EVOLUTION ENERGY MINERALS

Corporate Presentation

ASX:EV1

evolutionenergyminerals.com.au





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Mineral Resources

The information in this presentation that relates to the Mineral Resource estimate for the Chilalo Graphite Project is extracted from the report titled "Prospectus" released to the ASX on 12 November 2021 and available to view at https://evolutionenergyminerals.com.au/.

Evolution confirms that it is not aware of any new information or data that materially affects the information included in the original report and that all material assumptions and technical parameters underpinning the Mineral Resource estimate for the Chilalo Graphite Project continue to apply and have not materially changed.

Evolution confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original report and that the Competent Person's consent remains in place for subsequent releases by Evolution of the same information in the same form and context, until the consent is withdrawn or replaced by a subsequent report or accompanying consent.

Ore Reserve Estimate

The information in this presentation that relates to the Ore Reserve estimate for the Chilalo Project is based on information compiled by Andrew Hutson, a Competent Person, who is a Fellow of the Australasian Institute of Mining and Metallurgy. Andrew Hutson is employed by Resolve Mining Solutions. Mr Hutson has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration, and to the activity he is undertaking, to qualify as a Competent Person in terms of the JORC Code 2012 Edition. Mr Hutson consents to the inclusion of such information in this presentation in the form and context in which it appears.

Production Target and Forecast Financial Information

In relation to the results of the Updated Definitive Feasibility Study (Updated DFS) announced on 20 March 2023 that are included in this presentation, the Company confirms that all material assumptions underpinning the production target and forecast financial information included in the original market announcement continue to apply and have not materially changed. The results reported in the Updated DFS are reported on a 100% ownership basis. On completion of the Framework Agreement and Shareholders' Agreement with the Government of Tanzania, as announced on 18 April 2023, the Company holds an 84% interest in the Chilalo Project, the remaining 16% interest being held by the Government of Tanzania.

Risks Associated with BTR Transactions

The arrangements between Evolution and BTR are subject to a variety of conditions precedent. The conditions precedent to the Offtake Agreement include (amongst others) the parties executing a downstream cooperation agreement before 31 March 2024, the necessary finance for the construction of the Chilalo Project having been obtained, and construction commenced, in each case on or before 31 March 2024. The downstream collaboration is a non-binding MOU, with detailed terms yet to be negotiated or agreed.

Accordingly, investors are cautioned that there is no certainty that these transactions with BTR will be finalised, either on the currently agreed terms or at all. Please refer to the ASX announcement dated 16 August 2023 and 30 October 2023 for further information.



Evolution Energy Minerals Snapshot





Development-ready coarse flake graphite project in Tanzania (NPV US\$338M, IRR 32%)



Binding offtake agreements covering 90% of production



Targeting Decision to Mine by Q1 2025



Strategic partnership with global #1 battery anode producer (BTR)



Progress downstream strategy targeting battery anode production in US



Value Proposition



Structural Shift in Graphite Industry

Chinese export controls

- + US / EU regulations
- = Need for ex-China flake and anode production



World-class flake size

Coarse flake qualified with the global #1 (YXGC)



High margin operation

Chilalo's flake size drives higher revenue ensuring a high-margin operation, even at today's prices



Exceptional Offtake

Offtake over 90% of production with the global #1 in both expandable graphite and battery anodes



Finance-ready

EV1 has received strong interest in debt financing from commercial banks



Downstream Collaboration

Exposure to potential value addition via unique downstream collaboration with BTR



Corporate Overview

261.2M

Shares on Issue

48.9M¹

Unlisted Options

\$0.105

Share Price

\$3.6M²

Cash

\$27.4M

Market Cap

\$23.8M

Enterprise Value

Share Price (12 months)



- 1. 42.1M options at \$0.25 exercise price, 6.8M options at nil exercise price, subject to performance-related vesting criteria
- March 2024 estimate

Major Shareholders

ARCH Sustainable Resources Fund	22.26%
Marvel Gold Limited	19.14%
BTR New Materials Group	9.90%
Amati Strategic Metals Fund	3.80%
Barolo EV1 CT Pty Ltd	2.78%
Auramet Capital Partners	2.73%

Board & Management

BOARD OF DIRECTORS



Phil Hoskins
MANAGING DIRECTOR

Phil is the Executive responsible for the development of Chilalo since 2014. Nine years' graphite experience.



