Tuesday, 22 June 2021 ASX Code : LEL

MARKET ANNOUNCEMENT

Investor Presentation

Lithium Energy Limited (ASX:LEL) (**Lithium Energy**) is pleased to attach a copy of an Investor Presentation.

AUTHORISED FOR RELEASE - FOR FURTHER INFORMATION:

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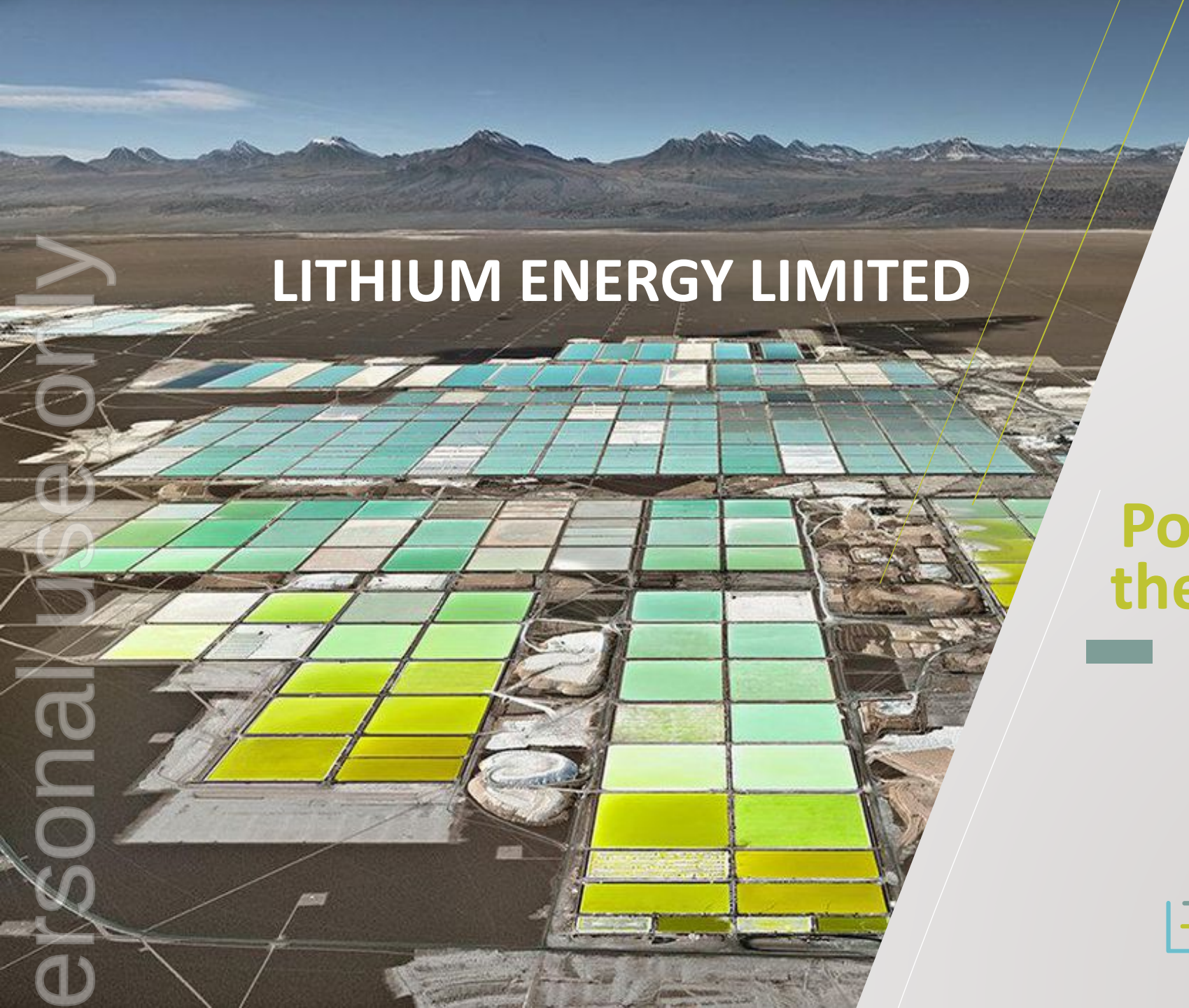
ABOUT LITHIUM ENERGY LIMITED (ASX:LEL)

Lithium Energy Limited is an ASX listed battery minerals company which is developing its flagship Solaroz Lithium Brine Project in Argentina and the Burke Graphite Project in Queensland. The Solaroz Lithium Project (LEL:90%) comprises 12,000 hectares of highly prospective lithium mineral tenements located strategically within the Salar de Olaroz Basin in South America's "Lithium Triangle" in north-west Argentina. The Solaroz Lithium Project is directly adjacent to or principally surrounded by mineral tenements being developed into production by Orocobre Limited (ASX/TSX:ORE) and Lithium Americas Corporation (TSX/NYSE:LAC). The Burke Graphite Project (LEL:100%) contains a high grade graphite deposit and presents an opportunity to participate in the anticipated growth in demand for graphite and graphite related products. LEL was spun out of Strike Resources Limited (ASX:SRK) via a $9 million IPO; Strike remains a major (43%) shareholder of the Company.



LITHIUM ENERGY LIMITED

Powering the future

June 2021

LITHIUM ENERGY LTD

Lithium Energy Limited (ASX:LEL) is building an **International Battery Minerals** company to meet the needs of the global EV Industry

IPO (May 2021) raised $9,000,000 to fund development of highly prospective Battery Minerals projects with immediate focus on **Solaroz** exploration which offers near-term upside potential

