

Bernstein Annual Strategic Decision Conference

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Syrah is leveraging the globally significant Balama asset to develop an integrated battery anode material and industrial products business

- Global mega trend, the decarbonisation of economic growth continues
 - Decarbonisation of the transport sector, via Lithium-ion battery powered electric vehicles (EV), is gaining momentum
- Demand for natural graphite is in a growth phase to support the manufacturing of Lithium-ion batteries
 - Market transition toward greater value for fine flake graphite expected
- Syrah is now operating the largest natural graphite mine in the world
 - Syrah established position as the key exporter of natural graphite globally, and first major exporter to China in <2 years
- The natural graphite market is in a phase of disruption as Syrah ramps up production
 - Structural market adjustment occurring: China now a net importer, through major demand growth for Syrah material
- Production of spherical and anode product outside of China is strategically important
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Development of the Lithium-Ion Battery, Electric Vehicle and Graphite Markets



Policy restriction on internal combustion engine (ICE) vehicles is driving a transition to Electric Vehicles (EV) – China and Europe leading the charge

	2020	2025	2030	2035	2040
2018	2020	2025	2030		2040
Europe already has >130 low emission zones and >70 access	China targets 2 million EV sales by 2020	Athens, Madrid, Mexico City and Rome redirect diesel access	Fossil Fuel Free Street D Twelve cities ¹ with >32 m people commit to no ICE their streets	illion	France, Italy and UK plan to target 100% zero emission vehicle sales
regulation zones		EU tightens EV target to 20% of total sales by 2025 Norway bans sales of gasoline and diesel cars	Denmark, Germany, Irela Netherlands and Slovenia implement or consider 10 emission vehicle sales ta 2030	a plan to 00% zero	Sri Lanka aiming for 100% zero emission vehicle fleet
			India considering 30% tar	rget	

Positive outlook for increased deployment of electric vehicles

- Leading countries in electric mobility use a variety of measures such as fuel economy standards and incentives to change consumer behaviour
- Policy support is being extended to address the strategic importance of the battery technology value chain
- Private sector response to public policy signals confirms the escalating momentum for electrification of transport
- Lithium-ion battery manufacturing undergoing major investments to expand production



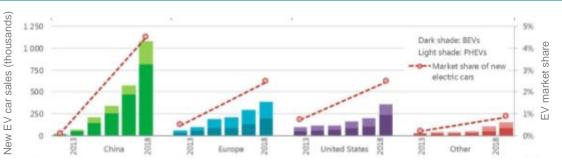
Private sector response to public policy signals, confirms positive momentum for electrification of transport; aggressive automotive targets

Region	OEM	Electric Vehicle Strategy / Targets
	BYD Auto	500k units in 2020, from 248k in 2018
	BAIC Group	500k units in 2020, no ICE engines by 2025
	SAIC Motor	600k sales by 2020
China	JAC Motors	30% of fleet by 2025
5	Zotye Auto	60% of fleet by 2020
	Chery	200k unit sales in 2020
	Changan Automobile	300k unit sales by 2020, no ICE models by 2025
	Geely	600k unit sales by 2020
	BMW	15-25% of fleet by 2025
	Daimler	25% of fleet by 2025, including new USA EV production
Europe	Volkswagen	2-3 million globally by 2025, including JV with Ford for EVs in USA
П	Jaguar	50% of fleet sales by 2020
	Peugeot	80% of models to be electrified by 2023
	Fiat Chrysler Automobiles	EV models across all brands, no diesel by 2022
	Tesla	1 million units p.a. by 2020, from 245k in 2018
USA	General Motors	150k unit sales in China by 2020, 500k by 2025
Ď	Ford	70% of China sales by 2025, including a JV with VW for electrified vehicles
Japan	Nissan	25% of EU sales by 2020
	Toyota	10 new BEVs in early 2020s
	Honda	65% of fleet sales by 2030
Korea	Hyundai	300k unit sales by 2020

