

Q2 Results & Progress

ONSHORING THE EV SUPPLY CHAIN

Electra Q2 Earnings Call Presentation

August 18, 2023

Forward Looking Statements

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



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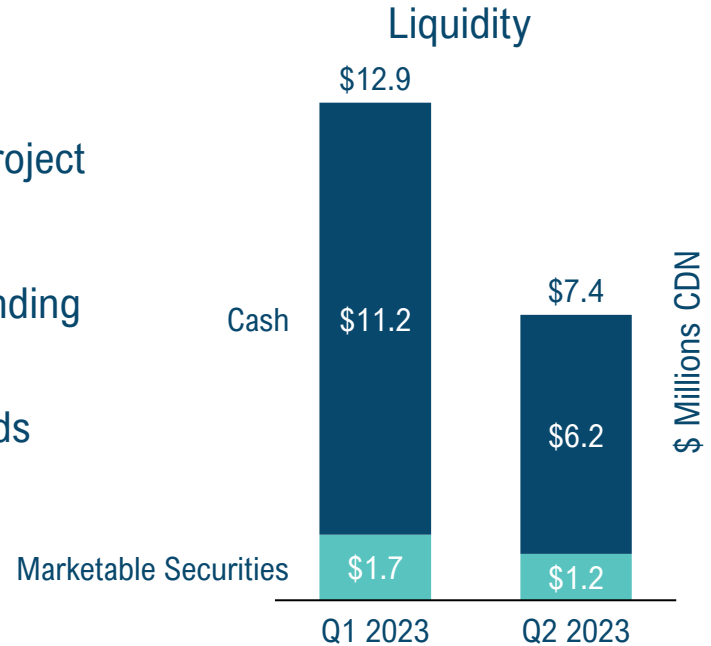
Q2 & recent developments

- Raised \$21.5M in gross proceeds with concurrent financings
- Released updated economics for cobalt refinery and black mass recycling
- Progressed with first plant-scale recycling of black mass in North America
- Signed MOU with Three Fires for battery waste recycling in Ontario
- Extended and expanded terms of cobalt sulfate agreement with LG Energy Solution
- Made first customer shipment of MHP product from black mass trial

Strengthened liquidity will sustain momentum in H2

Q2 liquidity position

- Liquidity in Q2 impacted by capital costs against refinery project
- Implemented cost-cutting measures to preserve liquidity
- Q2's liquidity excludes C\$5.1M of expected government funding and \$21.5M of gross proceeds from private placement
- Electra now has positive working capital with gross proceeds from financings



Strengthening Electra's balance sheet key was a key focus of Q2

Refinery project economics

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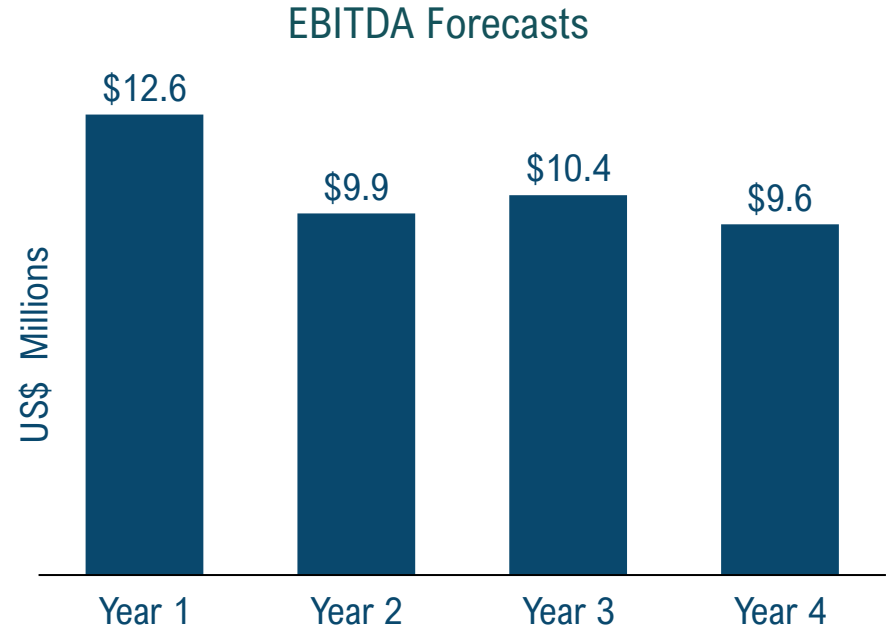
Updated capital costs*



