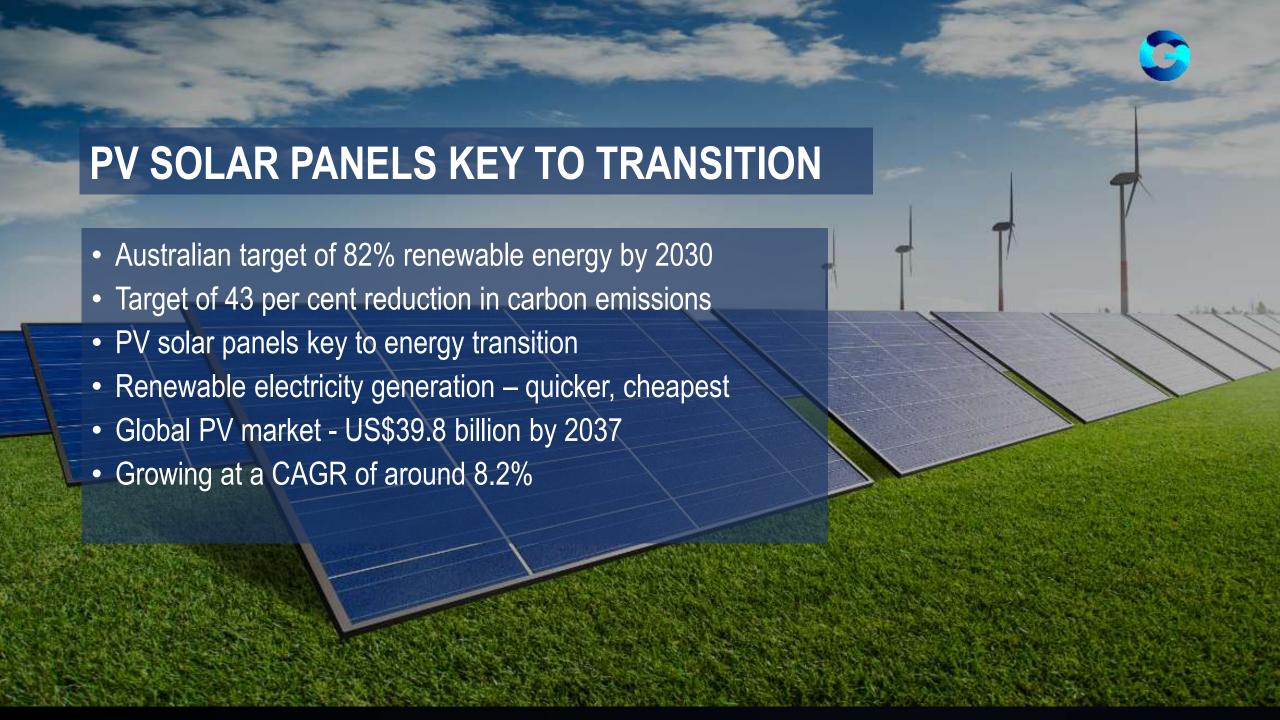


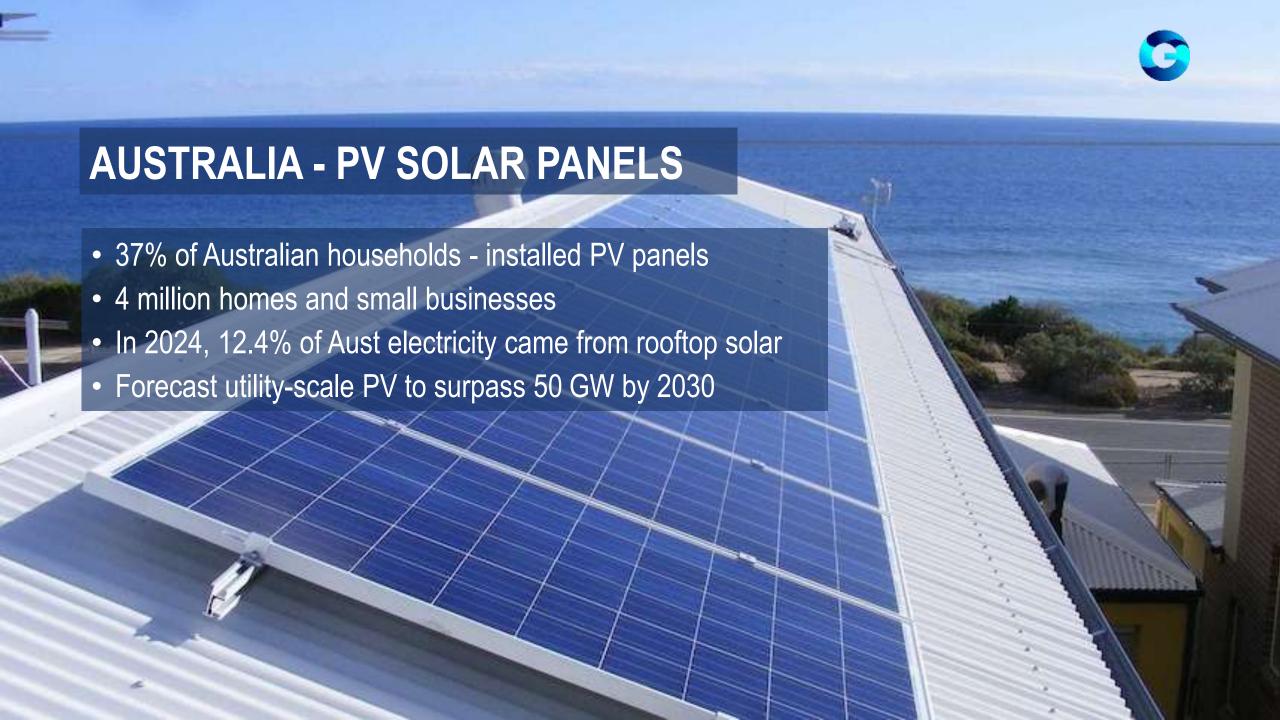


EXCITING OPPORTUNITY WHILE WE WAITFOR LI MARKET TO RECOVER

- Achieved key areas of lithium business
- Completed Bécancour Lithium Refinery DFS
- Bécancour land option, supply partnerships etc.
- Finalizing spodumene offtake, then OEM Li Carbonate offtake
- Ready for a lithium price recovery Counter-cyclical strategy
- Presented with exciting PV recycling opportunity