Annual passenger EV sales forecast by region million cars per year 70 ■ Rest of World 60 Australia ■ Korea 50 India 40 Japan 30 20 Europe 10 China 2030 2035

Source: Bloomberg New Energy Finance Long-Term Electric Vehicle Outlook 2018





Source: International Energy Agency May 2019



Lithium-ion battery manufacturing capacity expansion is being driven by major investment in Asia, Europe and the USA

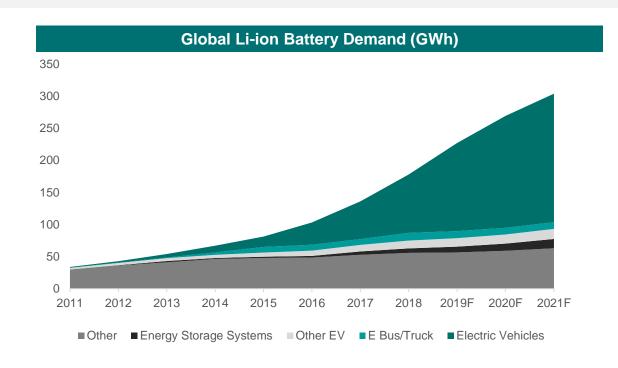
Origin	OEM	Transport Sector Battery	Major Customers			
	CATL	16GWh produced in 2018, 50GWh planned by 2020	BAIC Group Geely			
	BYD Auto	9GWh produced in 2018, 16GWh planned by 2020	BYD Auto			
	Gotion	6GWh current capacity, 2.5GWh planned by 2020	BAIC Group JAC Motors			
	Lishen Battery	2GWh produced in 2018, 20GWh planned by 2020	Hyundai			
	Boston Power	4GWh current capacity, 4GWh to be added in 2019				
	A123 Systems	1GWh current capacity	Chery			
a	OptimumNano	12GWh current capacity, targeting 20GWh by 2020				
China	China Aviation Lithium Battery	~1GWh produced in 2018, targeting 15GWh by 2020				
	BAK Battery	~1.5GWh produced in 2018, targeting 15GWh by 2020	Zotye Auto			
	Microvast	11GWh under construction, capacity to reach 15GWh by 2020	Fiat Chrysler Automobiles			
	Farasis Energy	2.5GWh capacity in 2018, 10GWh planned by 2020	BAIC Group			
	Automotive Energy Supply Corporation	8GWh capacity in 2018	Nissan			
	Samsung	3GWh produced in 2018, 20GWh planned by 2020	BMW Volkswagen			
Korea	LG Chem	7GWh capacity in 2018, 100GWh planned by 2020	Ford General Motors Fiat Chrysler Automobiles			
	SK Innovation	Targeting 10GWh by 2020, including a new plant in USA	Daimler			
Japan	Panasonic	20GWh produced in 2018, 50GWh capacity planned by 2020	Tesla Toyota Ford Honda			

Forecast global production capacity for existing and committed projects to 2023

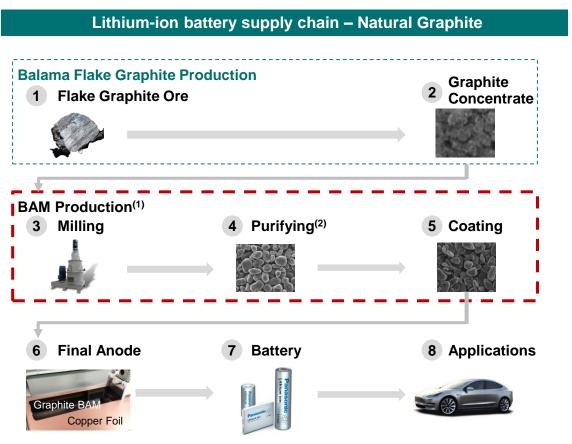




Li-ion battery market growth provides a highly attractive outlook for natural graphite, even at conservative EV penetration levels



