AUSTRALIAN BATTERY GRAPHITE FROM MINE TO MARKET



International Graphite
ASX:IG6, FRA: H99, WKN: A3DJY5
November 2022

INTERNATIONAL GRAPHITE

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The information in this announcement which relates to exploration targets, exploration results or mineral resources is based on information compiled by Mr. Peter Langworthy. Mr. Langworthy has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' (the JORC Code). Mr. Langworthy is Managing Director and Principal Consultant of OMNI GeoX Pty Ltd. Mr Langworthy consents to the inclusion of the information in this announcement in the form and context in which it appears.

The Competent Person confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The form and context in which the Competent Person's findings are presented have not been materially modified from the original market

Acknowledgement of Country

International Graphite acknowledges the Traditional Custodians of Country throughout Australia, particularly the Whadjuk, Willman, and Wudjari Peoples of the Noongar Nation, and recognises their continuing connection to lands, waters and communities.
We pay our respects to Aboriginal and Torres Strait Islander cultures and to Elders past and present.



Our Vision

International Graphite (ASX:IG6) aims to be Western Australia's first fully integrated mine-to-market producer of graphite battery anode material.



MINING AT SPRINGDALE

PRODUCTION OF CONCENTRATES

PROCESSING AT COLLIE

MICRONISED AND SPHEROIDISED GRAPHITE

BATTERY ANODE MATERIAL

MEETING GLOBAL DEMAND

AUSTRALIAN SOVEREIGN SUPPLY

Investment highlights

- **Springdale Graphite Resource: Long life, shallow graphite deposit with high grade zone**, ideal scale for graphite market
- **Collie Downstream Processing Project: State of the art pilot graphite micronising and spheroidising pilot plants established** -> commercial scale micronising -> PSG -> coating
- **Location: Western Australia** - world's premier mining jurisdiction with world class industrial infrastructure and government encouragement for battery minerals -> **$2M government grant received**
- **ESG: Product stewardship** and chain-of-custody oversight in WA providing critical supply assurance for international customers



Corporate

IG6 created by graphite metallurgists and process design specialists identifying the gap for sovereign supply to meet demand



	IG6
Shares on issue	165.2M
Market capitalisation as at 18 November 2022	$50.0M
Cash in bank (30 September 2022)	$6.5M
KMP Options (5 year term, ex price $0.30 - $0.40/share)	8.0M
Advisor Options (3 year term, ex price $0.30/share)	6.2M
Comet Resources Limited	24%
Board and management (fully diluted)	41%

Our future is electric

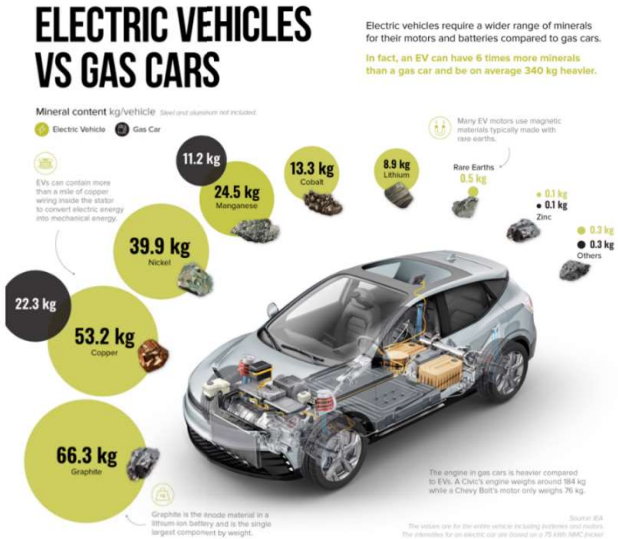
Graphite is a critical metal in the Li-ion battery

- **Graphite** is the anode in Li-ion batteries
- **Largest commodity** in Li-ion battery
- **Up to 10 times** more graphite than lithium per Li-ion battery

- Graphite – **28%**
- Aluminium – **19%**
- Nickel – **16%**
- Cobalt – **11%**
- Steel – **11%**
- Lithium – **3%**
- Manganese – **5%**
- Cobalt – **4%**
- Iron – **3%**

