

Q4 2020 Quarterly Activities Report

21 January 2021 Shaun Verner – Managing Director & CEO



SYRAH RESOURCES

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Syrah's Value Proposition

Electric Vehicles require graphite	 Electric Vehicle (EV) adoption is gaining moment Anodes in lithium-ion batteries used in EVs are in
Graphite is a strategic critical mineral	 Global anode supply chain is currently 100% rel Graphite is designated as a strategic critical min
Syrah's Balama Graphite Operation is a Tier 1 asset	 Long life (>50 years¹) and high grade (16% TGC Largest integrated natural graphite mine and pro
Vertical Integration in USA	 Balama to be vertically integrated with an anode Syrah to provide an ex-Asia & ESG verifiable so

1. Life of mine based on current 108Mt Graphite Ore Reserves being depleted at 2Mt throughput per annum. Refer to 2019 Annual report released to ASX 31 March 2020 for Reserve as at 31 December 2019. All material assumptions underpinning the Reserves and Resource statement in this announcement continue to apply, other than as updated in subsequent ASX announcements.

2. TGC = Total Graphitic Carbon

entum e made of graphite

reliant on China nineral in USA, EU & Japan

GC²)

processing plant globally

de production plant in USA source of anode supply

Syrah's positive ESG profile

	Leading health and safety standards	 ✓ ISO:45001 and ISO:14001 certification at Balan ✓ Vidalia battery anode project being developed to
	Best practice sustainability frameworks	 Sustainability frameworks based on: Global Reporting Initiative (GRI) United Nations Sustainable Development Goals ICMM 10 Principles for Sustainable Development
	Low carbon footprint	 Lower carbon footprint (Life Cycle) of natural ve Investigating opportunities to lower carbon footp
• • • • • • • • • • • • • • • • • • •	Auditable back to source	 Fully integrated by Syrah from mine to customer Anode material from Vidalia will have a single ch the source

ama I to ISO operating standards

als

nent

versus synthetic graphite⁽¹⁾

ner

chain of custody back to



Q4 2020: Key Points

Vidalia Battery Anode Material Project	 Bankable Feasibility Study ("BFS") confirmed robust economics for anode production in the USA Active Anode Material ("AAM") produced using Vidalia precursor, product qualification underway with possible of the first vertically integrated producer of natural graphite AAM outside
Balama Graphite Operation	 MoU signed for solar and battery project at Balama to lower costs and improve environmental credentia Balama preserving cash during temporary suspension; retains operating / marketing capability to rapidly Restart lead time of ~2-3 months once decision is made
Market	 EV sales continued to grow during the quarter, with 89%¹ growth in Q4 versus prior year Improved natural graphite market conditions during the quarter – higher prices observed, increased cust
Health and Safety	 Balama quarter end Total Recordable Injury Frequency Rate ("TRIFR") was 0.7 Ongoing focus on compliance with government directives and internal COVID 19 protocols
Corporate	 Equity capital raising and proposed convertible notes to raise A\$124m² Syrah ends quarter with strong cash balance of US\$75 million³