- Auto industry expected to account for majority of Li-ion battery demand
- Battery EV driving growth with CAGR >30% 2019 2030
- Increasing share of commercial vehicle demand expected into 2030



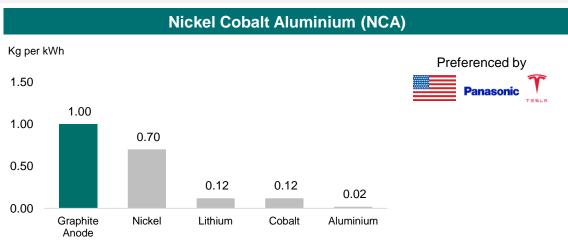
Source: ITRI/ISTI (2019/04)

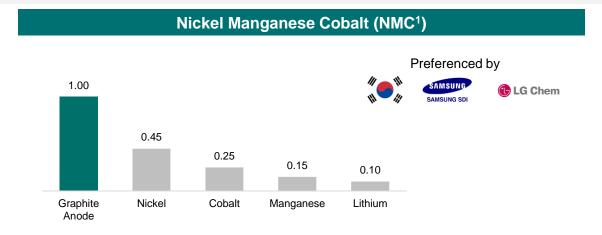


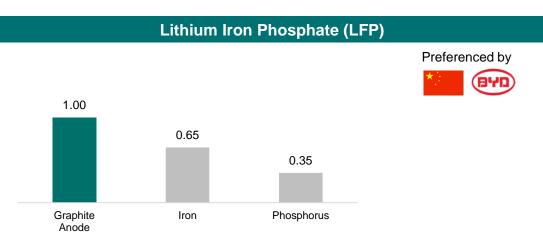
⁽¹⁾ Syrah's Battery Anode Material (BAM) plant in Louisiana will initially have 5kt per annum of milling capacity and batch scale purification capability

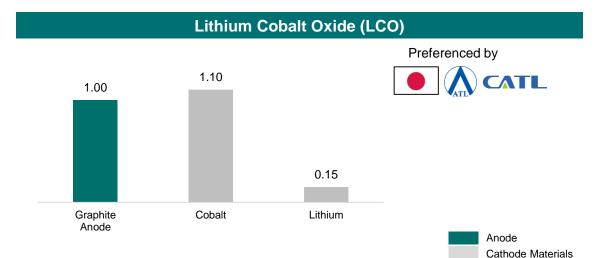
⁽²⁾ Purifying can be achieved chemically or thermally. Plan is for Syrah Battery Anode Material plant to be capable of chemical purification

Graphite anode composition and mass in a Lithium-ion battery is consistent and largely agnostic of cathode chemistry









Source: Syrah Resources
Each kg of natural graphite anode material requires ~>2kg of natural flake graphite
(1) NMC 523 Chemistry

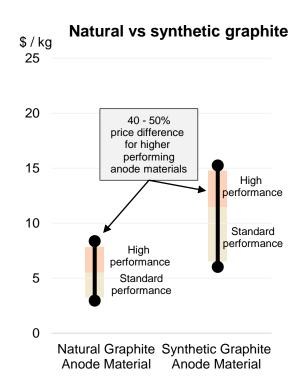


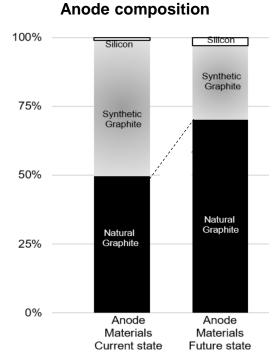
A consistent, high quality natural graphite source can contribute to Lithium-ion battery cost reduction and improved performance

Car OEM Targets - battery performance, cost and safety

Customer Value: - Driving range - Cost Competitiveness indicators Energy Density Energy Cost

- Energy/power balance, mass-market push to drive down cost, and demands
 - Higher capacity
 - Lower input costs
- Natural graphite remains lower cost than synthetic graphite
- Natural graphite has a favourable energy density whilst synthetic graphite provides cycle life advantages
- <5% silicon (Si) and carbon graphite anode with Si subject to ratio and volume control

