

Q3 2021 Quarterly Activities Report

28 October 2021 Shaun Verner – Managing Director & CEO





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Syrah's Value Proposition

Electric Vehicles require graphite

- Electric Vehicle ("EV") adoption is gaining momentum
- Anodes in lithium-ion batteries used in EVs are made of graphite

Graphite is a strategic critical mineral

- Global anode supply chain is currently 100% reliant on China
- Graphite is designated as a strategic critical mineral in USA, EU, Japan & Australia

Balama Graphite Operation: A Tier 1 asset

- Long life (>50 years¹) and high grade (16% TGC²)
- Largest integrated natural graphite mine and processing operation globally
- Significant vanadium resource at Balama is a valuable option³

Vertical Integration in USA

- Balama to be vertically integrated with AAM⁴ facility at Vidalia, USA
- Large scale ex-Asia AAM supply option that is ESG verifiable

Life of mine based on current 108Mt Graphite Ore Reserves being depleted at 2Mt throughput per annum. Refer to 2020 Annual Report released to ASX 29 March 2021 for Reserve as at 31 December 2020. All material assumptions underpinning the Reserves and Resource statement in this announcement continue to apply, other than as updated in subsequent ASX releases. TGC = Total Graphitic Carbon.

Scoping study on potential to refine vanadium as per ASX release 30 July 2014. AAM = Active Anode Material. Syrah's vision is to be the world's leading supplier of superior quality graphite and anode material products, working closely with customers and the supply chain to add value in battery and industrial markets



Syrah's positive ESG profile

	Leading health and safety standards	 ISO:45001 and ISO:14001 certification at Balama ISO:9001 certification at Vidalia Vidalia expansion project being developed in line with best practice health, safety and environmental standards Critical Risk Management Framework embedded across the Group
	Best practice sustainability frameworks	 Sustainability frameworks guided by: Global Reporting Initiative (GRI) United Nations Sustainable Development Goals International Council on Mining and Metals Robust Community Development and Stakeholder Engagement Strategy
	Low carbon footprint	 Lower carbon emissions footprint (life cycle) of natural versus synthetic graphite¹ Independent Life Cycle Analysis (LCA) nearing completion Implementing initiatives to lower carbon footprint further
و ۱۱۱۱ ۱۱۱۱	Auditable back to source	 Fully integrated by Syrah from mine to customer Vidalia products will have a single chain of custody back to the source

1. Benchmark Minerals Intelligence



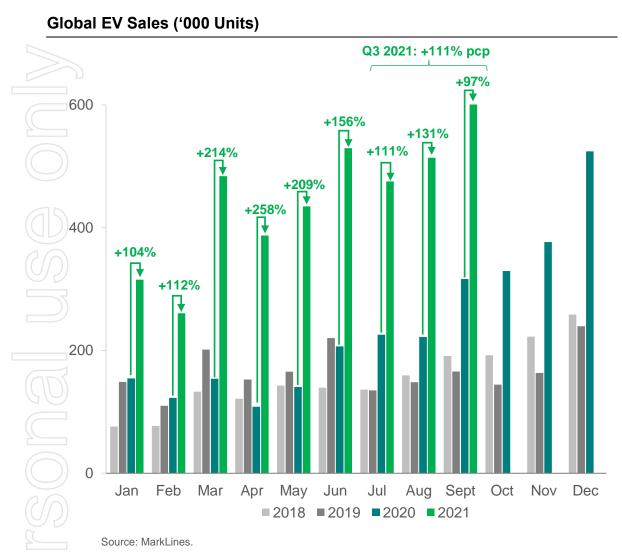
Q3 2021: Highlights

Health and Safety	 Balama and Vidalia quarter end Total Recordable Injury Frequency Rate ("TRIFR") was 0.0
	 Continued strong EV sales, with 111%¹ growth in Q3 2021, versus Q3 2020, to over 1.6 million units
Market	 Forecast global EV sales of 5.6 million units in 2021² versus 2.9 million units in 2020³ (96% growth YoY)
	 Pace of battery capacity commitments and vertical integration of the EV supply chain is accelerating in the USA
	 Balama delivered excellent monthly operational performance for September 2021 with 15kt natural graphite produced at 85% recovery and C1 cash costs (FOB Nacala) of US\$430/t
	September 2021 quarter production and sales constrained by global container shipping market disruption
	 25kt produced at 82% recovery
Balama Graphite Operation	 18kt sold and shipped, with 12kt delayed from September 2021 to December 2021 quarter due to a schedule change by a shipping service provider⁴
2	 C1 cash costs (FOB Nacala) of US\$684/t at ~8kt per month average production rate
2	 Increase in weighted average sales price to US\$490/t (CIF), and further price support evident post quarter end
7	• Strong growth in sales order book with more than 50kt of natural graphite sales orders in the December 2021 quarter
	Global container shipping market disruption expected to moderate through December 2021 and March 2022 quarters
	Commercial engagement advancing strongly with 7 target customers and qualification with more than 10 target customers
D)	Continued customer testing and iterative feedback on integrated natural graphite Active Anode Material ("AAM") from Vidalia
Vidalia AAM Facility	• Interest from target customers driving consideration of accelerated expansion of Vidalia beyond 10ktpa production capacity
	 Advancing to a final investment decision for Vidalia's 10ktpa AAM expansion in the December 2021 quarter, subject to customer and financing commitments
Corporate	Quarter end cash balance of US\$74 million
Source: MarkLines. Source: Ro Motion. Source: MarkLines. Source: MarkLines.	aar 2024

