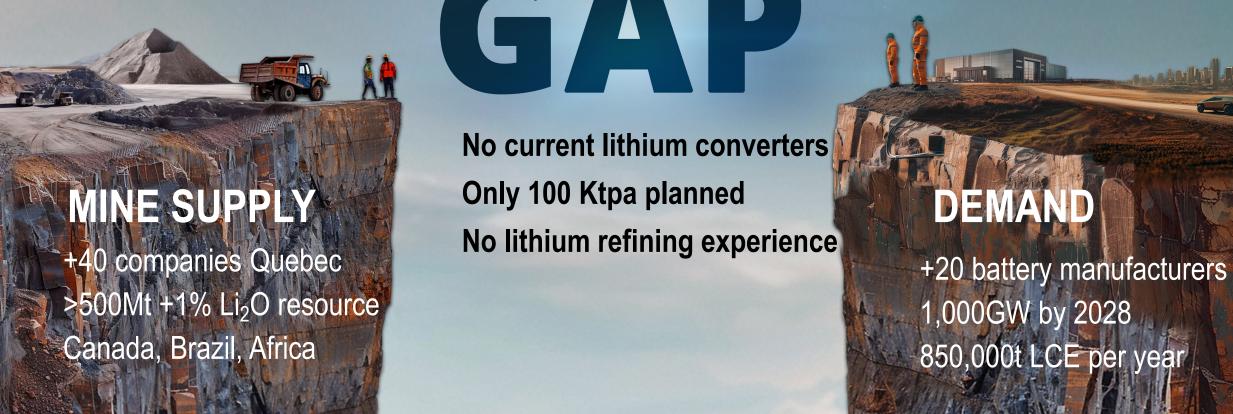
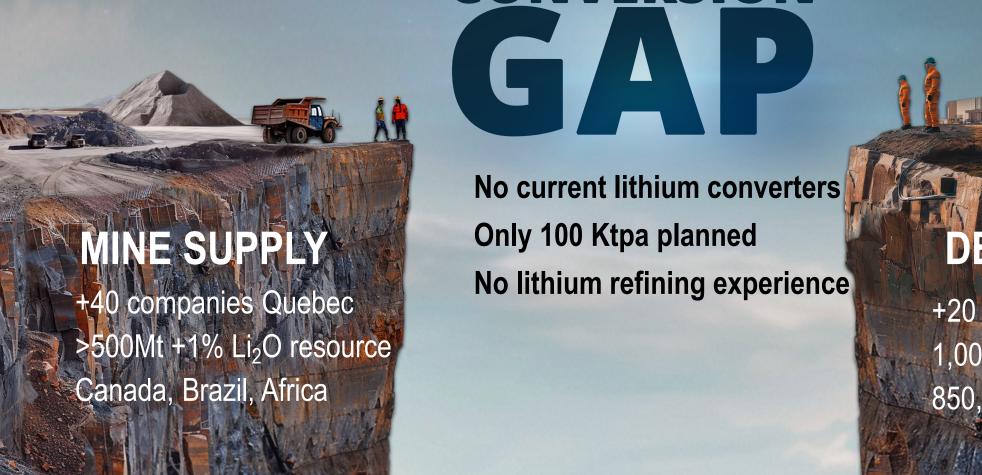




ELITHIUM CONVERSION







DOWNSTREAM | REGULATION

- Cut Chinese battery material reliance
- Chinese firms ordered to exit
- Trade war with US
- Canada on-shoring objective hasn't changed

SOURCE / ECONOMY

Planned lithium export curbs aim to 'safeguard China's core technology': deputy head of industry body

By Qi Xijia
Published: Jan 08, 2025 12:05 AM





PROBLEMS FILLING THE GAP

- Many failures, technical difficulties
- Existing Lithium producers
- Relative young industry
- Complex chemical business



