

Syrah Resources: Moving into Operations

November 2017 Shaun Verner, Managing Director and CEO



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Corporate Introduction



Syrah Resources overview

Corporate & Development

- · Australian Stock Exchange: SYR
- S&P/ASX200 index member
- Market capitalisation ~US\$850m¹
- · Moving from project to operations
- Target cash flow positive H1 2018

Natural Graphite

- The world's largest and one of the lowest cost flake graphite mines
- · World class ore grade of 17%
- Mine life of over 50 years
- World's largest graphite supplier by 2018 and ~40% global market share by 2020
- CY18 production of 160 180kt
- CY19 production of 250 300kt

Battery Anode Material

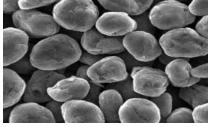
- Aim to be the first integrated BAM producer outside of China
- Capture additional cash margin and establish key position in the supply chain of global battery market
- Targeting sales into USA domestic market as well as exports to other major battery making regions
- · Collaboration with industry leaders

Optionality

- Balama expansion the lowest cost incremental tonne of supply
- Battery Anode Material expansion when market conditions suitable
- Processing of vanadium byproduct











Investment highlights

First mover advantage	 Balama Graphite Project in Mozambique will be the largest natural graphite mine globally from 2018 Syrah is the only listed company with a major graphite project currently commissioning, moving to production
Tier 1 asset	 Long life asset, with over 50 years of mine life and 350kt per year of graphite concentrate production capacity Targeting first quartile cash cost within the first year of production High grade concentrate provides a competitive differentiator relative to current industry standards Scale of resource provides Syrah optionality to substantially expand production in the future
Exposure to high growth markets	 Sales agreements signed with traditional and battery market customers for both flake concentrate and BAM Graphite is a key component of lithium-ion batteries Major supplier of flake to BTR New Energy Materials, the world's largest anode producer
Value accretive BAM strategy	 Opportunity to capture additional cash margin and establish core position in the battery supply chain through value-added processing of graphite from Balama Balama's product is a major enabler in the delivery of this strategy



Syrah's strategy is focussed on value; enabled by a world class deposit and fast growing market

Goals	Logic	Enablers	Timing				
Be the pre-eminent supplier of flake graphite	Industrial for baseload demandLithium-ion battery market growth	Low costHigh qualityLarge volume	 First saleable product this month First revenue in early 2018 				
Be the first integrated battery anode material producer outside China	 High value-add product First mover advantage Diversification in the global supply chain 	Electric vehicle market growthEnergy storageConsumer goods	 Qualification product in Q2 2018 Commercial product in Q4 2018 				
Maximise value of other options	Large scale depositLithium-ion battery market growthVanadium	Expansion of Balama mineBattery anode material expansionProcessing Vanadium	Options under development				
Our Values and People underpin how we execute our strategy							
Deliver value for stakeholders and shareholders							



Lithium-ion Battery Market



Global policy, sales momentum and industry investment continue to build for the electric vehicle market

Government regulations EV fleet surpassed 2 million in 2016, **Traditional OEMs responding to** driving change ~1 million more to be added in 2017 EV development and competition Invest up to \$24 billion to produce more than 3 million EVs pa by 2026 Stock of EVs (millions) Has sold 100,000 EV/PHEV in each of the last 3 years EVs to be15-20% of sales by 2025 Others All sales to be EV/PHEV by 2019 Sweden 50% of sales to be EV/PHEV by 2020 PEUGEOT France 80% of core models to be EV/PHEV by 2023 United Kingdom 20% of EU sales to be EV/PHEV by 2020 Netherlands Norway 65% of all sales to be EV/PHEV by 2030 HYUNDAI 31 new models and 300,000 EV/PHEV sales by 2020 United States China Partnering with Nissan/Renault to launch 12 new EV/PHEV models by 2022 68-78 gCO2 gCO2 per KM per KM per KM 10 EV/PHEV models by 2020 -BFV + PHFV 13 EV/PHEV models by 2022, including F-150 hybrid Global Electric Vehicle Leaders Over 500,000 full electric cars and trucks planned 2013 2021 2025 2010 2011 2012 2013 2014 2015 2016 TESLA Leading Chinese EV car and bus producer BYD