Mike Spreadborough

Mike has over 30 years of experience in mining across a range of different commodities.



Cameron Dowling

Cameron is the nominee director of the ARCH Sustainable Resources Fund, an ESG-focused investment fund based in London.



Stephen Dennis

Stephen has been in the mining industry for over 30 years, across numerous Australian resources companies.



Henk Ludik

Henk is a mining engineer with a career spanning over 20 years in mining with expertise in engineering, feasibility, mine optimisation, ESG and corporate finance.

MANAGEMENT TEAM



Grant Dyker
CHIEF FINANCIAL OFFICER

Over two decades in senior executive roles, previously serving as CFO for multiple ASX-listed resources companies.



John Nolan
CHIEF OPERATING OFFICER

Mining professional with 36 years' experience across Africa, South America and Asia in a variety of roles.



Jay Stephenson COMPANY SECRETARY

Over 35 years of experience in business development and company secretarial duties.



Heavenlight Kavishe COUNTRY MANAGER

Experienced government advisor, with the Chilalo project since 2014.



Stacy Newstead
CEO-EVOLUTION
ENERGY SOLUTIONS LLC

US-based Stacy is responsible for overseeing the US downstream strategy.



Eileen Hao
BUSINESS DEVELOPMENT MANAGER
CHINA CEO AND CHIEF REPRESENTATIVE

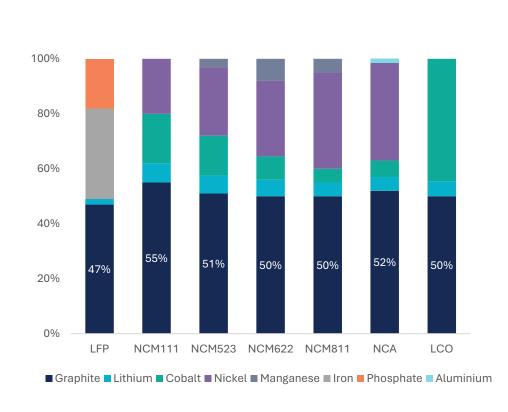
27 years experience on industrials, graphite, battery minerals & metals, senior roles with IMERYS, Syrah and facilitating Neometals / Gangfeng transactions.

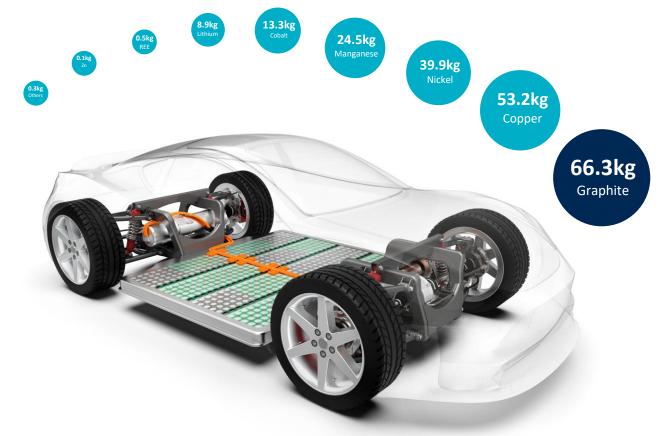




Graphite - The Dominant Battery Mineral

Graphite is the dominant material across all commercial battery technologies





Source: Fastmarkets

Percentages represent the proportion of cathode and anode material in each battery respectively.

