





BUILDING A SUSTAINABLE ECO-FRIENDLY GLOBAL GRAPHITE BUSINESS

Informa Lithium & Battery Metals Conference Presentation

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Information in this presentation that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr Andrew Spinks, who is a Member of the Australasian Institute of Mining and Metallurgy included in a list promulgated by the ASX from time to time. Andrew Spinks is a director of Kibaran Resources Limited and 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". Andrew Spinks consents to the inclusion in this presentation of the matters based on his information in the form and context in which it appears.

Information in this presentation that relates to Mineral Resources is based on information compiled by Mr David Williams, a Competent Person, who is a Member of the Australasian Institute of Mining and Metallurgy. David Williams is employed by CSA Global Pty Ltd, an independent consulting company and 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". David Williams consents to the inclusion in this presentation of the matters based on his information in the form and context in which it appears.

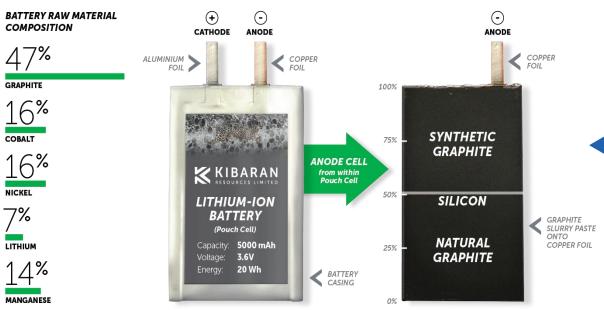
Information in this presentation that relates to Ore Reserves has been compiled by Mr Steve O'Grady, who is a Member of the Australasian Institute of Mining and Metallurgy. Steve O'Grady is a full time employee of Intermine Engineering and produced the Mining Reserve estimate based on data and geological information supplied by Mr Williams. Mr O'Grady has sufficient experience which is relevant to the estimation, assessment, evaluation and economic extraction of the Ore Reserve that he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves". Steve O'Grady consents to the inclusion in this presentation of the matters based on his information in the form and context in which it appears.



BATTERY MARKET OPPORTUNITY: E-MOBILITY

Graphite is a major component of a Lithium-Ion Battery

40% of EV cost is the electric battery and 70% of the battery cost is the cathode (+ve) and anode (-ve) cells





~27kg of natural battery (spherical) graphite will be required per EV

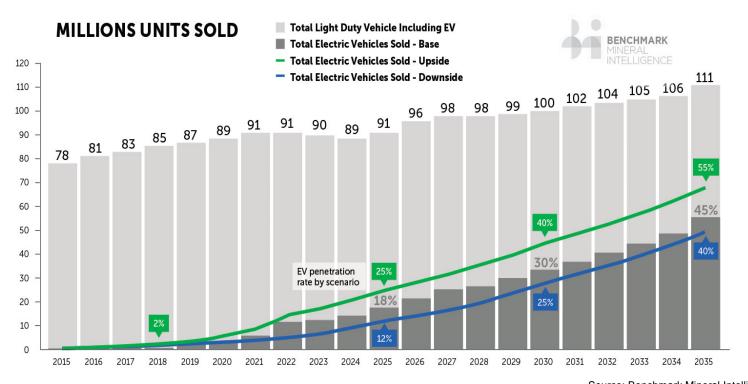
Source: Berlin automobile conference and company reports

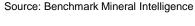


INCREASING GRAPHITE DEMAND DRIVEN BY EV SALES

EV penetration rates increasing from 2% in 2018 to 25% by 2025 Roskill, UBS

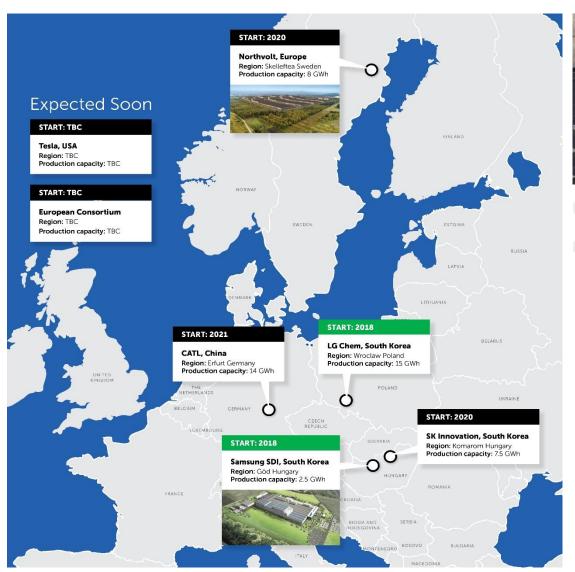
Global expansion of electric vehicle markets forecast to drive a 700% increase in annual natural graphite demand by 2025, Roskill, UBS







