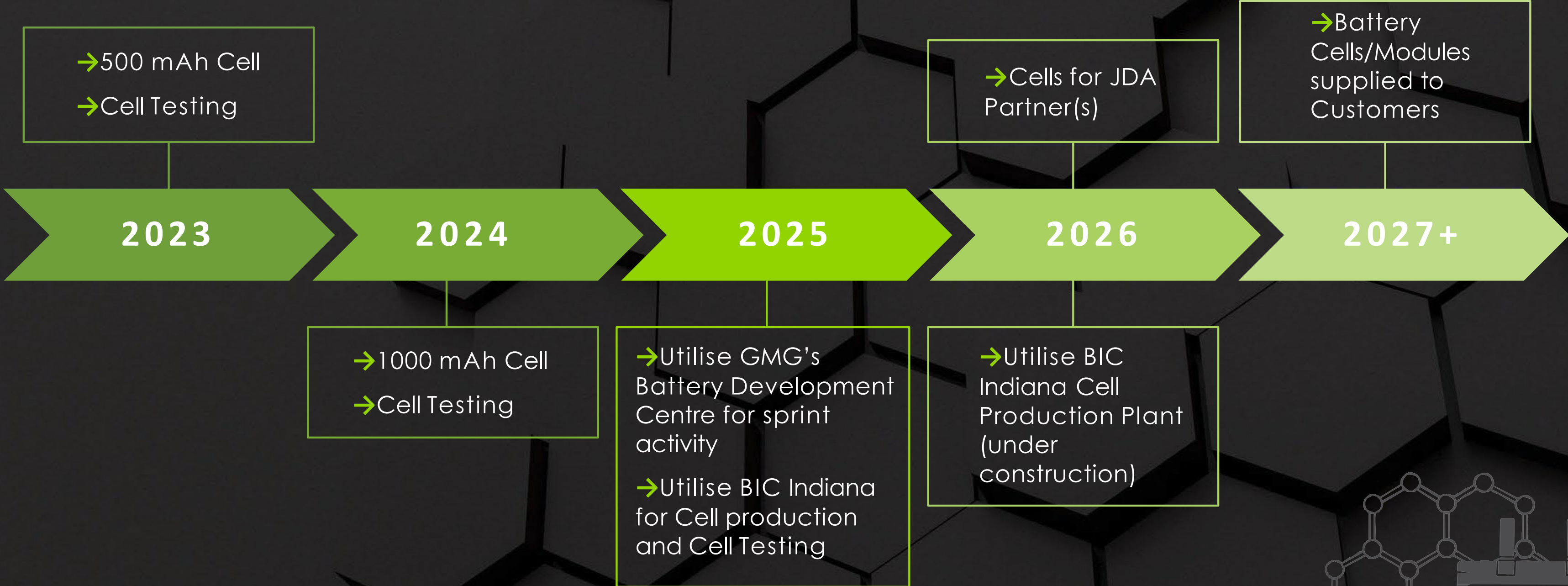
COLLABORATION:

- 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.

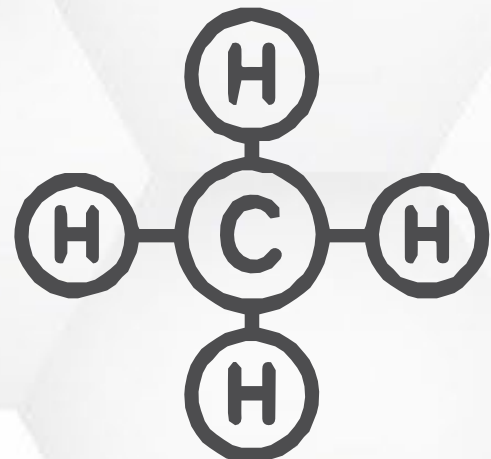


BATTERY CELL EXPECTED ROADMAP



GMG OPERATIONS

NATURAL GAS



HYDROGEN
enriched Natural Gas



Graphene Manufacturing Group

GRAPHENE
MANUFACTURING
PLANT

Phase 1
Operational



HEAT TRANSFER
FUNCTIONALISATION



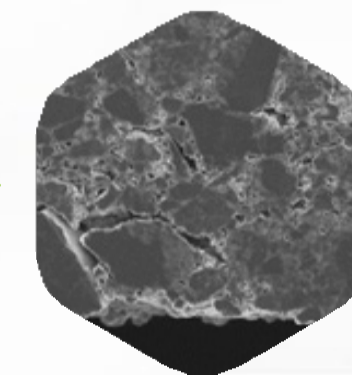
HEAT EXCHANGER
COATING
Coating Blending Plant
(<2% Graphene)

1 Million Litres p.a.
Operational



G* LUBRICANT
Lubricants Blending Plant
(<1% Graphene)

Pilot Blend Plant
Operational



SUPA G*
GRAPHENE SLURRY
(~90% Graphene)

Pilot Production Plant
Operational



ALUMINIUM-ION
BATTERY TECHNOLOGY
(~50% Graphene)

Battery Development
Centre
Operational

GMG PRODUCTION GROWTH PLANS

Potential Production
Expansion Target
Country

Potential Production
Expansion Target
Country

Once the Gen 2.0 Project is commissioned and operating, which is expected in mid 2026, GMG plans to replicate and establish other production plants in Australia, Canada and the US to:

1. Enable scaled production for potential sales
2. Diversify and lower production risks,
3. Reduce operating costs by with lower operating costs, including low cost natural gas

Potential Production
Expansion Target Country

Brisbane HQ



MATURING FINANCIAL CAPABILITY



BUILD REVENUE

Maturing sales and marketing team, processes and systems

New Distributors in Asia, Europe & North America (EPA Approved)

