

Tuesday, 26 October 2021 ASX Code: LEL

MARKET ANNOUNCEMENT

Presentation at Canaccord Genuity South-West Connect ASX Showcase

Lithium Energy Limited (ASX:LEL) (**Lithium Energy** or the **Company**) is pleased to announce its participation in the Canaccord Genuity South-West Connect ASX Showcase, to be held on 27 and 28 October 2021 at the Abbey Beach Resort, Busselton, Western Australia.

Executive Chairman, William Johnson, will be presenting on 27 October at 10:45 am (AWST) & please find attached a copy of the presentation.

For those investors in Western Australia wanting to attend the event, register for FREE here:

https://www.southwestconnect.com.au

The event is also being livestreamed live via Zoom.

Further details of the livestream and how to register (at no cost) can be found at:

https://www.southwestconnect.com.au/livestreamswconnect

A recorded copy of the webinar will also be made available following the event and will also be posted on the Company's website: www.lithiumenergy.com.au

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.



www.lithiumenergy.com.au

LITHIUM ENERGY LIMITED

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Canaccord Genuity South-West Connect ASX Showcase | Western Australia ASX:LEL 27 & 28 October 2021

Lithium Energy (ASX:LEL) raised \$9,000,000 at IPO in May 2021 to fund the development of two highly prospective Battery Minerals projects

LITHIUM



- Adjacent to and in same lithium brine basin as Orocobre's (ASX/TSX:ORE) lithium production project (ORE Mkt. Cap: A\$5.8B) and Lithium Americas Corporation (NYSE/TSX:LAC)
- Large tenement package (12,000 ha)
- Argentine Lithium Brine projects among lowest on global cost curve



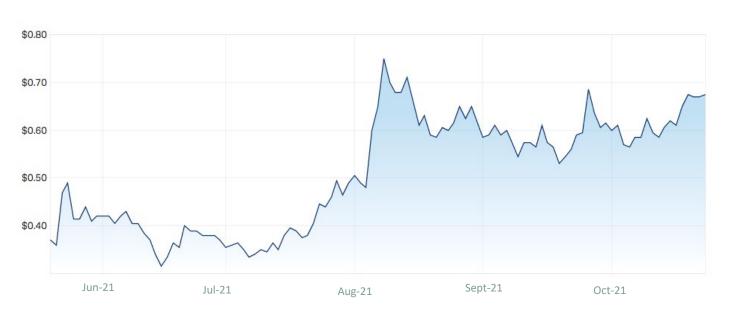


- High grade flake graphite deposit in low risk jurisdiction
- Favourable testwork results for EV applications – further test work planned
- Potential downstream anode production opportunities – proximity to emerging Townsville Battery Hub
- Significant Exploration upside



Lithium Energy Share Price and Capital Structure





Fully Paid Ordinary Shares

Options (ex. Price \$0.30)

Market Capitalisation (@ \$0.68)

Cash (as at 30 September 2021)