GERMAN LED EUROPEAN BATTERY ALLIANCE





New capacity of 47 GWh announced to date

Volkswagen alone requires 150 GWh battery capacity by 2025

+ sufficient for 3 million EV's and requiring over 80,000 tonnes of natural battery graphite





NEW GRAPHITE MINING & MANUFACTURING BUSINESS POISED FOR DEVELOPMENT







Scalable mining projects for long term supply of graphite products

Value-add manufacturing of battery (spherical) graphite for lithium-ion batteries

Development ready Epanko Graphite Project

Tanzania / Asia / Europe

Total pre-tax NPV₁₀ US\$356m

(geared, nominal terms)

Shares on issue	Key holders	Financial
Listed 282m F-diluted 284m	Colonial 13% Board 10% Value-on-Gr. 4% GR Engineer. 2%	Share Price - A\$0.11 Mkt Cap - A\$30.4m

Strong mix of mining, commercial and graphite experience

- Kibaran Chairman Robert Pett, Managing Director Andrew Spinks and in-country Project Director Grant Pierce OAM established Tanzania's Golden Pride Mine which was the recipients of the President's Award in Tanzania for environmental excellence.
- German-based non-executive director Christoph Frey (ProGraphite) is a globally recognised graphite expert. Howard Rae, CFO
 has over 20 years' experience in financing new mining operations.
- Listed on the Australian and German (Frankfurt) stock exchanges



TANZGraphite UPSTREAM GRAPHITE BUSINESS SUMMARY

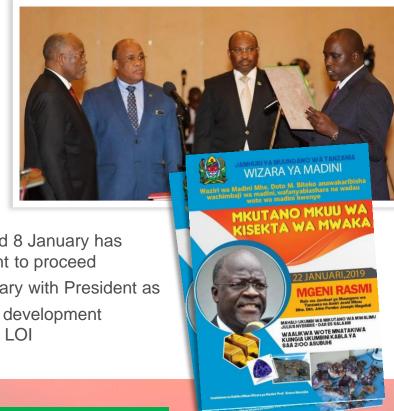
Epanko Graphite Project

Description	Natural flake graphite project			
Location	Epanko Valley, Mahenge, Ulanga District, Morogoro Region, Southern Tanzania			
Status – ready to construct	Bankable Feasibility Study completed June 2017 KFW IPEX-Bank Independent Engineer's Review via KfW and SRK completed August 2017 Financing interest from German and Australian Government lenders			
Social and environmental planning	Completed to Equator Principles standards and achieved: International Finance Corporation Performance StandardsWorld Bank Group Environmental, Health & Safety Guidelines			
Production	Stage 1 is 60,000 tonnes per year of natural flake graphite Scalable development model enables rapid expansion to meet market demand			
Construction cost	Stage 1: US\$89 million (plus US\$20m for grid power connection)			
Strong economic returns	US\$44.5m pa EBITDA // 38.9% IRR // 3.5yr payback // US\$211m pre-tax NPV_{10}			
Major international customers	Thyssen Krupp (Germany) and Sojitz Corporation Offtake agreements in place for Stage 1 EGT Europe			
Employment	200 – 250 Tanzanians (directly) benefitting up to 3,000 family members (indirectly)			
Direct economic contribution to Tanzania over first 20 years of operation	US\$850 million via employment, procurement, income taxes, royalties, fees and dividends (expected operating period is over 40 years)			



EPANKO – POSITIVE DEVELOPMENTS EMERGING IN TANZANIA

- Positive environment expected with Barrick agreeing with terms with Tanzania Government on Acacia issue
- Productive meetings with Ministry of Minerals, Mining Commission and Bank of Tanzania
- Key financing issues:
 - International banks and bank accounts.
 - Government equity participation
 - Governing law disputes and adjudication
 - Logistics and export procedures
- Bank of Tanzania confirms offshore financing arrangements continue to be acceptable
- Genuine effort to ensure new mining investment in 2019
 - New Minister of Minerals (Hon. Doto Biteko) appointed 8 January has visited Epanko and confirmed support for development to proceed
 - Ministry organised TZ Mining Conference 22-23 January with President as guest of honour to renew Government push for more development
- Progressing EPC arrangements with GR Engineering under LOI





