Black Rock Mining Mahenge Graphite Mine

Investor Update

Battery Minerals Conference 2 June 2021



Important notices

This presentation has been prepared by Black Rock Mining Limited (Black Rock or the Company).

The release, publication or distribution of this presentation in certain jurisdictions may be restricted by law and therefore persons in such jurisdictions into which this presentation is released, published or distributed should inform themselves about and observe such restrictions.

This presentation is for informational purposes only and does not constitute an offer to sell, or solicitation to purchase, any securities. Such Offer can be made only through proper subscription documentation and only to investors meeting strict suitability requirements. Any failure to comply with these restrictions may constitute a violation of applicable securities laws. In providing this presentation Black Rock has not considered the financial position or needs of the recipient. Persons needing advice should consult their stockbroker, bank manager, solicitor, attorney, accountant or other independent financial and legal advisors.

Competent Person(s) Statement

The information in this report that relates to Exploration Results and Mineral Resource Statements is based on information compiled by John de Vries, who is a member of the AusIMM. He is an employee of Black Rock. John de Vries 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 2004 and 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'.

The information that relates to Mineral Resources is based on and fairly represents information compiled by Mr Lauritz Barnes, (Consultant with Trepanier Pty Ltd) and Mr Aidan Patel (Consultant with Patel Consulting Pty Ltd). Mr Barnes and Mr Patel are members of the Australian Institute of Mining and Metallurgy and have sufficient experience of relevance to the styles of mineralisation and types of deposits under consideration, and to the activities undertaken to qualify as Competent Persons as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Barnes, Mr Patel and Mr de Vries consent to the inclusion in this report of the matters based on their information in the form and context in which they appear.

The Ore Reserves have been compiled by Black Rock, under the direction of Mr John de Vries, who is a Member and Chartered Professional of the Australasian Institute of Mining and Metallurgy. Mr de Vries is a full-time employee of Black Rock and holds performance rights in the company as part of his total remuneration package. Mr de Vries has sufficient experience in Ore Reserve estimation relevant to the style of mineralisation and type of deposit under consideration to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Mineral Resources and Ore Reserves".

Forward Looking Statements

Various statements in this presentation constitute statements relating to intentions, future acts and events. Such statements are generally classified as "forward looking statements" and involve known and unknown risks, uncertainties and other important factors that could cause those future acts, events and circumstances to differ materially from what is presented or implicitly portrayed herein. Words such as "anticipates", "expects", "intends", "plans", "believes", "seeks", "estimates" and similar expressions are intended to identify forward-looking statements. Black Rock cautions shareholders and prospective shareholders not to place undue reliance on these forward looking statements, which reflect the view of Black Rock only as of the date of this presentation. The forward looking statements made in this presentation relate only to events as of the date on which the statements are made.



Black Rock and the Mahenge Graphite Mine

Table of Contents

Corporate: Black Rock at a glance	4
Snapshot of the Mahenge Graphite Mine	6
 Graphite Use 	7
 Graphite Market Dynamics 	8
Why Black Rock ?	9
 Graphite Playbook 	11
 Foundation 	12
 Near-term catalysts 	13
 Operating Drivers 	14
 Market Entry Model 	15
 POSCO Strategic Alliance 	16
 Sensible Price Discovery 	17
 Financing Mahenge 	18
Investment Highlights	19



Black Rock at a glance

Premium graphite player

- Australian-listed company (ASX: **BKT**) 100% owner of Mahenge Graphite Mine
- Located in Tanzania
- Mineral Resource of 212Mt at 7.8% TGC¹
- Ore Reserve of 70Mt at 8.5% TGC¹
- Long-life mine producing high-purity, coarse distribution graphite concentrate
- Qualified path to market through established Strategic partnerships
- **Outstanding forecast economics**
- Construction-ready subject to financing and confirmation of Tanzanian Government Free Carried Interest Agreement

Capital structure

ASX ticker	BKT
Share price (1 June 2021)	\$0.18
Shares on issue	842.2 M
Options and performance rights	92.4 M
Market capitalisation (undiluted) (@\$0.19c)	A\$160.0 M
Cash (31 March 2021)	A\$1.9 M
Debt (31 March 2021)	Nil