Increases driven by scope expansion, inflation and supply chain disruptions

Highlights of black mass scoping study

- Capital spend: C\$8.1M
- Internal rate of return: 127%
- Payback: 1 to 2 years
- 2,500 tonnes of processed material /YR



Low capital intensity with a high rate of return

Black mass update



Plant scale recycling trial is ongoing

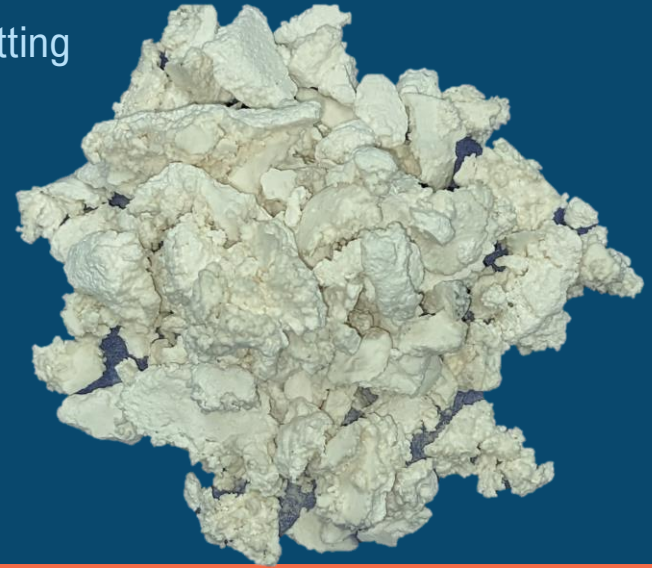
- Large plant scale trial is underway at refinery complex
- Using proprietary hydromet process previously tested
- Objective is to recover high value metals for resale
 - Nickel, cobalt, lithium, manganese and graphite
- Critical success factors for trial
 - Effectiveness of process
 - Recovery rates



Success will pave the way for commercialization

Trial results have exceeded expectations

- Recovery rates are at or superior to results achieved in lab setting
- First recovery of nickel-cobalt MHP via hydromet process
- Lithium-carbonate production is a potential game changer
- First customer shipment of nickel-cobalt MHP
- Strong interest in trial results from various stakeholders
- Catalyst to form JV with Three Fires



Results and compelling economics pave the way to re-prioritize focus

Next steps with black mass trial

- Ongoing optimization of hydromet process
- Optimize flow sheet
 - Metsim (material balance)
 - Process flow diagrams
 - Early process engineering
- Identify long-lead delivery items
- Update scoping study
- Develop summary report
- Determine path to commercialization



Build on successes achieved to date

Strategic developments & outlook



Enhanced agreement with LG Energy Solution



- 5-year strategic supply agreement
- 19,000 tonnes of battery grade cobalt
- Deliveries to start in 2025
- Represents 80% of refinery output during term
- Value of agreement is approximately US\$617M*

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Battery waste recycling with First Nations group