Planning for construction in 2019

SIGNIFICANT CONTRIBUTION TO THE TANZANIAN ECONOMY



US\$1.01¹billion in direct contribution to the economy over the first 20 years through local procurement of goods and services, employment, royalties, taxes, dividends and fees



Direct employment of approximately 300 Tanzanians (over 95% of all staff) for 40+ years

4,500 indirect jobs + new industry



Community development
via new housing, school, Church,
medical dispensary, health
insurance, training and positive
engagement to build
lasting social partnerships



- Direct contribution of US\$1.01¹
- Strong multiplier effect across the economy, with an estimated US\$3 billion additional indirect economic benefits
- New manufacturing technology
- Technological development in fastest growing global tech sector
- New trading and investment relationships with overseas partners
- 64% of economic returns to Tanzania

Note 1: Epanko and EcoGraf



EPANKO A HIGH QUALITY SCALABLE GRAPHITE DEPOSIT

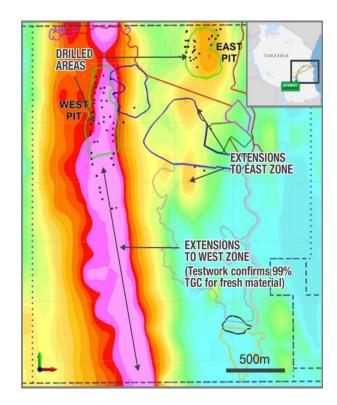
Favourable mineralogy delivers quality and drives robust project economics

- High proportion of large flake sizes
- Graphite is easily liberated and delivers high yield
- Higher carbon grade achieved through simple processing
- Low levels of in-situ deleterious elements.

Epanko Mineral Resource Estimate >8% TGC

JORC Classification	Tonnage (Mt)	Contained Graphite (t)
Measured	7.5	738,900
Indicated	12.8	1,280,000
Inferred	10.4	1,030,600
Total	30.7	3,049,500





- Only 1.1km of the 4km strike identified by VTEM survey has been drilled on the West Pit
- Remains open at depth with the deepest reported graphite intersection at 200m
- Potential to provide significant tonnages of additional graphite mineralisation



K EcoGraff OVERVIEW

Positioned to capitalise on new investment in lithium-ion batteries for e-mobility

Global patent pending over unique eco-friendly purification processing technology

German pilot plant program successfully completed

Testing undertaken by potential customers confirms product quality and performance

First production facility planned for 2019

Highly cash generative business model with payback of less than 4 years

35% gross margin delivers EBITDA of US\$30.5m per annum at 20,000tpa



EcoGraff DOWNSTREAM GRAPHITE BUSINESS SUMMARY

Manufacture of Purified Spherical Graphite

Description	Production of battery (spherical) graphite for use in lithium-ion batteries		
Location	Initially supplying existing Asia-Pacific markets, thereafter new growth in Europe		
Status	Feasibility study completed December 2017 German pilot plant program and process optimisation completed January 2019 Product samples distributed to battery anode manufacturers in South Korea, Japan, China, North America and Germany with strong offtake expected		
Production	20,000 tonnes per year of spherical graphite, configured to expand with global demand		
Construction cost (2017 Study)	5,000tpa: US\$25 million 20,000tpa: additional US\$41 million		
Strong economic returns _(Dec 2017)	US\$30.5m pa EBITDA // 34.3% IRR // 3yr payback // US\$145m pre-tax NPV_{10}		











BATTERY GRAPHITE SUPPLY CHAIN



100 mesh @ 94-95%C natural flake graphite

Produced through crushing, grinding and flotation



Mechanical grinding and shaping

(micronising and spheronising) using standard milling equipment



Unpurified fines bi-product, typically low value



Multi-stage purification, washing and filtration process



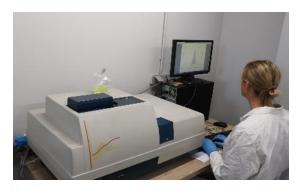




EcoGra GERMAN PILOT PLANT & OPTIMISATION STUDY

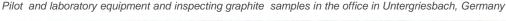
Environmentally sustainable ("green"), hydrofluoric acid (HF) free and cost competitive with existing HF supplies

- Industry leading yields and elimination of highly toxic hydrofluoric acid to deliver a more environmentally sustainable product
- Optimisation study led to further reduction in usage rates resulting in improved operating costs
- Other key achievements:
 - ✓ Treatment of graphite from Kibaran's Epanko Project in Tanzania, including battery (spherical) graphite and fines from spheronization (by-product) produced up to 99.98% carbon
 - ✓ Application of large natural flake graphite samples produced carbon levels above 99.95%
 - ✓ Successful application to 11 other global sources as graphite feedstocks from Europe, Africa, Asia and the Americas.
- Agreement finalised for long-term supply of standard grade graphite (minus 100 mesh at 94% carbon) which will be used as feedstock to support stages 1 and 2 of a stand-alone downstream business