Major shareholders

Copulos Group	19.0 %
POSCO Group	15.0 %



The leaders to deliver

Proven mine development, project finance and African operating experience

Board

John de Vries, Managing Director and CEO

- Mining Engineer with over 35 years' experience in mine development and operations; professional experience spans Africa, the Pacific, the Former Soviet Union, North and South America and Australia
- Previously General Manager Technical Services with St Barbara, integral in the 2014 turnaround; earlier operational management roles at BHP Nickel West and Orica Mining Services

Richard Crookes, Non-Executive Chairman

- Geologist with over 30 years' executive experience in the resources and finance industries; raised capital and financed a number of projects globally, including across Africa
- Prior roles include Investment Director at Mining PE Fund EMR Capital, Executive Director in Macquarie's Metals & Energy Capital and Chief Geologist / Mining Manager at Ernest Henry Mining

Ian Murray, Non-Executive Director

- Finance Executive with over 20 years' corporate experience in the publicly listed resources sector; led highly successful project developments, major acquisitions, company restructures and stock exchange listings
- Previous roles include CEO of Gold Road Resources, CEO and CFO of DRDGold Ltd, Director of Rand Refinery Ltd and GoldMoney.com, and senior positions at KPMG, PwC and Bioclones

Gabriel Chiappini, Non-Executive Director & Company Secretary

- Chartered Accountant with over 20 years' experience in the commercial sector; assisted a number of companies to list on the ASX and involved with total equity and debt raised of over A\$400M
- Over the last 15 years has held positions of Director, Company Secretary and Chief Financial Officer in both public and private companies with operations in Australia, the UK and the US

Executive management

Raymond Hekima, Vice President – Corporate (Tanzania)

- Qualifications in Environmental Sciences and Management with over 13 years' experience in the government and corporate sectors, including significant specific permitting expertise
- Responsible for overall business and operations in Tanzania and key relationships and interactions with national government, local government, NGO's and community relations



A snapshot of the Mahenge Graphite Mine

Simple open pit mine development with outstanding forecast returns

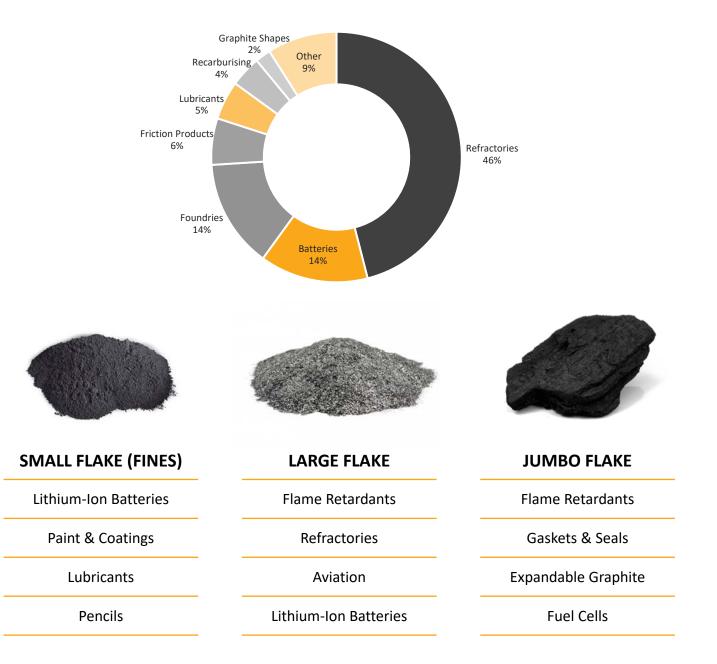


Following release of the Enhanced Definitive Feasibility Study (DFS) on the Mahenge Graphite Project in July 2019 (see Black Rock ASX release dated 25 July 2019, *Mahenge Enhanced DFS with Executive Summary*), Black Rock confirms that it is not aware of any new data or information that materially affects the results of the Enhanced DFS. All material assumptions and technical parameters, including in the estimation of Mineral Resources or Ore Reserves, underpinning the estimates in the Enhanced DFS continue to apply and have not materially changed. The estimated Ore Reserves and Mineral Resources underpinning the production and financial forecasts in the Enhanced DFS were prepared by Competent Persons in accordance with the requirements in Appendix 5A (JORC Code).