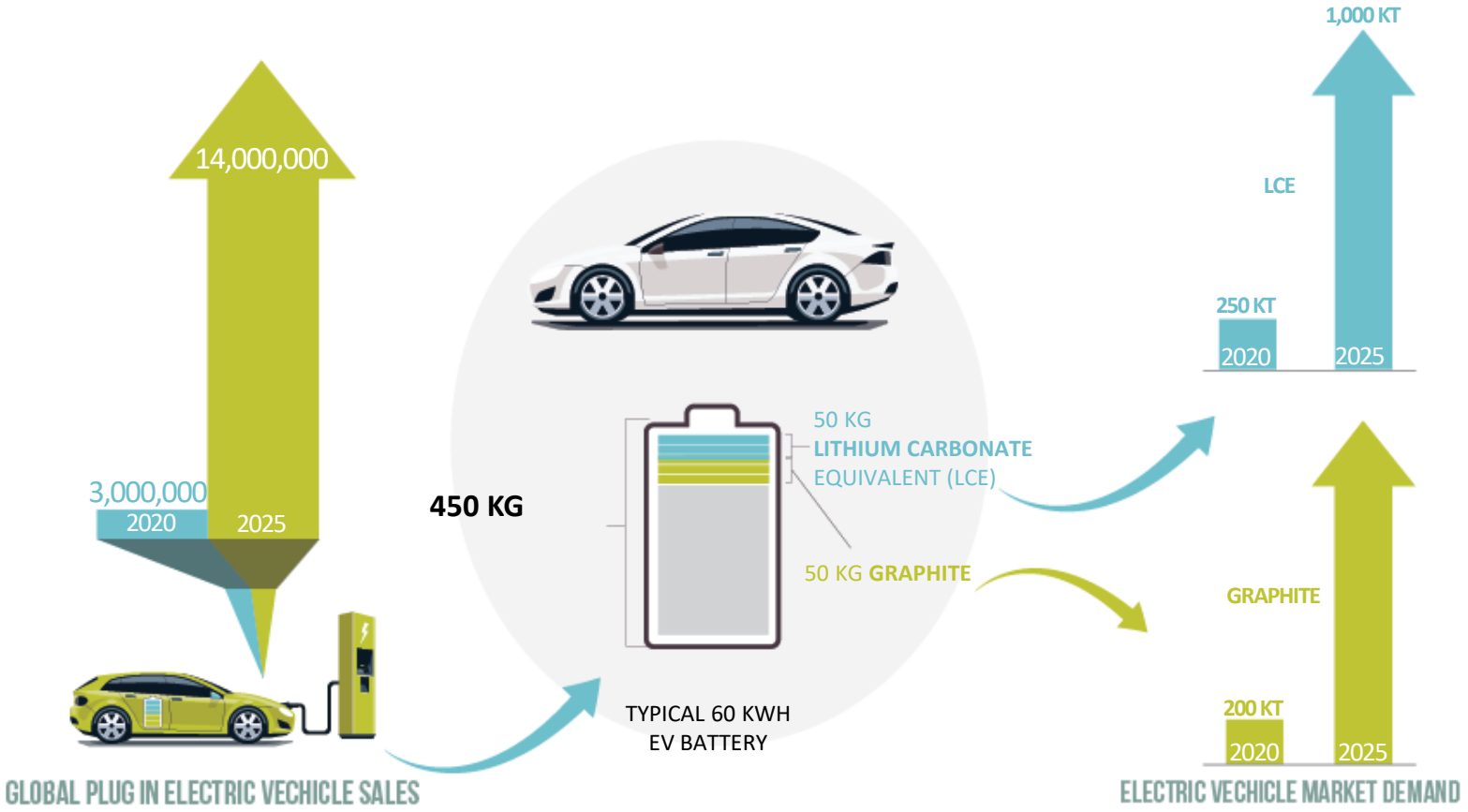
Solaroz Lithium Brine, Argentina

- Adjacent to and in same lithium brine basin as Orocobre's (ASX/TSX:ORE) lithium production project (ORE Mkt. Cap: A$2B) and Lithium Americas Corporation (NYSE/TSX:LAC)
- Large tenement package (12,000 ha)
- Argentine Lithium Brine projects among lowest on global cost curve

Burke Graphite, Queensland

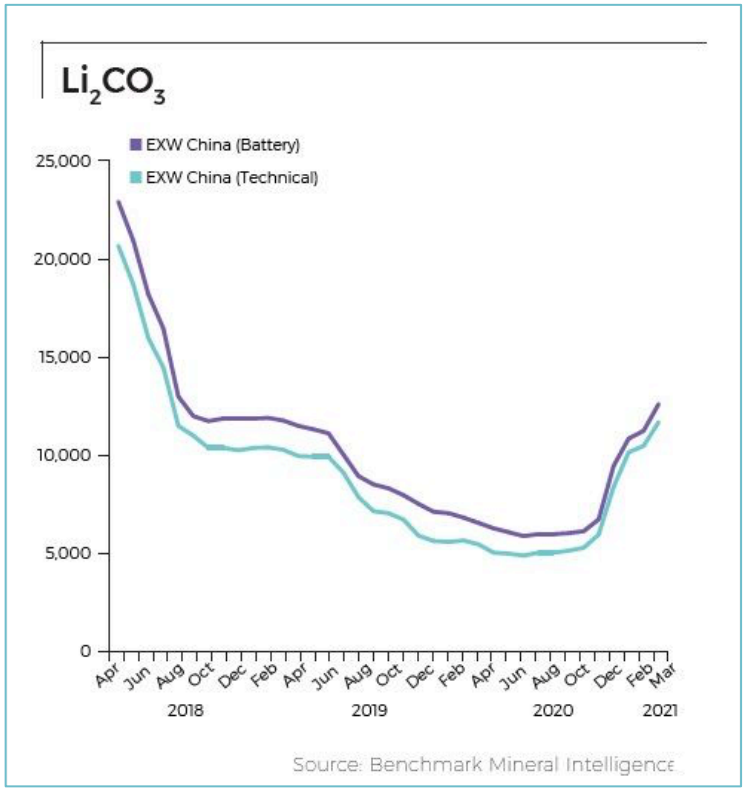
- High grade flake graphite deposit in low risk jurisdiction
- Favourable testwork results for EV applications – further test work planned
- Significant Exploration upside
- Potential downstream anode production opportunities

Growth in electric vehicle (EV) sales is leading to substantial increase in demand for **Lithium** & **Graphite**