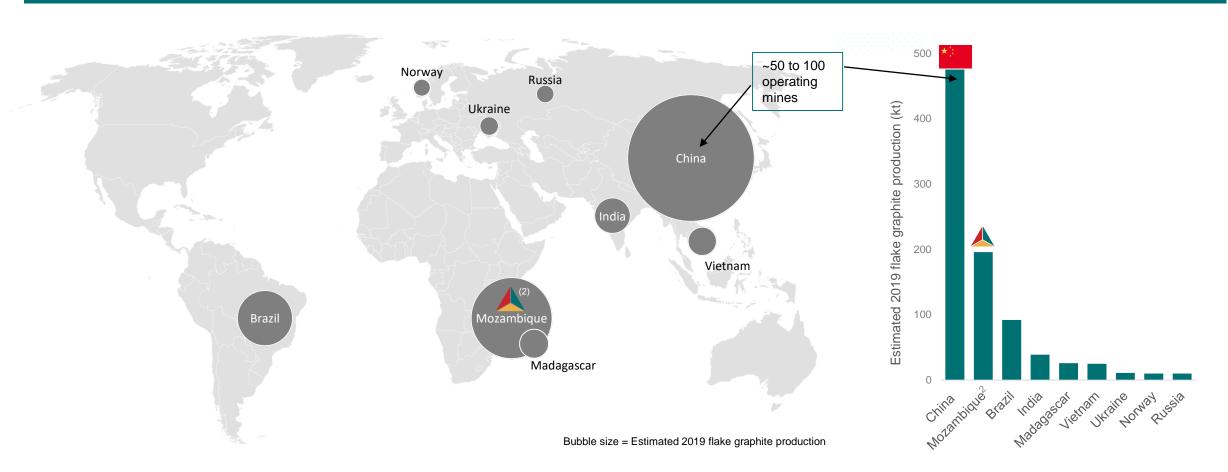






Syrah's Balama operation is now the largest integrated global producer of natural graphite, providing strategic and complementary ex-China supply

Estimated 2019 global natural flake graphite production (kt)¹

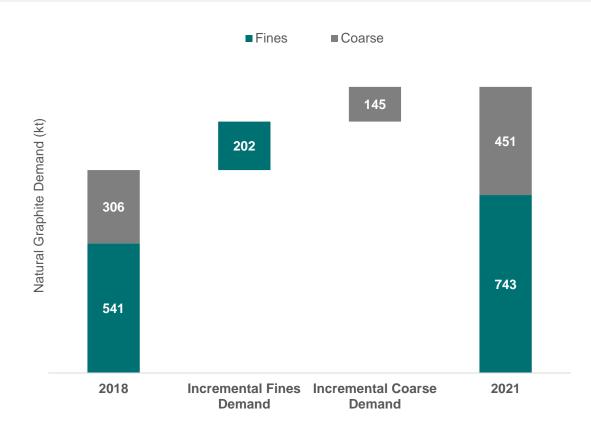


⁽¹⁾ Source (bubble chart and bar chart): Benchmark Mineral Intelligence, June 2019



⁽²⁾ Benchmark Minerals Intelligence forecasts that Balama Graphite Operation will account for 98% of Mozambique production

Natural graphite demand growth is driven primarily by increasing battery anode material demand



Fine Flake Graphite

- Fines market growth driven by demand from anode producers to support the increased capacity of Lithium-ion factories and the objective to lower overall product costs
- Fine flake (-100 mesh size fraction) material remains the major natural graphite material used in anodes
- Balama produces majority fines with average fixed carbon grade of 95%