- Can add value while we wait for the lithium market to recover







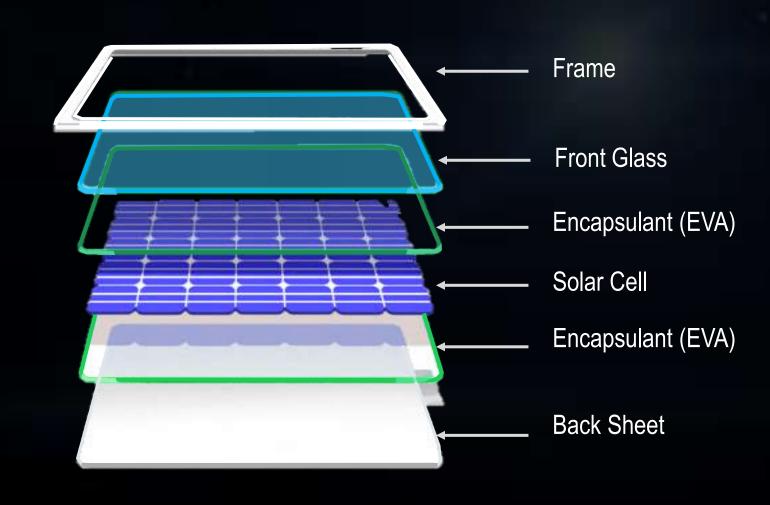






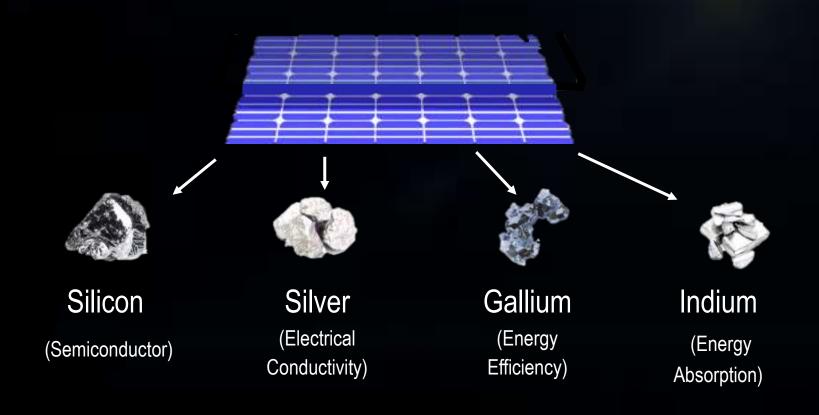


PV SOLAR CELL





CRITICAL METALS LOST FROM INEFFICIENT RECYCLING

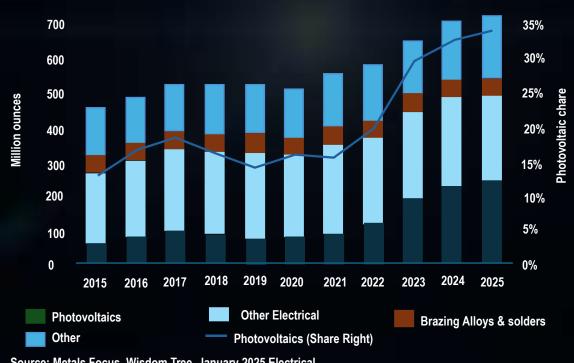






SILVER MARKET

- Record demand 680 million ounces in 2024
- Industrial demand surged by 7%
- Growth is expected to carry beyond 2025
- Photovoltaics and Al as the fastestgrowing drivers