Source: Bloomberg NEF; Orocobre

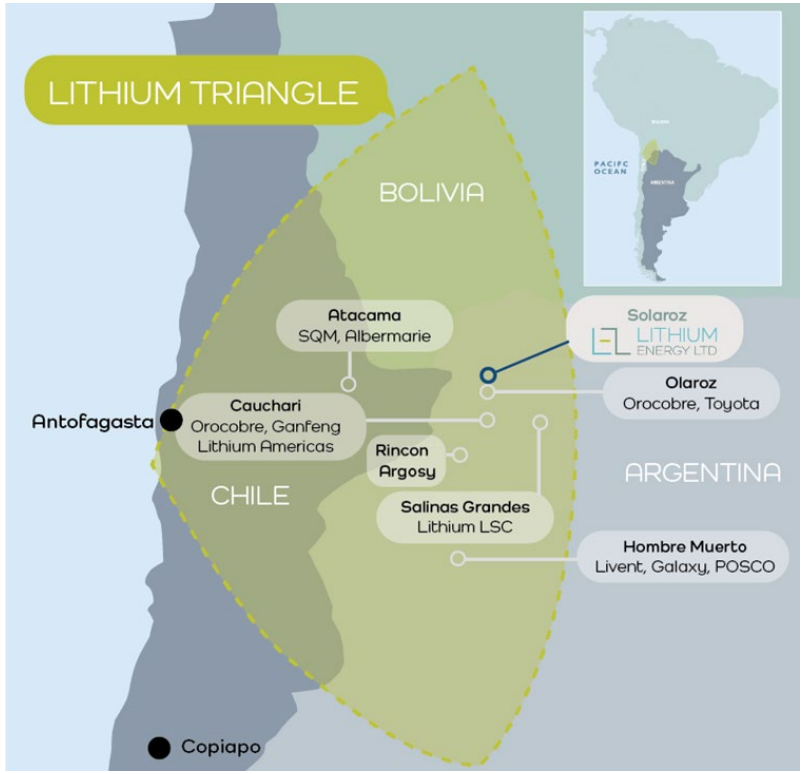
Lithium Carbonate Prices have increased over 100% since late 2020



Factors driving the increase in LCE pricing include:

- Rising global demand for EVs.
- European government subsidies – 1/3 of all new European passenger car sales are now 'alternatively' powered.
- China has invested $60 Billion to support EV industry, targeting transition to all electric/hybrid by 2035.
- US Government to build 500,000 charging stations.
- Supply deficit due to lack of investment in new mines.

Solaroz is located in the prolific **'Lithium Triangle'** in Argentina



- World's largest reserves of lithium are found in the Lithium Triangle.
- Argentina is the world's third largest producer of lithium after Australia and Chile.
- Solaroz is located in an extremely prospective part of the Lithium Triangle.
- Most of the worlds lithium supply currently comes from brine projects.
- Lithium Brine projects from Argentina are among the lowest on the LCE[1] cost curve.

[1] Lithium Carbonate Equivalent

Lithium Brine Projects have **significant advantages** when compared to hard rock lithium

Lithium Carbonate Production Process

Pump lithium brine from the salar [1]

Solar evaporation to concentrate Lithium brine in shallow ponds

Process concentrated lithium brine in a plant

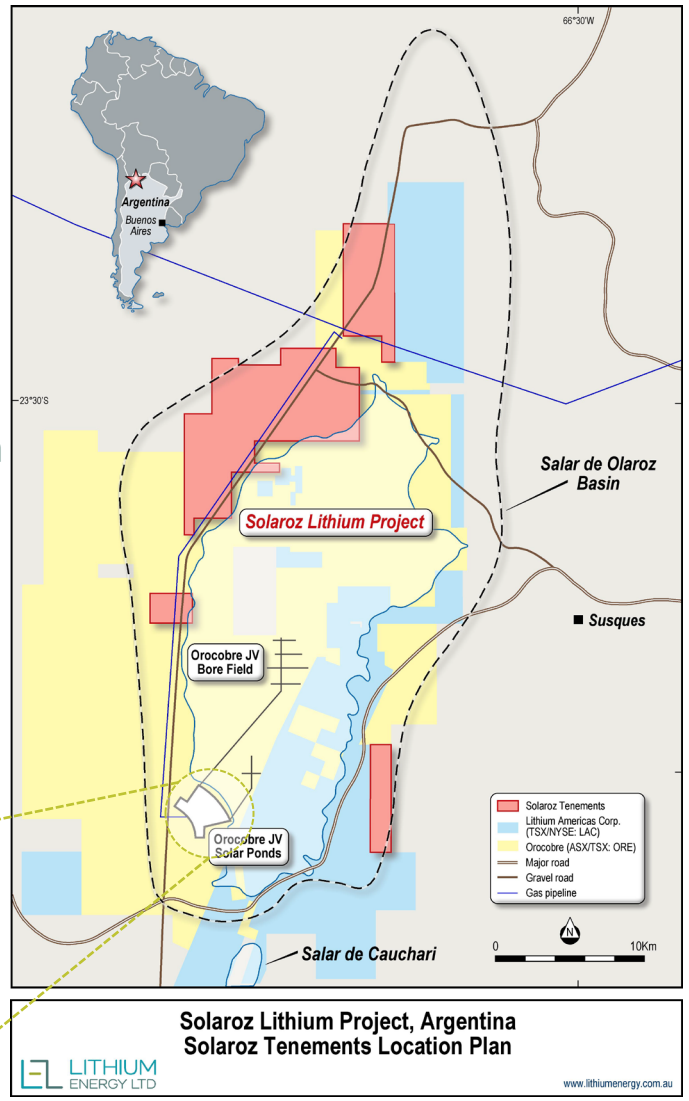
Ship lithium carbonate

Operating costs are lower | Simple production process | More Environmentally Friendly

[1] Salt flat

Solaroz (LEL 90%[1]) is located in a highly **prospective location**

- 12,000 Hectares of tenements adjacent to Orocobre (ASX/TSX:ORE, Mkt.Cap. ~A$2 Billion) and Lithium Americas Corporation (NYSE/TSX:LAC, Mkt.Cap ~US$1.7 Billion).
- ORE (Salar de Jujuy JV with Toyota Tsusho Corp.) is already a low cost, high margin producer of Lithium Carbonate from the Salar de Olaroz basin.
- LAC first production from Olaroz-Cauchari (40,000tpa) scheduled for 2022 (US$500M invested to date), with planned expansion to 60,000tpa by 2025.
- Highly favourable climatic conditions to support brine evaporation - low rainfall, high evaporation.
- Supporting infrastructure (gas, roads etc.)

