GRAPHJET
TECHNOLOGY

Investor Presentation

December 2024

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The World's First Agricultural Waste Graphite/Graphene Producer

Transforming an abundant and renewable waste product, palm kernel shells, into the highest quality artificial graphite and graphene materials critical to EV batteries, semiconductors, medical technology, etc.

Commercial scale production began in November 2024, with a growing pipeline and contracted potential customers.

A secure source of supply to U.S. technology customers from reliable production sites in trade friendly Malaysia

Frost & Sullivan 2023 Awards for Technology Innovation Leadership, Entrepreneurship and Market Leadership in the Graphite and Graphene Industry

Graphjet's award winning proprietary manufacturing technology provides:

Up to 83% reduction in carbon footprint

Up to 80% reduction in cost

Team Overview

Our team is dedicated to clean and sustainable manufacturing of graphene and graphite materials using renewable waste products.

Aiden Lee Ping Wei
Chief Executive Officer

Mr. Wei has over 10 years of experience in the engineering, construction, property development, telecommunications, energy and utilities industries. He has completed and managed multi-billion high value listings in China, Hong Kong and Malaysia.

Aw Jeen Rong
Executive Director

Mr. Aw was appointed by a public listed company as a consultant to assist on expanding the group business to wide range of industries. He has years of experience in business development and cutting-edge businesses.

Liu Yu
Chief Operating Officer

Mr. Yu has vast knowledge in biodiesel, base oil, and heavy oil, and holds a number of patents and utility innovations from China and Malaysia. Extensive experience in the field of mining and investment fund management.

Investment Highlights

There is a growing global market for graphite and graphene necessary for critical applications in EVs and technology.

The global market for graphite was $17.5B in 2022, reaching a projected market size of $25B in 2027, with a CAGR of 7.3%

The current high demand for graphite and graphene, with Graphjet's reduced costs, drive a competitive sales model.

Graphjet's agriculture waste feedstock reduces the carbon footprint by up to 83% and provides a sustainable business model.

Vertical integration of Graphjet's material reduces costs by up to approximately 80%.

Graphjet's strong ESG proposition correlates with higher equity returns, from both a tilt and momentum perspective.

Graphite & Graphene Overview

Overview:

- **Graphite** is used in steel manufacturing and electronic devices.
  - Graphite, a strong **heat and energy conductor**, is used in electrical devices such as electrodes, batteries, and solar panels.
  - Graphite ranks above lithium as the key ingredient in the **lithium-ion battery.**
- **Graphene** is a high-profile revolutionary new material known for high conductivity, high strength and ultra-light weight also known as the "**black gold**" and the "**king of new materials**".
  - A two-dimensional carbon nanomaterial with a hexagonal honeycomb lattice composed of carbon atoms and SP2 hybrid orbitals.
  - Used in automobile composition and coating, **biomedical equipment**, electronics and home appliances, energy storage, **electric vehicle batteries**, strength enhancement, sensors, **semiconductors**, etc.

Applications:

Graphene is integral in the manufacturing of the high-technology products of the future.