Lithium-ion battery market size expected to grow to 500GWh in 2025, from 60GWh in 2015; impact on flake graphite significant

Larger and lower cost lithium batteries

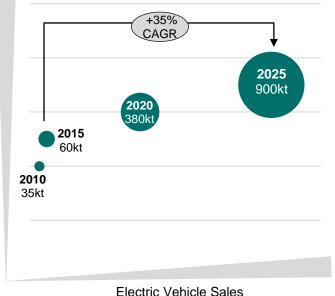
2010 20GWh 20GWh 2015 60GWh 2025 500GWh

EV battery size

(kWh)

Flake graphite demand from lithium-ion batteries

Natural graphite anode penetration



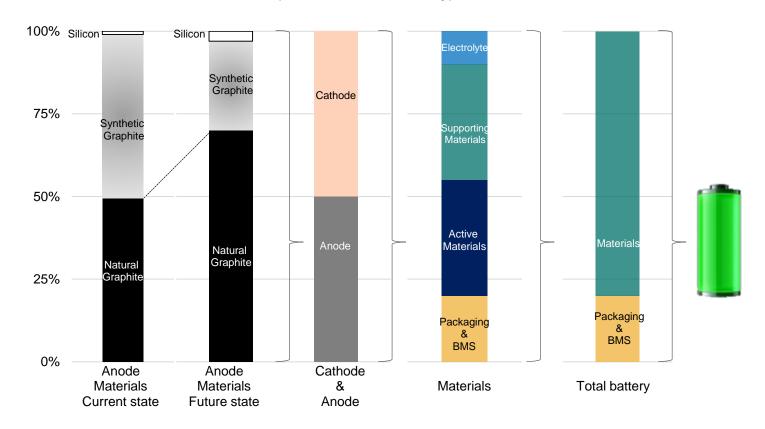
Electric Vehicle Sales (million per annum)



Anode material is 10 - 15% of the total battery cost, increasing natural graphite assists battery cost reduction

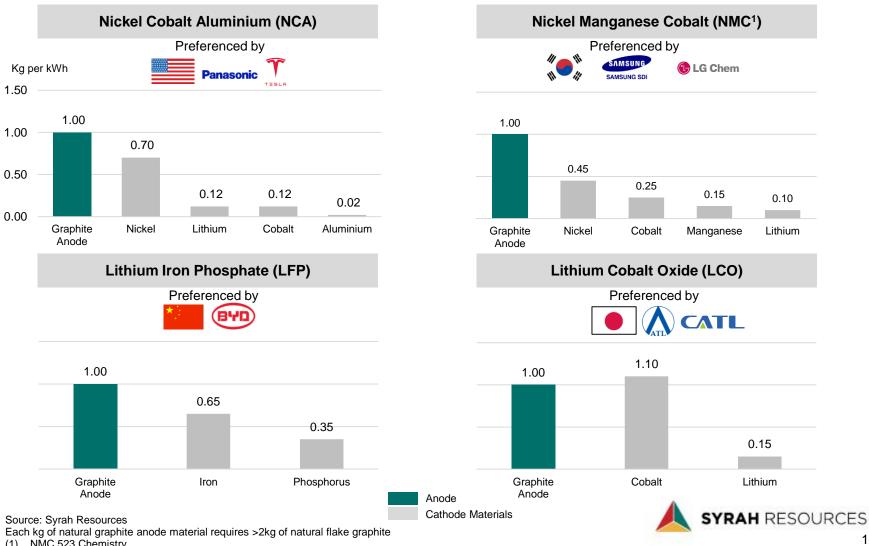
Materials Breakdown

(NCA Lithium ion battery)





Graphite anode concentration is battery chemistry agnostic; more graphite per kWh than cathode commodities