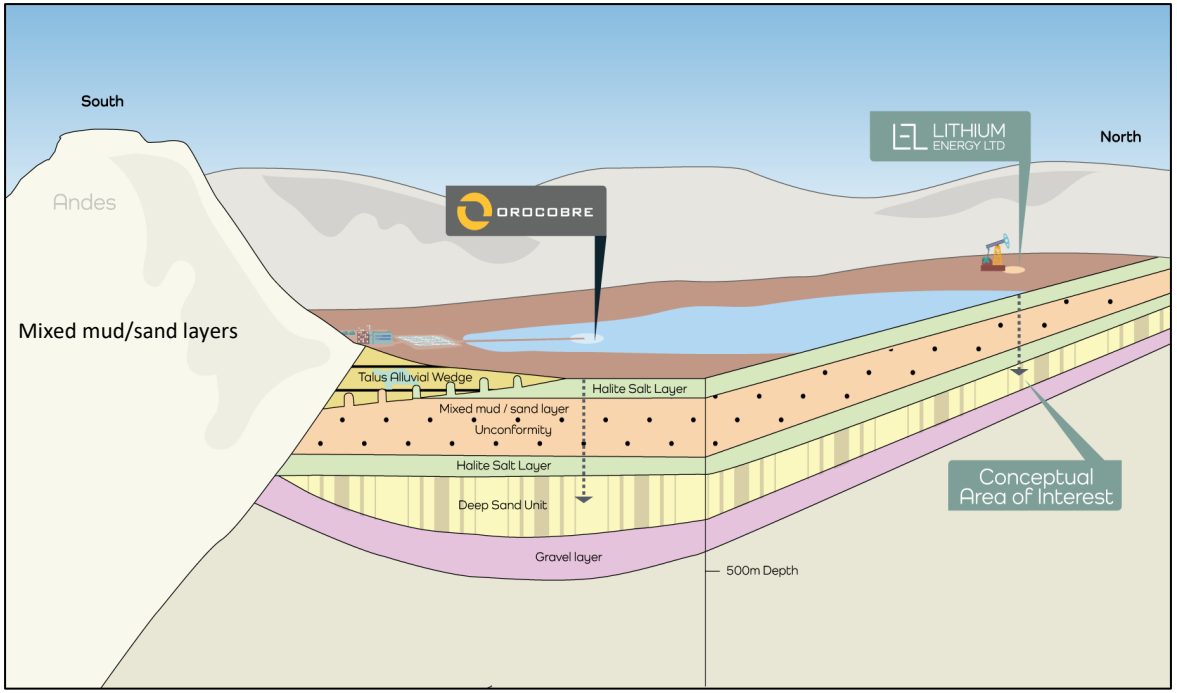


[1] 10% owned by Hanaq (Argentina)

Exploration Target of **1.5 to 8.7 Million Tonnes of LCE @ 500 – 700mg/L Li** for Solaroz[1]

(The Exploration Target's potential quantity and grade is conceptual in nature, there has been insufficient exploration to estimate a Mineral Resource, and it is uncertain if further exploration will result in the estimation of a Mineral Resource)

- Substantial Exploration Target demonstrates world class potential of Solaroz
- Detailed conceptual geological model for Solaroz now established, providing pathway to delineation of a mineral resource and project advancement
- Exploration Target provides very encouraging indication of the potential scale of mineralisation relative to published resources of neighbouring tenements held by ORE[2] and LAC within the same Salar de Olaroz Basin.

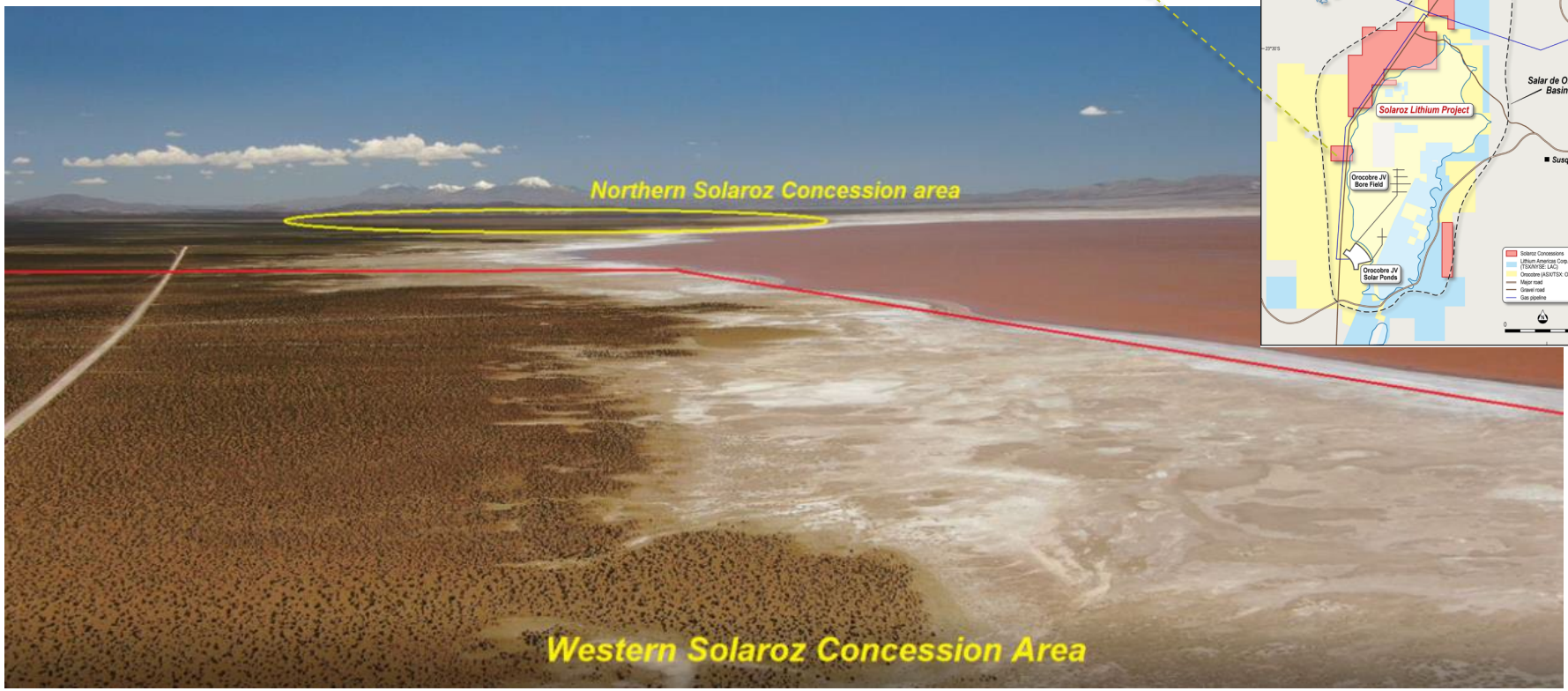


[1] LEL's ASX Announcement dated 8 June 2021: Substantial Lithium Exploration Target Identified at the Solaroz Project in Argentina
[2] Orocobre's ASX/TSX Announcement dated 1 April 2011: Increased and Upgraded Resource at Olaroz Lithium-Potash Project