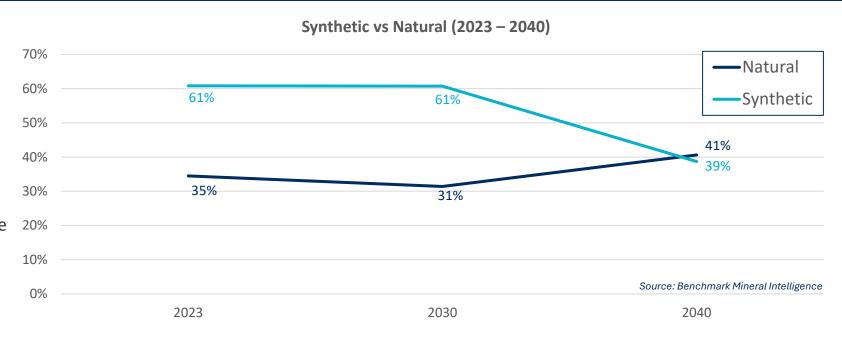
Source: https://www.iea.org/data-and-statistics/charts/minerals-used-in-electric-cars-compared-to-conventional-cars



Synthetic vs Natural

Is synthetic a long-term threat?

Synthetic graphite and natural graphite bring different performance characteristics to the anode and are often blended – neither is expected to replace the other long term

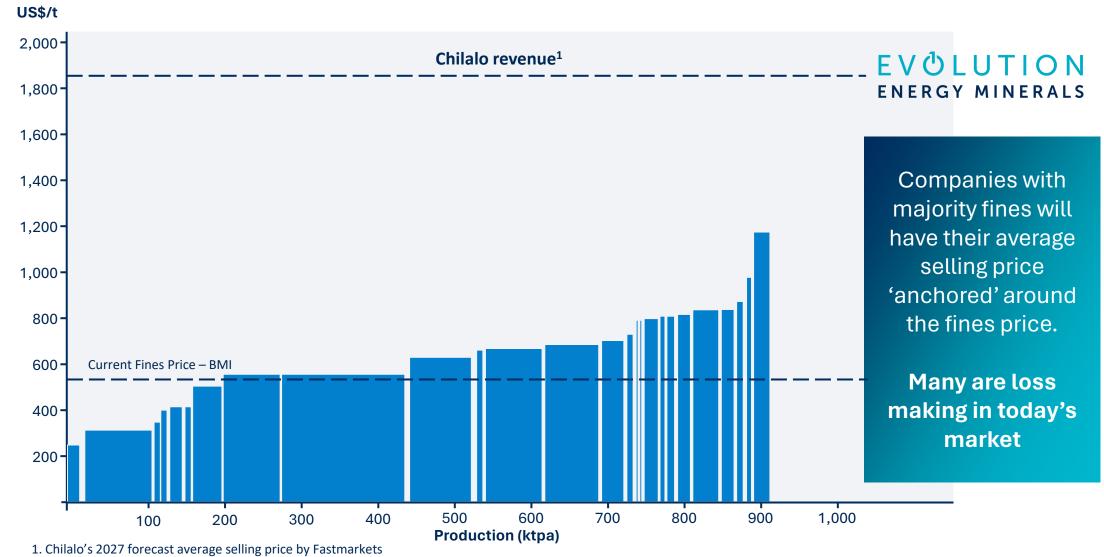






Graphite operations uneconomic without coarse flake

Flake Graphite Production Cost Curve – source Benchmark Mineral Intelligence (BMI)





Qualification into value added products is critical







DFS Outcomes

Definitive Feasibility Study Outcomes

US\$338M

NPV₈ (Post-tax)

3.3 Yrs

Post-tax payback period

32%

IRR (Post-tax)

US\$120M

Pre-production capital cost (incl. 10% contingency and pre-strip)