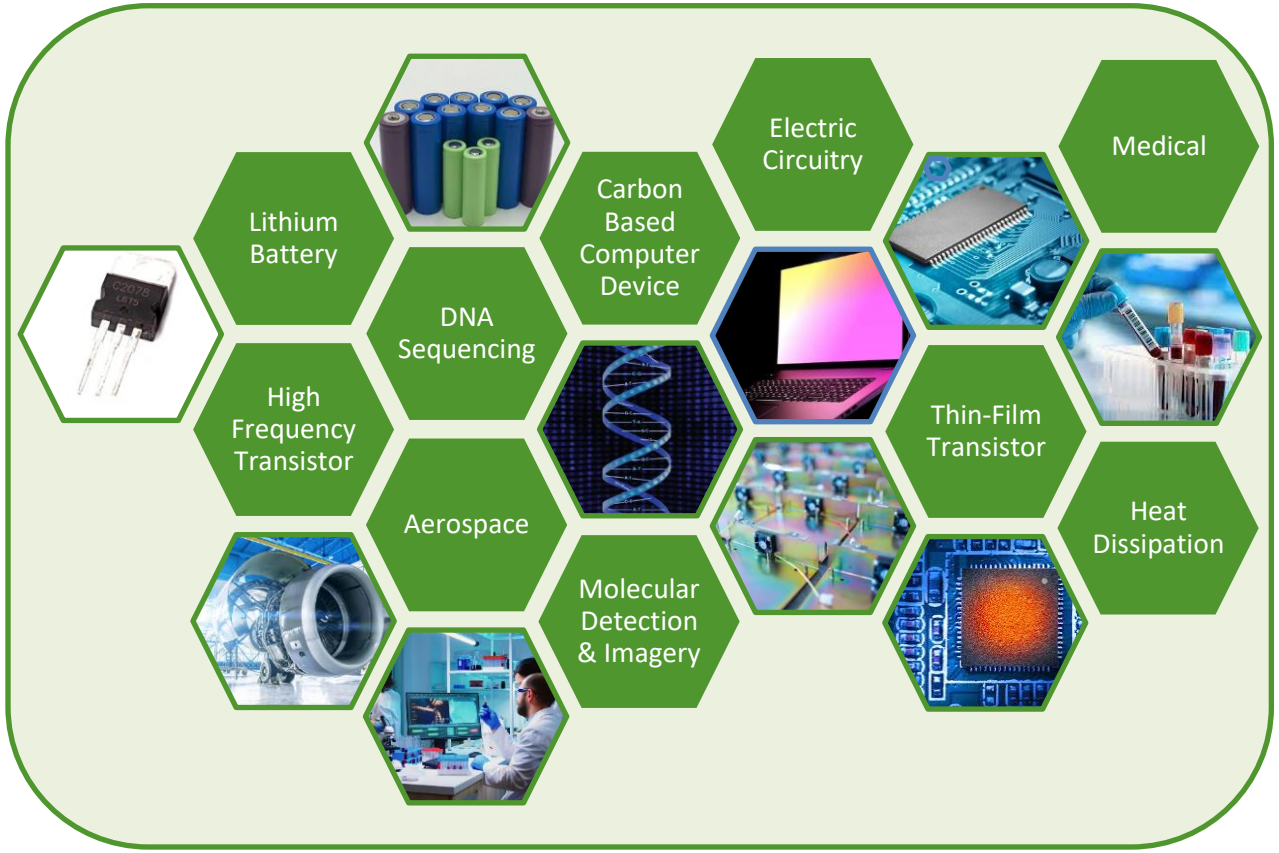


Image Source: NanoGrafi

Graphene Properties

The King of New Materials in the 21st Century

High Electric Conductivity

100 times better than silicon crystal or Nano-carbon

High Thermal Conductivity

10 times better than metals such as copper and aluminium

High Strength (Hardness)

Exceeds that of diamond, and the fracture strength is 100 times that of steel

High Transparency Level

Light transmittance up to 97.7%

High Specific Surface Area

Per gram is 1130m² higher than that of activated carbon, reaching 2630m2/g

Graphjet Proprietary Production & Manufacturing

Graphjet's state-of-the-art manufacturing plant:

30,000 Tons
Dried palm kernel shells
(after removal of waste moisture)

10,000 Tons
Palm Based Graphite

Graphjet is targeting future expansion to further enhance its production capabilities, potential initiatives include exploring opportunities in Nevada as a strategic location and aiming for significant capacity growth by 2026

Graphjet started production at its existing manufacturing plant in the Shah Alam district of Selangor State, Malaysia in Aug '24. Expects to open its manufacturing plant in USA in FY2026

Commercial scale manufacturing commenced in Subang district of Selangor State, Malaysia in November 2024, marking the first and only production of Biomass waste palm kernel shell based Green Graphite with capacity of 3,000 tons per year

Graphjet cares about the environment, as our processes use green technology for production eliminating emissions and pollutions

The potential amount of palm graphite and graphene in Malaysia:

At current levels of palm oil production, Malaysia will annually generate enough palm kernel shells to supply about 5 million tons of **dried palm kernel shells**.
The supply of palm kernel shell guarantees a **sustainable green and recyclable** source for the production of graphite and graphene.

ISO Certifications & Enhanced IP Position

Certifications for the manufacturing of graphite and graphene from biomass waste from ARES International

ISO 14001:2015

ISO 9001:2015

ISO 45001:2018

Strategic Advantages

Third-party validation of sustainable production processes

Enhanced market access and customer satisfaction

Granted key Malaysian patent for palm-based graphene production

Pursuing additional patents in the United States

These achievements validate Graphjet's position as a global leader in sustainable graphite and graphene production, demonstrating our commitment to environmental stewardship and quality manufacturing.