Coarse Flake Graphite

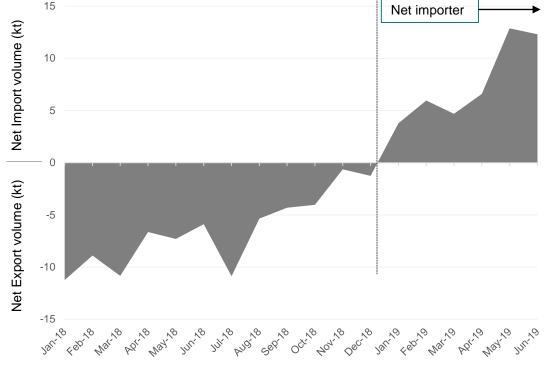
- Coarse flake demand growth driven by expandable / foils / insulation,
- Growth in demand from a lower base



China commenced natural graphite import in 2018, and has rapidly progressed to a net importer – a fundamental market shift

China graphite import growth mainly from Syrah China natural graphite imports vs exports gross volumes (kt) **Gross Chinese Imports 105kt** Imports from Syrah 79kt (75% volume) 25 **Gross Chinese Exports 59kt** 20 15 10 ■ Imports from other regions ■ Imports from Syrah's Balama Operation ■ China gross exports

China transitioned to net graphite importer in January 2019 China net graphite (exports)/imports (kt) Net importer









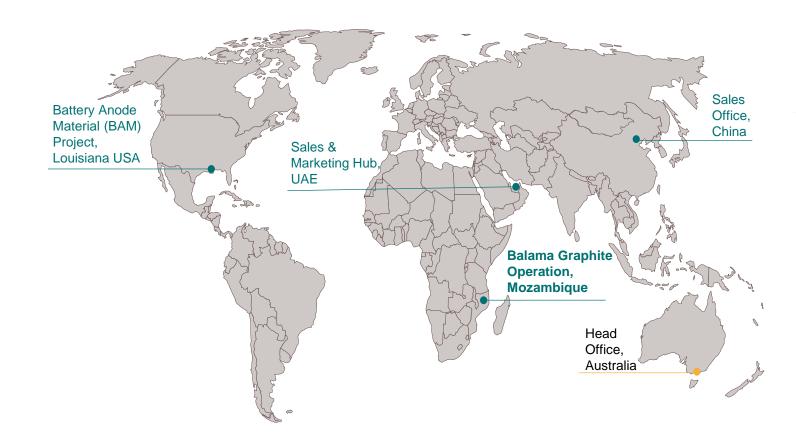
Company Overview



Company Overview (ASX:SYR) The world's first major graphite development in a generation

Highlights

- Exposure to high growth Lithium-ion battery market
 - Graphite is key material in battery anodes
 - High quality product, with product range weighted toward Lithium-ion battery market
- Developed, owns and operates the Balama Graphite Operation
 - Life of mine ~ 50 years
 - Produced >100kt in first year of operations (CY2018) to become world's largest producer
 - Expected to produce >150kt in 2019
 - Major exporter to China's battery segment
 - Significant Vanadium Resource opportunity
- Battery Anode Material Project in USA
 - Strategic value in ex-China production
 - First integrated natural graphite BAM facility outside China
 - · Customer qualification commenced





Subject to evolving market and price dynamics, Syrah has a clear view of the opportunities presented through a 5 year strategic growth plan

Syrah's 5 year strategic plan targets significant shareholder value creation

Natural Graphite

- Critical material for vehicle electrification, energy storage and emissions reduction
- Battery industry growth leading to ~35% forecast increase in natural graphite demand next 3 years
- Battery anode cost natural versus synthetic
- Trade and strategic sourcing sustainability and diversification

Target State

Balama Graphite Operation

- Stable operations growing to full capacity ~350ktpa
- Attractive margins, and cash flow generation at higher volumes

BAM Project

- Development and operations of a commercial scale production facility
- Funding options through customer commitment and/ or strategic partnership

Expansion

- Balama graphite and Vanadium expansion scoping studies
- Alternative power source review

Diversification

- Battery material & supply chain opportunities leveraging the premier anode material asset in the industry
- Specialty carbon in advanced materials development
- Growth optionality the only strategic operating asset in the sector, first mover advantage