The majority of the Solaroz tenements are located within 20km of Orocobre's northern bore field and within same Salar (Basin)

The tenement area is mostly flat and includes ample space for evaporation ponds

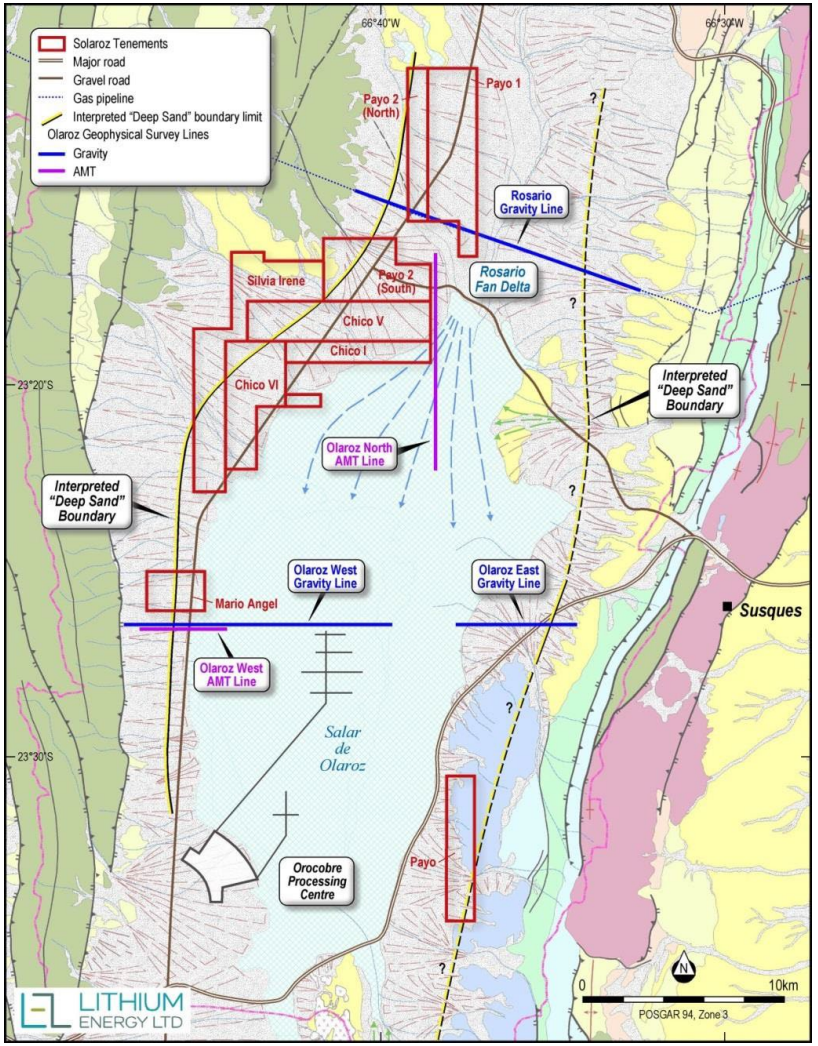
The Solaroz tenement area wraps around the NW corner of the Olaroz Salar



Interpretation of historical exploration highlights

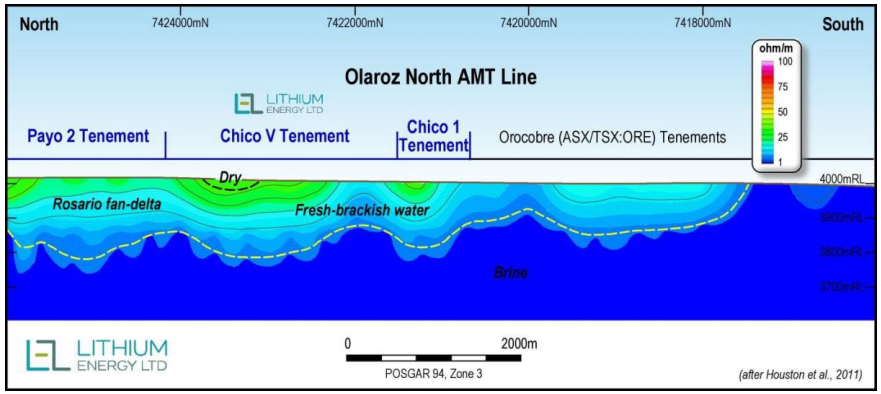
Solaroz prospectivity

- Historical Gravity and Audio-frequency Magnetotellurics (AMT) Surveys conducted by Orocobre[1] intersect or are adjacent to Solaroz tenements
  - Gravity readings assist in providing thickness of Salar sediments, and structural breaks associated with bounding faults
  - AMT and Electrical soundings, provide depth to conductive saline rich units
- Interpretation of these historical results indicates that the major lithium rich "Deep Sand Unit" targeted by Orocobre extends under Solaroz tenements



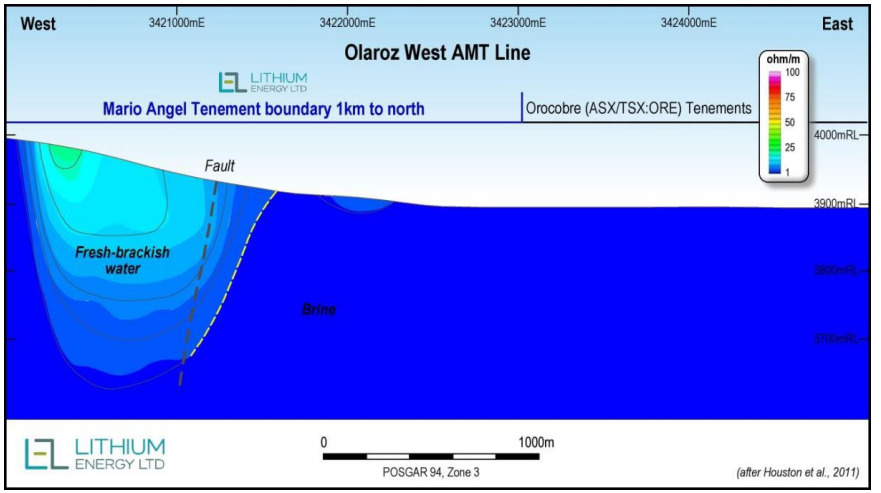
[1] Refer Orocobre Reports (available from www.Orocobre.com):
- Technical Report on the Salar De Olaroz Lithium-Potash Project, 31 January 2011 &
- Olaroz Project Large Exploration Target Defined Beneath Current Resource, 23 October 2014.