Source: Metals Focus, Wisdom Tree, January 2025 Electrical



SILVER MARKET

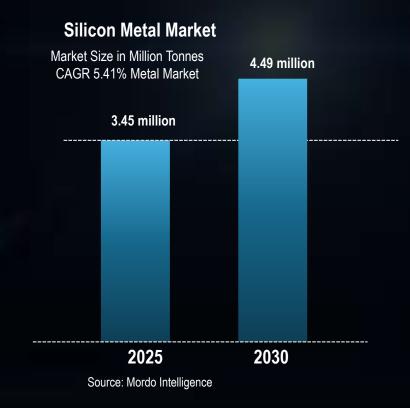
- Demand has started to outstrip supply
- Market deficit 118 mil oz
- Significant silver price increase
- US\$15/oz in 2018 to US\$38/oz 2025
- 153% increase since 2018
- Silver recovery from recycling will become increasing important





SILICON MARKET

- 3.45 million tonnes in 2025
- 4.49 million tonnes by 2030 growing at CAGR 5.41% pa
- Solar panels projected highest growth rate of 7% til 2029
- Silicon dominance in semi-conductor material in solar cells





TRADITIONAL PV RECYCLING

- Shredding and grinding PV cells
- EVA (binder) is removed by high temperatures
- EVA removed by toxic acid chemicals
- Low value glass applications insulation, buildings
- Low silicon and silver recovery
- Due to complexity, high cost, poor yields



Initial
Dismantling



Mechanical Breakdown

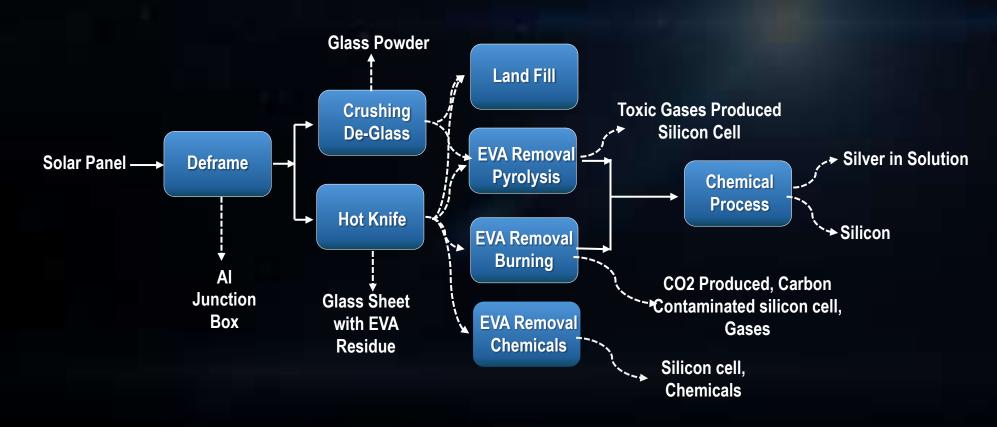


Material Extraction



TRADITIONAL PV RECYCLING

END WITH FINE UN-USEABLE POWDER





LU7 PV RECYCLING TECHNOLOGY

- Acquired global rights from Macquarie University
- Photovoltaic (PV) solar panel recycling technology
 - 1) Microwave Joule Heating Technology (MJHT)
 - 2) Jet Electrochemical Silver Extraction (JESE)
- Layer by layer separation
- Preserves materials in cleaner separable form
- High value products instead of waste





AUSTRALIAN TECHNOLOGY

- Led by Dr. Binesh Puthen Veettil (School of Engineering)
- School of Photovoltaics at UNSW and the Australian Centre for Advanced Photovoltaics
- Patent registered and pending
- License agreement with LU7

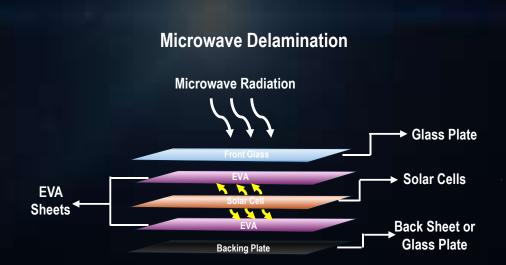






MICROWAVE DELAMINATION

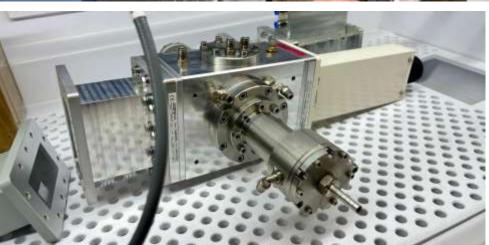
- Utilizes Microwave Technology
- Selectively heat and delaminates PV cells
- Layer by layer separation
- Preserves materials in cleaner separable form
- High value products instead of waste