- Vanadium Project
 - Development and operation of a high grade Vanadium Pentoxide production facility
 - Funding options through offtakes and/ or partnerships



Balama Graphite Operation – a Tier 1 producing asset: The world's largest integrated natural graphite mine and processing plant

Balama Graphite Operation				
Location	Cabo Delgado Province, Mozambique			
Life of Mine ¹	~50 years			
Mining	Simple open pit mining, low strip ratio			
Processing	Conventional – includes crushing, grinding, flotation, filtration, drying, screening and bagging			
Plant capacity ²	2Mtpa ore throughput, ~350ktpa graphite concentrate			
Product	94% to 98% fixed carbon graphite concentrate			
C1 cost ³	Forecast ~ US\$330/t as plant optimised and at full capacity			

Milestones			
Dec 2018	Balama produced >100kt in 2018, becoming the largest producer globally		
Sep 2018	Mining Agreement finalised with Government of Mozambique		
Jan 2018	Balama transitioned to operations, global sales commenced		
Nov 2017	First production of natural graphite		
Jul 2016	Balama process plant construction commenced		
May 2015	Feasibility study completed		

⁽²⁾ Ramp up to full capacity subject to market demand

Graphite Mineral Resources and Ore Reserves ⁴				
Classification	Tonnes (Mt)	TGC⁵ (%)	Graphite (Mt)	
Total Resources	1,423	10	146.7	
- Measured	24.3	17.6	4.3	
- Indicated	379	11.2	42.4	
- Inferred	1,020	9.8	100.0	
Total Reserves	113.29	16.36	18.5	
- Proved	5.39	17.20	0.9	
- Probable	107.9	16.32	17.6	



Balama process plant



⁽³⁾ Cash operating cost Free on Board (FOB) Nacala, excluding government royalties and taxes

⁽⁴⁾ Refer to ASX announcement 29 March 2019

⁽⁵⁾ TGC = Total Graphitic Carbon

Syrah is committed to sustainable operations – focussing on enduring safety, health, environmental and community outcomes

Health & Safety

- Strong safety record, TRIFR 0.3 as at 30 June 2019
- ISO:45001 Occupational Health and Safety Management Systems certification
- Malaria screening program



Employee health screening

People

Balama employees as at 30 June 2019

- 96% Mozambican nationals
- 55% from local host communities
- 20% female



Balama operations employees

Environment

- ISO:14001 Environmental Management Systems certification
- Environmental Monitoring compliance with over 200 licence conditions
- Tailing Storage Facility
 Governance Framework
 implemented in line with industry
 leading practice



Chipembe Dam restoration

Community and Government

- Balama Professional Training Centre (BPTC) operational
- Mining Agreement finalised with Government of Mozambique (Sept 2018)¹
- Ongoing community initiatives such as clean water programs

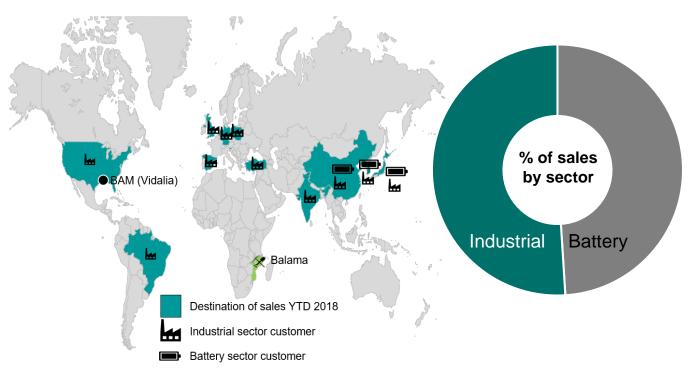


BPTC inaugural student intake April 2019

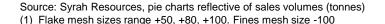


Syrah's diversification of customers across country, market sector and contract type provides regular and global price discovery