Operational Highlights of Our Factory

Efficient Feedstock Preparation: Supporting Sustainable Operations

Our skilled workers carefully handle palm kernel shells, ensuring consistent quality and supply for our production line, This step is crucial for maintaining the seamless operation of our innovative process, turning agricultural waste into high-grade graphite materials.

Optimized Production Line for Sustainable Innovation

A close look at our advanced production line, designed for maximum efficiency and environmental sustainability. This state-of-the-art setup processes palm kernel shells into premium-grade graphite, showcasing our commitment to cutting-edge technology and operational excellence.

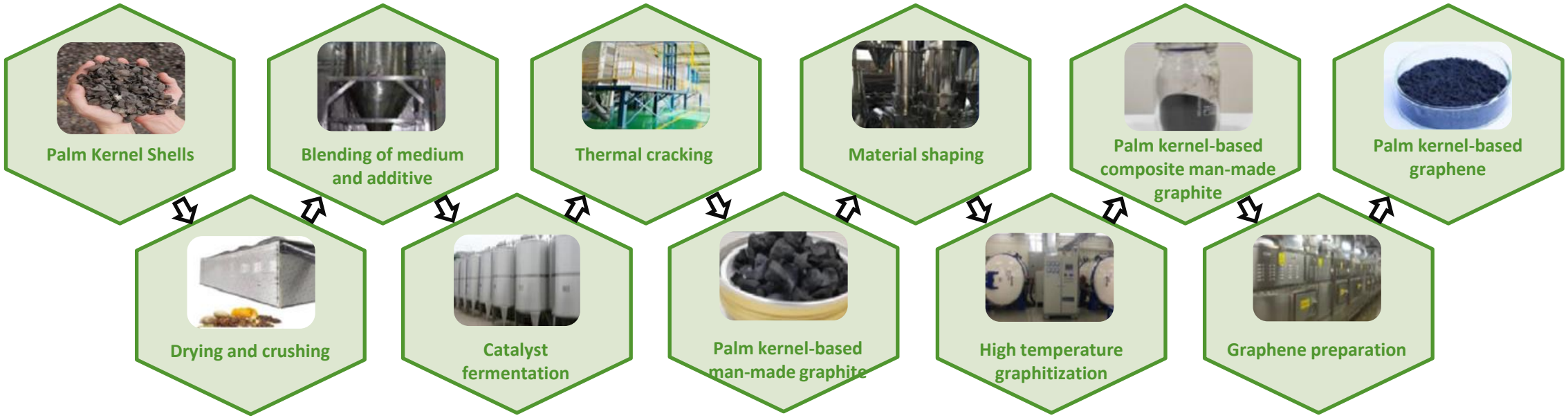
From Raw Materials to Finished Products

The white bag contain finished, high-grade graphite materials derived from palm kernel shells. These carefully packed products are a testament to our streamlined operations, emphasizing efficiency, quality control, and readiness for delivery to meet industry demands.

Graphjet Palm Kernel Shell Graphene

- Graphjet produces its own graphite, used as raw material to make graphene
- **Patented Technology** enables Graphjet to produce graphene cost-effectively and market it at about **80% less** than current **market price**
- Graphjet produces higher purity graphene than traditional sources
- Graphjet can remove the market volatility due to production inputs
- Graphene will be broadly available at lower cost, enabling worldwide technology advancement

Palm Kernel Based Graphene Production Flow Chart:



A Globally Responsible and Lower Cost Feedstock

Malaysia is the second largest palm kernel shell waste producer, generating **~5.0 million tons of palm kernel shells annually.** Graphjet easily sources raw materials and is able to produce at significantly **lower cost and at higher quality** compared to existing market suppliers.