Graphite Uses¹

Black Rock has a diversified product mix with 60% exposure to the high margin large flake market

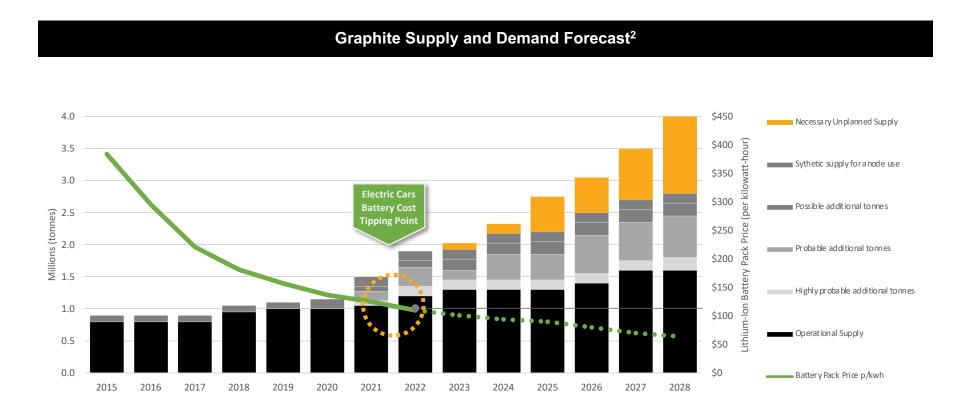




Graphite market dynamics

EV-driven intensification of graphite demand to have profound impact

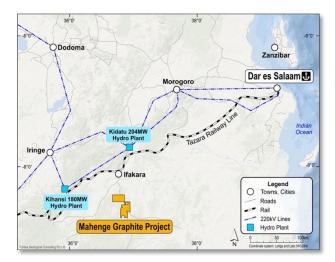
- Electrification of transport to accelerate graphite demand
 - EV battery pack price per kwh has dropped from US\$295 in 2016 to US\$137 in 2020; projected to fall to US\$94 by 2024 and US\$62 by 2030¹
 - Sub US\$100 delivers electric vehicles at cost parity with gasoline cars
- Global graphite demand forecast to exceed supply by 2023





Why Black Rock ?

Unique competitive advantages driven by Geology and Geography







GEOLOGY

- ★ Mahenge's 212mt resource makes it the 4th largest graphite resource in the world
- ★ Low deleterious impurities and favourable metallurgy means that Mahenge is able to produce up to 99% TGC concentrate purity, solely with conventional flotation processing

Low Technical Risk

- ★ Substantial pilot plant operations of 110 tonnes
- Direct access to rail, grid power, water allows for sustained lower cost operation
- Production underwritten by strategic partnership with POSCO and off-take agreements

High Margin

- ★ AISC margin of 63.1%
- Mine can produce three grades of product which provides the capacity to switch to higher quality product to achieve pricing premiums
- ★ Mahenge has a very low life of mine strip of 0.8:1

GEOGRAPHY

- Access to key infrastructure, Grid Power, Rail, Airstrip, Water and Tailings disposal (dry stack)
- ★ Logistics advantages with processing through Dar es Salaam high volume container port

Low Capex

- Lowest peak capital expenditure per annual tonne of production of any development stage global graphite project
- Modular operating model

Superior Economics

- \star NPV₁₀ of US\$1.16Bn
- ★ IRR 44.8%
- ★ 63.1% Margin

Why Black Rock ?