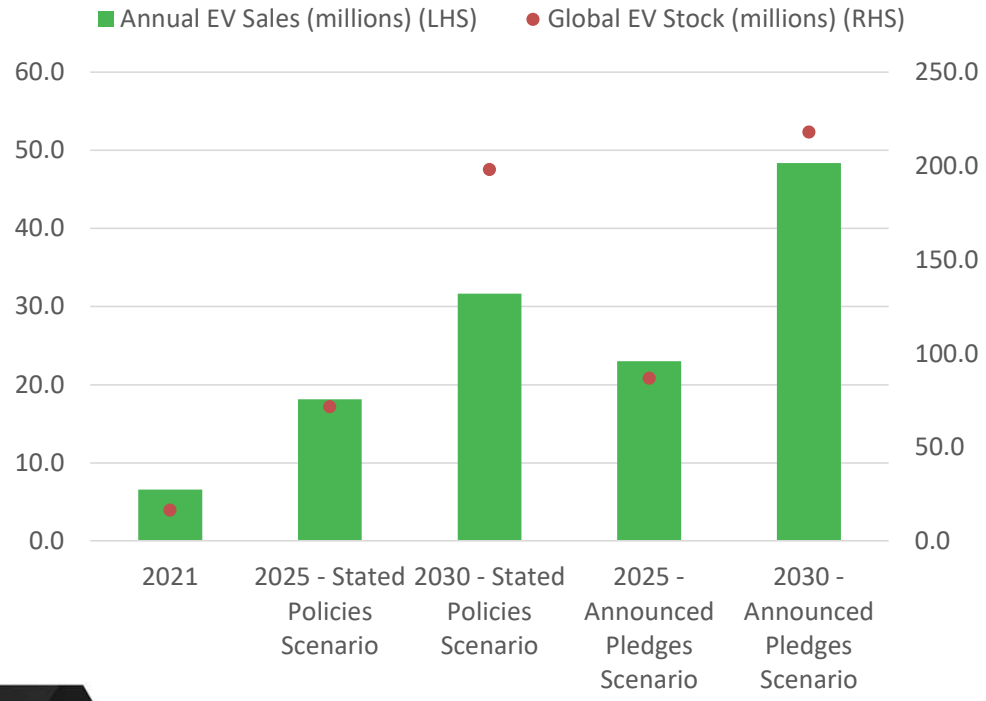
RAW MATERIALS FOR 60KWH CAPACITY LI-ION (KG'S)