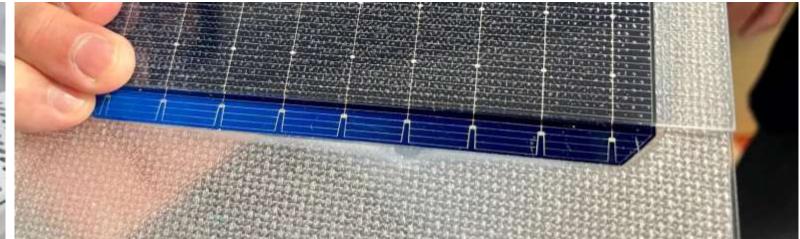






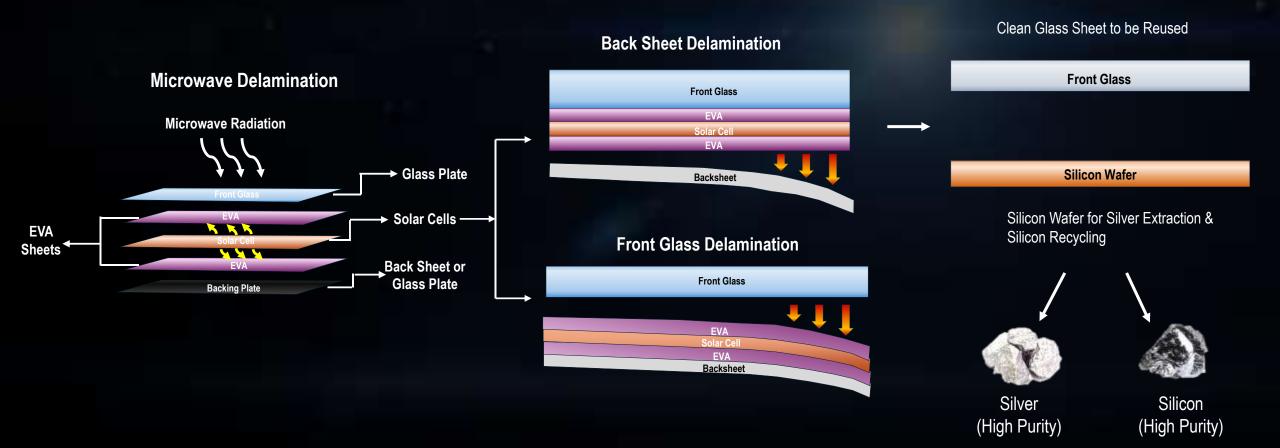








MJHT SELECTIVE DELAMINATION



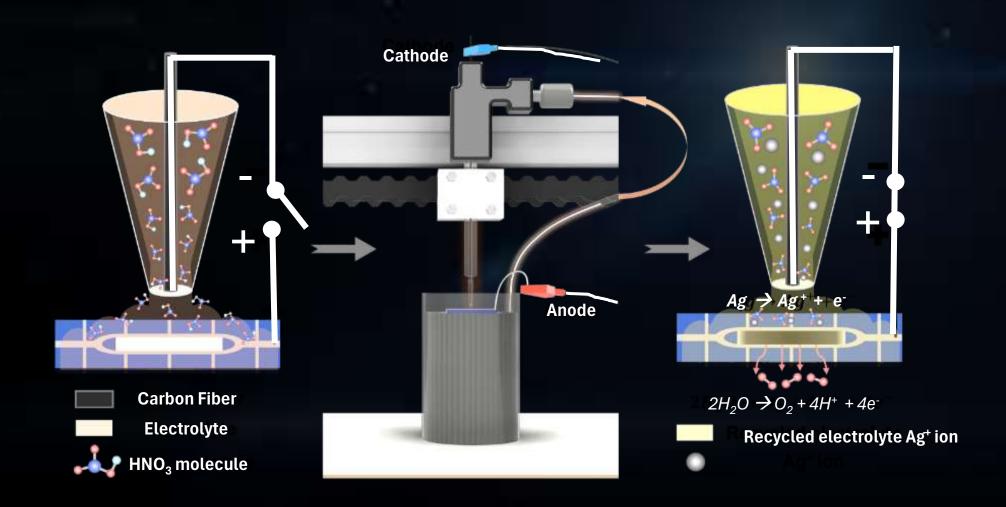


SILVER EXTRACTION TECHNOLOGY

- Silver Extraction (JESE) Technology
- JESE uses electrochemical low-voltage jet to selectively extract silver
- Anodic oxidation of silver dissolves into dilute nitric acid electrolyte
- Leaves aluminum and other impurities
- High purity silver metal recovered from electrolyte via electrochemical deposition
- Process preserves silicon wafers which minimises contamination for silicon recycling
- High-purity silicon is critical for semiconductor manufacturing