1. Based on data from EV Sales (http://ev-sales.blogspot.com/) for October and November. Syrah estimates for December.

2. See ASX announcement dated 10 December 2020.

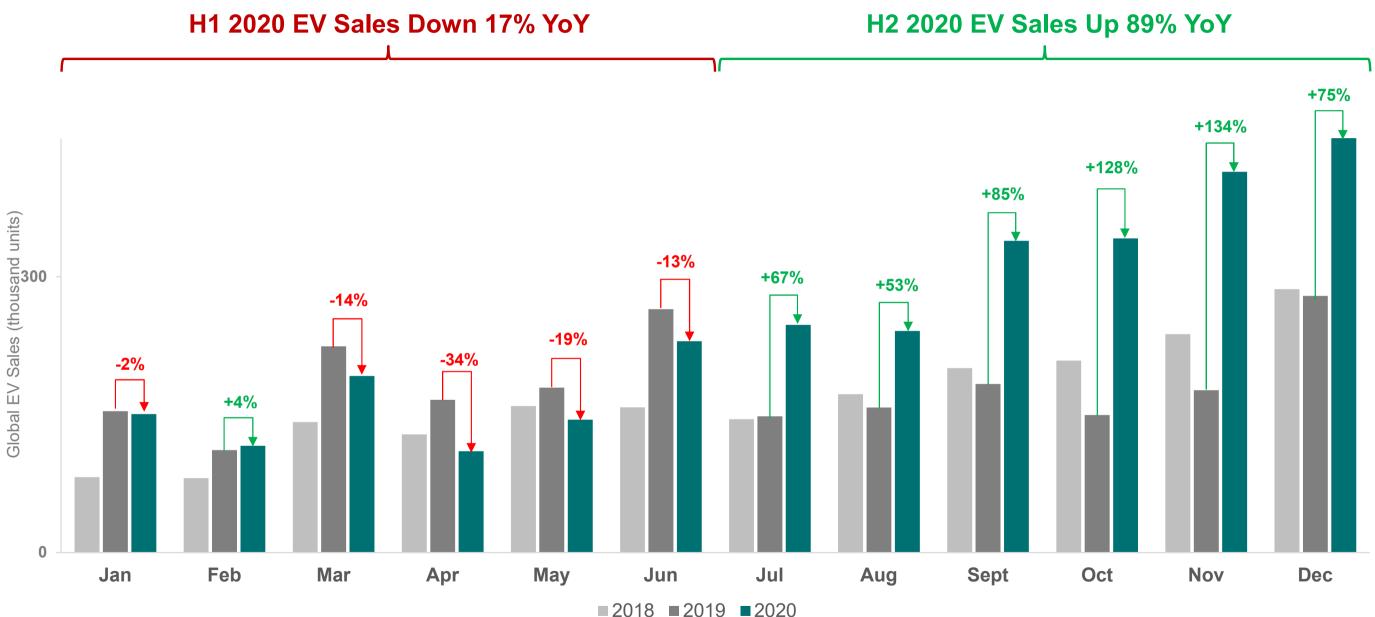
3. Includes nett proceeds from institutional placement as per ASX announcement dated 10 December 2020. Proceeds from the Share Purchase Plan (SPP) not yet received and proposed convertible notes remain subject to shareholder approval. Announcement of SPP results is planned for 25 January 2021. Strong demand has been noted through the SPP process, with applications received beyond A\$12 million. Syrah may decide to raise a higher amount or scale back applications under the SPP at its discretion.

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tials of production

ustomer enquiry

Global EV sales recovery indicates increased natural graphite demand



Source: All data except Dec 2020 from EV Sales (http://ev-sales.blogspot.com/). Dec 2020 data Syrah Resources estimate

Vidalia expansion significantly de-risked

Date	De-risking Milestones
Dec 2020	BFS confirms robust economics for large scale AAM production at Vidalia
Oct 2020	First production of AAM (toll treated) using anode precursor from Vidalia
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)



Vidalia has key requirements for large-scale AAM production





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

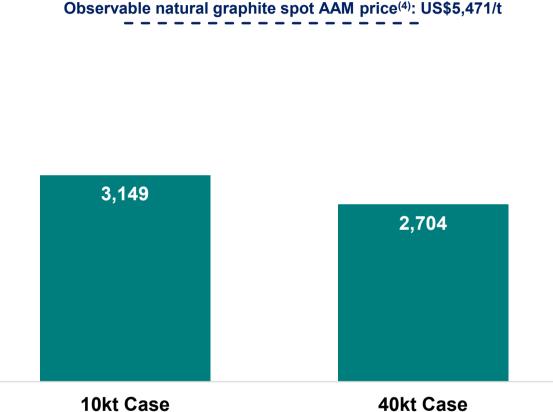


BFS confirms attractive margins at current AAM prices

BFS key outcomes:

Metric	Units	10ktpa Facility	40 ktpa Facility
Annual processed graphite	ktpa	18	73
AAM production	ktpa	10	40
By-product production	ktpa	8	33
By-product price	US\$/t	250	250
Capital cost estimate ⁽¹⁾⁽²⁾	US\$m	138	477
Operating cost estimate (all-in) ⁽²⁾⁽³⁾	US\$/t AAM	3,149	2,704

Operating Cost – US\$/t AAM



(1) Exclusive of: owners' costs associated with the expansion to 10ktpa, estimated at approx. US\$4m to first production for 10ktpa facility; working capital; and, ongoing cost associated with product qualification and technical product development activities

(2) Capital and operating cost estimates to accuracy of $\pm 15\%$ and $\pm 30\%$ for 10ktpa and 40ktpa respectively