80,010,000

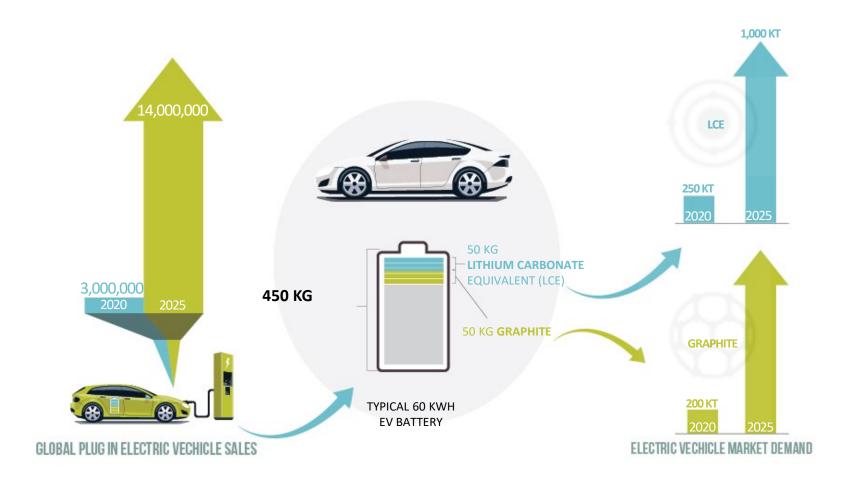
14,000,000

\$54 Million

\$7.6 Million



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

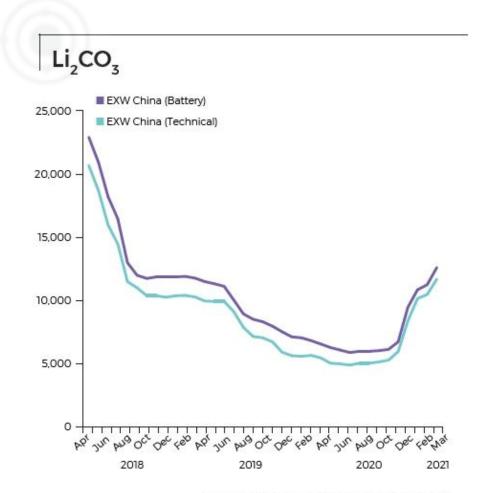


Source: Bloomberg NEF; Orocobre



Lithium Carbonate Prices have increased over 100% since late 2020





Source: Benchmark Mineral Intelligence

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.







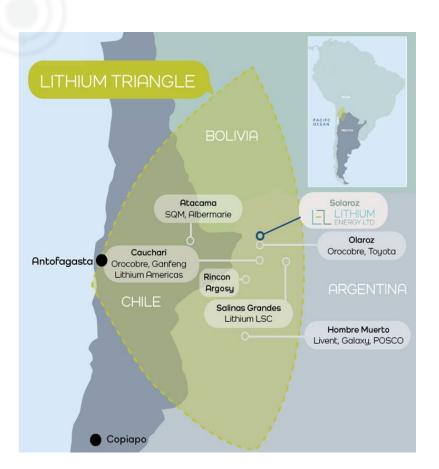
Solaroz Lithium Brine Project

Located within the Salar de Olaroz Basin in South America's 'Lithium' Triangle in northwest Argentina, the Solaroz Lithium Project (Solaroz) comprises 12,000 hectares of highly prospective lithium mineral tenements.



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 LCE¹ cost curve.



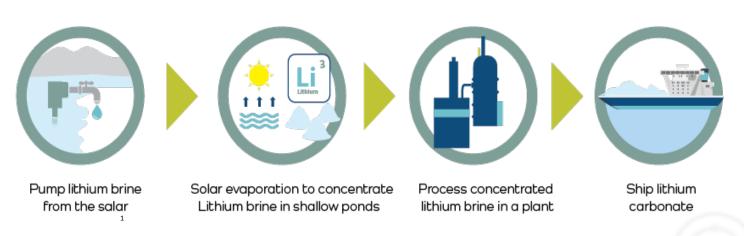
¹ Lithium Carbonate Equivalent

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



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

Lithium Carbonate Production Process



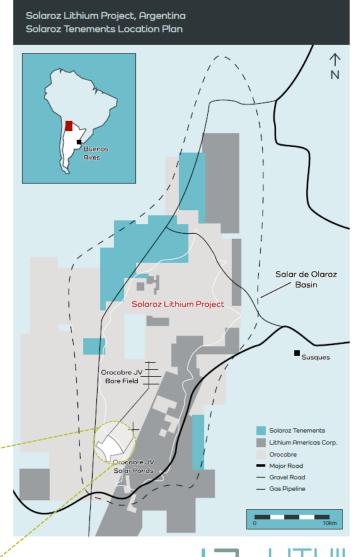


Solaroz (LEL 90%¹) is located in a highly **prospective location**

- 12,000 Hectares of tenements adjacent to Orocobre (ASX/TSX:ORE, Mkt.Cap. ~A\$5.8 Billion) and Lithium Americas Corporation (NYSE/TSX:LAC, Mkt.Cap ~US\$3.1 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.)