AMT Surveys in particular demonstrate potential for Lithium rich brine to extend under Solaroz tenements



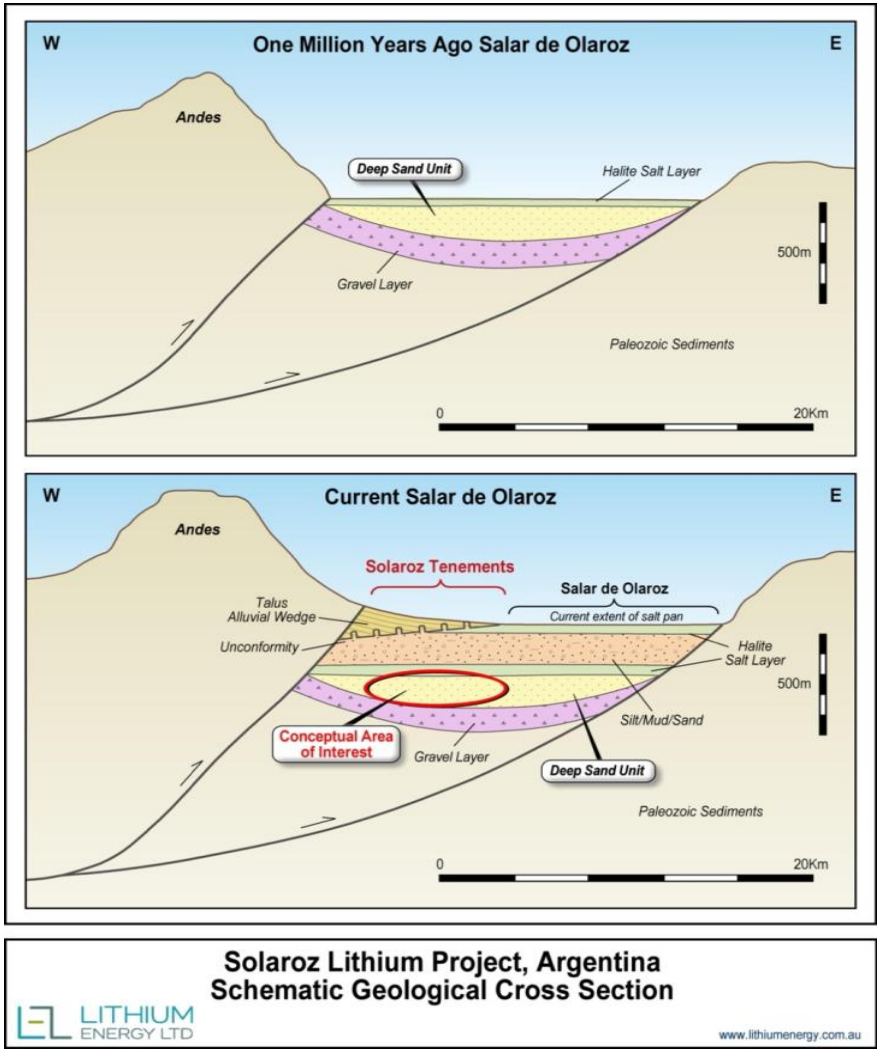
- Interpretation of North AMT Surveys shows conductive brines extending underneath Payo and Chico tenements

- Interpretation West AMT Survey shows conductive brines extending underneath Mario Angel tenement



Conceptual Geological model for Solaroz

- The Deep Sand Unit in the Salar de Olaroz Basin has accumulated lithium-rich sediments over millions of years
- Alluvial deposits have more recently encroached over the western and northern parts of the salar
- The Solaroz tenements sit on these recent alluvial deposits which overlay the Salar de Olaroz Basin and are interpreted to lie above above the lithium-rich Deep Sand Unit



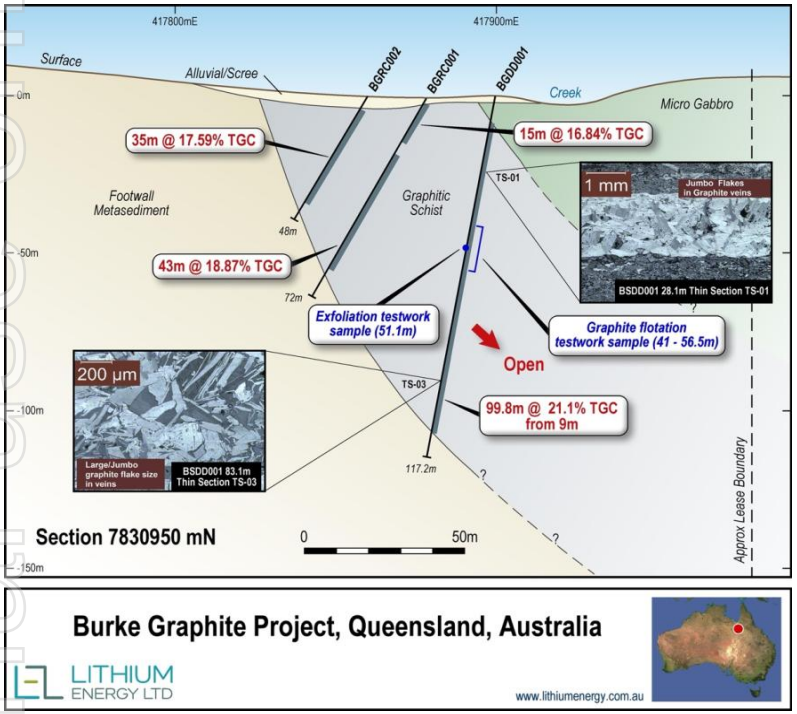
The Geological Model is conceptual in nature, there has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource.