Experienced Operators



Proven Technology



CHALLENGES WITH LITHIUM CONVERSION PLANTS TODAY



FAILED CANADIAN LI PROJECTS



North American Lithium

- Shutdown 2015
- Spent circa CAD 250m
- Produced 109 t LC



Nemaska Lithium

- DFS completed 2018 Spent CAD 411 m
- Failed to start up 2019



TROUBLED LIOH PLANTS



Tianqi Kwinana LiOH

- 8 Years so far
- Capital Cost Blowout
- > A\$1 billion
- Care and Maintenence



Albemarle Kemerton LiOH

- 5 years so far
- Still <20% of design rate
- Shut trains 2,3,4
- Write down US\$1.5 billion



Alkaline Pressure Leach

- New Technology
- Unproven
- 1995 Greenbushes 5Ktpa
- Failed due to scaling



WHY HAVE THESE PROJECTS FAILED?

- Nearly all the expertise is in China
- Lack of operating supervision design
- Cultural transfer a problem
- Chinese batch → Western continuous

Our Lithium Dream Team are Operators



start

THE LITHIUM DREAM TEAM



Terry Stark Head of Mining Ex Galaxy GM Operations

Roger Pover **Head of Processing Ex Galaxy Plant Manager**



Ex Hatch Li Carb Plant



John Sobolewski **Chief Financial Officer** Ex Galaxy CFO & Co Sec





DREAM TEAM TRACK RECORD

Jiangsu Li Carbonate Plant

2 Years to Commercial Production



- Capital Cost US\$120 m
- At design rate 20,000 tpa
- Highest quality LC worldwide