4. Refer ASX release 17 September 2021.



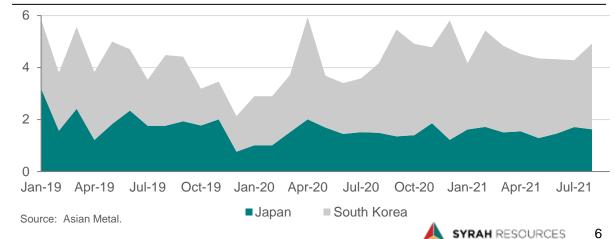
EV sales and anode material volumes continue to strengthen



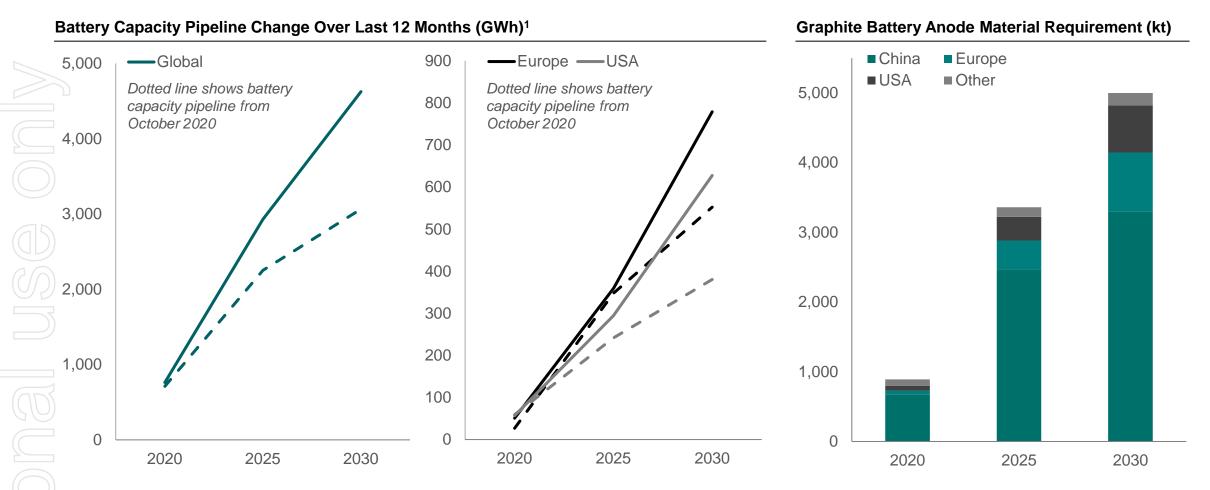
Chinese Anode Production (kt)



Chinese Purified Spherical Graphite Exports (kt)



Battery capacity pipeline is increasing rapidly across regions – substantial localised anode material supply is required

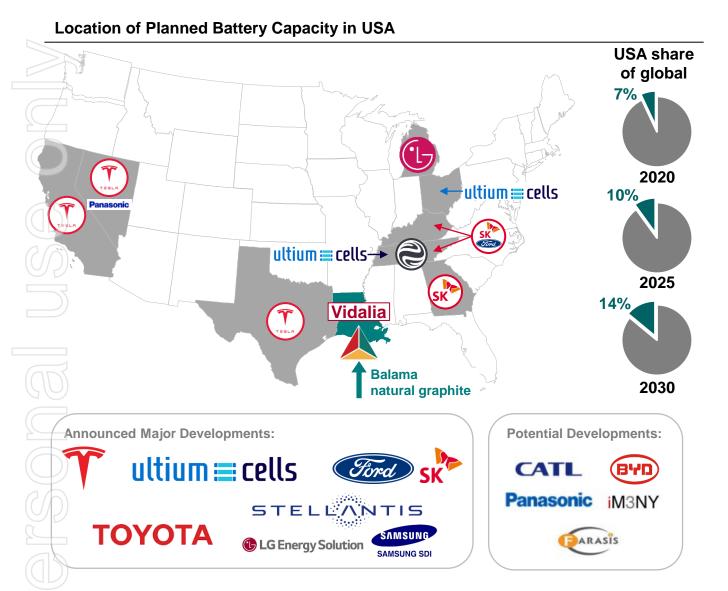


10kt AAM and 40kt AAM capacity at Vidalia equates to 3% and 12%, respectively, of graphite AAM required for USA-based battery capacity by 2025¹

Source: Benchmark Minerals Battery Megafactory Assessment, October 2021 and Flake Graphite Forecast, Q2 2021 1. Based on 2025 forecast USA battery manufacturing capacity of 295GWh, 95% graphite anode market share and 1.2kg/kWh intensity of graphite in anode.