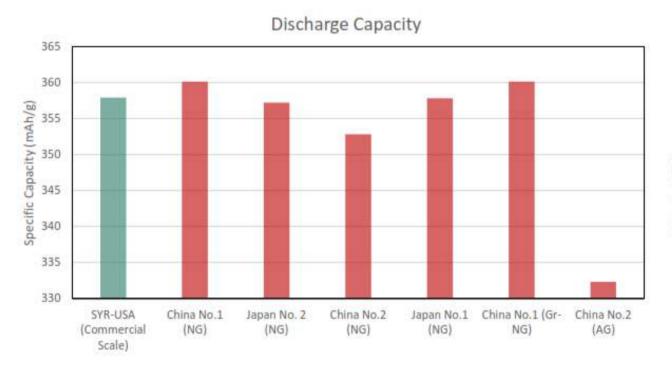
(3) The operating cost is an estimate delivered all-in cost. The operating cost estimates assume natural graphite cost of US\$400/t (FOB Nacala), which reflects an approximate all-in cost of production at Balama at full plant utilisation. All-in cost of Balama production (FOB Nacala) an approximation based on next 30 years of the mine plan at Balama and full utilisation of the processing plant at design capacity.

(4) Price is the midpoint of "domestic/mid-range" natural graphite anode material price reported by China Industrial Association of Power Sources as of 27 November 2020 - http://www.ciaps.org.cn/. Prices converted at 6.58 USDCNY as of 27 November 2020

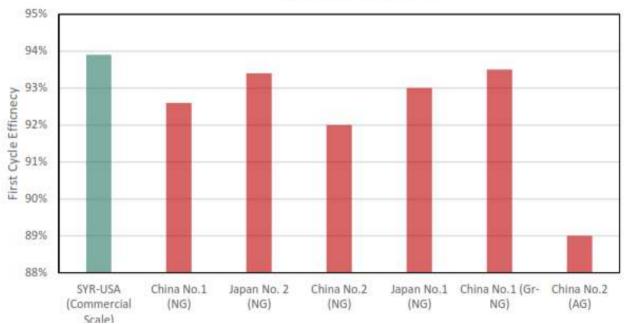




Syrah on track to become an integrated graphite AAM producer ex-Asia







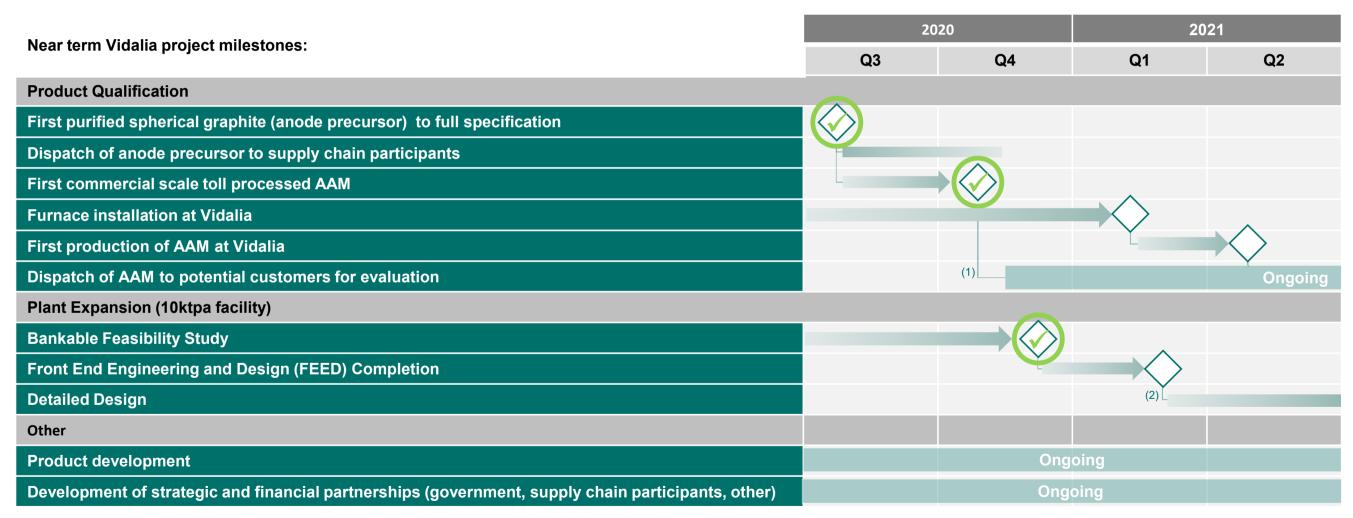






Progressing to become an integrated natural graphite AAM producer ex-Asia

- Syrah to complete Front End Engineering and Design (FEED) and commence Detailed Design for 10ktpa AAM facility in Q1 2021 •
- Project development pathway beyond Detailed Design will be informed by strategic/financial partnerships and end customer commitments