EcoGra PRODUCT SPECIFICATIONS



Date(m/d/y): 10/10/18

- ✓ Battery graphite samples (SpG14.5, 15 and 20) assessed by battery anode manufacturers
- ✓ Testing confirms product samples achieve battery anode manufacturers specifications

Product Specification for Battery Graphite – SPG15						
Particle Size			Carbon	%	99.98	
d10	micron	10.3				
d50	micron	15	Impurities			
d90	micron	22.1	Al	ppm	2.7	
			Ca	ppm	4.6	
Tap density	kg/l	0.98	Fe	ppm	5.5	
			Mg	ppm	0.5	
Surface Area (SSA)	m²/g	7.4	S	ppm	5	
			Si	ppm	15.4	
			Zr	ppm	0.5	



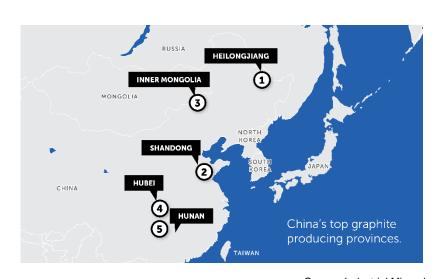
EcoGraff PRODUCT QUALIFICATION PROGRAM

Over 80 graphite samples including various grades of spherical graphite tested successfully by potential customers

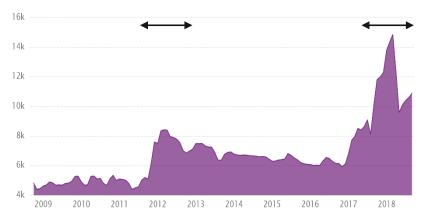
	Ore	Flake Conc	High Purity Conc	SPG fines	SPG14.5	SPG15	SPG20	Coated SpG	EcoGraf Purified SPG
Lithium-ion Battery Ma	nufacture	rs							
South Korea	~	~			•				
Japan	~	~	~		~	~	~		~
Japan									
China		~			~		~		
Lithium-ion Battery Ma	rket Partic	ipants							
Germany		~	~		~		~	~	~
Germany		~	~		~		~	~	~
Germany				~					
US		~					~	~	
Japan		~							
Germany					~	~			



EcoGrafi PROVIDES A COMPETITIVE NEW SUPPLY OF BATTERY GRAPHITE TO MEET EX-CHINA DEMAND



Source: Industrial Minerals



China's CN: Market Price (RMB): Monthly Avg: Inorganic Chemical Material: Hydrofluoric Acid 55% from Jan 2006 to Mar 2018

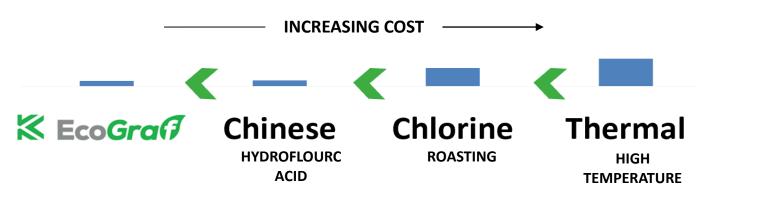
- All battery graphite is presently produced in China using hydrofluoric (HF) acid to achieve 99.95%C with Hubei and Shandong the largest producing areas and increasingly subject to environmental regulation
- HF prices have doubled over past 12 months.
- HF is a major contributor to the cost of Chinese battery graphite production in both input cost and management of fluorine enriched waste residues
- 0.25 tonne of HF is required to produce for 1 tonne of battery graphite.
- Chinese cost of battery graphite is estimated ~ US\$2,000 – US\$2,400 per tonne

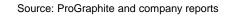
EcoGra PROVIDES A COMPETITIVE NEW SUPPLY OF BATTERY GRAPHITE TO MEET EX-CHINA DEMAND

EcoGraf advantages to existing supply

BATTERY GRAPHITE	് EcoGra∏	*3
Purification grade	>99.98%	>99.95%
Purification of fines	✓	×
Eliminates use of toxic hydrofluoric acid	✓	×
Eco-friendly	✓	×