Graphene	 **Mineral**	**(Commodity) Artificial Coal / Petroleum Based**	 **Palm Kernel Shell Graphene**
Single Layer Ratio	95-99%	N/A	**99%**
Purity	95%-99%	N/A	**99.++%**
Diameter Consistency	Low	N/A	**High**
Direct Material Cost (USD/ton)	6,000 to 10,000	N/A	**3,498 (made by Graphjet)**
Price (USD/gram)	$167 to $450	N/A	**$15**

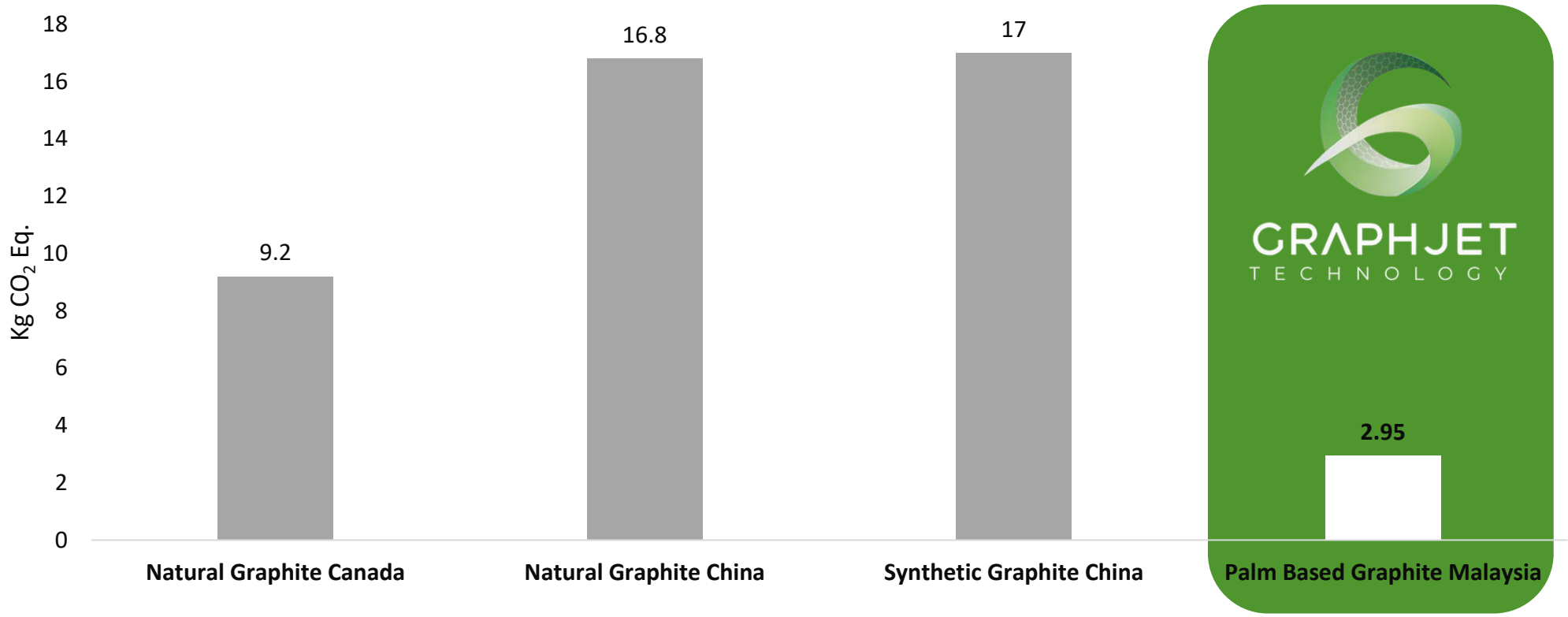
Graphite	 **Mineral**	 **(Commodity) Artificial Coal / Petroleum Based**	 **Palm Kernel Shell Graphite**
Resource Type	Natural Resources (limited resources)	Artificially made (limited resources)	**Unlimited**
Price (USD/ton)	$8,000 to $11,000, High	$20,000, High, Volatile Market	**$4,545** Cost Effective
Mass Production	**Yes**	**Yes**, but limited to coal mining / crude oil refinery and volatile prices	**Yes,** Annual Palm Kernel Shell production in Malaysia 5m tons

*Note: Exclusion of the coal/petroleum based artificial graphite source in this comparison table because it is not used in the industry to produce graphene.
Source: Market data and company estimates

Reduced Carbon Footprint

Graphjet's proprietary **palm kernel shell** graphite production **reduced carbon emissions by up to 83%** over competitors around the world.