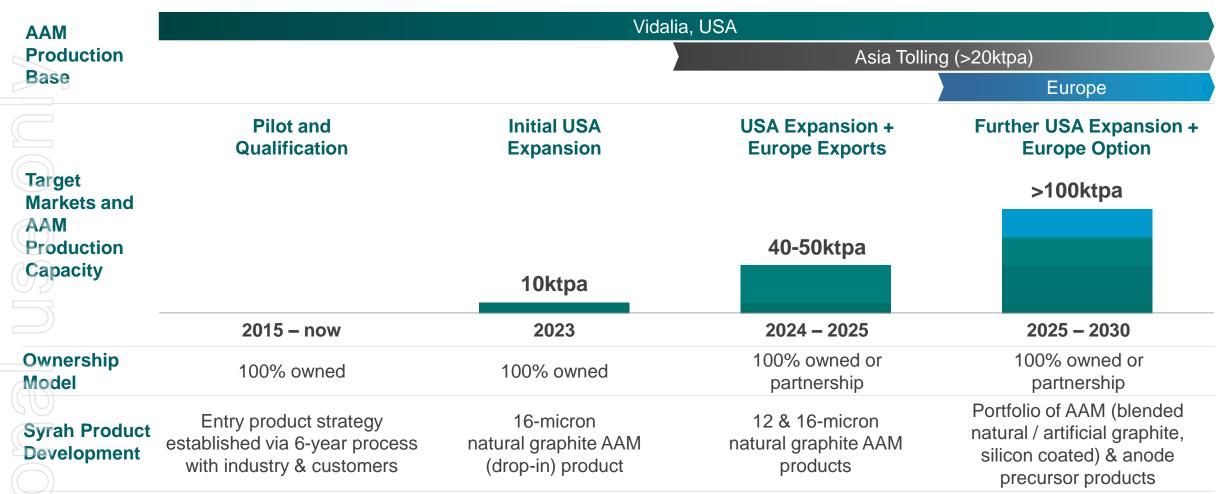
USA battery market is maturing rapidly to support a large-scale EV manufacturing base in the region



Planned Battery Capacity in USA (recent commitments highlighted)

Company	Size (GWh)	Location	Status / Start			
Stellantis / Samsung SDI	40	твс	Planning / 2025			
Stellantis / LGES	40	твс	Planning / 2024			
Toyota	твс	твс	Planning / 2025			
FREYR / Koch	50	50 TBC Planned / 2				
Ford / SKI (BlueOvalSK)	129	KY	Planning / 2025			
Ford / SKI (BlueOvalSK)	129	TN	Planning / 2025			
LG (Green Field Project)	75	MI / TBC	Planning / From 2025			
GM / LGES (Ultium Cells 1)	35	OH	Under construction / 2022			
GM / LGES (Ultium Cells 2)	35	TN	Planning / 2023			
SKI	~10 + ~12	GA	Under construction / 2022			
Tesla	95	ТХ	Under construction / 2022			
Panasonic (PENA)	49	NV	Construction / 2022 (35 GWh operating)			
Tesla	10	CA	Pilot / Operating			
LG	5	MI	Operating			
AESC Envision	10	TN	Planned / 2025 (3 GWh operating)			
iM3NY	5	NY	Planned / 2025 (1 GWh operating)			
Farasis	8-16	TBC	Planning / 2023-4			

Syrah aims to be a leading supplier of value-added anode products for the rapidly growing global battery supply chain



Syrah's downstream expansion strategy is underpinned by integration with a scalable mining/processing operation and world-class graphite resource at Balama

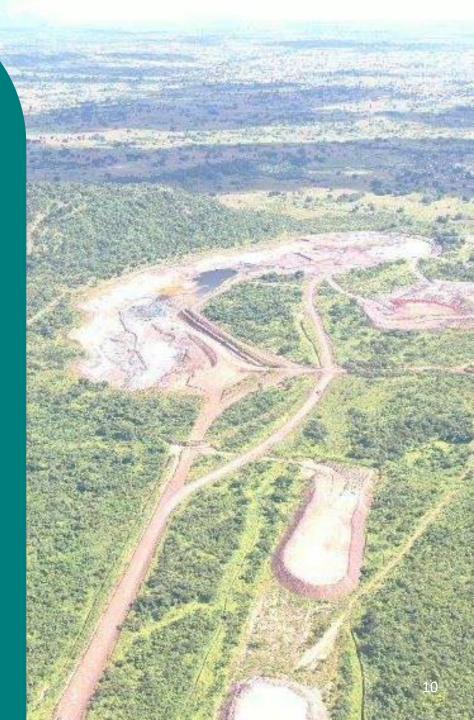
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Q3 2021: Balama Production and Operations