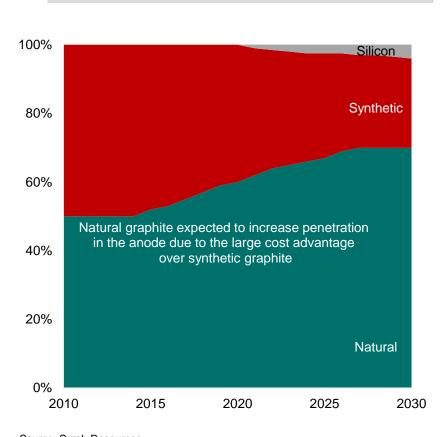
(1) NMC 523 Chemistry

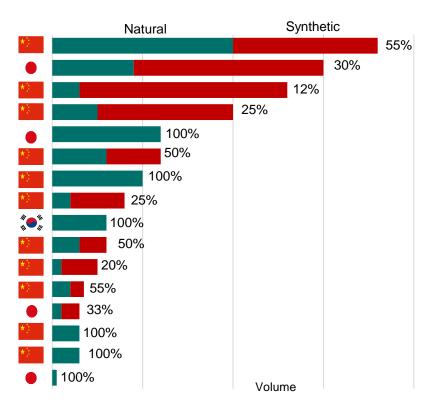
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Blending natural and synthetic graphite in anodes enables a balance of performance and cost

Natural graphite penetration expected to increase

Anode composition by major anode producer





Source: Syrah Resources



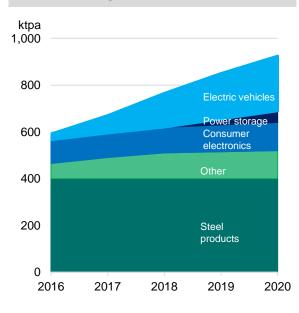
Graphite Market

Baseload of demand in industrial markets; incremental demand driven by batteries; supply constraints in China impacting market dynamics

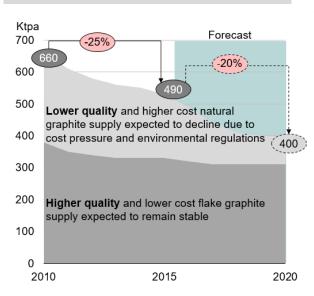
Global natural flake graphite demand growth +250kt to 2020

Natural flake graphite supply forecast, market short to balanced by 2020

China's domestic supply to has been declining since 2011





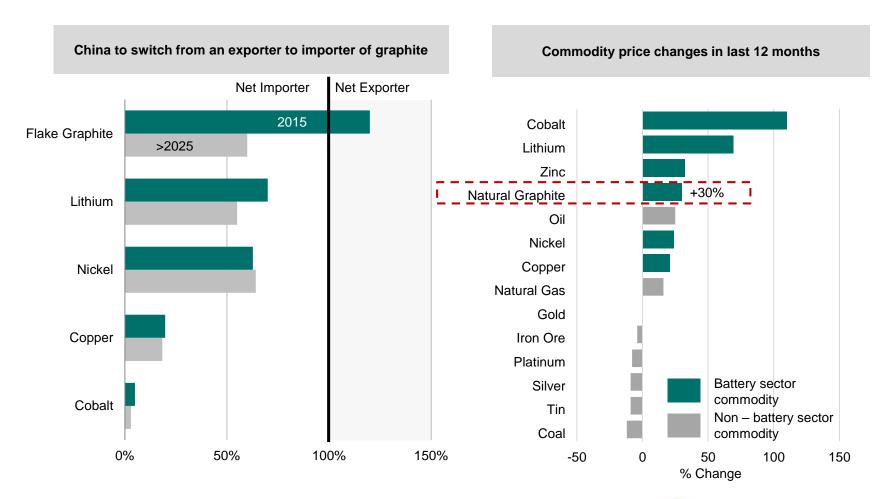




Notes: Steel sector includes refractory bricks, foundries, crucibles and recarburizer Other includes lubricants, brakes, friction products and pencils



China's demand for flake graphite is increasing at a time of reducing domestic supply; prices beginning to reflect changing market dynamics