A new greener source of Graphite

Mahenge Graphite Deposit

- High-grade Graphite
- Low deleterious elements
- Low strip ratio



Hydro Electric Power

- Low carbon power supply, and transport footprint
- Reduced community vehicle interaction

Customer Markets

 Higher grade concentrate reduces manufacturing and energy consumption



Simple Processing

- Three stage polishing
- No wet screen
- Low energy

Diversity

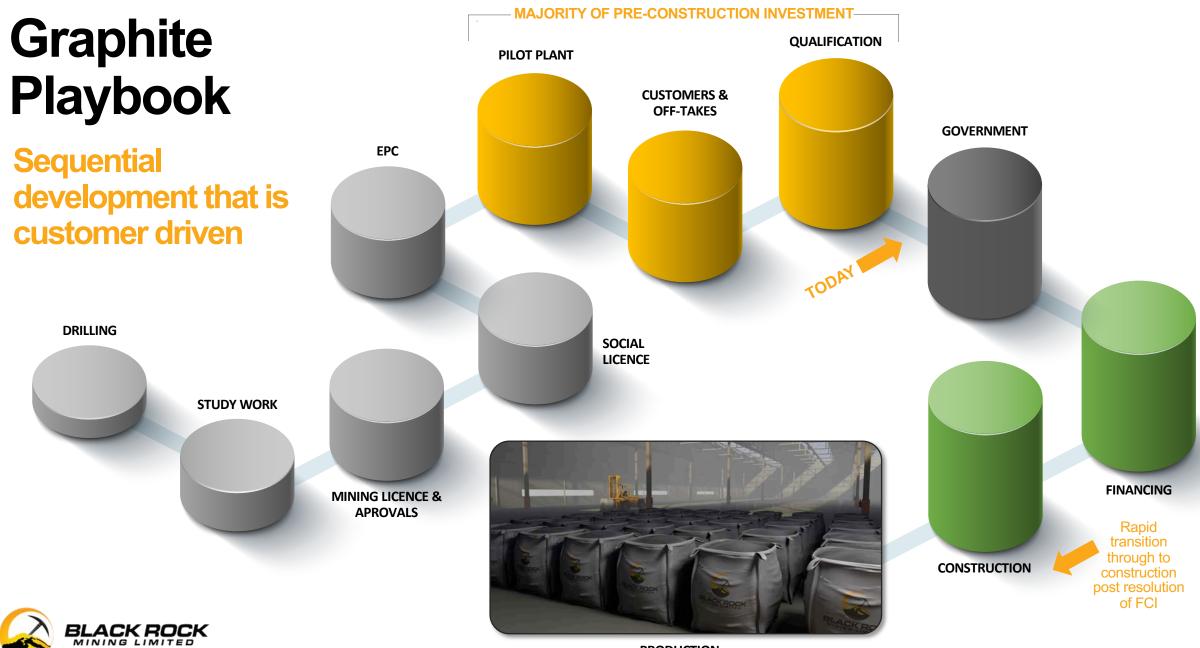
 Meaningful increase in supply chain diversity