Producing 1 kg of graphite generates the following carbon emissions (kg CO_2 Eq.):



Source: Norton Graphite Minviro Life Cycle Assessment February 2022

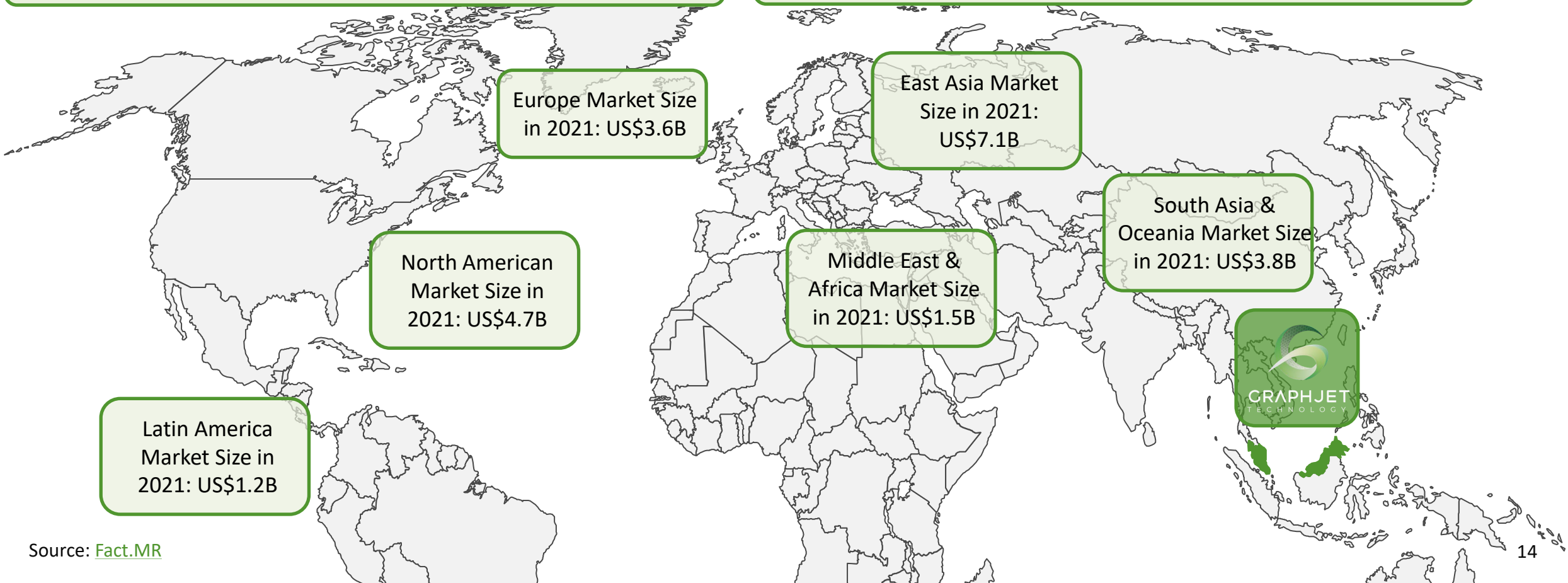
Global Market Value of Graphite

The global graphite market is anticipated to grow from US$22B up to US$50B at an 8.5% CAGR from 2021 to 2031.

Graphite is a vital cathode material used in EV batteries required to support the growth of EV manufacturing.

The market is slated to expand 2.3x over the next 10 years, thereby offering opportunities to market participants

Augmenting demand from the developing lithium-ion battery industry is rising steel production in Asia and the Middle East.



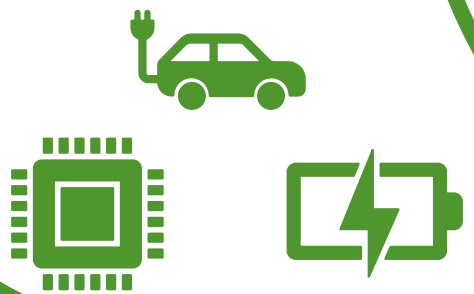
Source: Fact.MR

Massive Global EV Market

Graphene Dependency

Graphene is core component in Energy storage system, which is expected to grow steadily with rise in clean infrastructure

Graphene research and development (R&D) are making significant strides in the battery and semiconductor industries, offering a wide range of potential applications.