Source: Syrah Resources, Woodmackenzie, CRU, Metal Bulletin

Balama Graphite Mine

Balama commissioning underway, first saleable product this month



Crushing and primary milling



Flotation



Flakes and fines drying; screening and bagging



Intermediate Concentrate production in October



15MW Power station



Process water storage



Syrah's Balama graphite operation is a tier 1 asset by any measure

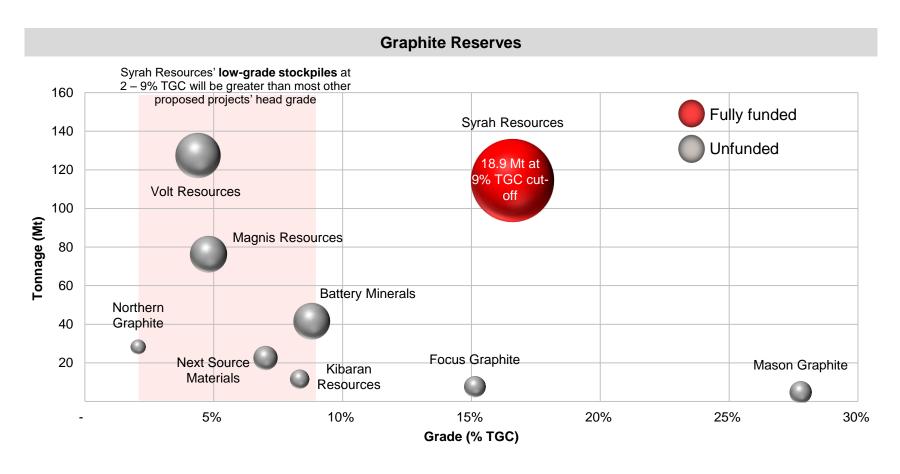
Reserves and Resources	 Reserves¹: 114.5Mt at 16.6% Total Graphitic Carbon (TGC) - 18.9Mt of contained graphite Resources¹: 1,191Mt at 11.0% TGC - 128.5Mt of contained graphite 			
Mining	- Simple, open pit mining operation with extremely low stripping ratio			
Processing method	- Conventional process that includes crushing, grinding, flotation, filtration, drying, screening and bagging			
Production target	- 95% to >98% TGC concentrate to be produced across a range of flake sizes			
Production ^{1,2}	 Production capability of 350kt of graphite concentrate per year CY18 production of 160kt to 180kt / CY19 250kt – 300kt Ramp up profile to be optimised to meet market demand over time 			
Cash operating cost	- Targeting a cash operating cost of <us\$400 <us\$300="" and="" as="" capacity<="" expected="" first="" full="" in="" is="" optimised="" per="" plant="" ramps="" reduce="" th="" the="" to="" tonne="" up="" year;=""></us\$400>			
Life of mine	- Over 50 years			
Option value	 Balama's large reserve and resource allows for potential plant expansion (flake or fines circuit), representing a low capital intensity option to meet incremental future graphite demand Vanadium, a by-product which is liberated during the graphite production process (V₂O₅) 			

⁽²⁾ All material assumptions underpinning the production target in the initial announcement continue to apply and have not materially changed



⁽¹⁾ Refer to ASX announcements titled "Syrah finalises Balama Graphite study and declares maiden ore reserve" released on 29 May 2015, "Syrah increases Balama Reserves and awards Laboratory Contract" released on 15 November 2016 and page 27

Syrah's high grade Balama deposit has the largest defined graphite reserve globally; only major project nearing operations



Source: Company filings

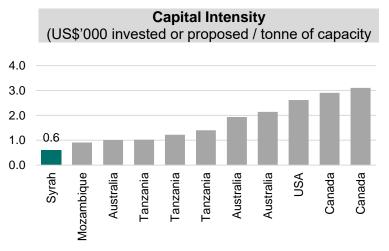
Notes: Selected ASX and TSX listed graphite projects only and excludes Chinese producers. TGC = Total graphitic carbon

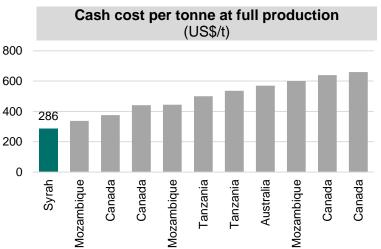
Bubble size is representative of latest reported contained graphite reserves Cut-off grade for Northern Graphite (Ontario, Canada) is 0.96% TGC Cut-off grade for Volt Resources (Tanzania) is 1.29% to 1.76% TGC Cut-off grade for Magnis Resources (Tanzania) that aims for a 98% Cg concentrate grade at a production level of 240ktpa from a 5Mtpa concentrator Cut-off grade for Mason Graphite (Quebec, Canada) is 6% TGC