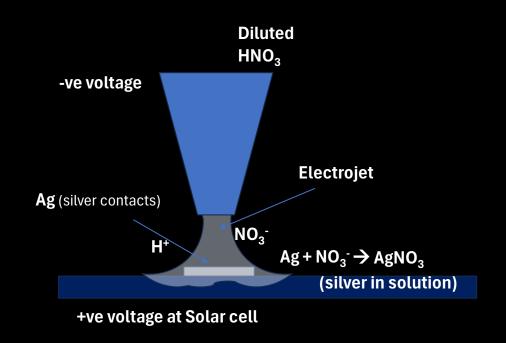


SILVER EXTRACTION TECHNOLOGY





ELECTROJET NOZZLE

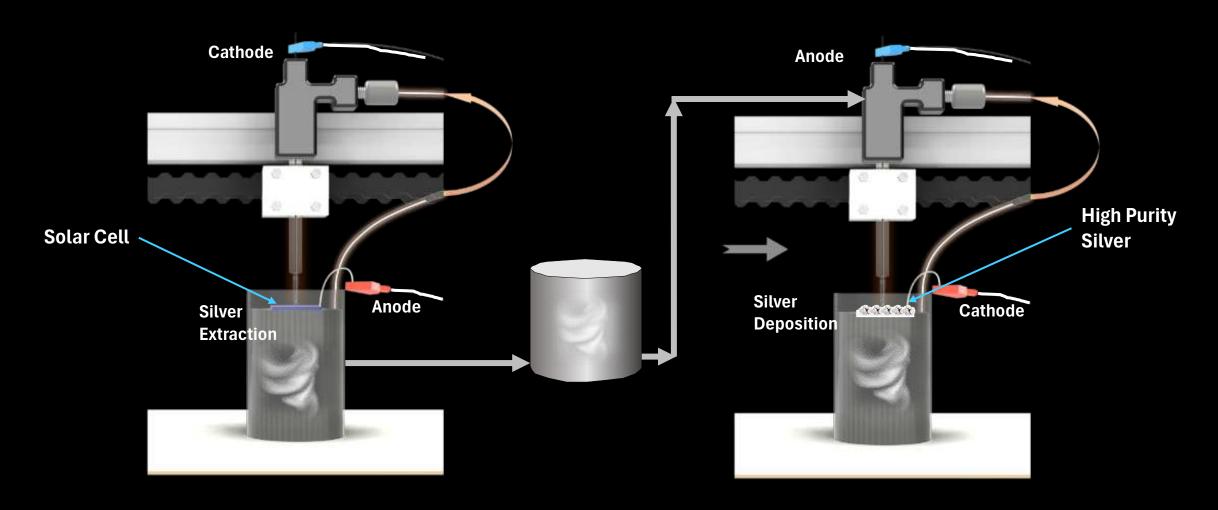






SILVER EXTRACTION

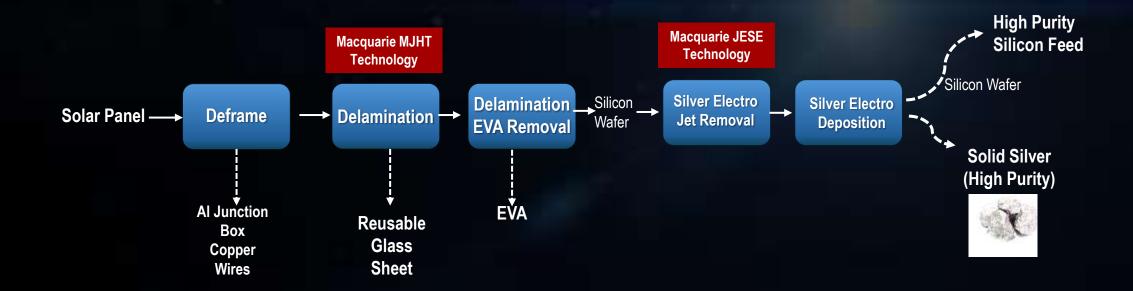
SILVER DEPOSITION







RECYCLING TECHNOLOGY







ADVANTAGES OF TECHNOLOGY

- Negates the fine unusable powder conventional recycling
- Layer by layer separation
- Preserves material in cleaner separable form
- Low energy heating Microwave Technology
- Glass sheet can be reused to make PV cells again
- Glass, Silver, Silicon all at high purity
- Higher recoveries, less waste
- 3-4 times Value Recovery



PV RECYCLING GROWTH FUTURE

The need for PV recycling is Compelling

TECHNOLOGY IS KEY

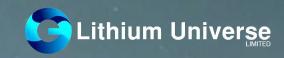
Macquarie Microwave Heating Delamination Technology

CHEMICAL EXPERTISE

LU7 Team has Chemical Experience to develop Technology







ELITHUM CONVERSION GAP

No current lithium converters
Only 100 Ktpa planned
No lithium refining experience