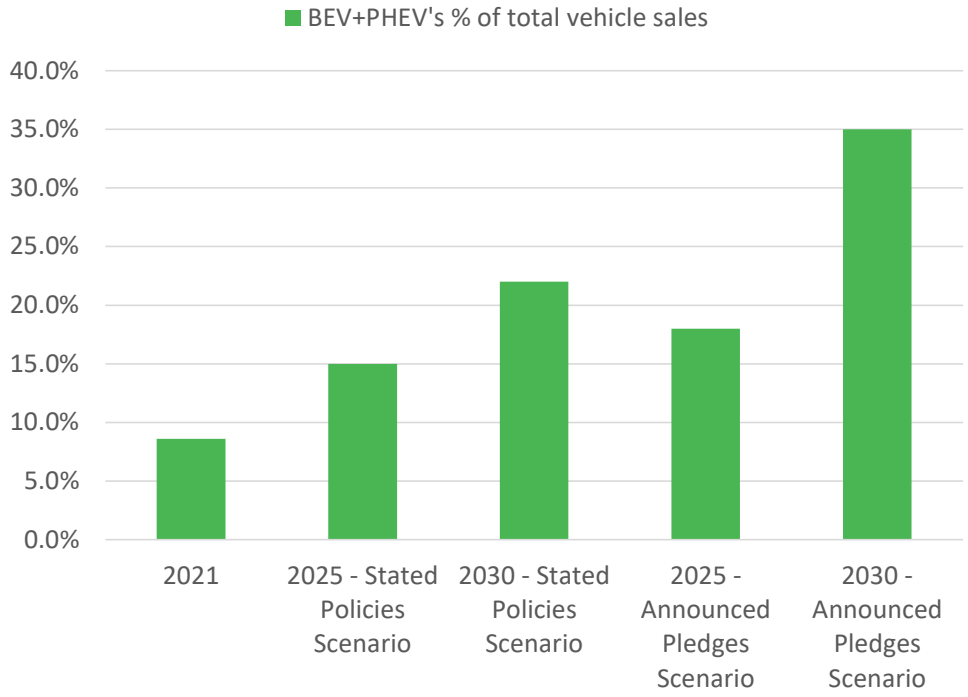




Rapid uptake of electric vehicles

EVs make up 35% of all vehicle sales
13x increase expected within ten years



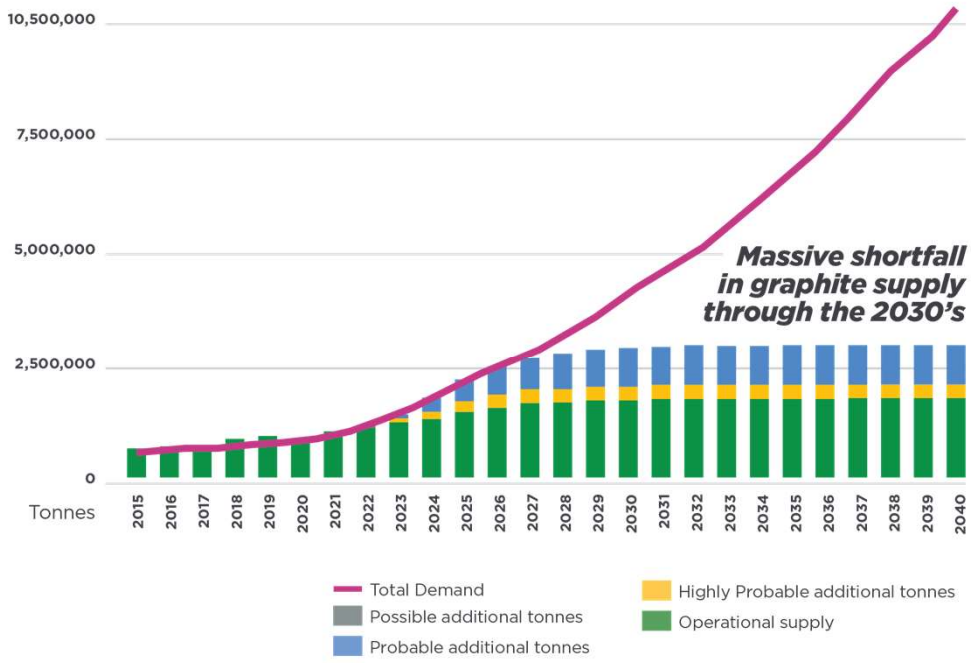


Graphite in short supply

Supply needs to increase 3-6 times in 10 years to meet decarbonisation goals – underpinned by high ESG standards