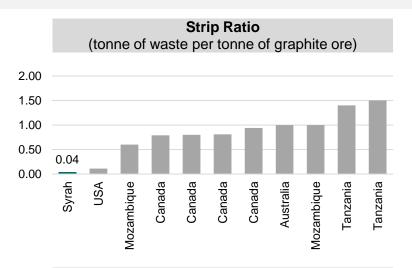
Cut-off grade for NextSource Materials (Madagascar) is 4.5% TGC Cut-off grade for Battery Minerals (Mozambique) is 4% TGC Cut-off grade for Kibaran Resources (Tanzania) is 5% TGC Cut-off grade for Focus Graphite (Quebec, Canada) is 3.1% TGC

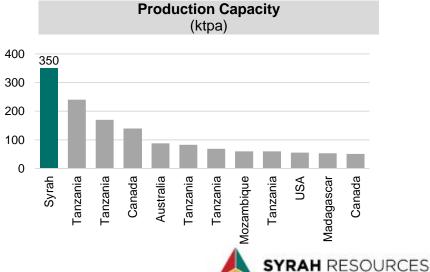


Investment and operating metrics highlight Syrah's advantage over all other greenfield projects; Balama brownfield expansion possible



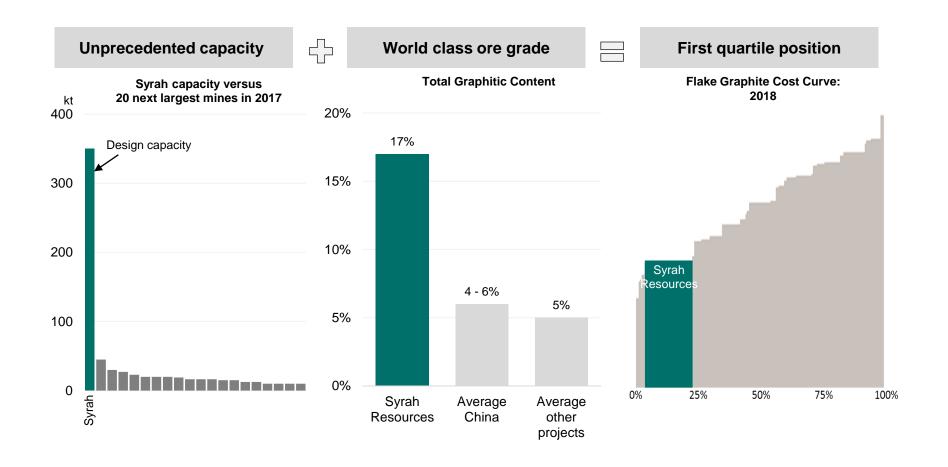






Source: Syrah Resources, Corporate Reports and ASX announcements Note: Syrah Resources benchmarked against the next best ten greenfield options in each metric Competitor location based on location of proposed mine, not company headquarters

Largest capacity, high and consistent quality and a long life asset enables Syrah Resources to be the global graphite leader



Battery Anode Material (BAM)

BAM strategy leverages product quality, location and timing to establish position and maximise value

Electric Vehicle driven battery growth of 23% CAGR (in GWh) to 2025

Market and Strategy

BAM market opportunity and margins are driven by:

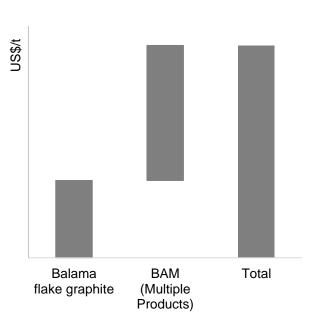
- Anode quality and performance in the battery
- Cost of alternative materials
- Security of supply and sourcing diversification
- Intellectual property and technology expertise