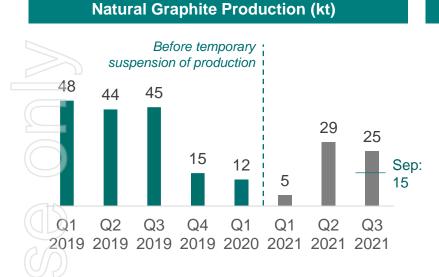
- Delivered excellent monthly operational performance for September 2021 15kt natural graphite produced, 85% recovery and US\$430/t C1 cash costs (FOB Nacala)
- Costs are expected to reduce further as production increases above 15kt per month and improvement initiatives continue to be embedded
- Production over the quarter was constrained due to disruption in the global container shipping market
 - Produced 25kt at 82% plant recovery for the quarter
 - C1 cash costs (FOB Nacala) of US\$684/t for the quarter
 - Product quality for the quarter was superior to the best performance reported during 2019, with better control over grade and recovery

More than 95% of planned labour contingent reinstated

Positive COVID-19 cases recorded during the quarter – all cases have fully recovered, no impact on Balama operations and vaccination program on-site and in the community underway



Q3 2021: Balama Production and Operations



Before temporary suspension of production 86% 88% 84% 91% 86% 80% 86% 80% Q2 Q3 Q1 Q3 Q4 Q1 Q1 Q2 2019 2019 2019 2019 2020 2021 2021 2021

C1 Costs (US\$/t)

839

Q1

Q1

684

Q3

2021

537

Q2

Product Mix (% Fines)

Plant Recovery





Q3 2021: Balama Sales and Marketing

- Sold and shipped 18kt natural graphite and practically all of 25kt finished product inventory contracted to customers

12kt of sales planned to ship from Nacala in late September 2021 was delayed to after quarter end due to a schedule change by a shipping services provider

- Strong demand and forward contracting with end-user customers more than 50kt of sales orders in the December 2021 quarter with additional spot sales demand expected
- Chinese anode production increased to approximately 60kt per month during the auarter

Chinese natural graphite restocking prior to winter production outage has been impacted by lower domestic supply and quality due to power cuts and reduced imports due to shipping disruption, providing strong price support

Disruption in the global container shipping market is expected to moderate through December 2021 and March 2022 quarters with additional vessel capacity and container equipment being added for East Africa



Weighted average sales price increased to US\$490/t (CIF) and further price support evident in coarse and fines markets post quarter end

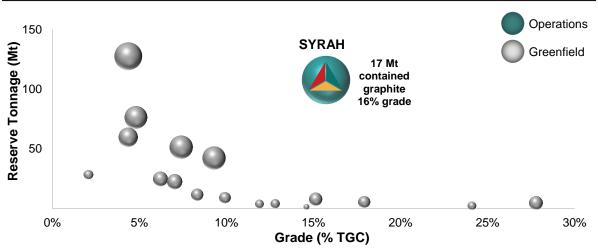
Focus continues to be increasing fines shipments to the Chinese battery supply chain with fines sales accounting for 86% of overall sales, driving basket price

Balama is the largest natural graphite mining/processing operation globally

Asset Overview

Location	Southern Cabo Delgado Province, Mozambique
Reserve & Resource ¹	108Mt (16% TGC) Graphite Ore Reserve 1,422Mt (10% TGC) Graphite Mineral Resource
Life of Mine ²	~50 years
Mining	Simple open pit mining, low strip ratio
Processing	Conventional – includes crushing, grinding, flotation, filtration, drying, screening and bagging
Plant Capacity	2Mtpa ore throughput yielding ~350ktpa; 274kt produced since 2018
Product	94% to 98% fixed carbon graphite concentrate
C1 Cost ³	Forecast ~US\$330/t at full capacity

Ex-China Natural Graphite Reserves⁴



Key Dates

N	lar 2021	Production recommenced at Balama
N	lar 2020	Temporary suspension of production at Balama
S	ер 2019	In response to drop in flake graphite prices, production moderated
N	lar 2019	Graphite Mineral Resources and Ore Reserves updated
J	an 2019	Commercial production declared, with quarterly production of 33kt
	ec 2018	Balama produced >100kt in 2018
S	ep 2018	Mining Agreement finalised with Government of Mozambique
J	an 2018	Balama transitions to operations, global sales commenced
N	ov 2017	First production of natural graphite
J	ul 2016	Balama process plant construction commenced
M	lay 2015	Feasibility study completed

Balama Graphite Operation



As at 31 December 2020.

Life of Mine based on Ore Reserves being depleted at 2Mt per annum of mill throughput.