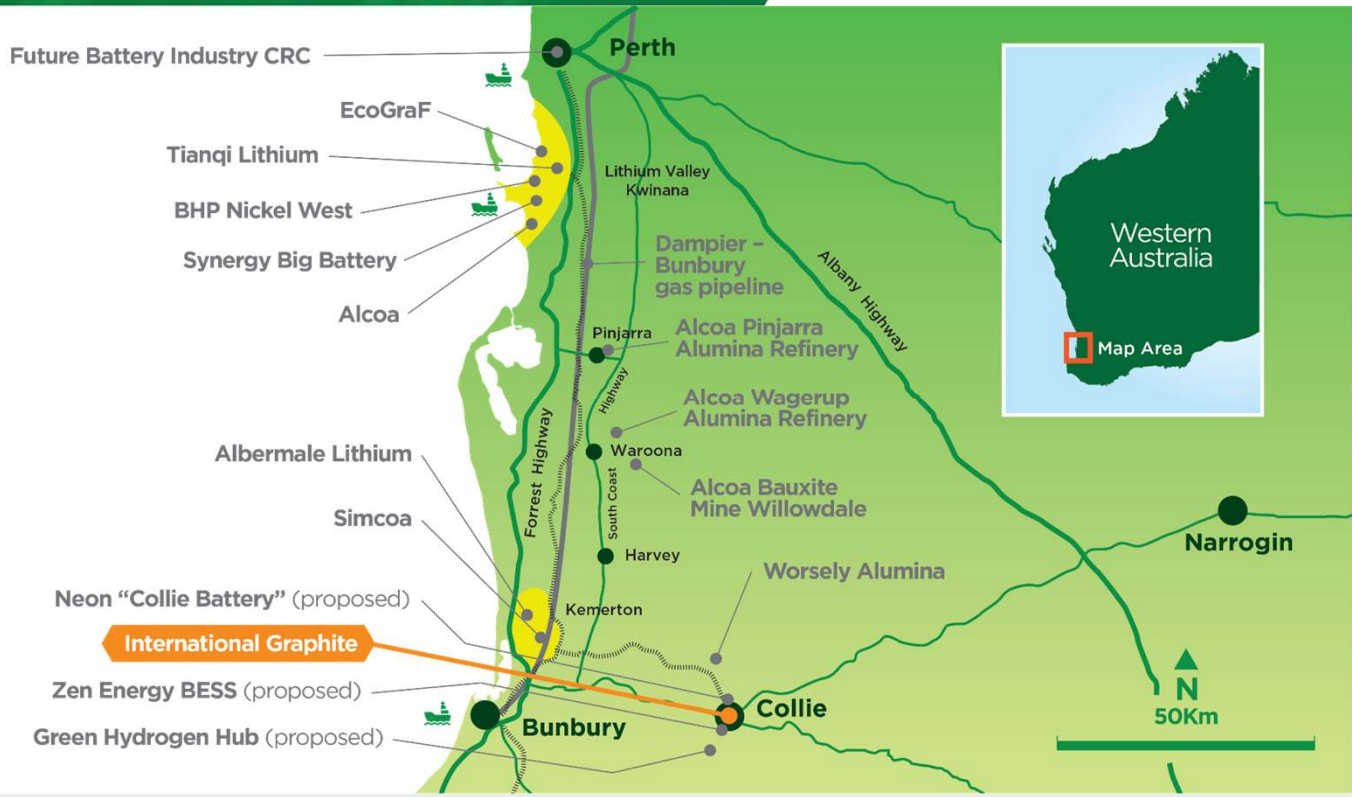
Source: Benchmark Mineral Intelligence



The Collie advantage

Emerging battery and renewable energy hub with $662M committed by state government for new industry

- **$2M committed to IG6**
- Thriving resource and industrial centre
- 200km from Perth and 450km from Springdale
- Efficient road and rail transport
- Close to export ports
- Ready access to power
- Skilled local workforce & training facilities
- Local, state and national government support



WA Premier opens Collie BAM pilot facilities and R&D centre

Announces $200M Collie Industrial Transition Fund







- Official opening Friday 25 November 2022, at Collie.
- Transition fund announced targeting projects in priority sectors of green manufacturing or minerals processing, clean energy, and energy-intensive industry.

Capturing full resource value



FLAKE SIZE	FINE FLAKES	
CATEGORY	BATTERY ANODE PROCESSING	INDUSTRIAL PROCESSING
PROCESSES	MICRONISING SPHEROIDISING PURIFICATION	PURIFICATION MICRONISING
INTERIM PRODUCT	SPHEROIDISED PURIFIED GRAPHITE	
PROCESSES	COATING	
FINAL PRODUCT	BATTERY ANODE MATERIAL	PURIFIED MICRONISED GRAPHITE
USES	Li-ion Batteries	Engineered materials Conductive cathode additive Polymers, Lubricants


Lake Grace
Lake King
Ravensthorpe
Mt Cattlin (Li)
RAV 8 (Ni)
Great Southern (Au)
Ravensthorpe (Ni)
Munglinup (Gr)
Highway
Esperance
Western Australia
Map Area
Jerramungup
Hopetoun
Esperance
SPRINGDALE GRAPHITE PROJECT
South Coast
Albany
N
100Km