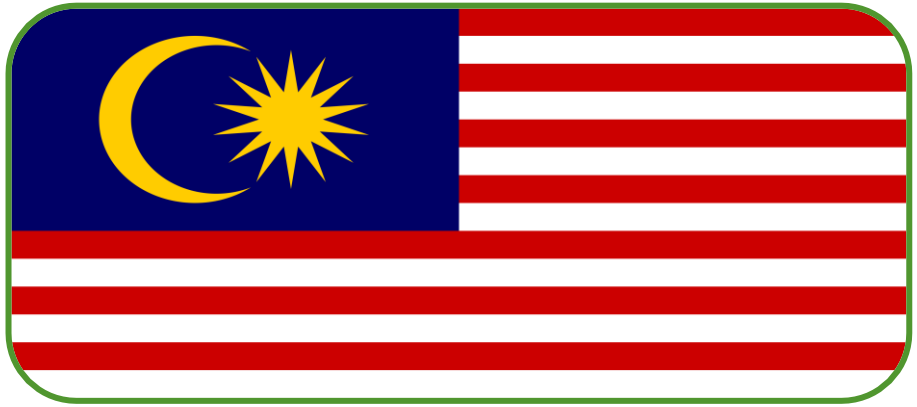
EV Market Growth

The global EV market is forecasted to grow at an estimated 29% CAGR 2020 to 2030

Automakers sold 6.6 million plug-in electric cars in 2021, more than double the 3.0 million sold in 2020.

Source: IEA Global EV Outlook 2021; Deloitte Insights Electric Vehicles: Setting a course for 2030

Business Partners and Corporate Members



Our Partners and Corporate Members:

MIT Industrial Liaison Program

World Economic Forum

Universiti Kebangsaan Malaysia
National University of Malaysia

Manchester 1824
The University of Manchester

Reducing Reliance on China

China is the largest producer of graphite and graphene, primarily using high pollution approaches

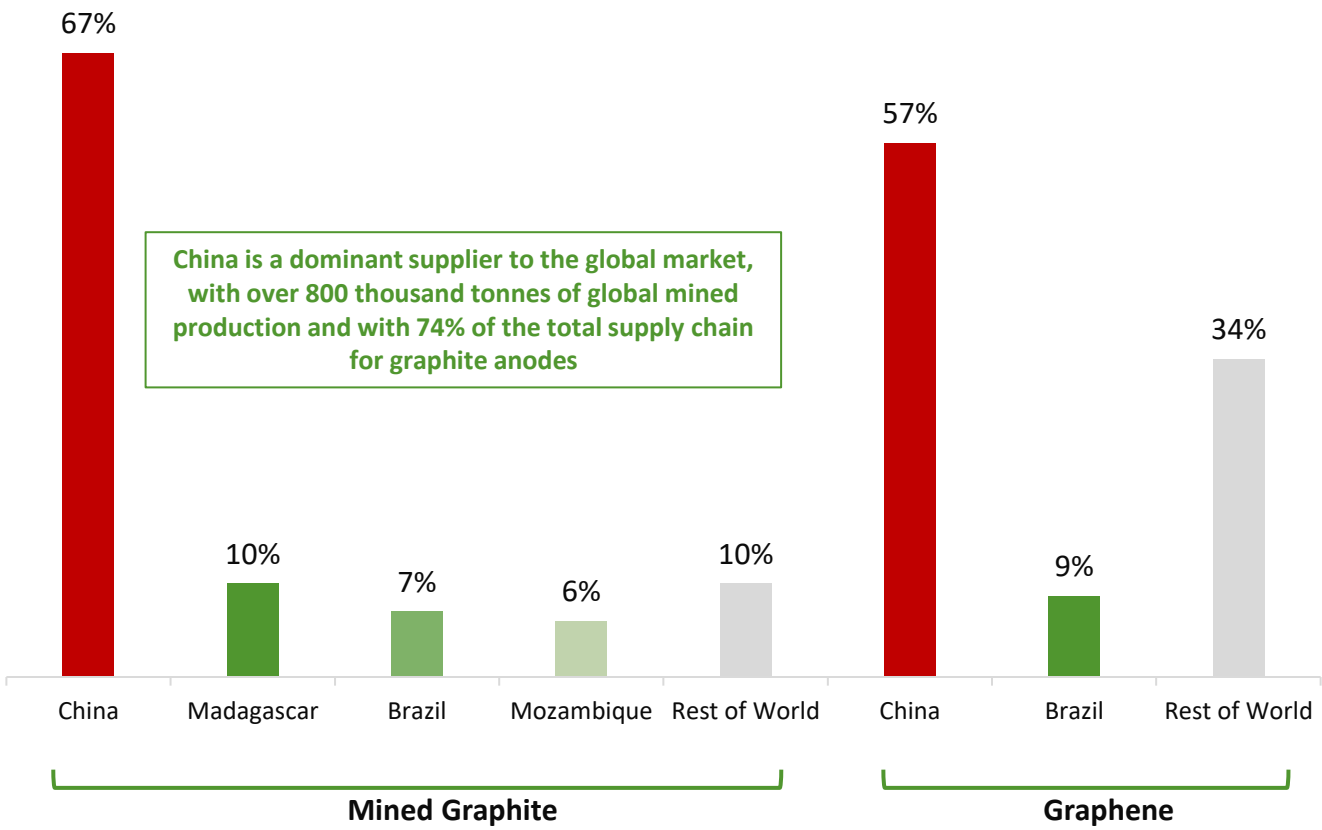
The **European Union** and the **United States** have identified a strong reliance on China for critical raw materials as a key security threat.