DEMAND

+20 battery manufacturers 1,000GW by 2028 850,000t LCE per year





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

DESIGN

THE LITHIUM DREAM TEAM





Terry Stark Head of Mining Ex Galaxy GM Operations



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



John Loxton Head of Li Refinery Ex Hatch Li Carb Plant



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





DREAM TEAM TRACK RECORD

Jiangsu Li Carbonate Plant



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





CLOSING THE LITHIUM CONVERSION GAP



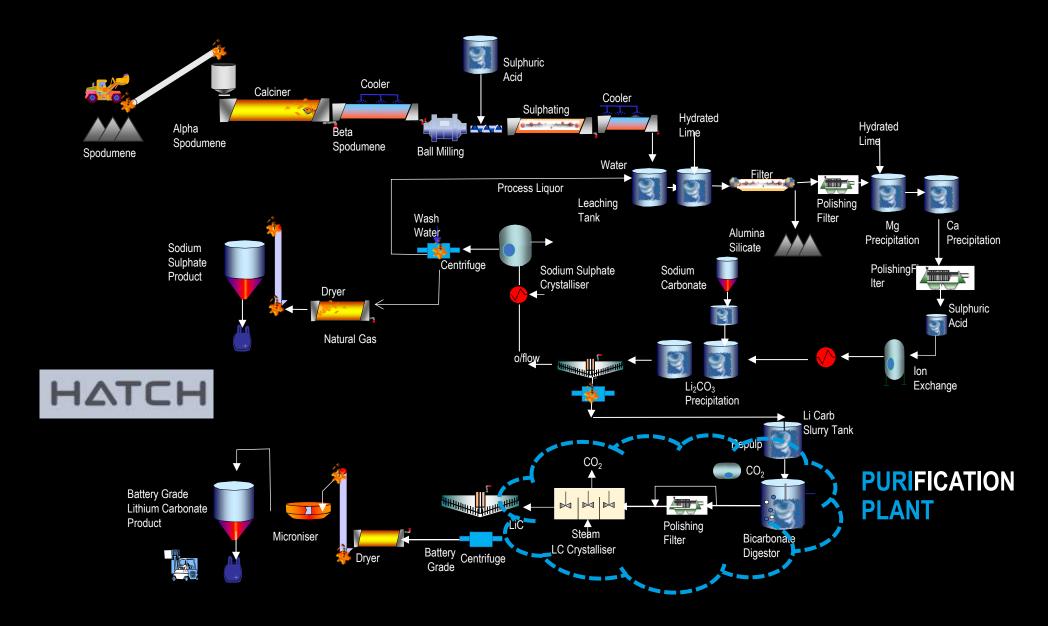


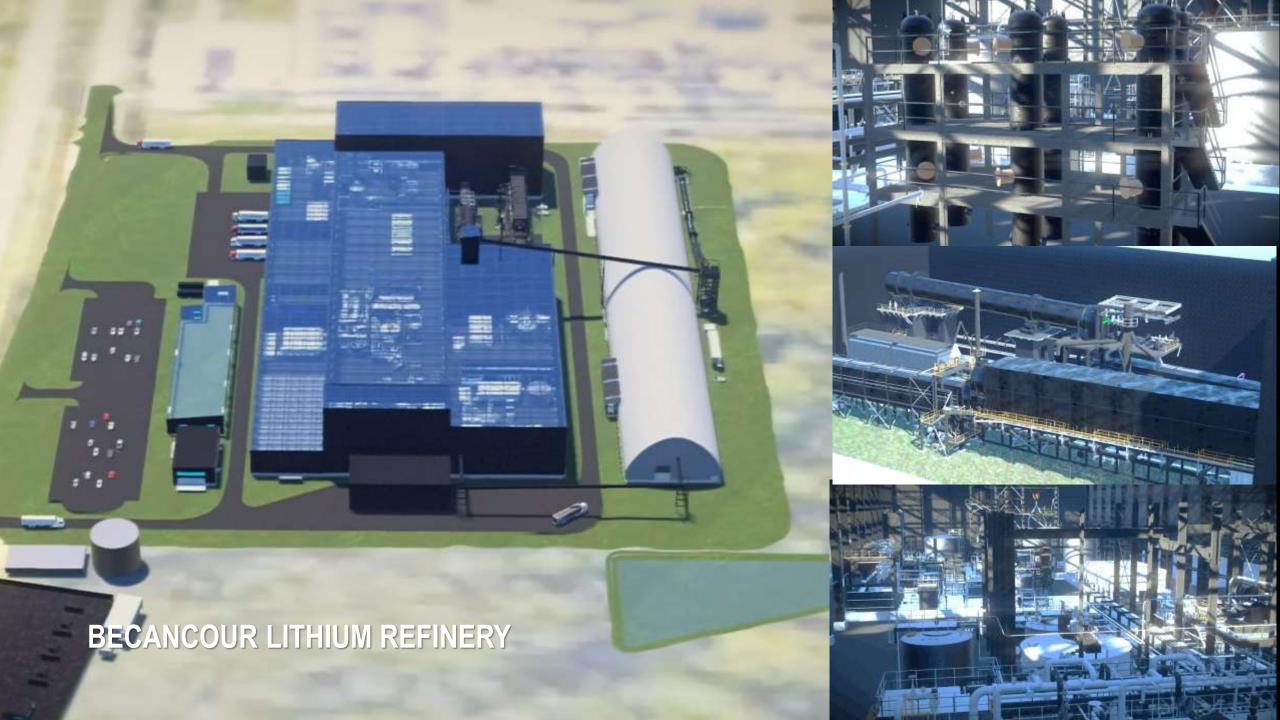




LITHIUM REFINERY FLOW SHEET







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"