BLACK ROCK



Dry Tailings

- Dry stack tailing
- Do not compete with local communities for water

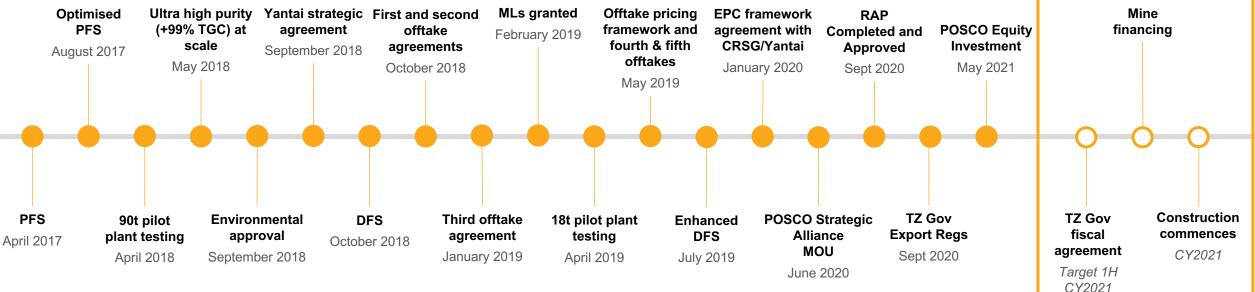


PRODUCTION

The Foundation

A sector-leading approach to managing project and market risks

- Largest pilot plant operations of any graphite development project globally
- Highest TGC^{*} purity achieved at commercial scale through simple flotation
- Diverse portfolio of credible offtake partners
- Detailed offtake pricing framework agreed
- Right-sized market entry profile and modularised scalability
- Enhanced DFS level of project definition
- Sector-first EPC framework agreement with SOE China Railway Seventh
- Environmental approval, MLs granted, and Resettlement Action Plan

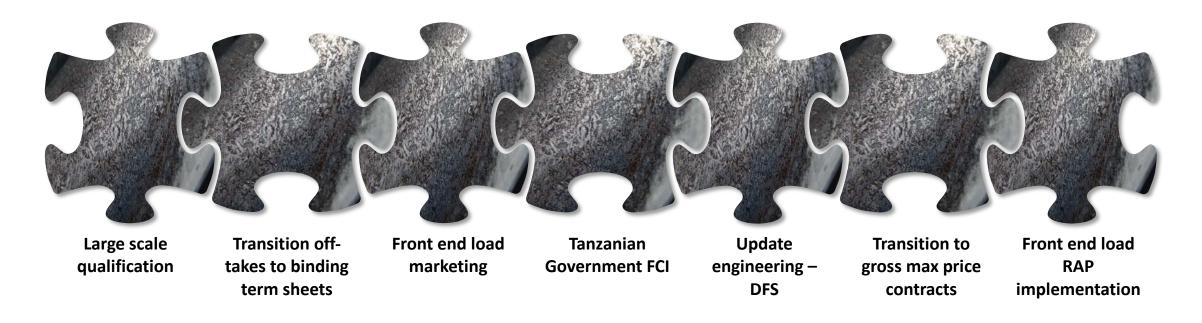


* Total Graphitic Carbon as defined by Loss on Ignition

Near-term catalysts

Focus on runway to construction

- Continued focus on customer markets and supply chain
- Sure up contracts
- In country works
- Mine optimisation





Operating Drivers

Key lessons learned that drive project value



Graphite is a customer driven market

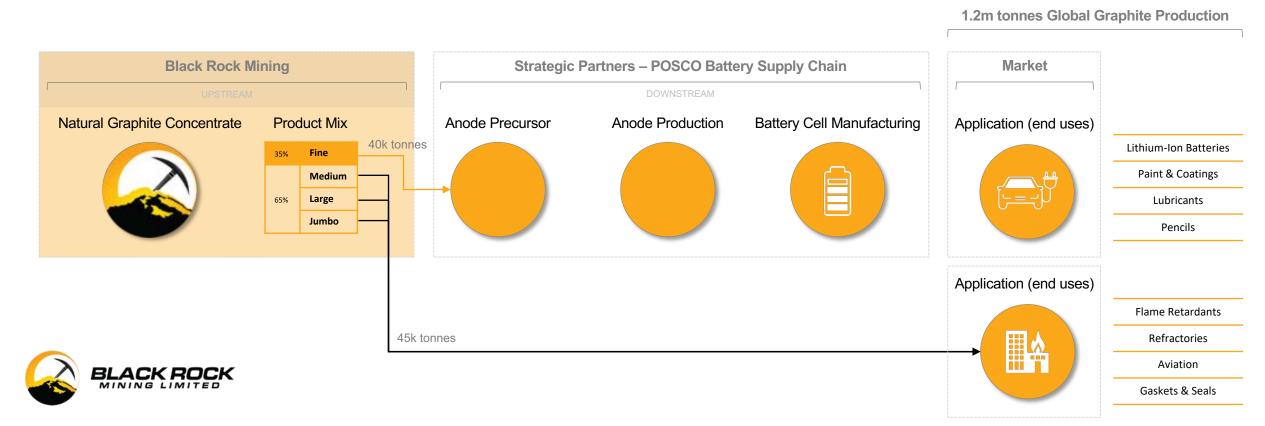
	Geology drives basket price	Margin curve drives project value	Graphite is not Base Metals	ESG applies to whole of value chain		
rned t	 ★ Enough flake to add value ★ Enough fines to attract cornerstone investor ★ There are no coproduct credits, only deliterious elements 	aluecan account for up to 40% of costinough fines to ttract cornerstone nvestor★ Cost is a function of strip ratio grade and process complexityinough fines to ttract cornerstone nvestor★ Cost is a function of strip ratio grade and process complexity		 ★ Increasingly important differentiator ★ Clean natural flake has advantages ★ Chain of custody is important 		
San San	MAHENGE					
	 ★ 70% Flake ★ 30% Fines ★ \$1300/t @ 97.5% 	 ★ Rail to port ★ Hydro power on grid ★ Crawl / walk / run / sprint strategy 	 2 pilot plants for 110 tonne POSCO as cornerstone Targeting mix of Chinese and Western customers 	 ★ Dry stack ★ Green power ★ No acid interference 		