- Identified graphite and graphene are critical to battery production.
- Anticipating massive increases in demand in conjunction with green energy and carbon reduction policies.

China restricts exports of graphite as it escalates a global tech war

- On December 1, 2023 China began requiring government approval for exports of graphite, a move widely perceived as a response to U.S. led restrictions aimed at China's technology industry.

Top Global Manufactures (% of Global Production)



Government Initiative: EU & USA

The US **Inflation Reduction Act** incentivizes green energy and electric vehicles with sizeable tax credits, but only if the raw materials are sourced from or processed in a US trade friendly country.

European Commission

With the **Green Deal Industrial Plan**, the Commission will promote the creation of a more supportive environment for deploying the clean tech manufacturing capacity required to meet Europe's ambitious green targets – including to make Europe the first climate neutral continent by 2050.

- Quick deployment of manufacturing capacity
- Critical Raw Materials Supply
- Net-Zero Industry Act
- Promote regulatory sandboxes
- Electricity Market Design reform

- Green and digital skills
- European Skills Agenda, Partnership for Skills

- National and EU funding
- InvestEU, REPowerEU, Innovation Fund, State aid Temporary Crisis and Transition Framework, a European Sovereignty Fund

- Diversified access to critical inputs
- Free Trade Agreements, Critical Raw Materials Club, Clean Tech/Net-zero Industrial Partnerships

Awards and Programs

World Economic Forum: Consortium of Global Leading Companies Focused on Innovation and Sustainability:

- Dynamic, high-growth companies championing new business models, emerging technologies, and sustainable growth strategies.
- Emphasizing energy transition and carbon emission reduction technologies.
- Connects emerging technologies to largest global corporations.

Graphjet is the first Malaysian company to join the MIT ILP program:

- The program was founded in 1948.
- The ILP directly connects global leading member companies with MIT resources to address global challenges and anticipate future needs.
- 240 MIT ILP member companies include: BOEING, Apple, BMW, HYUNDAI, Mitsubishi, NISSAN, SAMSUNG

International Innovation Awards: Recognized among global companies as Outstanding Innovation Leader:

- Recognized for innovation in using palm kernel shell waste product to create graphite and graphene.
- 1 of 39 global companies were recognized.
- 200 applications across 19 countries were judged across three categories: Product, Service & Solution, and Organization & Culture.

Investment Highlights

Uniquely Positioned to be a leading producer of graphene and graphite materials with state-of-the-art technology for the manufacturing of graphene and graphite.

Breakthrough Technology transforms an abundant and renewable waste product, palm kernel shells, into highly valued artificial graphene and graphite

Integral to Future High Technology Products used in a wide variety of applications in Biomedical, Automotive, Sensor & Semiconductor, Digital Product and Energy Storage / Battery industries

Patented Technology & Raw Material Sourcing enables production at significantly lower cost and at higher quality compared to existing market suppliers.

Experienced Management Team proven track record dedicated to clean and sustainable manufacturing of graphene and graphite materials using renewable waste products.

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Thank you!