Brazil’s next significant lithium producer.

We are advancing a long-life, low-cost lithium operation, producing high-quality spodumene concentrate for the global lithium supply chain.

Investment Opportunity

+14,000 ha within the “Lithium Valley”, in the mining-friendly state of Minas Gerais, Brazil

+300 mines operating in Minas Gerais, a state with a highly efficient and expeditious permitting process

Established lithium-producing district provides strong “proof of concept”

Flagship project located <4km from lithium producer Sigma Lithium (270ktpa) and CBL’s lithium mine (36ktpa)

Existing infrastructure

Our projects are located close to existing infrastructure, incl. roads, water, hydroelectric power and commercial ports – offering potential to significantly reduce CAPEX/OPEX compared to peers.

PEA: Strong Foundation for Growth

Initial Phase (Bandeira): Post-tax NPV8% of $1.6B; IRR of 121%; 20-year mine life producing 217,700tpa of high-quality spodumene concentrate (5.5% Li2O)

Proven Brazilian Team

+80 years of cumulative experience in exploration and mining in Brazil; Proven track record of permitting and developing mining projects.

Rapid Development to Production

Definitive Feasibility Study and EIA expected by end of 2023, triggering the environmental permitting process; All LTH projects granted “Priority Status” by state gov. bodies

Growing Demand for Lithium

Lithium is crucial to the energy storage sector and to the global energy transition.

The price of lithium carbonate (LCE), the raw material used in lithium-ion batteries, soared in 2022 from a 5-yr avg. of -$14,000/t to +$80,000/t.

According to Benchmark Minerals Intelligence, demand for LCE is set to increase to 2.4Mt in 2030, compared with around 600,000t in 2022.
Mineral Resource Estimate
(June & Oct. 2023)

Measured & Indicated:
16.69Mt grading 1.41% Li₂O (582,098t LCE)
Inferred:
16.21Mt grading 1.34% Li₂O (538,486t LCE)

* See press release dated June 27 and Oct. 19, 2023

Preliminary Economic Assessment
(October 2023)

Near-term production of high-quality, low-cost lithium concentrate.

HIGHLIGHTS
- Post-tax NPV: $1.6B (-C$2.2B); IRR: 121%
- Mine life: 20 years
- LOM production: 217,700tpa
  of high-quality spodumene concentrate at 5.5% Li₂O ("SCS.5") equivalent
- Underground mine with a low environmental footprint
- Annual throughput: 1.3Mtpa
- Payback: 14 months
- CAPEX: $233M (incl. 25% contingency)
- Pre-tax free cash flow: $243M/yr
- All-in OPEX: $349/t SC5.5

* See Cautionary Notes related to the PEA in the press release dated Oct. 19, 2023

Corporate Overview

<table>
<thead>
<tr>
<th>Share Price (10/17/2023)</th>
<th>C$1.72</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market Capitalization</td>
<td>138,185,554</td>
</tr>
<tr>
<td>Cash Balance (Q2 2023)</td>
<td>-C$240 Mil</td>
</tr>
<tr>
<td></td>
<td><em>C$30 Mil</em></td>
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</tbody>
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*incl. $28.7M financing closed on July 31, 2023

Research Coverage

CLARUS
Desjardins
STIFEL
CG Capital Markets

Lithium Ionic continues to assess and consolidate prospective lithium properties in the "Lithium Valley" of Brazil

Lithium Ionic Land Position
March 2023
May 2023
1,300ha

2024 Permitting milestones:
- Bandeira: LAC approval expected Q2

Project Timeline & Upcoming Catalysts

- Lithium Ionic begins trading on the TSXV May 2022
- Initial met test work complete Dec. 2022
- Acquisition of Nooit Minerals (Salinas Project) March 2023
- Maiden MRE (181 holes, 28,204m) June 2023
- PEA for Bandeira Q4 2023
- Bandeira: Definitive Feasibility Study Completion target Q4 2024/Q1 2024
- Bandeira: EIA completion target Q4 2023
- Outro Lado: Engineering Study, Field work & report completion target + application for LAC Q4 2023

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Caution Regarding Forward Looking Statements: Certain statements made may contain forward-looking statements which involve known and unknown risk, uncertainties and other factors which may cause the actual results, performance or achievements of the Company to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements. Please refer to Lithium Ionic’s public securities filings at www.sedar.com for a complete description of risks and uncertainties that might affect the Company.