(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 design to be informed by strategic/financial partnerships and end customer commitments





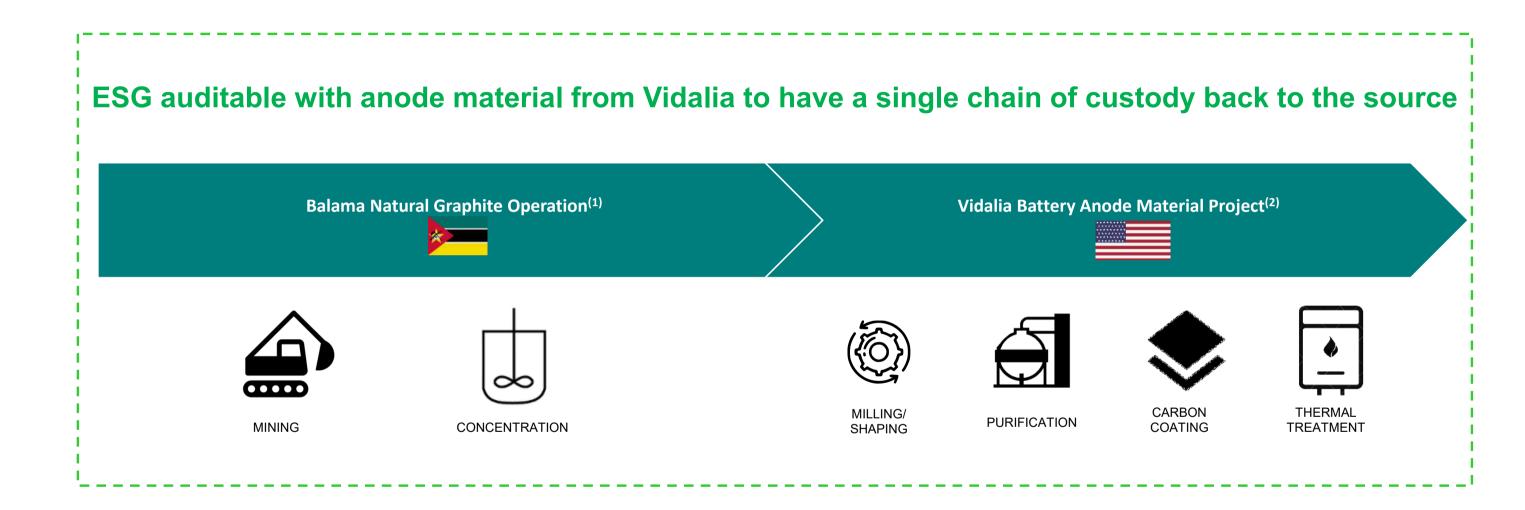
Balama Graphite Operation

- Balama sold 163,000 tonnes of natural graphite into the global market in 2019
- Production at Balama was temporarily suspended in March 2020 due to COVID 19 impacts⁽¹⁾:
 - Travel restrictions
 - Lower end user demand
- Travel restrictions are easing reducing impediment to restart
- Cost restructure implemented at Balama to preserve cash during period of temporary production suspension
- Operating and marketing capability retained to restart within 2 to 3 months once a restart decision is made⁽²⁾
- Strong EV sales growth in H2 a positive leading indicator for Balama restart
- Significant vanadium resource at Balama presents a potential value add option⁽³⁾





Syrah progressing to be a vertically integrated natural graphite anode supplier



- (1) See slide 17 for summary of Balama Graphite Operation
- (2) Syrah's Vidalia facility installed plant can produce 5,000 metric tonnes per annum (5ktpa) of unpurified spherical graphite and 0.2ktpa of purified spherical graphite to battery specification. Installation of a furnace in Q1 2021 will enable the capability to produce 0.2ktpa of natural graphite AAM. Bankable Feasibility Study (ASX release dated 1 December 2020) assessed option to expand the current asset base to 10ktpa and 40ktpa AAM production capability



