

Q4 Results & Progress

ONSHORING THE EV SUPPLY CHAIN

Electra Q4 Earnings Call Presentation

April 5, 2023

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All statements in this presentation other than statements of historical fact constitute “forward-looking statements” within the meaning of the United States Private Securities Litigation Reform Act of 1995, and “forward-looking information” under similar Canadian legislation and are based on the reasonable expectations, estimates and projections of Electra Battery Materials Corporation as of the date of this presentation. Forward-looking statements and forward-looking information include, without limitation, possible events, trends and opportunities and statements, including with respect to the state of the cobalt market, global market conditions, the proposed development of the Electra Battery Materials Park, the processing of raw material feedstocks, the ability to secure financing, results of exploration activities, potential acquisitions, capital expenditures, successful development of assets, currency fluctuations, government policy and regulation and environmental regulation. In particular, forward-looking information included in this presentation includes, without limitation, the opportunity to restart the Electra refinery and targeted metrics. Generally, forward-looking statements and forward-looking information can be identified by the use of forward-looking terminology such as “plans”, “expects” or “does not expect”, “is expected”, “budget”, “scheduled”, “estimates”, “forecasts”, “intends”, “anticipates”, “believes”, or variations of such words or state that certain actions, events or results “may”, “could”, “would”, “might” or “will be taken”, “occur” or “be achieved”. Forward-looking statements and forward-looking information are necessarily based upon a number of estimates and assumptions that, while considered reasonable by the Company as of the date of such statements, are inherently subject to significant business, economic and competitive uncertainties and contingencies. Known and unknown factors could cause actual results to differ materially from those projected in the forward-looking statements and forward-looking information. Such factors include changes in supply and demand for cobalt, nickel and other battery raw materials, the results of metallurgical and engineering studies, changes in competitive pressures, timing and amount of capital expenditures, changes in capital markets, changes in exchange rates, unexpected geological or environmental conditions, changes in and the effects of, government legislation, taxation and regulations and political or economic developments, success in attracting officers for the future success of the Company’s business, success in obtaining any required additional financing to advance strategic priorities, and risks associated with obtaining necessary licenses or permits.

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Timelines used in this presentation are for the purpose of aiding management in the planning and implementation of the projects and are not based on a detailed assessment of project requirements. Consequently, the timelines are subject to material revision as subsequent technical reports and assessments are completed. Future phases of the project are contingent upon completion of preceding phases. Nothing in this presentation should be construed as either an offer to sell or a solicitation of an offer to buy or sell shares in any jurisdiction.

Mark Trevisiol, P.Eng. and Dan Pace are Qualified Persons as defined by National Instrument 43-101 - Standards of Disclosure for Mineral Project (“NI 43-101”) and both are employed by Electra. They have reviewed and approved the technical content in this presentation.



Today's presenters



Trent Mell
CEO



Craig Cunningham
CFO



Mark Trevisiol
VP Project
Development

Q4 highlights

- Continued progress with commissioning of refinery
- Launched plant-scale processing of black mass material
- Raised US\$5.5M in a challenging market environment
- Acquired CAS property in the Idaho Cobalt Belt
- Issued RFP to identify engineering firm for pre-feasibility study for Bécancour battery park
- Number of positive developments supporting the onshoring EV supply chain in North America

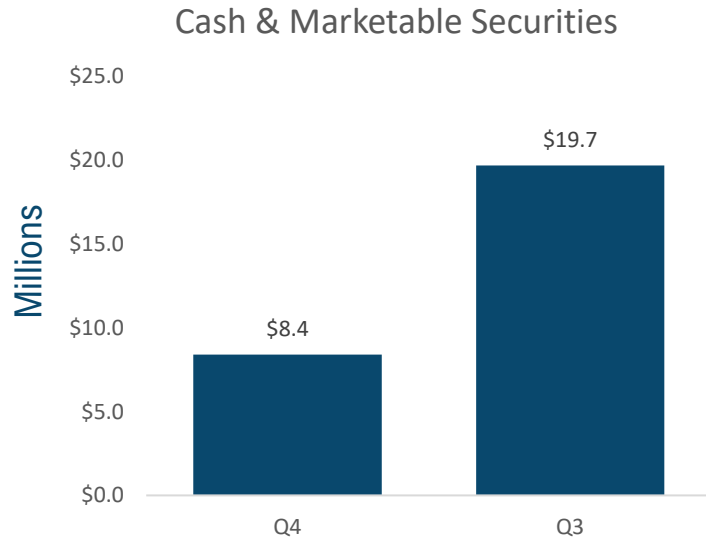
Q4 marked by considerable progress and execution against strategy