Cash operating cost Free on Board (FOB) Nacala, excluding government royalties and taxes. ~50% of C1 costs are fixed at ~50% capacity utilisation.

Source: Company filings; Notes: Selected ASX/TSX-listed graphite projects with declared Reserves only and excludes Chinese producers. Bubble size reflects contained graphite reserves.



Q3 2021: Vidalia

Market

- US Government set a 50% EV share of all new vehicles sales in the USA from 2030, calibrated with key auto OEMs
- Pace of battery capacity commitments is accelerating with auto OEMs positioning to create large-scale EV supply chains in the USA

Customer Engagement and Product Qualification

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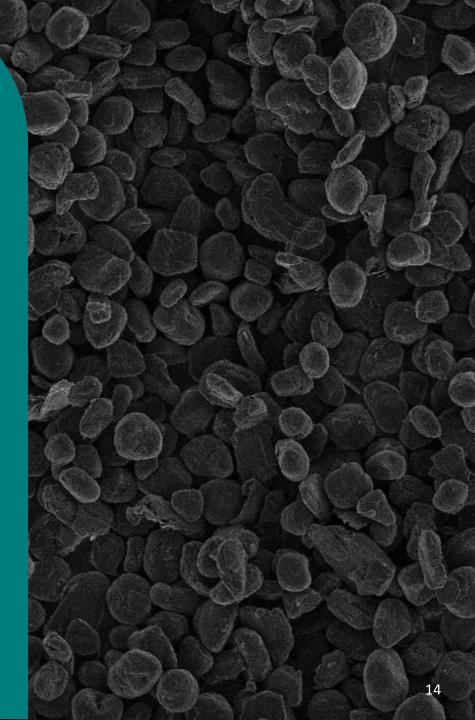
Commercial engagement advancing strongly with 7 target battery supply chain pariticpant and auto OEM customers

- Qualification and iterative testing programs on integrated natural graphite AAM are progressing in parallel with commercial engagement
- Full cell results have been positive across various characteristics, outperforming benchmarks

Product Development

- Base 16-micron AAM and premium 12-micron AAM
- Iteration from Vidalia operational capability through customer interaction
- R&D for future products that achieve quality/performance, cost and sustainability objectives





Q3 2021: Vidalia

Operations and Production

- Integrated spherical, purification and furnace operation is producing 16-micron and 12micron AAM for qualification using Balama natural graphite
- No damage or injuries at Vidalia from Hurricane Ida

Expansion Project

- Detailed engineering and procurement with Worley Group progressing well
- Completing an updated appraisal of capital costs for the 10ktpa AAM facility prior to final investment decision
- Target customer interest and USA market growth driving consideration of accelerated expansion of Vidalia beyond 10ktpa production capacity

Construction Funding

- Advancing processes to secure customer and government & commercial financing commitments for the construction of a 10ktpa AAM facility
 - Final investment decision planned for the December 2021 quarter, subject to customer and financing commitments



De-risking Vidalia expansion

	Date					
	02 2024	Commercial discussions for multi-year purchase commitments progressed				
		✓ Iterative customer testing advanced				
	Q3 2021	✓ Six months of detailed engineering completed				
		Full chain LCA completed and in final review				
	Jun 2021	Worley awarded detailed engineering and procurement services contract				
	Jun 2021	Transitioned to detailed engineering for 10ktpa AAM facility				
	Jun 2021	Integrated AAM dispatched to potential customers for qualification				
11	May 2021	First fully integrated production of AAM from Vidalia				
Y	Mar 2021	Transition to initial detailed design for 10ktpa AAM facility				
Л	Mar 2021	Installation and commissioning of furnace				
5	Dec 2020	BFS confirms robust economics for large scale AAM production				
_	Nov 2020	Dispatched AAM (toll treated) for product qualification by customers				
_	Oct 2020	First production of AAM (toll treated) using anode precursor from Vidalia				
П	Jul 2020	First production of purified spherical graphite to battery specification from Vidalia				
	Dec 2018	First production of unpurified spherical graphite at Vidalia				
	Sep 2018	Phase 1 study completed for large-scale AAM production at Vidalia				
	Aug 2018	Vidalia site purchase completed				
	Mar 2018	Benchmarking of AAM produced from Balama graphite completed				
	Nov 2016	Syrah announces plans to establish commercial scale facility in Louisiana				
	Apr 2016	Pilot test work program initiated in China (milling and purification)				



Progressing Vidalia to become an integrated natural graphite AAM producer

	2020		2021			Post FID		
	Q3 Q4	Q1 Q2	Q3	Q4	H1	H2	H3	H4
Product Qualification								
First purified spherical graphite (anode precursor) to full specification								
Dispatch of anode precursor to supply chain participants								
First commercial scale toll processed AAM								
Furnace installation at Vidalia								
First on-specification production of AAM from furnace at Vidalia								
Dispatch of AAM to potential customers for qualification ¹	- (Ongoing						
Pre-FID (10ktpa facility)								
Bankable Feasibility Study								
Front End Engineering and Design								
Detailed engineering ²								
Selection of preferred construction contractor and contracting model								
Construction management services contract awarded								
Development of strategic partnerships / project financing	Ongoing							
Development of customer commitments	Ongoing							
Final Investment Decision ("FID")								
Construction & Commissioning (10ktpa facility)								
Construction								
Commissioning / Ramp up								
Commercial Production								
Other								
Product development	Ongoing							

1. Evaluation by potential customers is an iterative process of product quality and performance assurance. Production of AAM samples will be ongoing post initial production volumes to support this process.