Summary and Outlook

Vidalia Battery Anode Material Project	 Syrah remains on track to become a vertically integrated producer of natural graphite AAM to supply exponents. In Q1 2021, Syrah plans to: Complete Frontend Engineering and Design (FEED) for expansion to 10ktpa Commence Detailed Design for expansion to 10ktpa Install a furnace for qualification scale AAM production at Vidalia Progression of AAM qualification activities with potential customers will be ongoing through 2021
Balama Graphite Operation	 Balama preserving cash during temporary suspension; retains operating / marketing capability to prom Restart lead time of ~2 to 3 months post decision Improvement in natural graphite market conditions expected to continue during the quarter

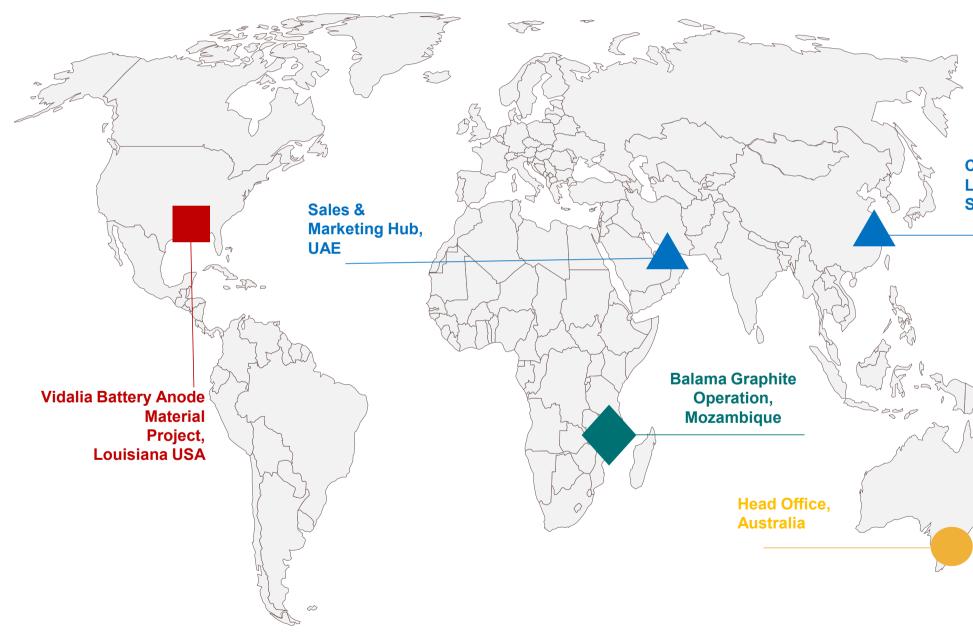
ex-Asia markets

mptly restart production

Appendix

15

Syrah's global business to supply growing battery anode demand





Contract Sales Liaison, Shanghai



Balama Graphite Operation asset summary

Overviews

Key Dates

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	2Mtpa ore throughput. ~350ktpa	
Product	94% to 98% fixed carbon graphite concentrate	
C1 Cost ⁽²⁾	Forecast ~ US\$330/t as plant optimised and at full capacity	

Graphite Mineral Resources and Ore Reserves

Classification	Tonnes (Mt)	TGC (%)
Total Reserves	107.54	15.73
- Proved	-	-
- Probable	107.54	15.73
Total Resources	1,422	10.0
- Measured	23.5	17.5
- Indicated	378	11.2
- Inferred	1,020	9.8

Balama Open Pit



Mar 2020	Temporary suspension of production at Balama Graphite Operation	
Sep 2019	In response to drop in flake graphite prices, production reduced	
Mar 2019	Graphite Mineral Resources and Ore Reserves Update	
Jan 2019	Commercial production declared, with quarterly production of 33kt	
Dec 2018	Balama produced >100kt in 2018	
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	

(1) Life of Mine based on 107.54Mt Graphite Ore Reserves being depleted at 2Mt of mill throughput per annum

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



Vidalia Battery Anode Material Project

Project History	
Date	De-risking Milestones
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Project Location: Vidalia (Louisiana, USA)



- 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

Vidalia commercial scale plant for qualification (2020)