17 Yrs

Mine Life

US\$82M

Average annual EBITDA



Chilalo's Competitive Advantage

Product quality drives economics and strategic interest



Coarse flake sales drive margins



Product performance
– offtake with **global industry leaders**

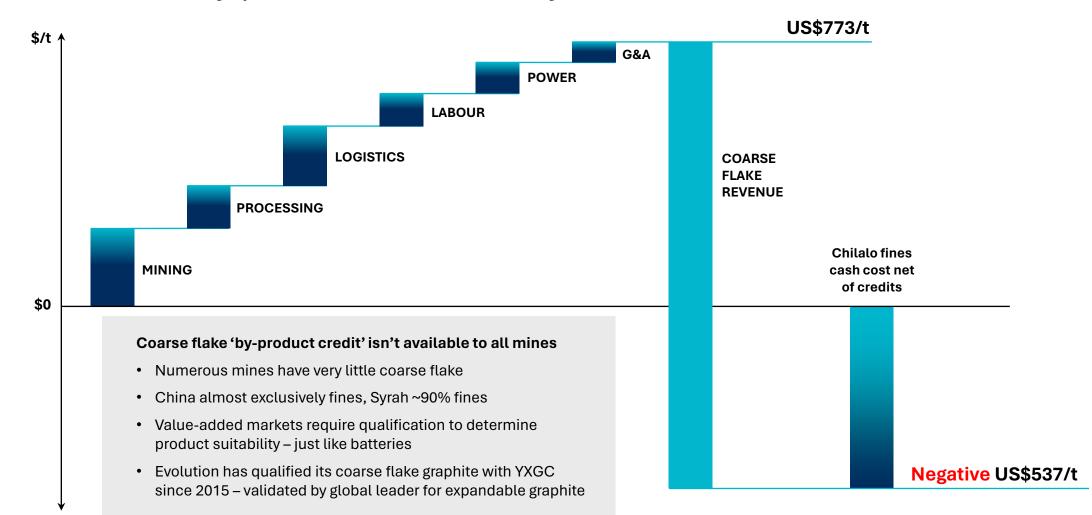


World-class battery anode company (BTR) validates Chilalo graphite battery performance



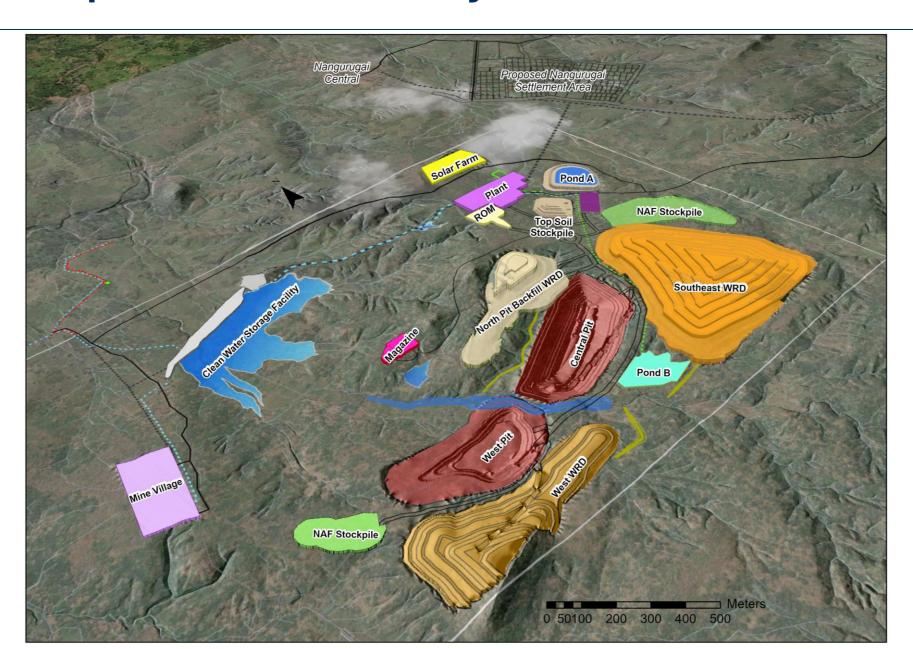
Battery Graphite at Negative Cash Cost

Coarse flake 'by-product credits' the key





Proposed Chilalo Site Layout





Status of Project Financing

Why do the banks like Chilalo?