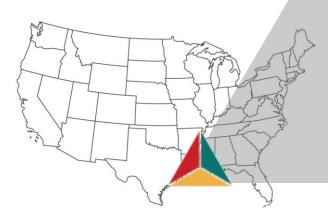
2. Project development pathway beyond detailed engineering to be informed by customer and financing commitments.



Vidalia is well located for large-scale AAM production



Proximity to potential customers Access to key utilities Options to expand facility size Direct barge/port access to Mississippi river Supportive government relations Access to key consumables (HF, HCL, Caustic) Capable workforce





Images clockwise from left: Overview of Syrah's Vidalia property and surrounds; Syrah's Vidalia facility Northeast looking southwest; Syrah's Vidalia facility south looking north



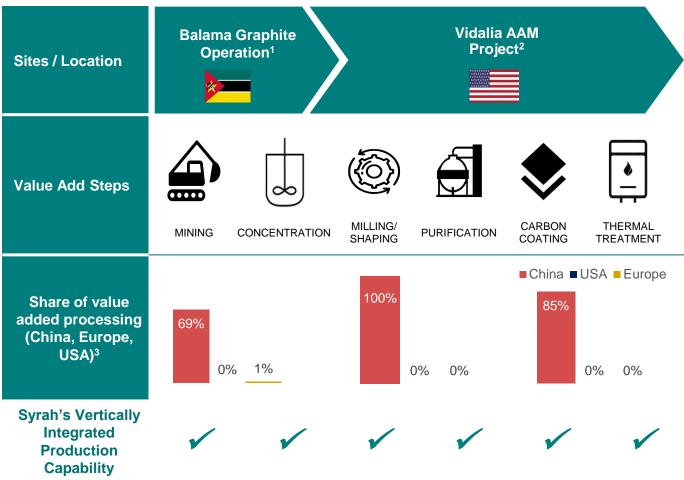
Vertical integration through to AAM in USA will be a key differentiator for Syrah as the market matures

Benefits of vertical integration to Syrah:

- Margin capture / cost protection
- Attractive financial returns
- Enhanced channel to market and customer diversity

Benefits of vertical integration to battery makers / auto OEMs:

- Security of supply
- Optimisation of supply chain management
- Single chain of custody / full ESG auditability



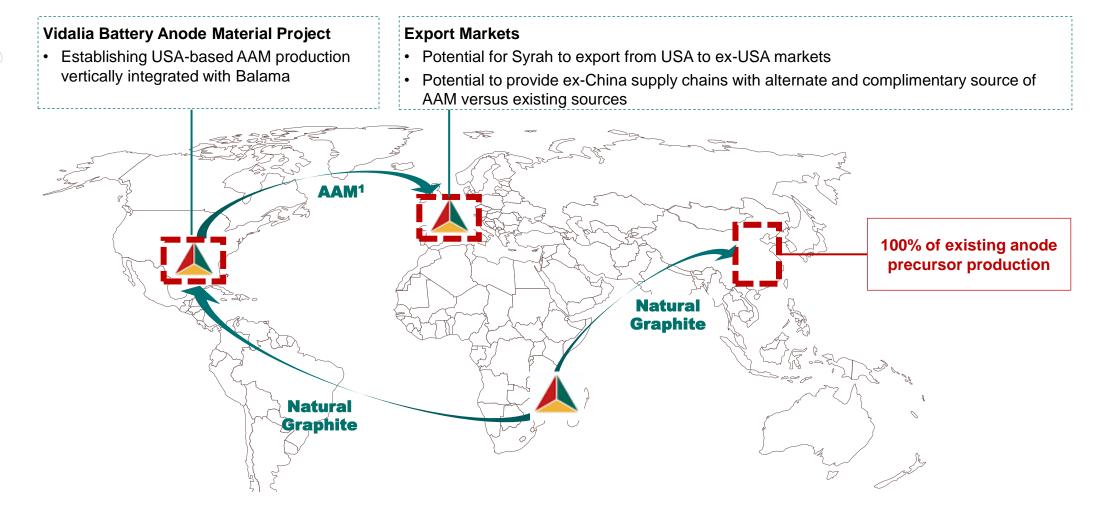
Balama has capacity to produce 350ktpa natural graphite. Syrah has the option to use 3rd party natural graphite concentrate for toll feed at Vidalia subject to feed being appropriately qualified.

