

# Electra Produces Lithium from Battery Recycling Trial, Significantly Improving its Project Economics

13.03.2023 | [Business Wire](#)

[Electra Battery Materials Corp.](#) (NASDAQ: ELBM; TSX-V: ELBM) ("Electra", or the "Company") announced today that it has successfully recovered lithium, a critical mineral needed for the electric vehicle (EV) battery supply chain, in its black mass recycling trial being conducted at its refinery north of Toronto. The recovery and subsequent production of a technical-grade lithium carbonate product in a plant-scale setting validates Electra's proprietary hydrometallurgical process and efforts to date in commissioning its larger refinery complex.

This press release features multimedia. View the full release here:  
<https://www.businesswire.com/news/home/20230313005237/en/>

Lithium carbonate produced by Electra in its black mass recycling trial (Photo: Business Wire)

"Recovering lithium from black mass represents a potential game changer for Electra and the North American EV supply chain," said Trent Mell, CEO of Electra Battery Materials. "Recycling lithium from expired batteries through hydrometallurgy lowers the carbon footprint of manufacturing electric vehicles and represents an important source of future supply for a commodity whose demand is expected to grow significantly in the coming years. From Electra's perspective, it considerably strengthens the economics of our battery recycling strategy by providing another high-value product we can sell."

Mr. Mell added, "Successfully demonstrating our lithium recovery process in a plant-scale environment supports our plans to commercialize our process with our industry partners and is a testament to efforts of Electra's technical team."

"Our refinery team, combined with our consulting engineering partners, achieved a significant milestone in proving up our hydrometallurgical process for treating black mass," said Mark Trevisiol, Electra's Vice President of Project Development. "We achieved these outstanding results in less than two years, going from bench-scale laboratory testing to plant scale production."

Black mass is the industry term used to describe the material remaining once expired lithium-ion batteries are shredded and all casings removed. Black mass contains high-value elements, including lithium, nickel, cobalt, manganese, copper, and graphite, that once recovered, can be recycled to produce new lithium-ion batteries.

Established North American battery recyclers have focused on collecting and shredding of batteries with the resulting black mass material primarily treated by a pyrometallurgical smelting process that has a higher carbon footprint and lower metal recoveries than hydrometallurgical processes.

Recycling black mass will increasingly become a key feature of the EV battery supply chain given the strong demand for critical minerals and the looming supply deficit of metals such as nickel and cobalt. According to data from McKinsey & Company, available battery material for recycling is expected to grow by 20% per year through 2040.

Electra launched its black mass demonstration plant at the end of December 2022, and has processed material in a batch mode, successfully extracting lithium, nickel, cobalt, manganese, copper, and graphite.

As disclosed previously, Electra has decided to extend its black mass processing and recovery activities

through June 2023, beyond the Company's initial target of 75 tonnes, as a result of preliminary results achieved to date and interest expressed by potential commercial partners.

The total amount of material to be processed and recovered through June will be determined in the coming weeks. The Company has identified multiple sources of supply, and is in discussions on terms and conditions with vendors.

All of Electra's recovered material will be sold to third-party companies for additional processing and re-use in a number of applications.

### About Electra Battery Materials

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

Neither the TSX Venture Exchange nor its Regulation Services Provider (as that term is defined in policies of the TSX Venture Exchange) accepts responsibility for the adequacy or accuracy of this release.

### Cautionary Note Regarding Forward-Looking Statements

This news release may contain forward-looking statements and forward-looking information (together, "forward-looking statements") within the meaning of applicable securities laws and the United States Private Securities Litigation Reform Act of 1995. All statements, other than statements of historical facts, are forward-looking statements. Generally, forward-looking statements can be identified by the use of terminology such as "plans", "expects", "estimates", "intends", "anticipates", "believes" or variations of such words, or statements that certain actions, events or results "may", "could", "would", "might", "occur" or "be achieved". Such forward-looking statements include, without limitation, statements regarding the attributes of the Notes, the closing date of the Note Offering, the listing of the underlying Common Shares and the expected use of proceeds of the Offering. Forward-looking statements involve risks, uncertainties and other factors that could cause actual results, performance, and opportunities to differ materially from those implied by such forward-looking statements. Factors that could cause actual results to differ materially from these forward-looking statements are set forth in the management discussion and analysis and other disclosures of risk factors for [Electra Battery Materials Corp.](#), filed on SEDAR at [www.sedar.com](http://www.sedar.com) and with on EDGAR at [www.sec.gov](http://www.sec.gov). Although [Electra Battery Materials Corp.](#) believes that the information and assumptions used in preparing the forward-looking statements are reasonable, undue reliance should not be placed on these statements, which only apply as of the date of this news release, and no assurance can be given that such events will occur in the disclosed times frames or at all. Except where required by applicable law, [Electra Battery Materials Corp.](#) disclaims any intention or obligation to update or revise any forward-looking statement, whether as a result of new information, future events or otherwise.

View source version on businesswire.com: <https://www.businesswire.com/news/home/20230313005237/en/>

### Contact

Joe Racanelli Vice President, Investor Relations  
[info@ElectraBMC.com](mailto:info@ElectraBMC.com) 1.416.900.3891

Dieser Artikel stammt von [Rohstoff-Welt.de](#)

Die URL für diesen Artikel lautet:

<https://www.rohstoff-welt.de/news/437967--Electra-Produces-Lithium-from-Battery-Recycling-Trial-Significantly-Improving-its-Project-Economics.html>

Für den Inhalt des Beitrages ist allein der Autor verantwortlich bzw. die aufgeführte Quelle. Bild- oder Filmrechte liegen beim Autor/Quelle bzw. bei der vom ihm benannten Quelle. Bei Übersetzungen können Fehler nicht ausgeschlossen werden. Der vertretene Standpunkt eines Autors spiegelt generell nicht die Meinung des Webseiten-Betreibers wieder. Mittels der Veröffentlichung will dieser lediglich ein pluralistisches Meinungsbild darstellen. Direkte oder indirekte Aussagen in einem Beitrag stellen keinerlei Aufforderung zum Kauf-/Verkauf von Wertpapieren dar. Wir wehren uns gegen jede Form von Hass, Diskriminierung und Verletzung der Menschenwürde. Beachten Sie bitte auch unsere [AGB/Disclaimer!](#)

---

Die Reproduktion, Modifikation oder Verwendung der Inhalte ganz oder teilweise ohne schriftliche Genehmigung ist untersagt!  
Alle Angaben ohne Gewähr! Copyright © by Rohstoff-Welt.de -1999-2026. Es gelten unsere [AGB](#) und [Datenschutzrichtlinien](#).