Next Steps for Solaroz

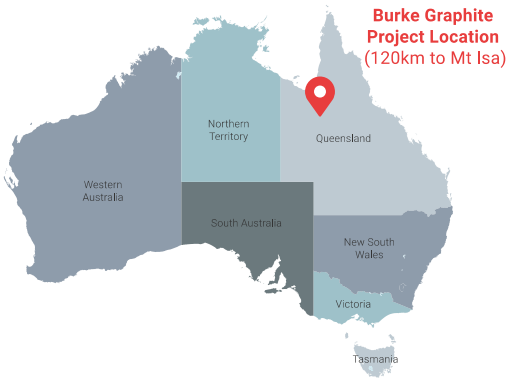
- **Environmental Impact Assessment** (EIA) pending approval by regional mining authority (Jujuy) to cover 2 year work programme including:
  - Mapping, sampling and geophysics (including Passive Seismic) to validate geological model, and select targets for drilling.
  - **Drilling** programme to confirm geometry of Olaroz basin underlying Solaroz, brine chemistry (lithium concentration etc.) and aquifer yield (porosity, flow rates etc.).
  - On-site technical support provided by **Hanaq**, Argentine local partner with strong local team, lithium development and production experience (10% interest in Solaroz)

Burke Graphite Deposit (LEL 100%), Queensland, Australia

One of the world's highest grade deposits of flake graphite



- JORC Inferred Mineral Resource **6.3 million tonnes @ 16.0%** Total Graphitic Carbon (TGC) for **1,000,000 tonnes** of contained graphite[1].
- Includes **2.3 million tonnes @ 20.6% TGC** (with a TGC cut-off grade of 18%) for **464,000 tonnes** of contained graphite.
- CSIRO testwork has confirmed suitability for use in lithium-ion batteries.
- Graphene production capability demonstrated
- Favourable jurisdiction, simple mining (shallow open pit) and good logistics.
- Further exploration potential at nearby **Corella** prospect.



[1] Refer Strike Resources Limited (ASX:SRK) ASX Announcement 13 November 2017: Maiden Mineral Resource Estimate Confirms Burke Project as one of the Worlds Highest Grade Natural Graphite Deposits

Next Steps for Burke Graphite

Testwork

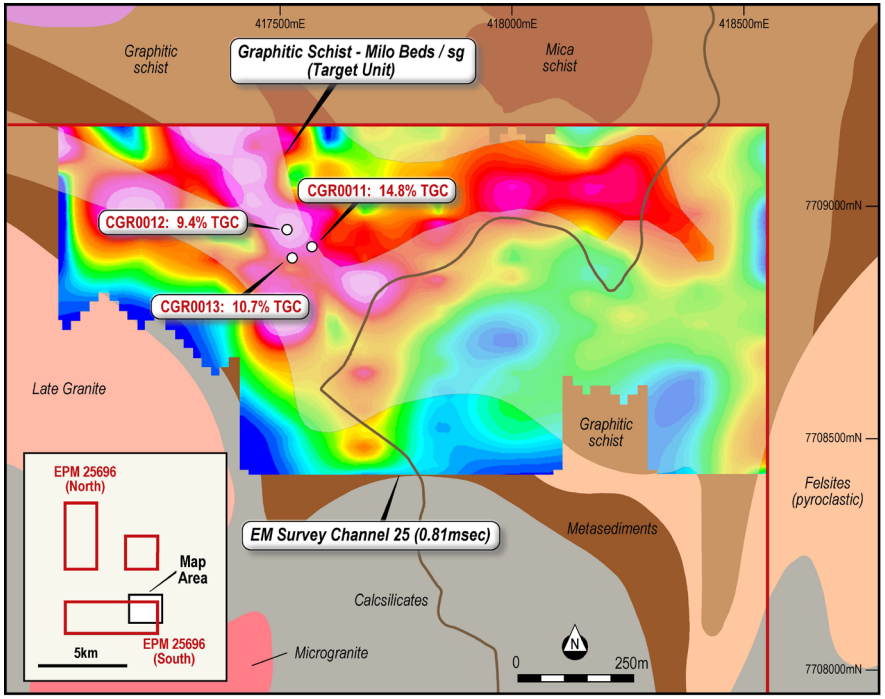
- Further testwork by CSIRO and others to provide samples to potential off-take partners

Exploration – Corella Prospect

- High Grade Graphite occurs from surface sampling at Corella prospect
- Graphite outcrops in a flat lying synform, with low strip ratio potential.
- Shallow drilling planned to provide indication of thickness, and to provide samples for Metallurgy

Downstream Production Opportunities

- Examining opportunities to capture value from local anode production and graphene related technologies



Lithium Energy Limited has a **highly experienced Board** with strong Leadership, Technical and Commercial skills

Chairman - William Johnson

MA (Oxon), MBA, MAICD

Mr Johnson holds a Masters degree in Engineering Science from Oxford University, England and a Masters Degree in Business Administration from Victoria University in Wellington, New Zealand. His 30+ year business career includes mineral exploration and investment experience in North Africa, Australia, Peru, Chile, Argentina, Saudi Arabia, Oman and Indonesia. Mr Johnson has 15 years experience of operating in Latin America, is a highly experienced public company director and has considerable depth of experience in business strategy, investment analysis, finance and execution.

Director – Peter Smith

BSc (UniSyd), AIG, ASEG

Mr Smith is a geophysicist with 30 years' experience in mineral exploration having worked for Normandy, Pasminco, BHP Billiton and several junior mining companies. He has held senior exploration manager roles, including Regional Exploration Manager Australia for Cliffs Natural Resources. Reflecting his diverse experience, Mr Smith has worked on projects in Africa, Australia, Philippines, Pakistan, USA and Peru. More importantly, he has managed projects through exploration, development then leading to production. Mr Smith is a qualified Competent Person and has memberships with the Australian Society of Exploration Geophysicists and Australian Institute of Geoscientists (AIG). He obtained a Bachelor of Science from the University of Sydney.

Director- Mr Farooq Khan

Bjuris, LLB (Western Australia)

Farooq Khan is a qualified lawyer having previously practised principally in the field of corporate law. Mr Khan has extensive experience in the securities industry, capital markets and the executive management of ASX-listed companies. In particular, Mr Khan has guided the establishment and growth of a number of public listed companies in the investment, mining and financial services sector. He has considerable experience in the fields of capital raisings, mergers and acquisitions and investments

Company Secretary- Mr Victor Ho

BCom, LLB (Western Australia), CTA

Victor Ho has been in Executive roles with a number of ASX-listed companies across the investments, resources and technology sectors over the past 21 years. Mr Ho is a Chartered Tax Adviser (CTA) and previously had 9 years' experience in the taxation profession with the Australian Tax Office (ATO) and in a specialist tax law firm. Mr Ho has been actively involved in the structuring and execution of many corporate, M&A and international (in South America, Indonesia and the Middle East) joint venture transactions, capital raisings and capital management initiatives and has extensive experience in public company administration, corporations' law and ASX compliance and investor/shareholder relations

