

# Electra Makes Continued Progress on Cobalt Refinery Project and Prepares for Black Mass Recycling Demonstration

28.09.2022 | [CNW](#)

TORONTO, Sept. 28, 2022 - [Electra Battery Materials Corp.](#) (NASDAQ: ELBM) (TSXV: ELBM) ("Electra") today provided an update on the commissioning of its cobalt refinery located north of Toronto, confirming that it remains on track to meet project timelines, including the launch of a black mass recycling demonstration, and capital cost guidance announced with its Q3 reporting.

"Electra continues to build momentum," said Trent Mell, CEO of Electra Battery Materials. "On the heels of our commercial agreement with LG Energy Solution announced last week, we are excited by the continued progress at our refinery and the prospects of our upcoming black mass recycling demonstration plant. Building upon successful metallurgical testing and engineering work, and the receipt and installation of key pieces of equipment, we anticipate launching our battery recycling demonstration plant at the Ontario refinery site this fall."

Mr. Mell added, "The plant demonstration, which will be conducted in concert with ongoing commissioning efforts at the refinery, is expected to produce five marketable products. Revenue generated from black mass recycling activities will be accretive to the revenue expected from the sale of cobalt sulfate that is anticipated beginning in spring 2023 when the refinery is commissioned."

## Refinery Commissioning Highlights

Through September 28, 2022, Electra's progress on the refinery commissioning project can be measured by a number of key developments, including:

- Completed 85 percent of testing of existing brownfield equipment for recommissioning.
- Completed 85 percent of all procurement.
- Completed 90 percent of detailed engineering.
- Completed 75 percent of the erection of the solvent extraction building, and major solvent extraction equipment was placed by the end of October.
- Foundations and structural steel work continue for the crystallizer plant, and key processing equipment, including an evaporator and crystallizer vessels, are scheduled to be installed in early November.
- Other equipment already at site to support the buildout of the crystallizer plant process include two steam packages, a crystallizer plant condenser, condensate and cobalt sulphate feed tanks, and a crystallizer centrifuge.
- The owners' team is now at 25 personnel, consisting of trades people, engineers, operators, lab technicians, and support staff.

## Black Mass Recycling Demonstration

Electra has completed process development and engineering on recycling black mass material, a byproduct generated from end-of-life EV battery recycling and other recycled lithium-based battery sources.

Electra sourced black mass samples from suppliers in Europe and North America, studied the feed characteristics, and developed a hydrometallurgical process route to recover contained lithium, nickel, cobalt, copper and graphite. The test work was completed using the facilities of SGS Labs in Lakefield, Ontario and engineering was completed using the combined resources of technical personnel, supported by process design engineers of Hatch Associates and mechanical and electrical engineering support by Bestech.

Electra is retrofitting its existing refinery to accommodate its black mass process and plans to conduct large scale bulk runs to establish the process parameters, generate data for further optimization and validate the recoveries and quality of various marketable products.

Under the parameters of the black mass demonstration, Electra plans to process up to 75 tonnes of material in a batch run at the facilities of the refinery. The process samples that will be collected during the bulk run will be analyzed by Electra's

which is fully equipped with required instrumentation, including X-ray Fluorescence (XRF), Atomic Absorption (AA) and Coupled Plasma (ICP) analytical equipment.

Electra will use a hydrometallurgical process to treat black mass. This process has a low carbon footprint and produces non-acid generating tailings, thereby reducing environmental impacts while meeting or exceeding water discharge effluent standards as stipulated by both federal and provincial regulations.

#### About Electra Battery Materials

Electra is a processor of low-carbon, ethically-sourced battery materials. Currently commissioning North America's only nickel sulfate refinery, Electra is executing a multipronged strategy focused on onshoring the electric vehicle supply chain. Key elements of this strategy are integrating black mass recycling and nickel sulfate production at Electra's refinery located north of Toronto at Iron Creek, its cobalt-copper exploration-stage project in the Idaho Cobalt Belt, and expanding cobalt sulfate processing at Bécancour, Quebec. For more information visit [www.ElectraBMC.com](http://www.ElectraBMC.com).

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Die URL für diesen Artikel lautet:

<https://www.rohstoff-welt.de/news/424235--Electra-Makes-Continued-Progress-on-Cobalt-Refinery-Project-and-Prepares-for-Black-Mass-Recycling-Demonstration>

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