With the installation of the furnace, Vidalia has capacity to produce AAM on-site for ongoing product qualification. Bankable Feasibility Study (ASX release dated 1 December 2020) assessed options to expand the AAM facility to 10ktpa and 40ktpa AAM production capability.

Syrah Resources analysis, data from Benchmark Minerals Intelligence.



Syrah is a near-term AAM supply option for USA and European markets



1. AAM: Active Anode Material.



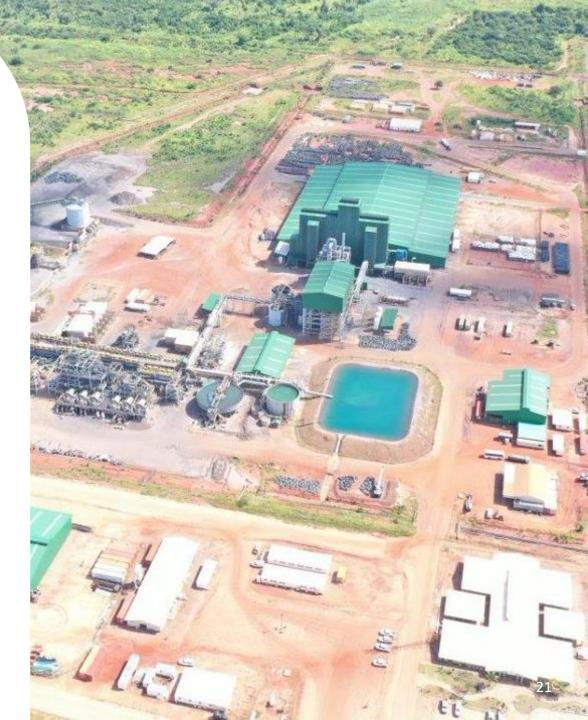
Q4 2021 outlook

EV sales growth and constructive demand environment for anode material has balanced the natural graphite market

Increasing Balama production beyond 15kt per month with consideration of market demand and forward customer contracting

Progressing to FID for expansion of production capacity to 10ktpa AAM at Vidalia to become a vertically integrated producer of natural graphite AAM to supply ex-Asia markets

Maintaining liquidity for Balama operations under various market scenarios and securing new funding to advance Vidalia beyond FID