Market Entry Model

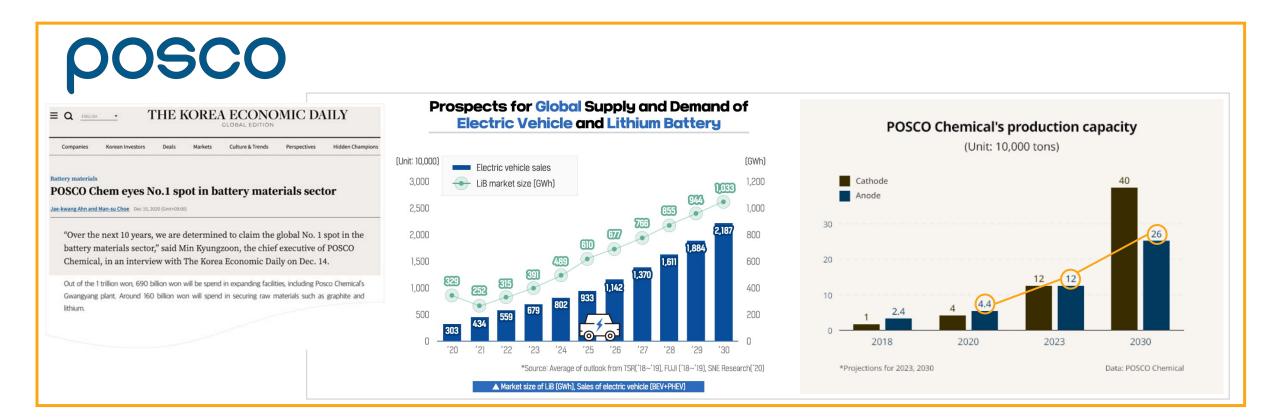
Credible and Qualified path to customer markets

- Sensible Module 1 entry size (~85ktpa): limited enough to allow product market integration but significant enough to deliver meaningful returns
- Coarse distribution of Mahenge enables an effective dual project:
 - Approx. 60% coarse flake (+80 mesh; +180 microns) for premium large flake markets of limited competition and demanding product
 - Approx. 40% medium and fine flake (-80 mesh; -180 microns) for traditional graphite markets and EV battery usage
- Module 1 output represents less than 7% of global production



POSCO Strategic Alliance

- The partnership with POSCO validates the credibility of Black Rock's Mahenge Graphite deposit. It's real.
- POSCO has a clear view on EV/Battery demand with a significant growth ambition of 20% global share of the battery materials sector
- This is aligned to Black Rock's modular growth strategy
- The deal will enable the ability to secure a best-in-class financing package