Sectorial and Geographical Sales Diversification



Country	Contract Type	Pricing Mechanism	Products ¹
*)	Term, Spot and Repeat Spot	Spot, quarterly and annual	Fines and Flake
*	Repeat Spot	Spot	Fines and Flake
	Term and Repeat Spot	Spot	Fines and Flake
****	Term and Repeat Spot	Fixed and Spot	Fines and Flake
	Term and Repeat Spot	Fixed and Spot	Fines and Flake
	Repeat Spot	Spot	Fines and Flake
# # # # # # # # # # # # # # # # # # #	Term	Spot	Fines
C*	Repeat Spot	Spot	Flake



Natural Graphite Market – a disaggregated market in the midst of global supply/demand balance and pricing integration, seeing major disruption

Natural Graphite	China	Ex-China	Current global natural graphite market	Demand Growth
Fines (-100 mesh)	Marginal pricing influenced by China domestic balance	Pricing reflects incentive for China to export	~600kt Balanced to surplus	High off large base
Coarse (+50, +80, +100 mesh)	In line with international markets	International market prices	~150kt Balanced to surplus	Low to medium off small base

Differentiated pricing while China market in fines surplus

China Price International Price

Inland Transport to point of consumption

VAT Adjustment

China FOB Export Marginal Price CIF Delivery Regional Market Balance / Segment Premium

International parity pricing as market balance shifts to deficit

Single marginal price

Inland Transport to alternate source parity

VAT Adjustment

China Landed CIF Price CIF Delivery Regional Market Balance / Segment Premium

China fines pricing

- Ex-China market pricing determined by incentive price for export from China
- China is currently net exporter of natural graphite fines therefore initial imports must compete with domestic prices adjusted for VAT and inland logistic costs
- China fines pricing expected to reflect rebalancing of domestic market to net importer over next two years
- Syrah has established significant Chinese market position in preparation for that shift
- Even before the shift a pricing premium is expected as Syrah continues to demonstrate quality, performance and reliability value in use differentials
- As balance shifts, inducement of additional high quality volume into China ports drives pricing
- International pricing parity switches VAT and inland logistics absorption from seller to buyer



Operational Summary and Update – Syrah faces a significant pricing and volume challenge in the short term, but is taking clear action



Operational Update¹

- Sudden and material decrease in spot prices in China
 - Depreciation of CNY and Chinese inventory level concerns
 - Potential for further weakening of prices into Q4 2019
- In response to current market conditions, Syrah will
 - Orderly reduction of production volume to end Q3 2019 to ~ 45kt total
 - Significantly reduce production in Q4 2019 to ~5kt per month
 - Undertake an immediate cost reduction review
 - Deliver a strategic and operational review for 2020²
- Cash and available liquidity provides opportunity to adjust near term production
 - Cash forecast as at 30 Sept 2019 ~ US\$60 million
 - Additional liquidity available taking balance to ~US\$100 million
 - No debt



⁽¹⁾ Refer to ASX announcement 10 September 2019

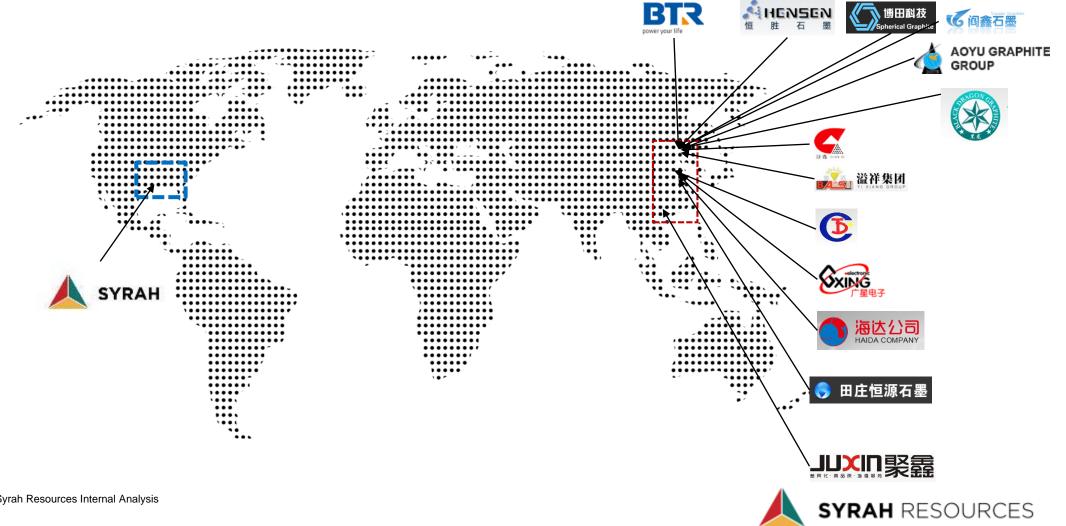
⁽²⁾ Update to be released on 22 October 2019



