

BCM APPOINTS ALTRIS ENGINEERING TO ADVANCE EMA PROJECT INTO FEED

Highlights

- Altris Engineering appointed as Lead Design Engineer for the Ema Project front-end engineering design (FEED) phase
- Appointment provides continuity from the Bankable Feasibility Study (BFS), which was also led by Altris
- FEED will further develop the engineering and design of the Ema process plant and associated infrastructure and prepare the Project for transition into detailed engineering and procurement
- Major equipment packages will be developed to support technically conforming vendor quotations and procurement readiness.
- The FEED programme is expected to be completed over approximately 24 weeks
- Altris will work alongside BCM and specialist consultants during FEED, with the completed engineering package designed to transition efficiently to a Brazilian contractor for detailed design and construction engineering

Brazilian Critical Minerals Limited (ASX: BCM) (“BCM” or the “Company”) is pleased to announce the appointment of Altris Engineering (“Altris”) as Lead Design Engineer for the Front-End Engineering and Design (“FEED”) phase of the Company’s flagship Ema Rare Earth Project in Brazil.

The appointment represents the next major engineering stage for the Ema Project and continues the project’s progression from feasibility towards financing, procurement, Final Investment Decision (“FID”) and ultimately construction.

Advancing Ema Towards Development

Altris previously led the engineering component of the Ema BFS and has developed detailed knowledge of the Project’s process design, infrastructure requirements, execution strategy, capital costs and key development risks.

The continuation of the existing engineering team into FEED allows BCM to retain the substantial engineering knowledge developed during the BFS and avoids the additional time, cost and technical risk associated with transferring the Project to a new engineering consultant.

The FEED programme has been designed to mature the existing engineering, confirm major equipment selections, further optimise the process plant and infrastructure design, develop procurement packages and further refine the Project's capital cost and implementation schedule.

The completed FEED package is intended to provide BCM with a substantially more advanced engineering basis to support project financing, procurement, regulatory approvals and FID, while establishing the technical foundation for subsequent detailed design and construction.

Andrew Reid, Managing Director (BCM), commented:

"The appointment of Altris to undertake the FEED is the next important step in moving Ema from feasibility into project execution. Having Altris continue as our Lead Design Engineer provides significant advantages. Their team already has an intimate understanding of the Ema flowsheet, infrastructure and development strategy following their work on the BFS, allowing us to move immediately into the next engineering phase without having to rebuild that project knowledge.

The focus of FEED is now increasingly about execution — finalising key engineering decisions, obtaining vendor quotations, advancing procurement packages, optimising capital and operating costs and further reducing the technical and execution risks ahead of a Final Investment Decision.

Importantly, this work will substantially increase the engineering maturity of Ema and provide the platform required to move efficiently into detailed design, procurement and ultimately construction.

BCM continues to systematically de-risk Ema and advance what we believe has the potential to become a strategically important, low-cost source of rare earths outside of China."

Michael Ehlers, Managing Director (Altris), commented:

"Altris is delighted to continue its partnership with BCM as the Ema Rare Earth Project moves into the next stage of engineering. Our involvement through the BFS has given us a detailed understanding of the Project and, importantly, allows the FEED phase to commence with continuity of design knowledge and a clear focus on execution.

This stage is about increasing project certainty — advancing engineering maturity, firming up major equipment selections and vendor pricing, refining capital costs and schedules, and reducing the key technical and execution risks ahead of financing and Final Investment Decision.

In-situ recovery of ionic clay rare earths has historically been concentrated in China and parts of Southeast Asia, and Ema is now one of the most advanced projects seeking to establish this type of operation in the Western world. Being able to work alongside BCM to develop the engineering for a project that could help establish an entirely new source of rare earth supply is incredibly exciting for our team."

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FEED Scope

Altris will provide multidisciplinary engineering services across the Ema Project and will retain overall responsibility for engineering integration during the FEED phase.

The work will cover the Ema processing facilities from receipt of pregnant leach solution ("PLS") generated by the ISR wellfield through impurity removal, Mixed Rare Earth Carbonate ("MREC") precipitation, dewatering and product load-out.

The FEED will also incorporate ongoing testwork, field investigations and optimisation studies as they become available.

Procurement and Project Execution Readiness

A significant component of the FEED programme will be advancing major equipment packages towards procurement.

Altris will develop equipment specifications, datasheets and enquiry documentation, coordinate Requests for Quotation and technically evaluate vendor proposals.

The objective is to bring major equipment packages to the point of technically conforming quotations, providing BCM with greater certainty around equipment selection, pricing and delivery schedules ahead of project execution.

The FEED programme will additionally refine the Project execution strategy, capital cost estimate and implementation schedule and undertake ongoing value engineering aimed at improving capital efficiency, operating costs, constructability and operational performance.

Transition to Detailed Design in Brazil

Following completion of FEED, detailed engineering and construction documentation will be undertaken by a suitably qualified Brazilian contractor operating within the Brazilian CONFEA/CREA regulatory framework.

Altris will assist BCM with the transition of the FEED package to the appointed Brazilian contractor and will provide technical handover and design continuity to preserve the engineering intent established through the BFS and FEED phases.

This announcement has been authorised for release by the Board of Brazilian Critical Minerals Limited.

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About Brazilian Critical Minerals Ltd

The Ema Rare Earth Project is an ionic adsorption clay rare earth project located near Apuí in Amazonas State, Brazil.

The Project is being developed using In-Situ Recovery ("ISR"), with magnesium sulphate solution used to recover rare earth elements from the mineralised clay profile. The recovered rare earths are subsequently processed to produce a Mixed Rare Earth Carbonate suitable for export and downstream refining.

The FEED stage represents the next engineering step in BCM's strategy to progressively de-risk the Ema Project and advance it towards development.



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