CLOSING THE LITHIUM CONVERSION GAP

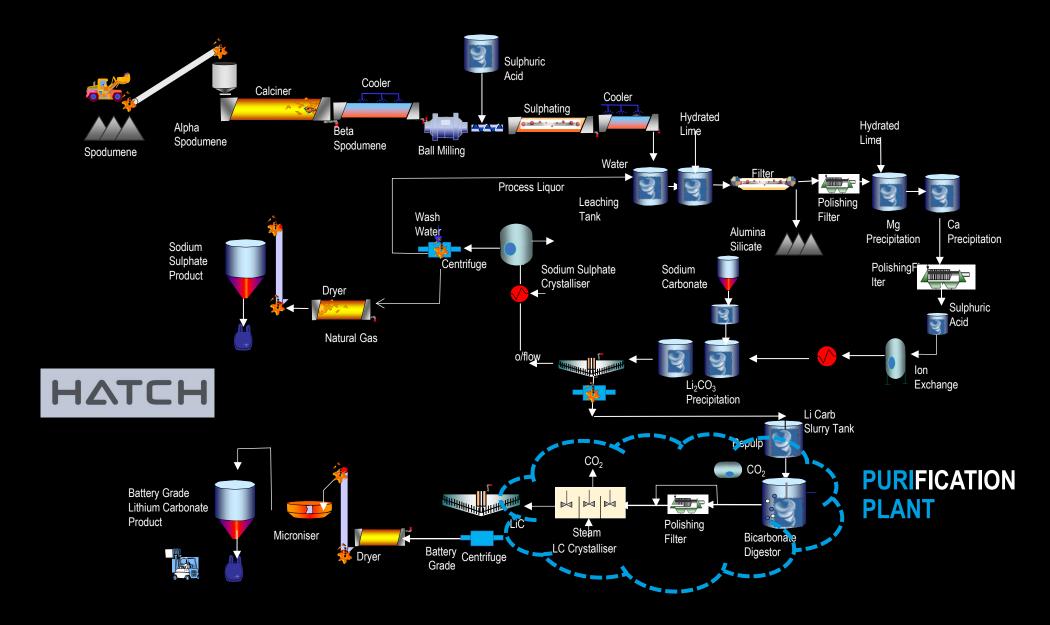


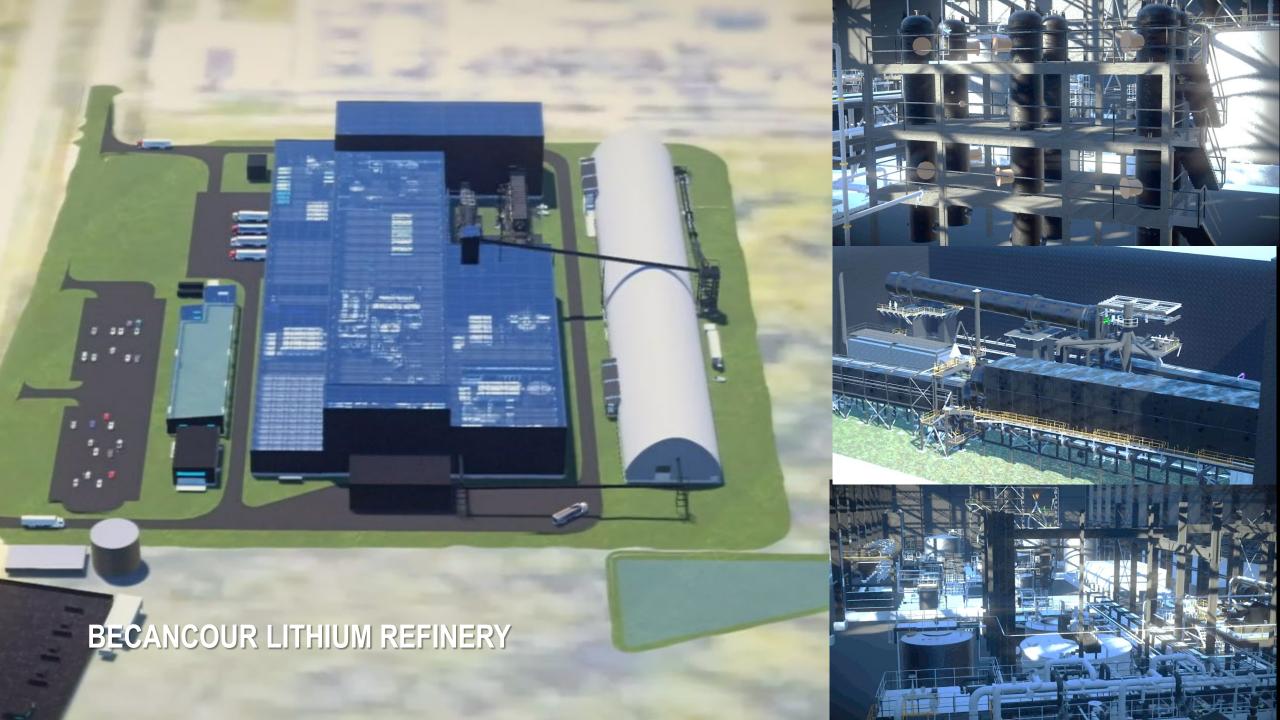




LITHIUM REFINERY FLOW SHEET







ROBUST PROCESS

- Refinery to process all types of spodumene
- Sampled international sources of spodumene
- Imports while Canadian Li industry develops
- Achieve battery grade specs 99.5% Li₂CO₃