Springdale Graphite Project

Hopetoun, Western Australia

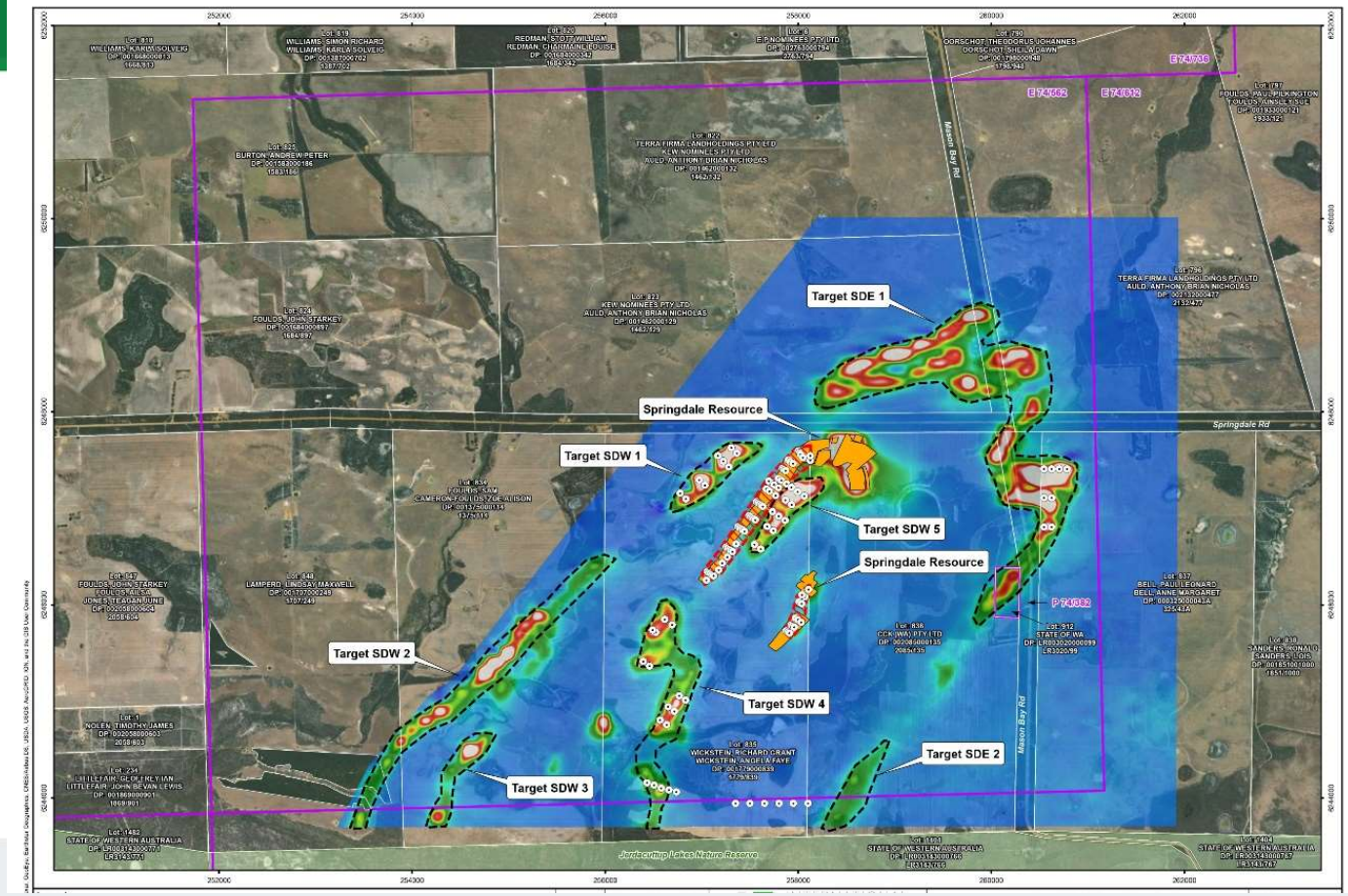
- **Ownership:** 100% owned - acquired from Comet Resources Ltd (ASX: CRL)
- **Location:** Hopetoun, Western Australia – 25km south of Ravensthorpe Nickel Mine, Mt Caitlin Lithium Mine
- **Mineral Resource:** established inferred mineral resource with significant high grade of 2.6Mt @ 17.5% TGC
- **Mining:** shallow, open pit
- **Processing:** conventional crush and flotation to produce a 95% TGC concentrate
- **Suitable for battery anode material:** Metallurgical testwork conducted in Germany shows Springdale graphite can be purified to > 99.95% TGC for BAM

Springdale Graphite Project Inferred Mineral Resource Estimate – 2% TGC cut-off JORC 2012

Domain	Tonnes (Mt)	Density (t/m3)	Graphite (TGC%)
High grade	2.6	2.1	17.5
Low grade	13.0	2.2	3.7
Total Resource	**15.6**	**2.2**	**6.0**