Syrah's BAM strategy is to:

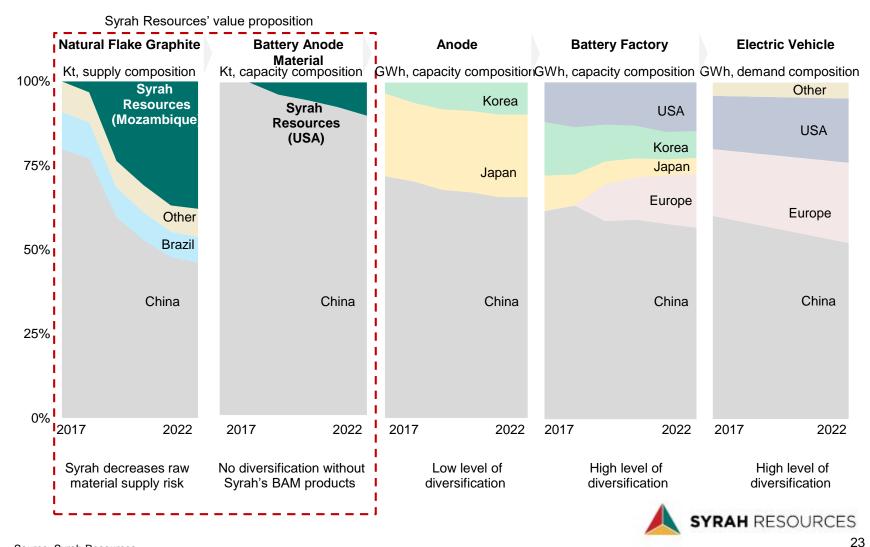
- Highlight quality through testing and benchmarking
- Capture value in use upstream
- Commence low risk BAM production in Louisiana
- Provide baseload supply security and diversification
- Leverage relationships to move down the value chain for market entry and value

Value

Potential EBITDA contribution



BAM production in USA provides global battery supply chain a strategic and valuable alternate source of anode material