Battery Anode Material (BAM) Strategy

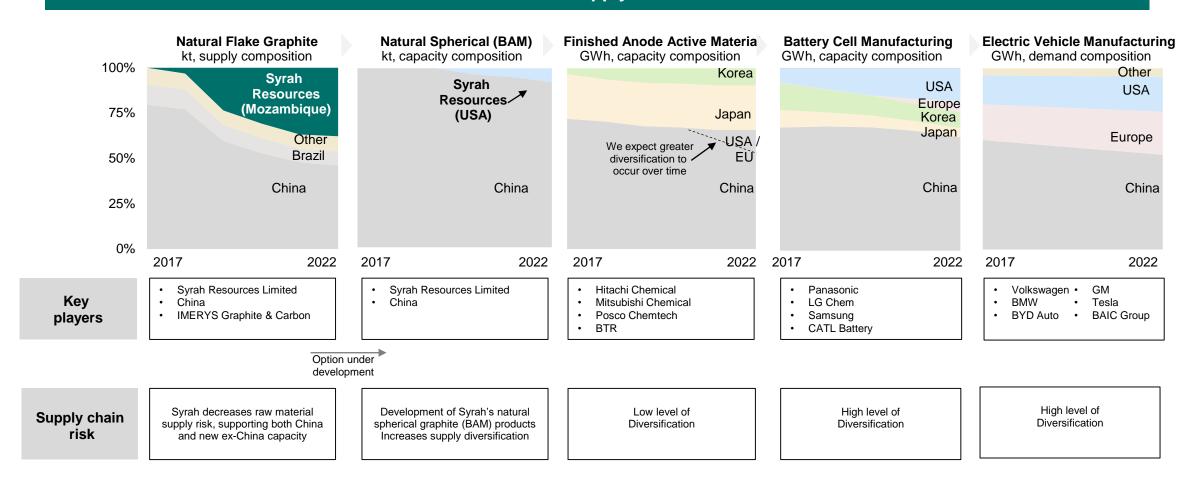


Until recently, uncoated and purified natural spherical graphite supply was entirely Chinese - Syrah could provide an alternative source of supply



BAM production from Syrah could provide a strategic alternate source of anode material to the ex-China Lithium-ion battery industry

Anode Supply Chain



Syrah's Vidalia (USA) Battery Anode Material plant is key for market progression, qualification, product and strategic partnership development

Syrah precursor¹ testing and benchmarking completed

Vidalia BAM site purchase agreement

Vidalia BAM site purchase completed

Phase 1 Commercial scale study completed

First production of unpurified spherical graphite using Balama feed

Customer qualification unpurified product dispatch

Commissioning of purification circuit
Purified spherical graphite dispatch to follow

Mar 2018

May 2018

Aug 2018

Sep 2018

Dec 2018

Q1 2019

Q3 2019

5ktpa milling equipment installation

Commercial scale plant major review completed, providing attractive economics

Batch purification equipment installation



Vidalia milling equipment



Intermediate storage bins, product bagging line, leach tank and filter press



Milled unpurified spherical graphite for customer qualification



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