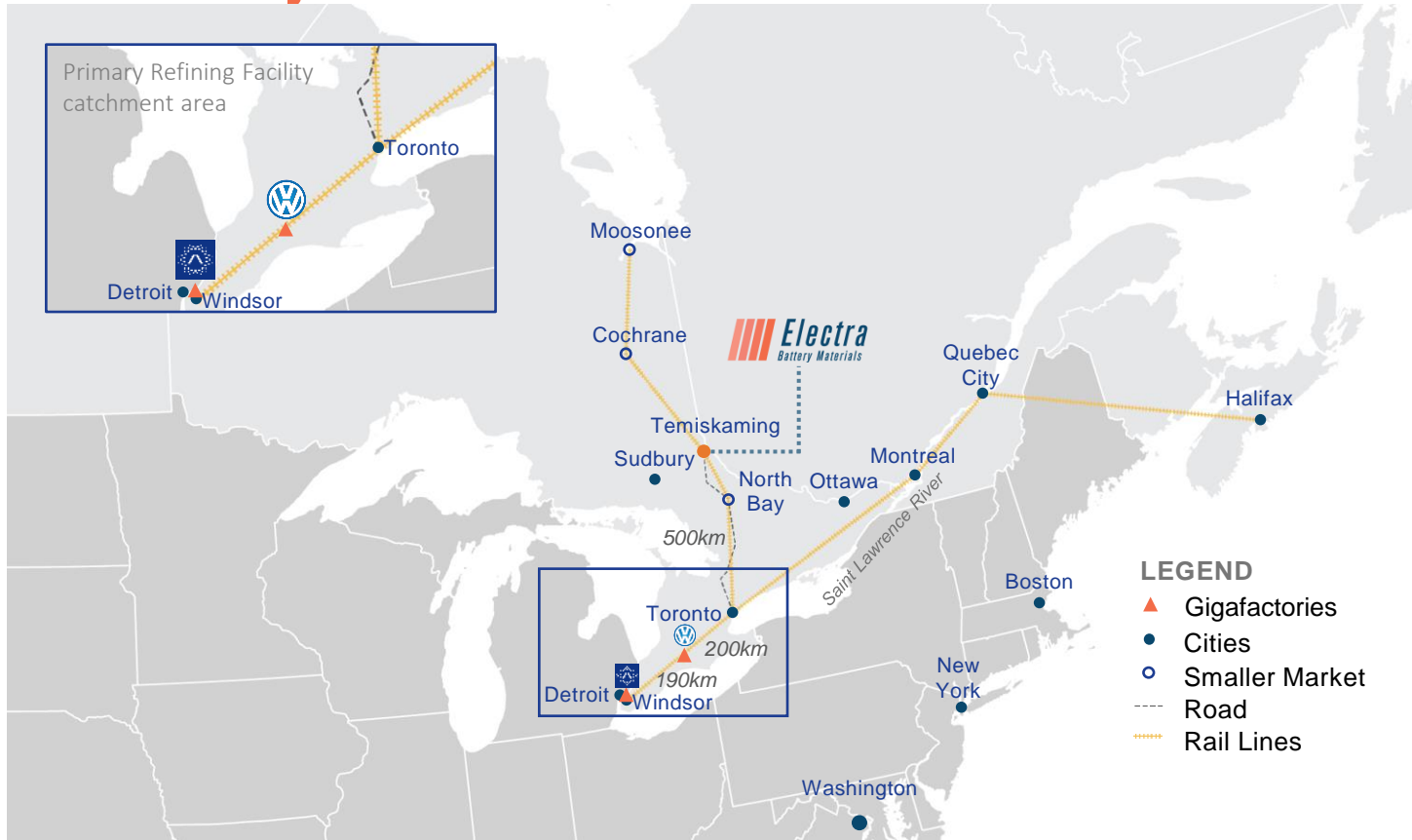
- Three Fires is a First Nations owned investment group focused on generating wealth for its members
- Announced plans to form JV with Electra in May
- Committed to strategic investment in Electra
- Planned Stellantis and VW battery plants sit on Three Fires traditional lands
- Launched 'north-south' business alliance to create linkage between raw materials in Northern Ontario and EV manufacturers in the south



Three Fires Group

Key driver in accelerating battery recycling strategy

Area of focus for joint venture with Three Fires



Outlook



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A close-up photograph of an electric vehicle's charging port. A silver circular port cover is partially open, and a black charging cable with a bright orange connector is plugged into the port. The car's body is a light grey color. In the background, a white charging station sign with the 'Electra Battery Materials' logo is visible. The image is partially obscured by a teal diagonal overlay on the left side.

Near-term milestones

- Q3 – Summary report of black mass trial
- Q3 – Delivery of key equipment to refinery
- H2 2023 – Government funding decisions expected
- H1 2024 – Bécancour prefeasibility study



Multiple catalysts for value creation



Questions?



Electra Battery Materials

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TSX-V: ELBM

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