- Low Capex
 Important to commercial banks in the process
- High Margin
 Coarse flake provides buffer to weaker fines prices
- Product Quality

 Validation by offtakes with global leaders for batteries and expandables
- Quality Partners
 Global #1 offtakers for coarse + fines
- Experienced to Execute

 Experienced team de-risks execution/delivery

Debt Process on Track

OFS and Tanzanian Framework Agreement

EOI's from multiple financial institutions

Completion of ITE and IESC reports

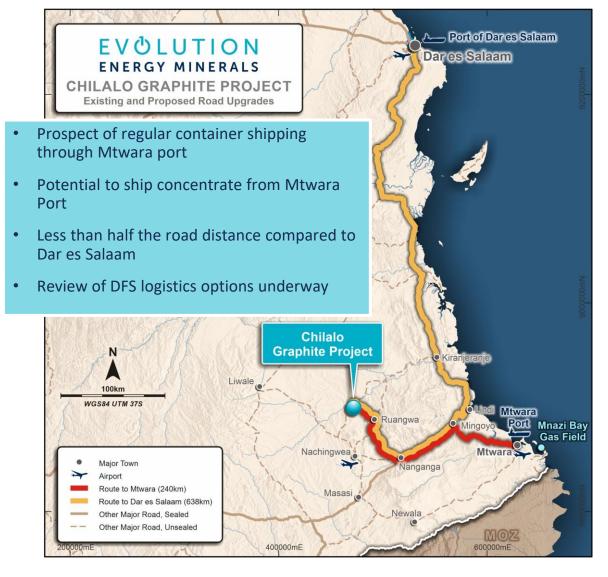
Mandate lead arranging financier/s

Project finance term sheets

Project Cost Optimisations



Reduced logistics costs



Reduced power costs



Project Expansion Opportunity

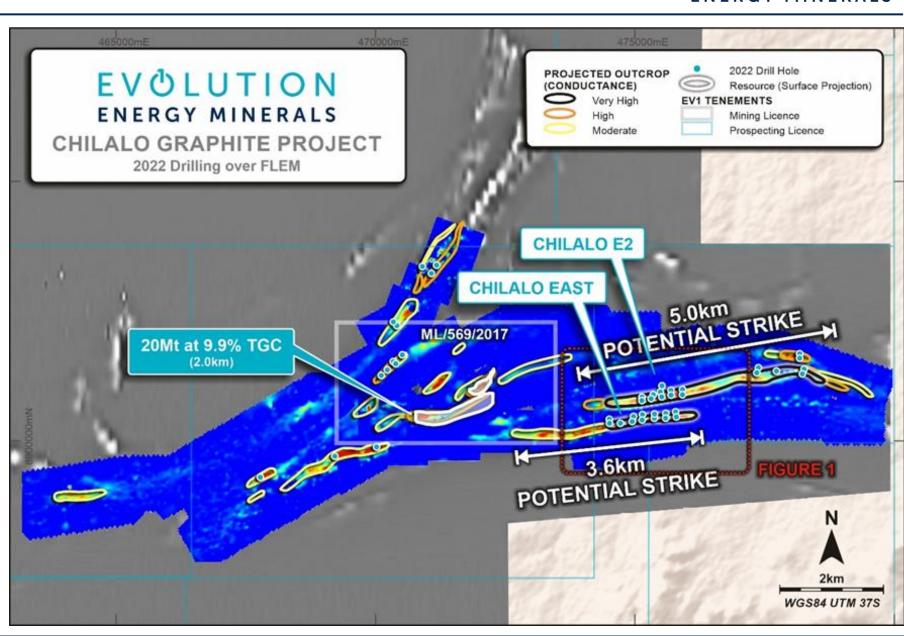
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Exploration Upside

- Reduced mining costs and expansion potential
- Additional mineralised zones identified but not in mine plan
- Over 8km of mineralised EM conductors to follow up