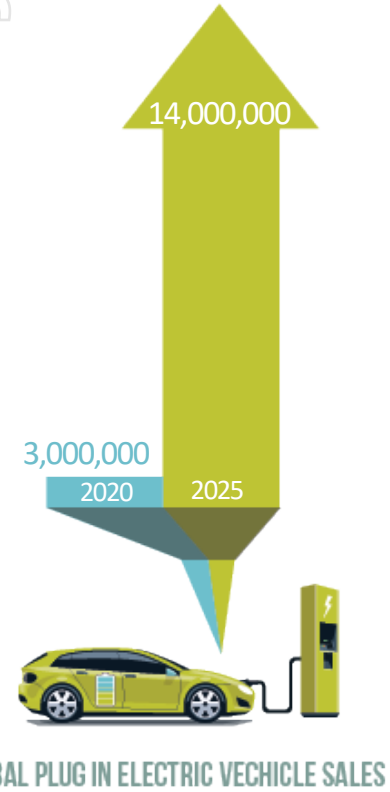
HANAQ

Argentine Partner (Solaroz 10%) – Hanaq Argentina

Hanaq is an experienced developed of Lithium Brine projects in Argentina. Hanaq has an established local office in Salta with a team of approximately 80 staff including exploration geologists, engineers, engineering and operations specialists.

Hanaq is providing local operating support and services to LEL to manage the Solaroz Project.

Summary – Lithium Energy is well positioned to take advantage of **forecast global growth** in demand for key battery minerals



Lithium

- Solaroz offers significant upside potential, given its location next to Orocobre's producing project – a great address!
- Exploration program to test geological model and define exploration target

Graphite/Graphene

- Key component on EV batteries (anode)
- Burke graphite is a high quality resource well located in low sovereign risk jurisdiction.

People

- Strong technical capability (*Peter Smith; Hanaq Argentina*) and proven leadership with extensive Latin American and commercial experience (*Chairman, William Johnson; Director Farooq Khan and CoSec/CFO Victor Ho*).

Australia

William Johnson
Executive Chairman
Lithium Energy Limited

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JORC CODE (2012) COMPETENT PERSON'S STATEMENT - Solaroz Lithium Brine Project

The information in this document that relates to Exploration Targets and other Exploration in relation to the Solaroz Lithium Brine Project (Argentina) is extracted from the following ASX market announcements made by Lithium Energy Limited on

- 8 June 2021: Substantial Lithium Exploration Target Identified at the Solaroz Project in Argentina
- 26 May 2021: Geophysical Data Supports Highly Encouraging Exploration Potential for Solaroz

The information in the original announcements is based on, and fairly represents, information and supporting documentation prepared by Mr Peter Smith, BSc (Geophysics) (Sydney) AIG ASEG. Mr Smith is a Member of The Australasian Institute of Geoscientists (AIG) and a Director of the Company. Mr Smith has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Mineral Resources and Ore Reserves" (JORC Code). The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

The Lithium Energy ASX market announcements referred to above may be viewed and downloaded from the Company's website: www.lithiumenergy.com.au or the ASX website: www.asx.com.au under ASX code "LEL".

JORC Code (2012) Competent Person Statement - Burke Graphite Project

The Competent Persons named below have been previously engaged by Strike Resources Limited (ASX:SRK) (**Strike**), the former parent company of Lithium Energy Limited (and subsidiaries) that hold the interests in the Burke Graphite Project. Lithium Energy Limited was spun out of Strike into a new ASX listing in May 2021.

The information in this announcement that relates to Mineral Resources is extracted from the following ASX market announcement made by Strike Resources Limited on:
• 13 November 2017: Maiden Mineral Resource Estimate Confirms Burke Project as One of the World's Highest Grade Natural Graphite Deposits.
The information in the original announcement (including the CSA Global MRE Technical Summary in Annexure A) that relates to in-situ Mineral Resources for the Burke Graphite Project is based on information compiled by Mr Grant Louw under the direction and supervision of Dr Andrew Scogings. Dr Scogings takes overall responsibility for this information. Dr Scogings and Mr Louw are both former employees of CSA Global Pty Ltd, who had been engaged by Strike to provide mineral resource estimate services. Dr Scogings is a Member of AIG and the Australasian Institute of Mining and Metallurgy (AusIMM) and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the JORC Code. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

The information in this announcement that relates to metallurgical test work is extracted from the following ASX market announcements made by Strike Resources Limited on:
• 16 October 2017: Test-work confirms the potential suitability of Burke graphite for Lithium-ion battery usage and Graphene production.
• 13 November 2017: Maiden Mineral Resource Estimate Confirms Burke Project as One of the World's Highest Grade Natural Graphite Deposits.
The information in the original announcements that relates to metallurgical test work is based on, and fairly represents, information and supporting documentation prepared by Mr Peter Adamini, BSc (Mineral Science and Chemistry), who is a Member of The Australasian Institute of Mining and Metallurgy (AusIMM). Mr Adamini is a full-time employee of Independent Metallurgical Operations Pty Ltd, who has been engaged by Strike Resources Limited to provide metallurgical consulting services. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

The information in this announcement that relates to Exploration Results is extracted from the following ASX market announcements made by the Strike Resources Limited on:
• 21 April 2017: Jumbo Flake Graphite Confirmed at Burke Graphite Project, Queensland.
• 13 June 2017: Extended Intersections of High-Grade Graphite Encountered at Burke Graphite Project.
• 21 June 2017: Further High-Grade Intersection Encountered at Burke Graphite Project.
• 16 October 2017: Test-work confirms the potential suitability of Burke graphite for Lithium-ion battery usage and Graphene production.
• 13 November 2017: Maiden Mineral Resource Estimate Confirms Burke Project as One of the World's Highest Grade Natural Graphite Deposits.
• 26 June 2018: Burke Graphite Project – New Target Area Identified from Ground Electro-Magnetic Surveys.
The information in the original announcements that relates to these Exploration Results is based on, and fairly represents, information and supporting documentation prepared by Mr Peter Smith, BSc (Geophysics) (Sydney) AIG ASEG, who is a Member of AIG. Mr Smith is a consultant to Strike Resources Limited (and a Director of the Company, since 18 March 2021). Mr Smith has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in JORC Code. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

The Strike ASX market announcements referred to above may be viewed and downloaded from the Company's website: www.strikeresources.com.au or the ASX website: www.asx.com.au under ASX code "SRK".