BÉCANCOUR LITHIUM DFS



- SC6 US\$1,170/t LC \$20,970
- Capex US\$ 549 million
- NPV8 US\$ 718 million
- IRR 21% Payback 3.9 years
- EBITDA US\$ 148 million

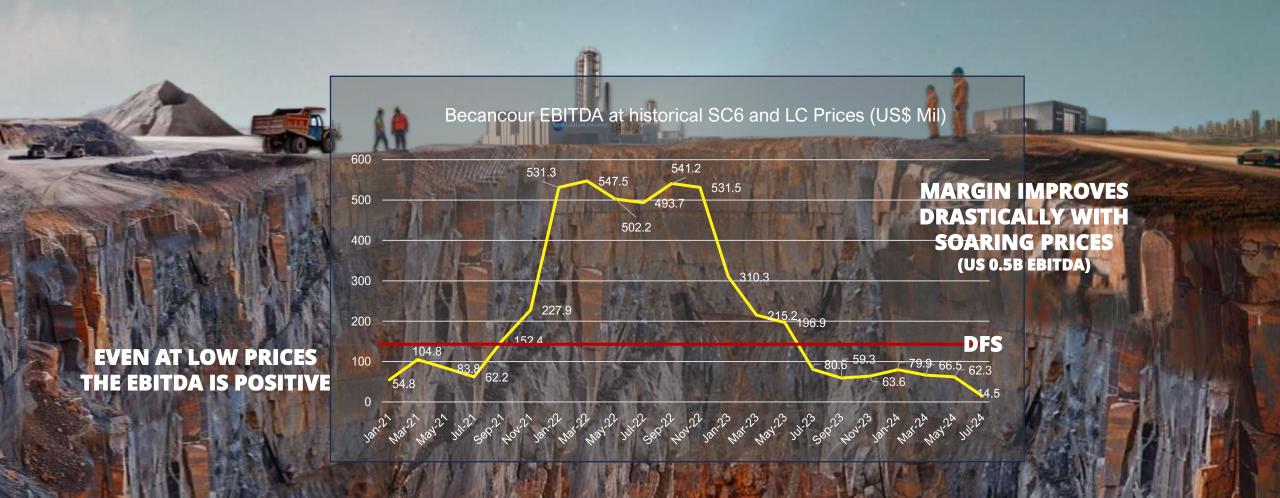


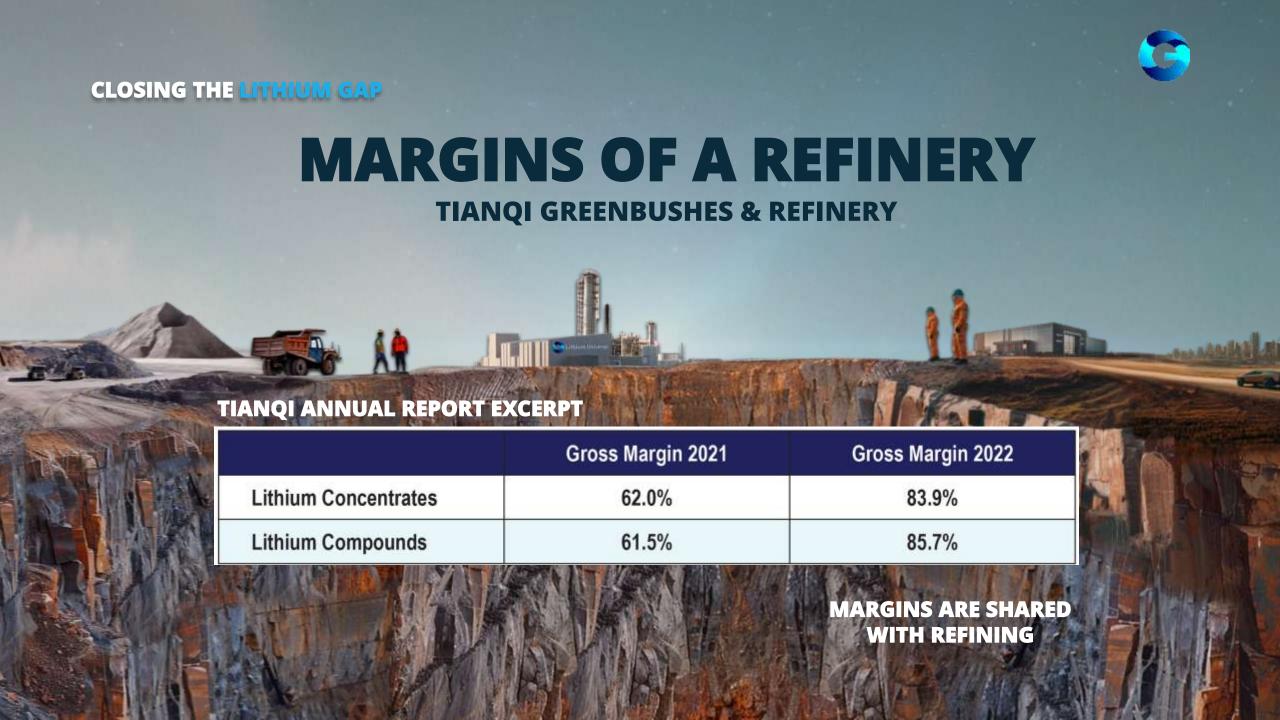




MARGINS OF A REFINERY

BÉCANCOUR EBITDA AT HISTORICAL SC6 & LC PRICES

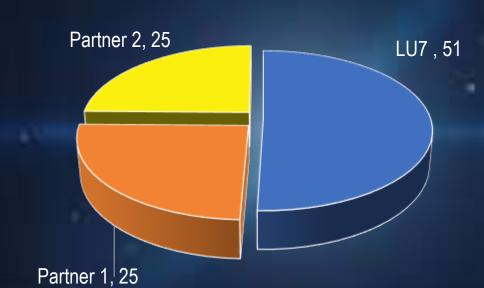






FUNDING STRATEGY

- Sell 49% project to 1-2 strategic partners
- Target OEM with final LC 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

- **C**
- 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

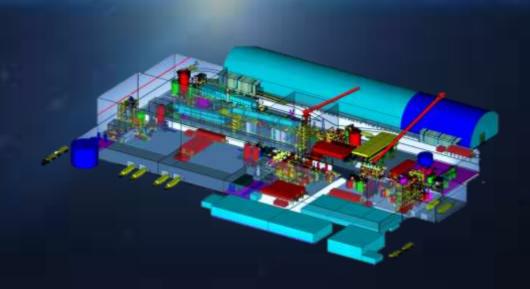




NEW CAPACITY IS REQUIRED