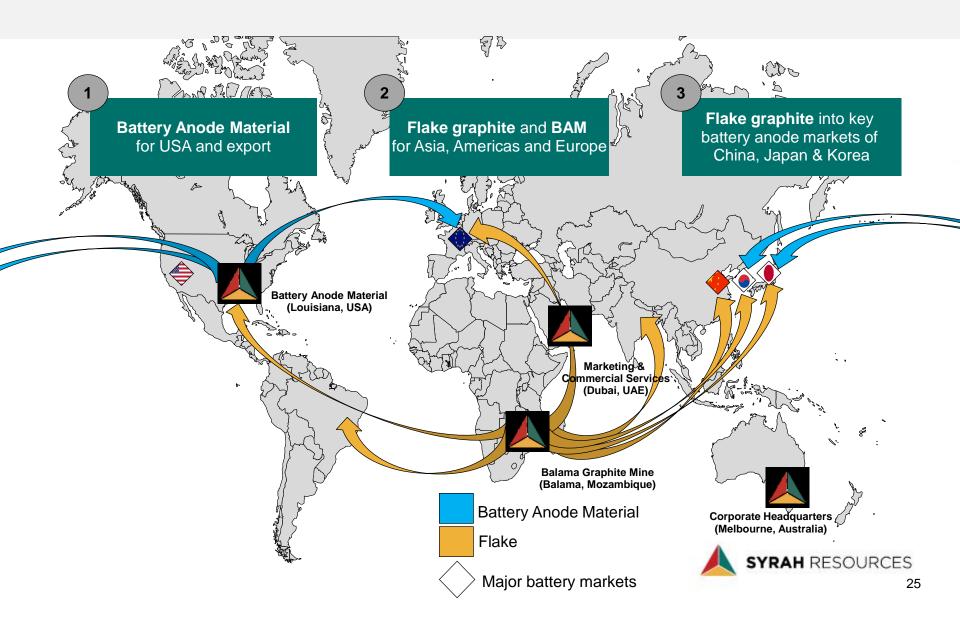
Source: Syrah Resources

Battery Anode Material (BAM) project summary

Feedstock	- High purity flake graphite concentrate from Balama (-100 mesh size material)			
Processing capacity and product mix	 Planned milling and purification capacity of 10kt per annum⁽¹⁾ Optionality to produce variety of saleable material to diversify customer and sales base 			
Location	 Louisiana provides easily available access to primary processing consumables and low cost power Strategically located to service the fast growing United States lithium-ion battery industry, with sea freight access to export markets Plant commercial lease, detailed engineering design and construction planning activities well underway 			
Funding and Timing	 US\$40m will be used for construction of a BAM production facility in Louisiana and ongoing Syrah BAM product research testing and development Targeting production of BAM during Q2 2018, initial focus on BAM product qualification Targeting commercial scale production and sales of value added products during Q4 2018 			
Research and development	 Testing and benchmarking the electrochemical properties of battery anode materials using Balama material is continuing Benchmarking will inform the evolution of Syrah's BAM product roadmap, the first generation expected to be completed in Q1 2018 Spend during the quarter was for resourcing and capital for graphite anode and battery cell testing 			
Sales and marketing agreements	 Sales and marketing agreements announced with Marubeni and Morgan Hairong Other negotiations are ongoing with potential battery market participants 			



Syrah will provide global baseload of supply of high quality flake graphite and BAM to all key battery producing markets



Summary

Syrah Resources

- Syrah will be the largest, one of the lowest cost and highest quality producers of natural flake graphite with up to 350ktpa capacity
- Scheduled to deliver first saleable product this month
- Production ramp up profile driven by value, not volume, demand and sales commitments to drive production
- Syrah remains the only major new supplier of flake graphite to world's battery market

Graphite Market

- Electric vehicles with larger batteries and more natural graphite in the anode are the major drivers of ~250kt of incremental demand; long term, energy storage batteries another large source of demand
- China has experienced a rapid market growth, from 100,000 EV/PHEVs on the road in 2014 to 650,000 two years later; global electric vehicle market is expected to grow by 40 - 50% this year
- Natural graphite prices have responded to market fundamentals, +20-30% in the last 12 months

JORC Mineral Resources and Ore Reserves

Balama Graphite (JORC Code 2012) – as at 15 November 2016

Mineral Resources

Classification	Mt	TGC (%)	Contained Graphite (Mt)
Balama West			
Measured	75.0	11.0	8.4
Indicated	110.0	8.1	9.1
Inferred	460.0	11.0	51.0
Balama East			
Indicated	76.0	14.0	11.0
Inferred	470.0	10.0	49.0
Total			
Measured	75.0	11.0	8.4
Indicated	186.0	11.0	20.1
Inferred	930.0	11.0	100.0

Ore Reserves

Classification	Mt	TGC (%)	Contained Graphite (Mt)
Balama West			
Proven	20.0	19.2	3.8
Probable	35.7	17.5	6.2
Balama East			
Proven	_	_	_
Probable	58.8	15.1	8.9
Balama West & East			
Proven	20.0	19.2	3.8
Probable	94.5	16.0	15.1
Total	114.5	16.6	18.9

Competent person statement - Balama Graphite

The information in this report that relates to Mineral Resources and Ore Reserves is extracted from the reports titled "Syrah finalises Balama Graphite study and declares maiden ore reserve" released to the ASX on 29 May 2015 and "Syrah increases Balama Ore Reserves and awards Laboratory Contract" released to the ASX on 15 November 2016 and available to view at www.syrahresources.com.au and for which Competent Person's consents were obtained. The Competent Person's consents remain in place for subsequent releases by the Company of the same information in the same form and context, until the consent is withdrawn or replaced by a subsequent report and accompanying consent.

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original ASX announcements released on 29 May 2015 and 15 November 2016, and in the case of estimates of Mineral Resources and Ore Reserves, that all material assumptions and technical parameters underpinning the estimates in the original ASX announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original ASX announcement.

Full details are contained in the ASX releases dated 29 May 2015 "Syrah finalises Balama Graphite study and declares maiden ore reserve" and "Syrah increases Balama Ore Reserves and awards Laboratory Contract" released to the ASX on 15 November 2016, available at www.syrahresources.com.au

