

# Market Update

21 December 2020

## Highlights

**Cobalt Blue Holdings Limited**  
A Green Energy  
Exploration  
Company



ASX Code:

**COB**

### Commodity Exposure:

**Cobalt & Sulphur**

### Directors & Management:

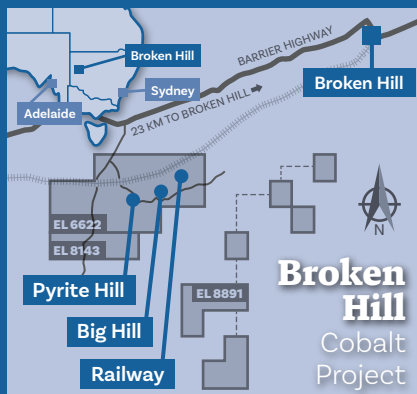
**Robert Biancardi** Non-Exec Chairman  
**Hugh Keller** Non-Exec Director  
**Robert McDonald** Non-Exec Director  
**Joe Kaderavek** CEO & Exec Director  
**Robert Waring** Company Secretary

### Capital Structure:

Ordinary Shares at 21/12/2020: **243.2m**  
Options (ASX Code: COBO): **8.8m**  
Market Cap (undiluted): **\$28.0m**

### Share Price:

Share Price at 21/12/2020: **\$0.115**



### Cobalt Blue Holdings Limited

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## Pilot Plant – Progress Update

### KEY POINTS

- Major items of equipment have arrived at our Broken Hill plant site, with remaining items due in early January 2021.
- Structural steelwork installation has commenced. Electrical installation has begun with power supply, to be followed by equipment and instrumentation connections from mid-January 2021. Plant commissioning is scheduled for February 2021.
- First production is targeted in late February 2021, with samples to be sent to prospective partners as part of Cobalt Blue's global Cobalt Sample Program.
- Ahead of the formal opening of the facility, Cobalt Blue hosted a Broken Hill community open day on **17 December 2020**, attended by 50 people.

CEO Joe Kaderavek, said:

*"With pilot production scheduled for Q1, kicking off our global cobalt sample program, in parallel with project approvals and technical studies, 2021 is shaping up to be a stellar year for Cobalt Blue. Merry Christmas to all."*

Cobalt Blue Holdings (COB) is committed to building a Broken Hill based metallurgical testing centre for its Broken Hill Cobalt Project (BHCP), starting with a Pilot Plant. The Pilot Plant construction is advancing well, with key equipment in place and steelworks to be completed by Christmas. Electrical and instrumentation works will also be finalised over the next 6 weeks. We expect production of Mixed Hydroxide Product (MHP) to begin by late February 2021, with cobalt sulphate samples shortly after.

Figure 1 – Pilot Plant Progress Update – Steelworks being installed



Figure 2 – Pilot Plant Progress Update Leaching Circuit Equipment



Figure 3 – Pilot Plant Progress Update – Concentration Circuit – preliminary testwork has begun



## BHCP Pilot Plant

Following successful development of the COB Process Technology at the laboratory scale, COB is building a Pilot Plant to test the process on a continuous basis. The throughput rates are nominally 1-2 t per hour for the concentrator circuit and 100-150 kg per hour for the leaching circuit. COB will process up to 90 t of ore (RC Chips) through the plant, using existing samples collected in previous drilling campaigns.

The Pilot Plant will allow COB to produce varying specifications of cobalt products (including mixed hydroxides and sulphates) and represents a significant milestone for our business. Our commercial aim is to make battery ready cobalt sulphate from this facility on a scale sufficient to provide test samples (~10 kgs) for global commercial partners.

The Pilot Plant data will be used to define a larger Demonstration Plant activity scheduled for 2H 2021. The Demonstration Plant will include all unit operations for the proposed BHCP at nominally a 1:500 to 1:1000 scale. The Demonstration Plant will focus on calcining cobalt-pyrite concentrate for production of sulphur, and an integrated hydrometallurgical circuit for leaching calcine and recovery of cobalt and sulphur.

The data collected from operations will be used in the BHCP Feasibility Study to confirm the process recoveries of cobalt and sulphur. As part of these activities, larger sample cobalt and sulphur products will be generated for commercial assessment.

COB is currently working with 15 global partners who have expressed interest in receiving cobalt samples, with a view to qualifying COB as a supplier to the global battery industry. To date LG International, Mitsubishi Corporation and Sojitz Corporation have become named partners. The battery industry is investing approximately US\$200Bn (source: Benchmark Mineral Intelligence - 2020) with 160 global manufacturing facilities ("Giga Factories") identified to date. This is a very exciting period for our business.

## BHCP Community Day

Ahead of the Pilot Plant official opening in 2021, COB invited Broken Hill community members to the plant site for an introduction followed by Q&A. CEO Joe Kaderavek, Demonstration Plant Manager Adam Randall and Community Engagement Manager Andrea Roberts attended the event along with an estimated 50 people (COVID restrictions permitting).

The event included a video highlighting the aims and community impact of the BHCP as well as a banner/display that was the centre piece of extensive interest and discussions. The community response was very positive, looking forward to the BHCP providing local people with an opportunity for steady employment as well as supporting local businesses providing goods and services across its anticipated 20 year operating life.

Figure 4 – Pilot Plant – Community Open Day – 17 December 2020





Figure 5 – Pilot Plant – Community Open Day – 17 December 2020



## Cobalt Blue Background

Cobalt Blue Holdings Limited (ASX: COB) is an exploration and project development company. Work programs advancing the Broken Hill Cobalt Project in New South Wales continue. Our ambitious goals are subject to funding availability. Cobalt is a strategic metal in strong demand for new generation batteries, particularly lithium-ion batteries now being widely used in clean energy systems.

Looking forward, we would like our shareholders to keep in touch with COB updates and related news items, which we will post on our website, the ASX announcements platform, as well as social media such as Facebook () and LinkedIn (). Please don't hesitate to join the 'COB friends' on social media and to join our newsletter mailing list at our website.



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This announcement was authorised by the Board of Directors.

## Previously Released Information

This ASX announcement refers to information extracted from the following reports, which are available for viewing on COB's website <http://www.cobaltblueholdings.com>

- 24 August 2020: Pilot Plant Update – 2nd Delivery of Major Equipment Received
- 14 July 2020: BHCP testwork – High purity cobalt and sulphur products
- 28 April 2020: Mixed Hydroxide Product (MHP) testwork delivers premium product.
- 02 March 2020: Pilot Plant Update – Critical Equipment Received
- 09 December 2019: Pilot Plant Update
- 01 May 2019: COB-Mitsubishi Sulphur Agreement
- 24 June 2019: Concentrate Circuit (Pilot Trial) program successfully completed
- 04 April 2019: Significant Thackaringa Resource Upgrade
- 26 February 2019: Testwork Update

COB confirms it is not aware of any new information or data that materially affects the information included in the original market announcement, and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed. COB confirms that the form and context in which the Competent Person's findings presented have not been materially modified from the original market announcement.