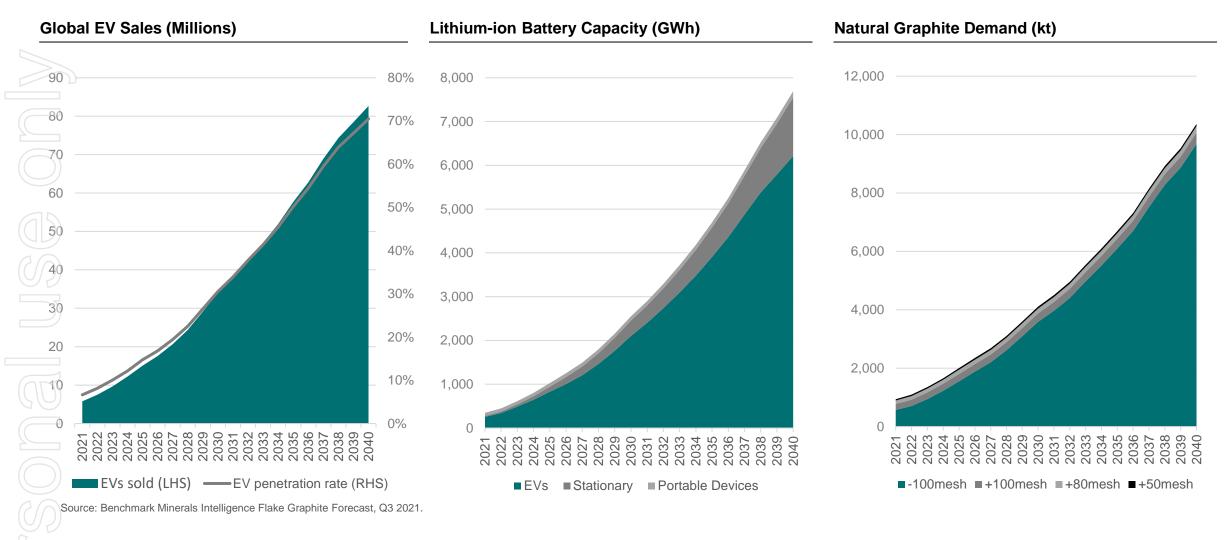






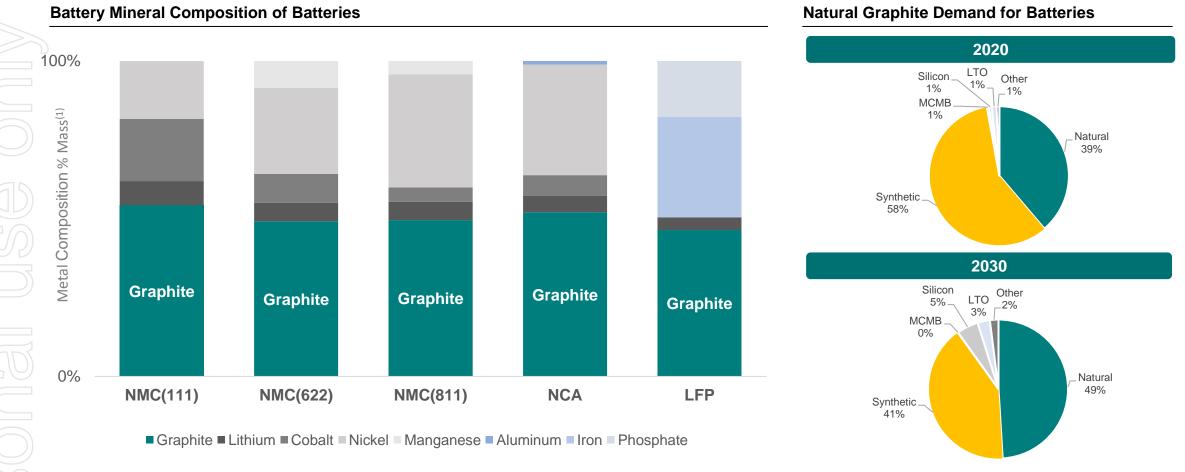


Battery and natural graphite fines (-100mesh) demand in early stages of growth – driven by EV adoption



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Graphite is a high intensity material in EV batteries – costs/emissions expected to drive shift towards natural graphite



Source: Syrah Resources analysis, data from Gaines, L., Richa, K., & Spangenberger, J. (2018) Key issues for Li-ion battery recycling (excludes oxygen), Benchmark Minerals Intelligence.

NMC: Lithium nickel manganese cobalt oxide battery.

NCA: Lithium nickel cobalt aluminium oxide battery.

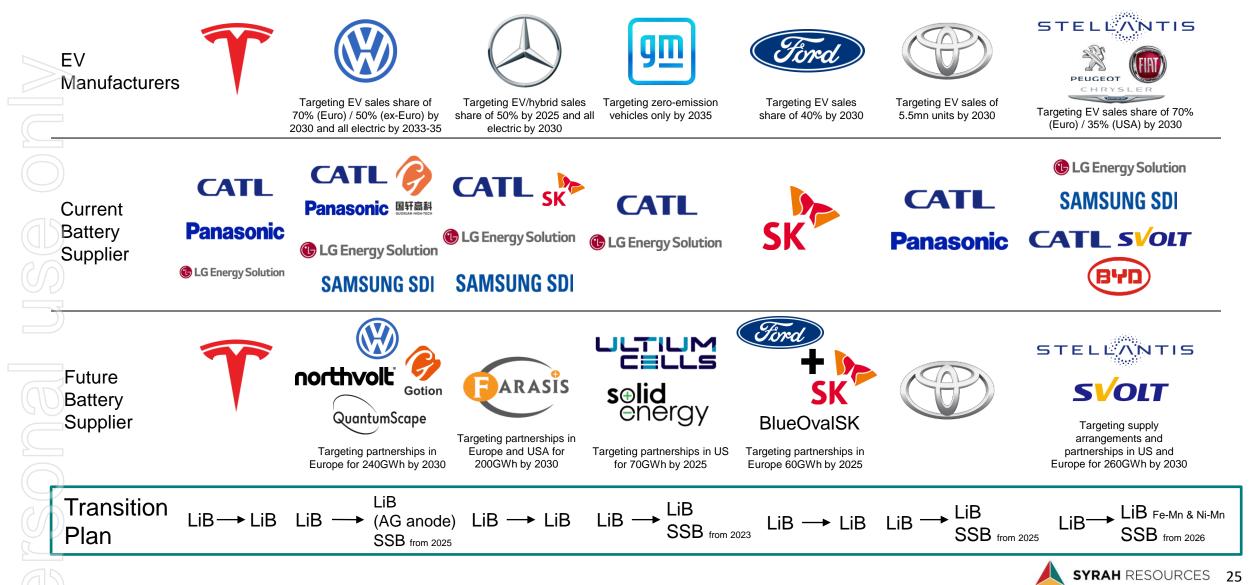
LFP: Lithium iron phosphate battery.

1. Shown as percent of the total sum by elemental mass featured in the analysis for each battery chemistry, excludes oxygen (cathode).

Source: Source: Benchmark Minerals Intelligence Flake Graphite Forecast, Q2 2021.



EV makers committed to LiB technology for expansion – advances required for commercial transition to solid state



LiB = Lithium ion battery

Syrah's global business to supply growing battery anode demand