1. LU7 ASX Announcement 30 Sept 24 – "Strong Preliminary Feasibility for Becancour Lithium Refinery"

THE LITHIUM REFINERY



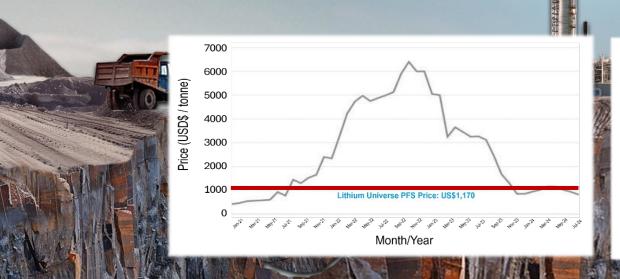
STRONG POSITIVE ROBUST DFS

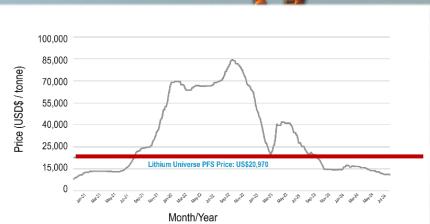




CONSERVATIVE PRICE FORECAST

SC6 US\$1,170/t LC \$20,970/t







NET PRESENT VALUE US\$ 718 MILLION



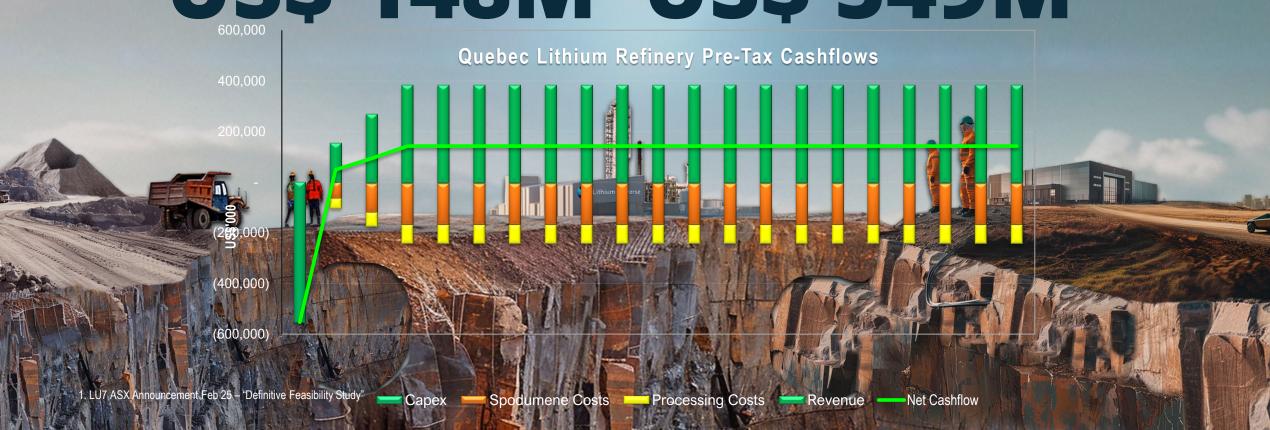


IRR PAYBACK 21% 3.9 YEARS





EBITDA CAPEX US\$ 148M US\$ 549M

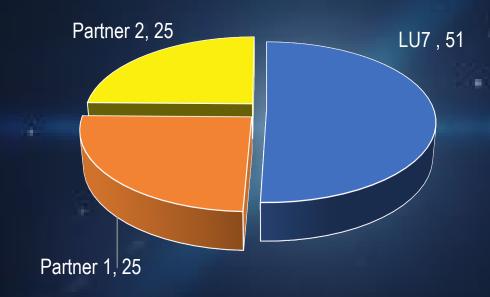




FUNDING STRATEGY

- Sell 49% project to 1-2 strategic partners
- Target OEM with spodumene offtake
- Equity from sale injected to project
- Debt and Equity of 50/50
- Appointment of debt adviser
- Discussions with various banks

Project Ownership





THE BIG WHY's

- **¿**
- build a plant low price environment?
- build a plant others closing theirs?
- can you compete with China?
- lithium carbonate not hydroxide?

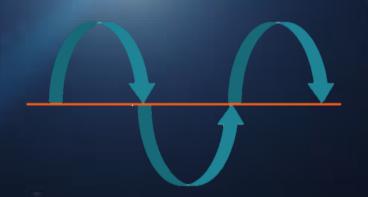




COUNTER CYCLICAL STRATEGY

Why build a plant in a depressed-price environment?