LOW-COST PROJECT EXPANSION
OPPORTUNITIES TO BE CONSIDERED IN 2025





EV1 Offtake Strategy



Yichang Xincheng Graphite Co.,Ltd

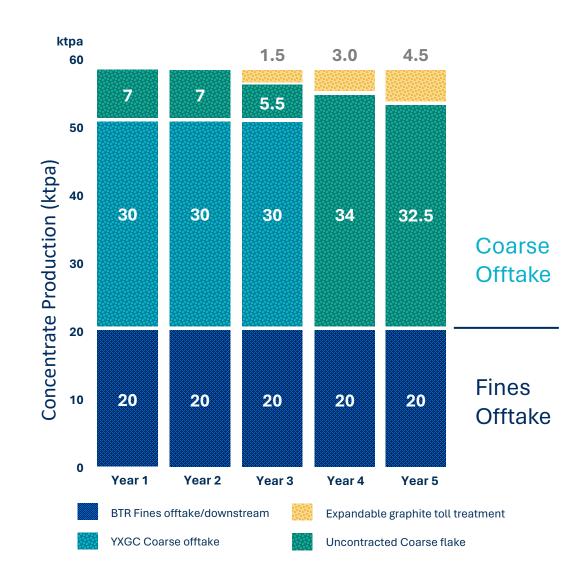
Coarse Flake Offtake

- 30,000tpa for 3 years
- 70% of concentrate revenue
- YXGC are the global leader for expandable graphite (EG) and foil
- Electronics, fuel cells, seals, gaskets, flame retardants
- Conditional on:
 - YXGC toll treating some graphite into EG
 - Reaching FID (condition date being updated)

BTR

Fines Flake Offtake

- 100% of fines for 3 years (+3 yr option)
- Mechanism to assign to joint downstream entity
- Market prices agreed bilaterally
- Conditional on downstream agreement and FID (date being updated)





BTR Profile

Listed on the Beijing Stock Exchange (market cap US\$3.4 billion)

26% overall anode market share, 60% natural graphite anode market share

Within China, BTR have 5 natural graphite production bases, 9 synthetic graphite production bases, 2 silicon anode production bases and 3 graphene production bases

80,000tpa anode plant under construction in Indonesia

Tier 1 customer base:



Panasonic





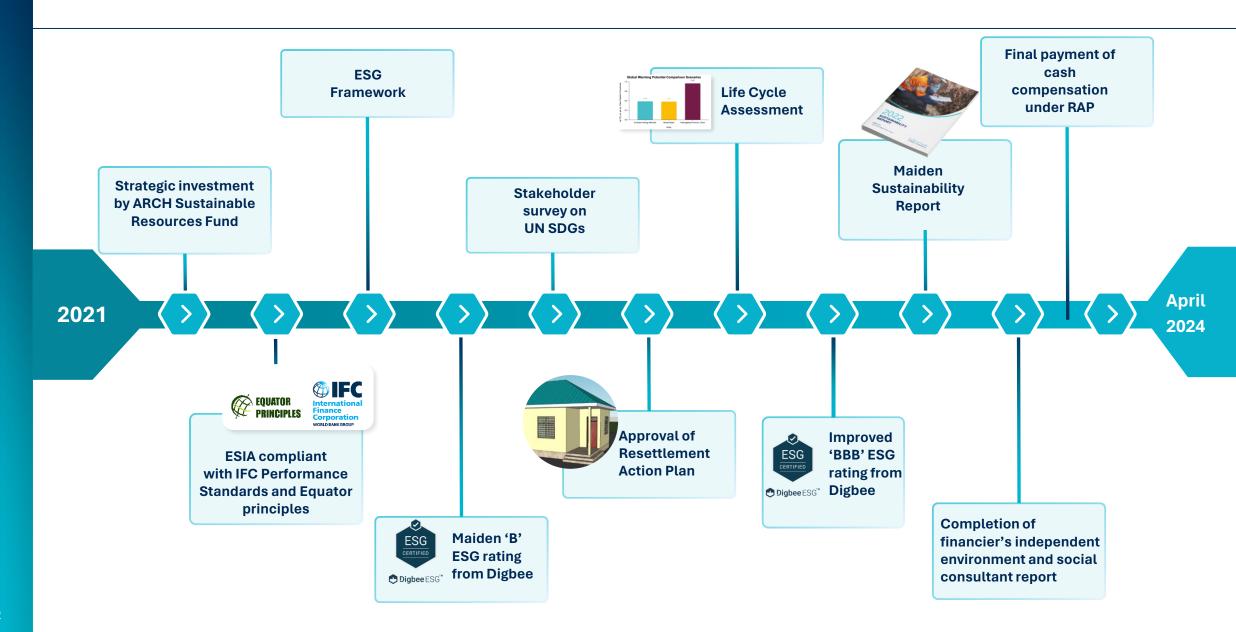








Evolution's ESG Commitment





Tanzania

Key milestones achieved in 2023

- Framework and Shareholders Agreement signed
- Mining licence, prospecting licence and environmental permits all refreshed
- Kudu Graphite JV with Tanzanian Government established

What's next in 2024?



- Bitumen road to site by 2025
- Grid power connections



Managing Director Phil Hoskins pictured at the signing ceremony in Tanzania before the President of Tanzania, Her Excellency Samia Suluhu Hassan, April 2023





Chilalo – Community Focused Development

CONSERVATION AGRICULTURE

Supply of materials, training and ongoing coaching and mentoring to promote the development of sustainable sesame, maize and legume agriculture among the local communities.

TREE NURSERIES

Supply of materials, training and ongoing coaching and mentoring to promote the development of sustainable sesame, maize and legume agriculture among the local communities.

VEGETABLE PROGRAM

Supply of materials, training and ongoing coaching and mentoring to promote the development of sustainable sesame, maize and legume agriculture among the local communities.

YOUTH SKILLS TRAINING PROGRAM

Supply of materials, training and ongoing coaching and mentoring to promote the development of sustainable sesame, maize and legume agriculture among the local communities.

LIVELIHOOD RESTORATION CENTRE (LRC)

Supply of materials, training and ongoing coaching and mentoring to promote the development of sustainable sesame, maize and legume agriculture among the local communities.



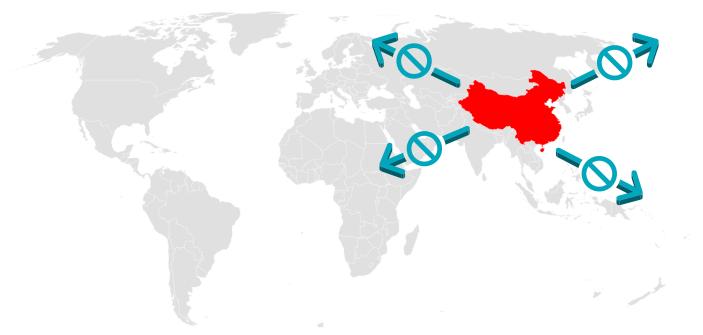


China's export controls positive for Ex-China graphite

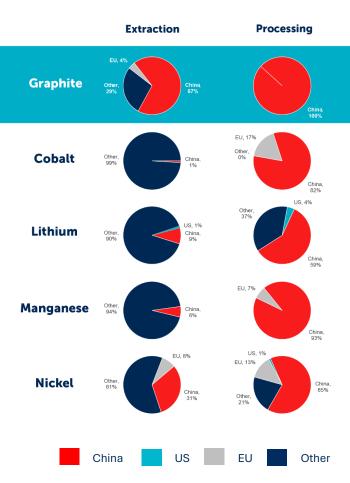
- China controls graphite and anode markets
- China export controls in place from 1 December 2023
- Heightens the urgency to develop ex-China sources of:
 - Flake graphite mining
 - Anode processing capacity

	Flake Graphite Exports (tons)	Spherical Graphite Exports (tons)
November 2023	23,343	12,187
December 2023	1,428	949
Variance	(94%)	(92%)