Springdale Graphite Project

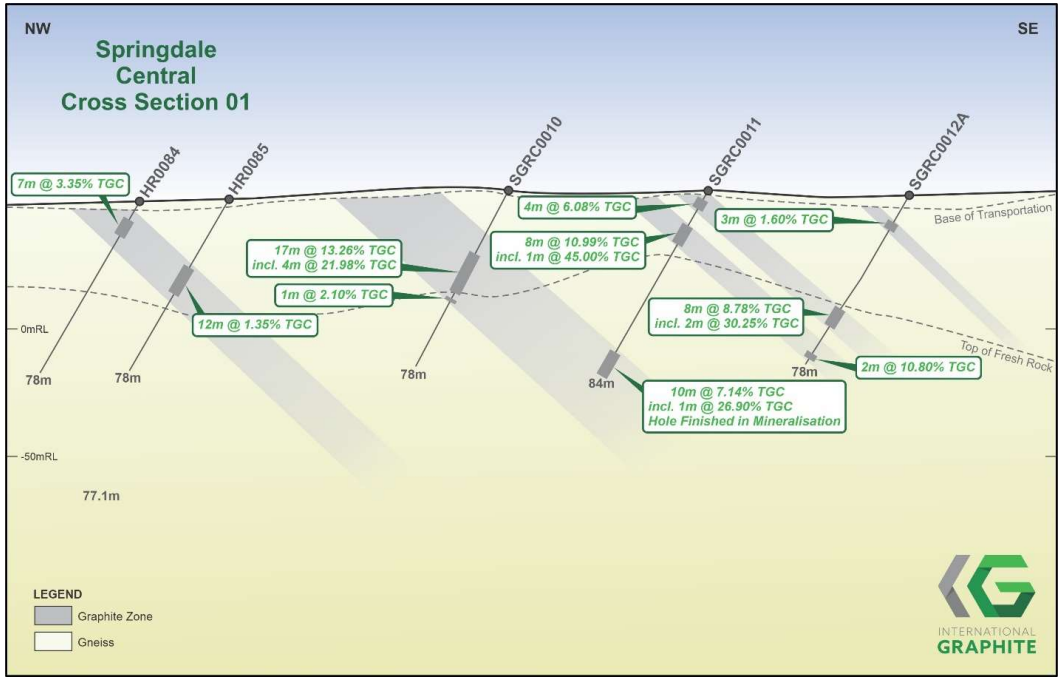
Airborne surveys identify significant exploration opportunity



Springdale Graphite Project

Immediate exploration success - new high grade graphite prospects identified

- **Resource drilling** – to expand existing resource, convert indicated to inferred, and generate samples for testwork
- **Exploration drilling** – to test highly prospective areas within 2.5km of existing mineral resource identified by airborne electromagnetic survey
- **Two new prospects found close to existing resource** – Springdale Central (SDW_5) and Far West (SDW_1)
- **Key intercepts – high grade and shallow**
  - 17m @ 13.3% TGC
  - 11M @ 16.1% TGC
  - 15m @ 13.4% TGC
  - 22m @ 20.7% TGC
- **2023 more drilling planned** to expand mineral resources
- **PFS** Q3 2023
- **DFS** Q2 2024



Example Cross Section from Springdale Central – released 5 October 2022

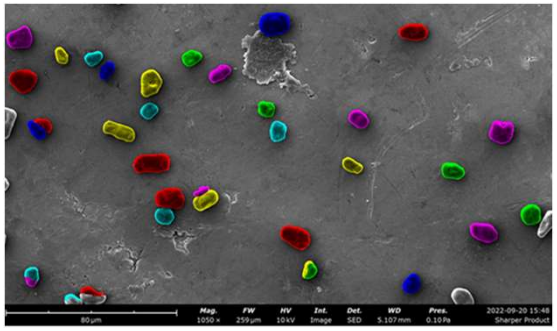
Collie downstream processing

Establishing Australia's largest and most advanced pilot micronising and spheroidising facility

- **Pilot plant successfully commissioned** and operated – showing capability to produce marketable products at consistent size and shape
- **Testwork** to build operating, product handling and logistics experience and establish customer engagement
- **R&D laboratory** with high temperature furnace to assist in purification studies
- **WA Government has invested $2m** to support establishment of commercial micronising









Expansion of Collie

Short term producer - nominal 3ktpa micronising facility to be operational in 2024

- Qualification-scale plant has been procured
- Commercial-scale equipment to be ordered Q3 2023
- Operations Q1 2024
- Limited ramp up period with immediate cashflows
- R&D benefits
- Micronising is a critical step in the production of **spheroidised purified graphite**
- Expandable operation could be available for Springdale concentrates