Q4 Financial Highlights

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Q4 financial results



- Balance sheet changes driven by refinery construction costs
- Other costs included
 - \$0.6M for exploration and development at Iron Creek
 - \$1.4M in engineering & metallurgical studies costs
 - \$0.8M for G&A costs
- Cash position and marketable securities exclude
 - \$5.1M of government funding expected
 - US\$14M raised through convertible debt financing

Cash management is a key priority

Convertible debt financing

- US\$51M principal amount of 8.99% secured convertible notes
- Repurchased US\$37M of outstanding notes at par value, plus accrued interest
- US\$2.48 conversion price
- 10.8M warrants exercisable over 5 years at a US\$2.48 conversion price
- Minimum cash balance reduced to US\$2M from US\$7.5M
- Early conversion at 2-year anniversary if share price exceeds conversion price by 150%

US\$14M
Net proceeds

Liquidity improved despite challenging market conditions

Guidance update

- Withdrew guidance on Feb. 14
- Re-baseline engineering report on refinery project timelines and costs underway
- Report is being completed by EPC contractor
- 3rd party-estimator to review report
- Completion expected early in Q2
- Capital spend higher than \$105M expected



Updated project timelines and capital spend expected in Q2

Refinery project update

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lost time incidents

Progress at refinery continues

- Commissioned lab, feed material handling system, leach circuit, filter presses, and reagent handling systems
- Completed erection of solvent extraction building
- 100% of cobalt sulfate loadout facility completed
- Owners' team now at 31 personnel
- Developing a culture of employee health & safety

June 2021





December 2022

 *Electra*

Cobalt sulfate refinery – December 2022 aerial view



Construction update

- Continue to receive deliveries of long-lead equipment.
- Repairs to be damaged evaporator film expected to be completed in Q2
- Deliveries of final 10 solvent extraction tanks expected in June instead of October 2022
- Deliveries of computer chips expected in June instead of January 2023



Updated project timelines and capital spend expected in Q2

Black mass recycling update



Black mass recycling



Recovery of high value elements contained in shredded lithium-ion batteries



Black mass typically contains nickel, cobalt, lithium, copper, and graphite



Recovered elements are processed and refined



Recycling process produces multiple marketable products



Keys to recovery are effective hydrometallurgical process and low carbon emissions

Electra launched large-scale trial in December 2022

Electra launched black mass trial

- Large scale trial launched at refinery in Ontario
- Apply proprietary hydromet process previously tested
- Recovery of high value metals for resale anticipated
 - Nickel, cobalt, lithium, copper, and graphite
- Critical success factors for trial
 - Effectiveness of process
 - Recovery rates



Success will pave wave for commercialization

Electra achieved industry first

- First recovery of nickel-cobalt MHP product via hydrometallurgical process in North America
- Recovery and production of lithium carbonate
- Other elements recovered:
 - Manganese, copper, graphite
- Recovery rates are at or superior to results achieve in lab setting
- Validates Electra's hydrometallurgical process and work to make refinery operational



First recovery of nickel-cobalt MHP via hydromet process in North America

Next steps with black mass trial

- Trial extended to August based on success to date
- First commercial delivery anticipated in Q2
- Completion of internal modeling and economics
- Ongoing refinement of hydrometallurgical process
- Discussions with potential battery supply chain partners



Production of lithium carbonate a key benefit of Electra's process

Outlook & near-term milestones



Market outlook and developments

US\$7,500 EV tax credit

27.1% CAGR in EV sales
through 2030

25% CAGR in black mass
supply through 2040

- Inflation Reduction Act provides favorable backdrop
- Annual EV sales expected to grow to 73M by 2040*
- Black mass supply to grow 25% per year*
- OEMs making direct investments in the EV supply chain
- Near-term commodity price volatility expected

Trends point to onshoring the EV supply chain

Near-term milestones

- Q2 – Re-baseline engineering report
- Q2 – Shipment of products to customers
- Q2 – Delivery of key equipment to refinery
- H2 2023 – Bécancour prefeasibility study



Multiple catalysts for value creation



Questions?



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TSX-V: ELBM

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