- Been through 3-4 lithium cycles
- Prices have and will always recover
- Li demand from EVs and BESS growth strong
- Develop a project ready for price recovery

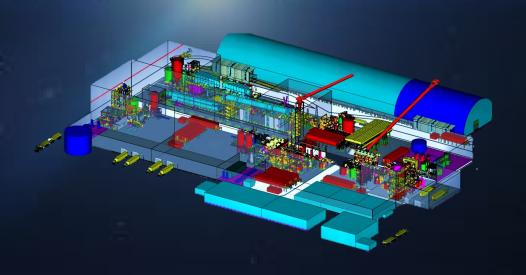




NEW CAPACITY IS REQUIRED

Why build a plant when others are closing theirs?

- Higher costs operations being closed
- Operations not performing, shutting down
- New efficient capacity is required for the growth
- World needs non-Chinese conversion
- Build "off the shelf" conversion that works

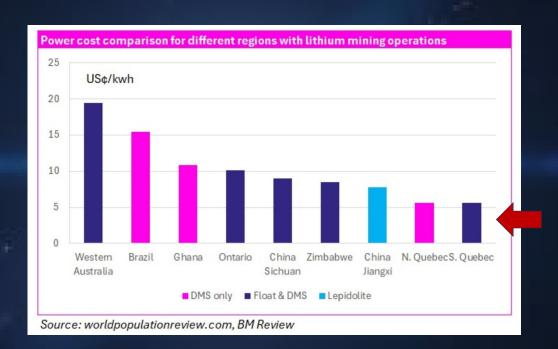




QUEBEC LITHIUM CONVERSION

Why can you compete with China?

- Access to Cheap Green Power
- Nearby feedstock Canada, Brazil and Africa
- Decrease in transport costs of spodumene
- End market North America





RECOVERY NOT IF BUT WHEN



DOUBLE WHARMMY

- Impact of supply reduction under-estimated
- Dramatic reduction 17%, 21% next year
- Demand is severely under-estimated
- Focus on EV's only, BESS dark horse
- 1.8 TWh of batteries 600 GWh solar plants

PRICES WILL RECOVER QUICKER THAN EXPECTED



LITHIUM CARBONATE

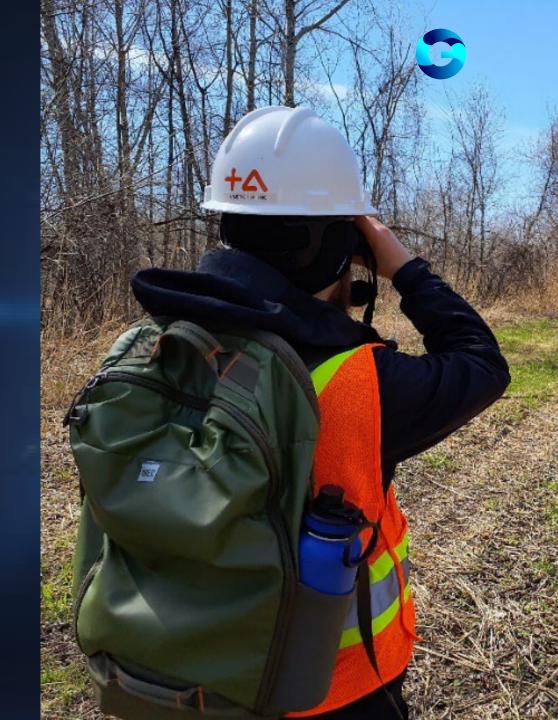
Lithium feedstock of choice

- LFP batteries technology got better
- Range and performance improved
- Much safer and cheaper
- Li Carb feed for LFP lithium batteries
- Majority of EVs have switched to LFP batteries
- BESS batteries are all LFP batteries
- LFP 67% of EVs, 87% of BESS



PROJECT ADVANCEMENTS

- Application 22.5 MW electricity, Hydro Quebec
- Environmental survey no showstoppers
- Co-operation with W8banaki First Nation
- Previous farm land
- Permitting should be straight forward