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

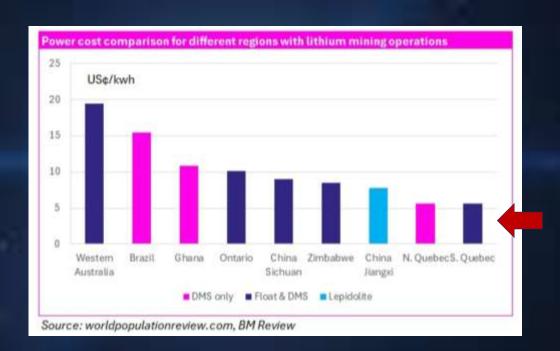




QUEBEC LITHIUM CONVERSION

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

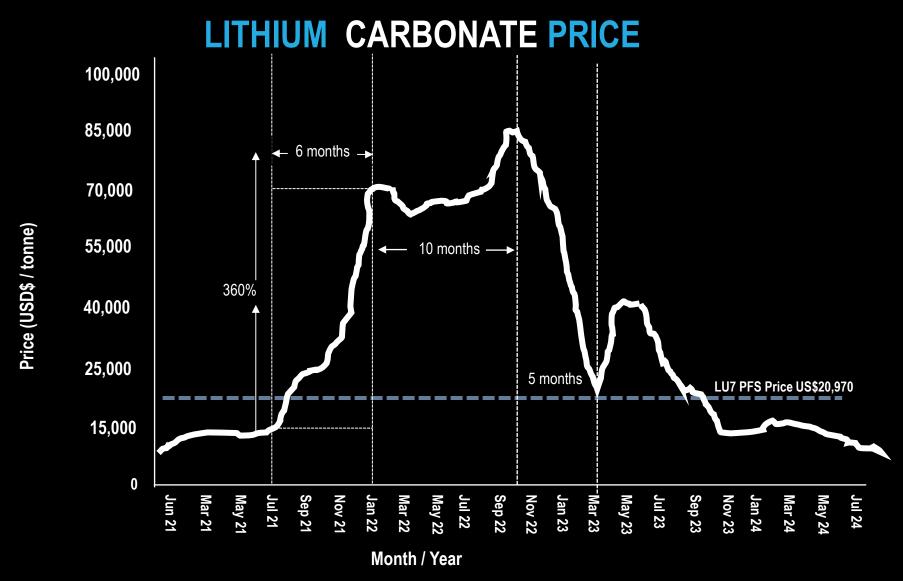


DOUBLE WHAMMY

- Impact of supply reduction under-estimated
- Dramatic reduction 17%, 21% next year
- Delayed project development (low prices)
- 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







LITHIUM DREAM TEAM

Proven Lithium Track Record

PROVEN TECHNOLOGY

Derisking Lithium Conversion Technology

BÉCANCOUR LITHIUM REFINERY

Competitive & Closing the Conversion Gap





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