Source: 1. Customs General Administration, P. R. China, 2. Wisdom Intelligence Technology



Li-ion battery raw materials supply chain by country





US Downstream Opportunity

US by the numbers:





~US\$47B Inflation Reduction Act (IRA) Production and EV tax credits

US\$40B via DoE Advanced Technology Vehicles Manufacturing Loan Program EV loan program

US\$7B via DoE Battery Materials Processing grants

Select US Gigafactories

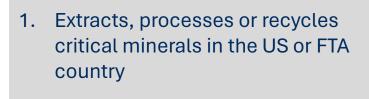




Impact of the IRA on OEM anode sourcing



What is IRA compliance?





Not deemed a Foreign Entity of Concern (FEOC)



Note 1. US Government guidance allows up to 25% Chinese ownership provided effective control is not given contractually.

OEM dilemma given China dominate graphite / anode production

Continue to buy Chinese anodes > lose US\$7,500 tax credit > EVs less competitive price point



Switch to an ex-China supplier with unproven track record

Recent OEM activity indicates the IRA tax credit wins out			
Syrah	Ŷ T≣5L∺	Offtake	
Nouveau Monde	Panasonic	Offtake + US\$175M investment	
Novonix	Panasonic	Offtake	



EV1 vertical integration strategy



NEXT STEPS

EV1 is advancing site selection and economic analysis for a proposed anode production facility. Discussions on technology licensing and strategic partnering continue with a Scoping Study due for completion in H2 2024.



Key Catalysts

Delivering on project optimisations to improve economics

Introducing strategic

investors / partners



Downstream scoping study, site selection & partnerships

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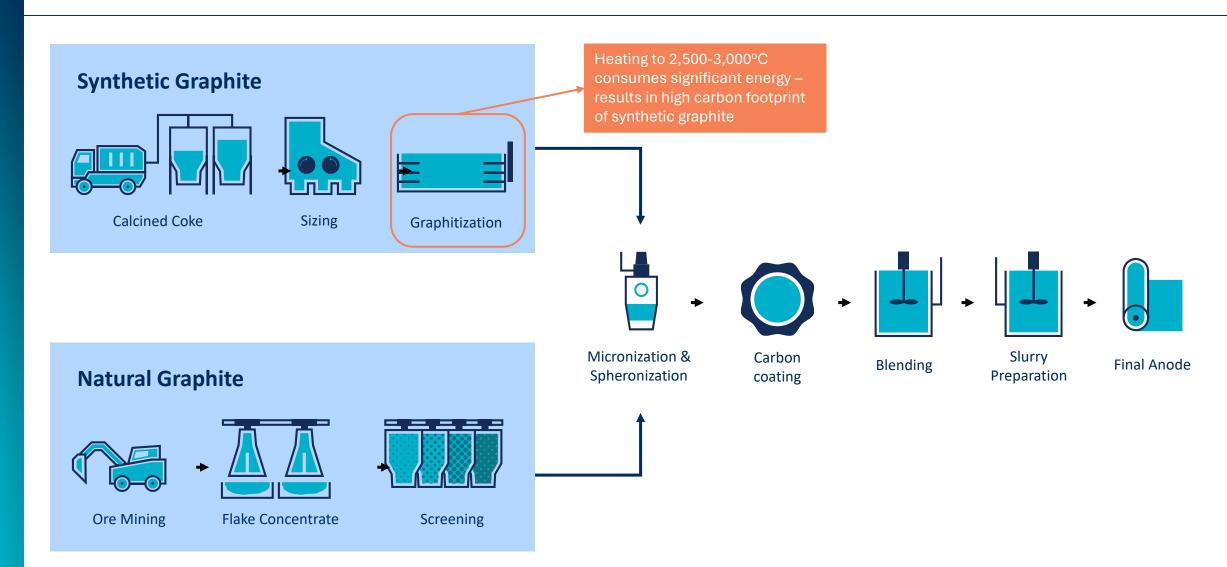
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Appendix



The Making of an Anode





Localisation of Anode Supply Chain