EcoGraf is competitive to existing supply and alternative purification methods



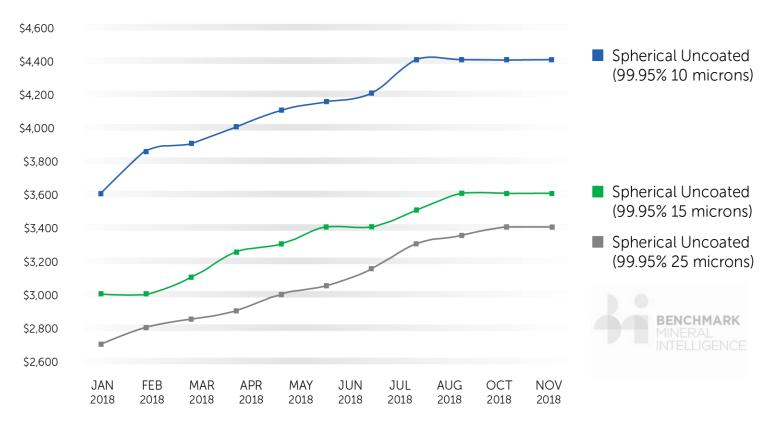


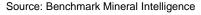


GROWING BATTERY DEMAND UNDERPINS HIGHER PRICES

Chinese demand up 39% and exports now expected to break through 100,000 tonnes of battery graphite, dominated by 3 major groups

GRAPHITE PRICES (USD/Tonne): JAN 2018 - NOV 2018







GRAPHITE VALUE CHAIN

Opportunity to capture downstream processing market value is compelling

Natural Flake Graphite

PRICE RANGE US\$700-2,100/t





Development of Epanko Graphite Mine

Sales in place for 30% of traditional markets in Europe, Japan and South Korea

Market Value US\$0.7 Billion







Spherical Graphite (Natural Graphite)

PRICE RANGE US\$3,400-4,400/t





Asia-Pacific and European production

Targeting 25-30% ex-China market

Market Value US\$2.5 Billion

Coated Spherical Graphite Battery Anode Cells

PRICE RANGE US\$5,200-16,000/t



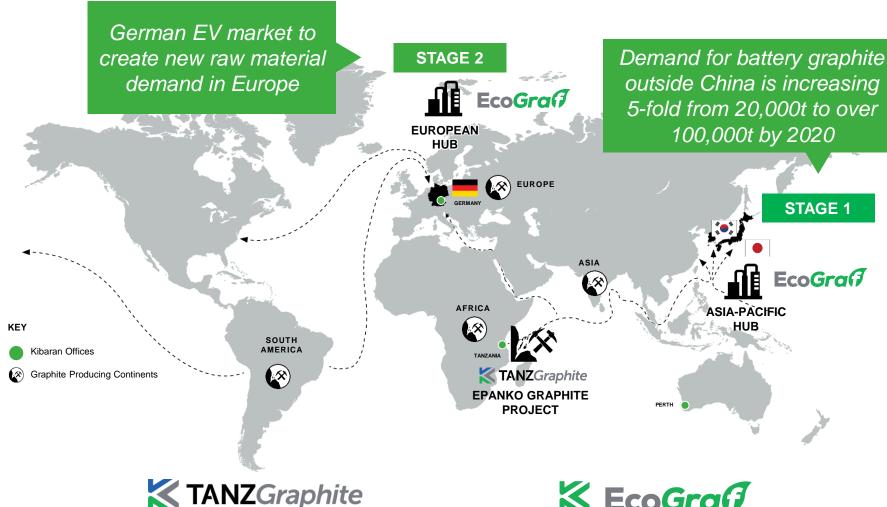
Potential entry into anode market with partnerships.

Market Value US\$8.5 Billion



Source: ProGraphite Presentation IM Conference September 2018

BUILDING A GLOBAL GRAPHITE SUPPLY NETWORK



High quality 40+ year supply of natural flake graphite at Epanko and Merelani in Tanzania



Unique non-HF purified spherical graphite (patent pending)



CATALYSTS TO UNLOCK VALUE

Building a Sustainable Global Graphite Business

UPSTREAM BUSINESS EPANKO GRAPHITE PROJECT



Natural Flake Graphite (NfG)

Production NPV₁₀ EBITDA 60ktpa US\$211m US\$44.5m

Project financing





DOWNSTREAM BUSINESS BATTERY GRAPHITE FACILITY

Spherical Graphite (SpG) (F) Fines

(UN) Unpurified

(P) Purified



Production NPV₁₀ EBITDA

20ktpa US\$145m US\$30.5m

- Strategic partnerships
- Offtake



Total pre-tax NPV₁₀ US\$356m

(geared, nominal terms)





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