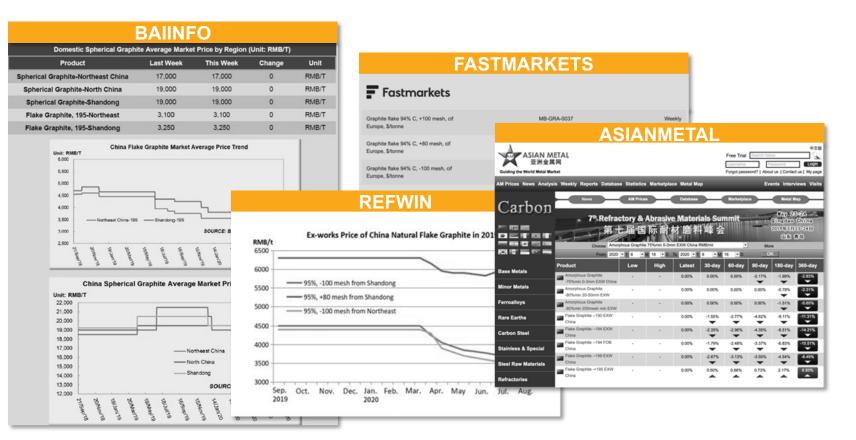
Sensible price discovery

Visible sources to index

China share ~85% of global supply. Price benchmark must be China sourced.

- www.refwin.com
- www.asianmetal.com
- www.fastmarkets.com
- www.baiinfo.com





BLACK ROCK DFS PRICE ASSUMPTION	S
--	---

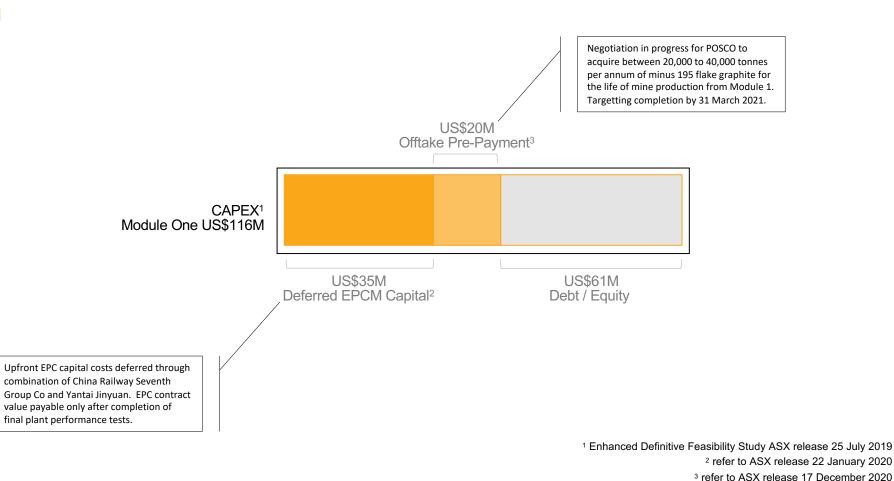
Enhanced DFS segments (Mesh #)	Segment pricing (US\$/t)	Basket weight (%)	Shipping (US\$/t)	Channel & agent (US\$/t)	Contract discounts (US\$/t)	Basket FOB (US\$/t)
+32	1,579	5	1.65	1.97	1.97	73
+50	1,449	18	5.96	6.52	6.52	242
+80	1,444	36	11.89	12.98	12.97	481
+100	1,378	9	3.06	3.19	3.19	118
-100	1,314	32	10.52	10.44	10.44	386
	1,404	100	33.08	35.10	35.10	1,301

Prices based on average concentrate purity of 98% graphite by LOI

Financing Mahenge

Risk-adjusted finance process focused on securing the right funding mix

- Targeting a blended project financing model
- Matching risks to participants best placed to manage them
- Key potential finance stakeholders include EPC vendor, offtake counterparties and Tanzanian government
- POSCO/EPCM de-risks the funding package





Black Rock: The premier graphite exposure

A world-class deposit with a superior development strategy





John de Vries Managing Director and CEO

T: +61 438 356 590 E: jdv@blackrockmining.com.au

A: 45 Ventnor Avenue West Perth WA 6005

www.blackrockmining.com.au

Richard Crookes

Chairman

T: +61 438 356 590 E: richard.crookes@blackrockmining.com.au

Elvis Jurcevic

Investor Relations

T: +61 408 268 271

E: ej@blackrockmining.com.au