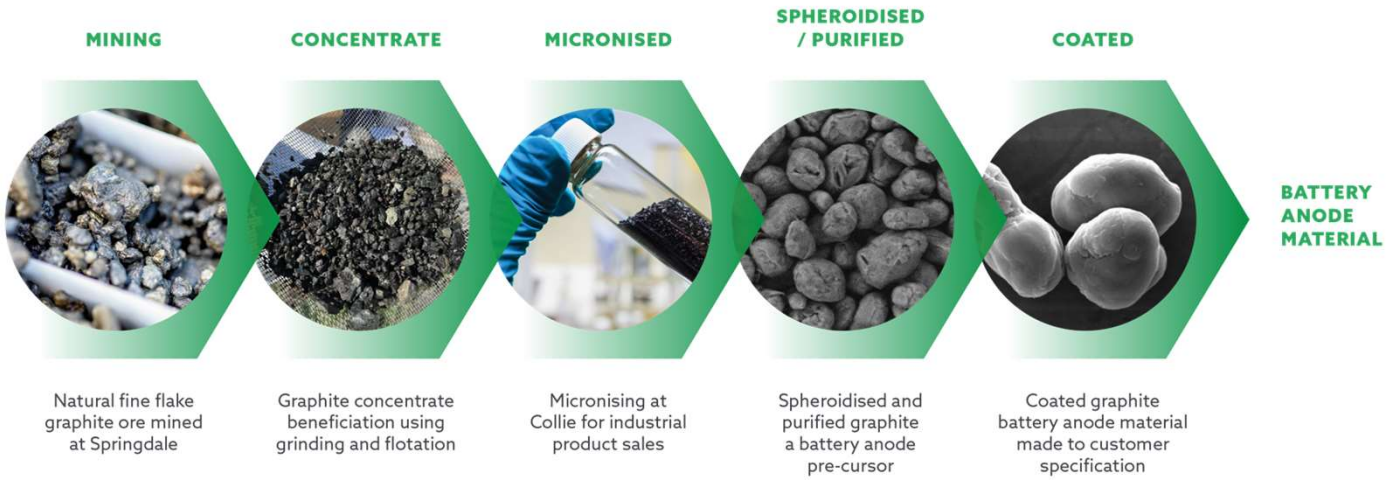




Full scale battery anode material

Micronising, spheroidising, purification and coating at Collie using Springdale concentrate

- BAM Concept Study – Q1 2023
- Purification and coating process, technology and partner assessment
- Feasibility studies through mid 2024



Forthcoming Company Milestones

IG will target government programs and R&D grants to support accelerated growth plans

Springdale Graphite Project

- **Exploration results** – expected December 2022 and Q1 2023
- **Resource drilling results** - expected Q1 and Q2 2023
- **Revised Mineral Resource estimate –** Q2 2023
- **PFS** Q3 2023
- **DFS** Q2 2024

Collie Downstream Processing

- **Continued testwork** of BAM R&D facilities
- **Commercial Micronising Feasibility Study** – Q1 2023
- **BAM Concept Study** – Q1 2023
- **Delivery, installation & operation of micronising qualification plant** – Q2 / Q3 2023
- **Collie land expansion** – Q3 2023
- **Order commercial Scale micronising plant** – Q3 2023
- **Commercial Micronising operations** – Q1 2024
- **BAM DFS** – work continues in parallel with Springdale through 2023 to H1 2024

IG6 strong foundations for success

To be Western Australia's first fully integrated mine-to-market producer of graphite battery anode material

- **Right commodity:** graphite the main mineral in lithium-ion batteries which are experiencing extraordinary demand growth
- **Right location:** WA the world's premier mining jurisdiction with strong support for battery minerals
- **Springdale Graphite Resource:** long life, shallow deposit with high grade zone, perfect scale for graphite markets
- **Collie Downstream Processing:** most advanced and largest known graphite micronising and spheroidising pilot plant in Australia -> commercial scale micronising -> BAM products: PSG -> coating
- **Government support:** national, state and local governments investing in critical minerals capability
- **Team:** highly experienced graphite metallurgists and engineers
- **ESG:** product stewardship and chain-of-custody oversight in WA providing critical supply assurance for international consumers

IG6 is on track to be Western Australia's first fully integrated mine-to-market producer of battery anode graphite – building Australia's capability in critical minerals and an ethical supply to support global decarbonisation and the transition to renewable energy.

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