NDA's with global companies targeting increase in sales



DEVELOP

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

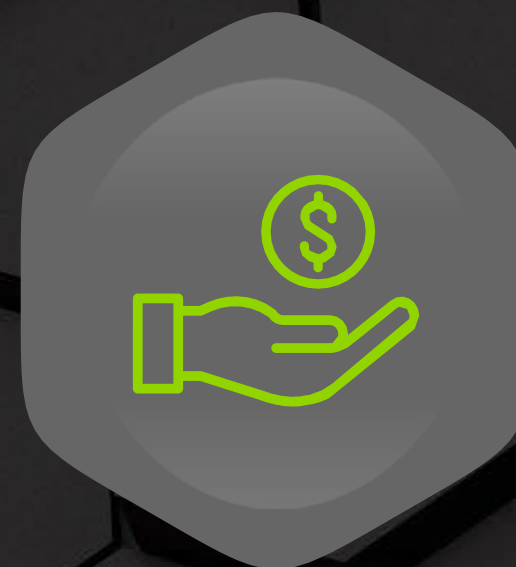
Exploring JDA's with other global sector leaders for the battery.



PARTNER

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

Exploring Grants and incentives



CASH ON HAND

AU\$13.9M^(a)

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



SHARES OUTSTANDING
124,864,894^(b)



MARKET CAPITALIZATION
~C\$287M^(b)



OPTIONS
2,526,238^(a)
WAEP AU\$1.39



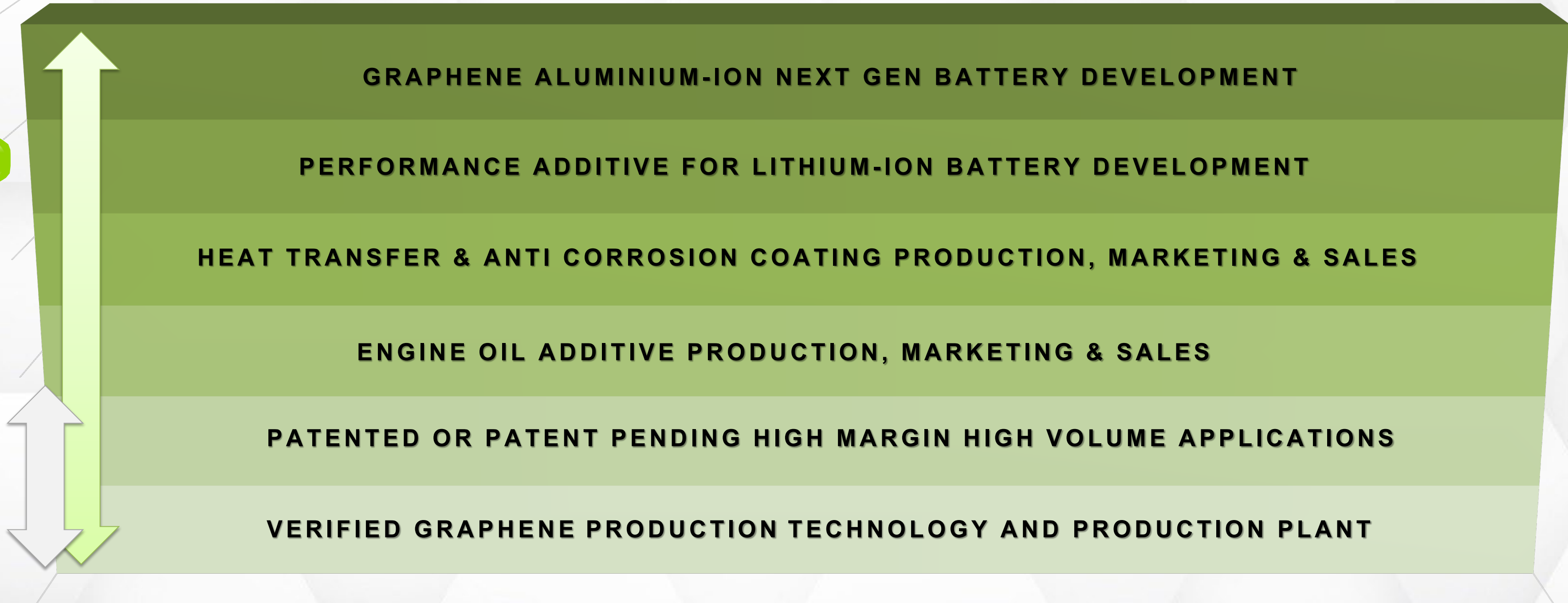
WARRANTS, RSUs
15,627,572^(b)
WAEP AU\$1.56
2,433,417^(a)

(a) As at December 31, 2025

(b) As at March 17, 2026



INVESTMENT **THEME** COMPARABLES



Other
graphene
companies



INVESTMENT HIGHLIGHTS

- 1 PROPRIETARY LOW-COST SCALABLE PRODUCTION TECHNOLOGY
- 2 HIGH MARGIN FIRST TO MARKET IN GLOBAL SCALE SECTORS
- 3 MULTIPLE POTENTIAL REVENUE OPPORTUNITIES
- 4 ENERGY EFFICIENCY & ENERGY STORAGE MARKET FORCES
- 5 POTENTIAL EXPANSION TO NORTH AMERICA






Graphene Manufacturing Group

TSX-V:GMG
OTCQX:GMGMF

TRANSFORMATIVE **GRAPHENE**
ENERGY SOLUTIONS

INVESTOR RELATIONS

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