PROJECT MOU'S

- Exclusive supply alumina silicate to Lafarge
- Canada's largest cement producer
- Supply of sodium sulphate to Africa
- MOU with Polytechnique for training





MONTRÉAL

TECHNOLOGICA UNIVERSITY



LITHIUM DREAM TEAM

Proven Lithium Track Record

PROVEN TECHNOLOGY

Derisking Lithium Conversion Technology

BÉCANCOUR LITHIUM REFINERY

Competitive & Closing the Conversion Gap





CAUTIONARY STATEMENTS

Information Required by Listing Rules

The Becancour Lithium Refinery Definitive Feasibility Study (PFS) does not rely upon estimated ore reserves / and or mineral resources. The spodumene concentrate feedstock for the proposed refinery has been assumed to have been purchased directly from spodumene miners currently producing spodumene concentrates or marketing agents or traders currently purchasing spodumene concentrate and selling to the downstream processors. Accordingly, the JORC Code is not relevant to this study nor are Listing Rules 5.16 and 5.17 to the extent to which they relate to matters concerning JORC.

Forward Looking Statements

This release contains "forward-looking information" that is based on the Company's expectations, estimates and projections as of the date on which the statements were made. This forward-looking information includes, among other things, statements with respect to studies, the Company's business strategy, plan, development, objectives, performance, outlook, growth, cash flow, projections, targets and expectations. Generally, this forward looking information can be identified by the use of forward-looking terminology such as 'outlook', 'anticipate', 'project', 'target', 'likely', 'believe', 'estimate', 'expect', 'intend', 'may', 'would', 'could', 'should', 'scheduled', 'will', 'plan', 'forecast', 'evolve' and similar expressions. Persons reading this news release are cautioned that such statements are only predictions, and that the Company's actual future results or performance may be materially different. Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause the Company's actual results, level of activity, performance or achievements to be materially different from those expressed or implied by such forward-looking information. Forward-looking information is developed based on assumptions about such risks, uncertainties and other factors set out herein, including but not limited to general business, economic, competitive, political and social uncertainties; the actual results of current development activities; conclusions of economic evaluations; changes in project parameters as plans continue to be refined; future prices of metals; failure of plant, equipment or processes to operate as anticipated; accident, labour disputes and other risks of the chemical industry; and delays in obtaining governmental approvals or financing or in the completion of development or construction activities. This list is not exhaustive of the factors that may affect our forward-looking information. Neither the Company, nor any other person, gives any representation, warranty

Cautionary Statement

The DFS is based on the material assumptions outlined including that it has been completed in accordance with AACE Principles to a Class 5 level with a nominal level of accuracy of ± 35%, that the financial forecasts rely upon the purchase of third party spodumene concentrate as the feedstock for the plant. The DFS referred to in this announcement has been undertaken to assess the potential technical feasibility and economic viability of constructing and operating facilities capable of producing battery grade lithium carbonate for use in lithium-ion batteries from those units of operations and provide baseline financial metrics to consider future investment decisions.

The Definitive Feasibility Study (PFS) is based on the material assumptions. These include assumptions about the availability of funding. While Lithium Universe considers all of the material assumptions to be based on reasonable grounds, there is no certainty that they will prove to be correct or that the range of outcomes indicated by the DFS will be achieved. To achieve the range of outcomes indicated in the DFS, funding of in the order of US\$600 million will likely be required. Investors should note that there is no certainty that Lithium Universe will be able to raise that amount of funding when needed. It is also likely that such funding may only be available on terms that may be dilutive to or otherwise affect the value of Lithium Universe's existing shares. It is also possible that Lithium Universe could pursue other 'value realisation' strategies such as a sale, partial sale or joint venture of the project. If it does, this could materially reduce the Company's proportionate ownership of the project. Given the uncertainties involved, investors should not make any investment decisions based solely on the results of the DFS