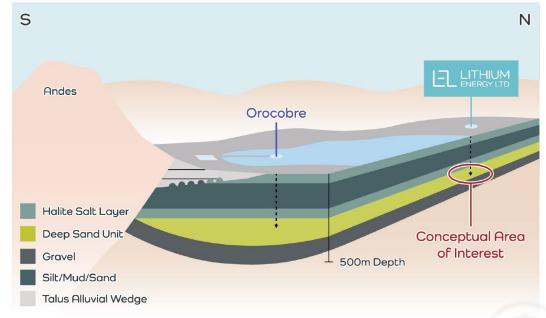
¹ 10% owned by Hanaq (Argentina)

Exploration Target of 1.5 to 8.7 Million Tonnes of LCE @ 500 – 700mg/L Li for Solaroz¹



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 ORE² and LAC within the same Salar de Olaroz Basin.



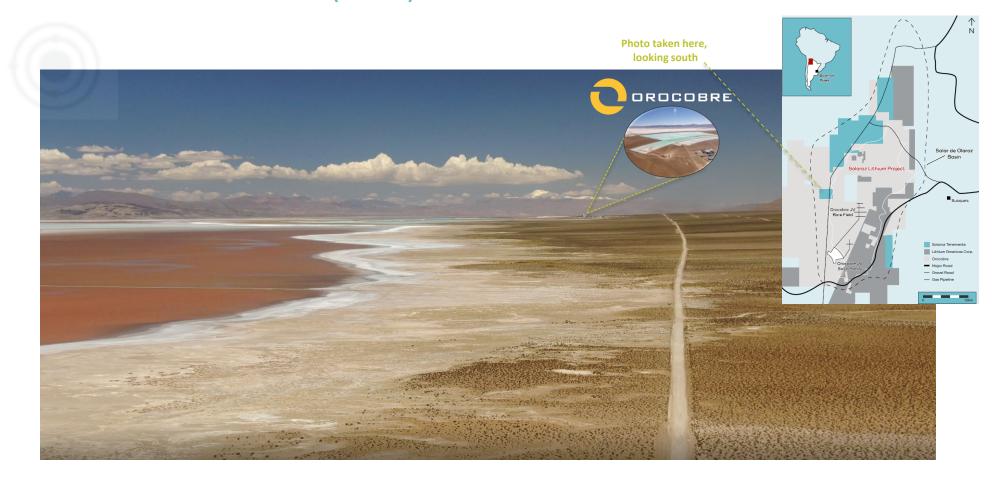


¹ LEL's ASX Announcement dated 8 June 2021: Substantial Lithium Exploration Target Identified at the Solaroz Project in Argentina

² Orocobre's ASX/TSX Announcement dated <u>1 April 2011</u>: 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)



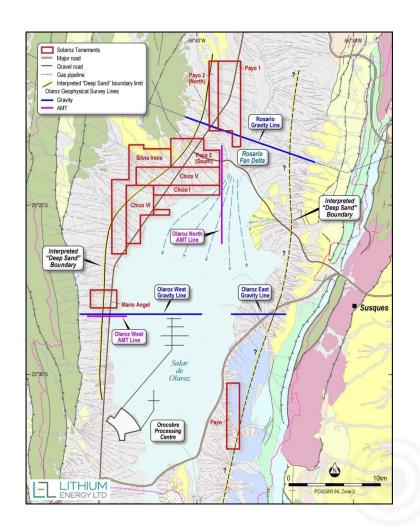




Interpretation of historical exploration highlights **Solaroz prospectivity**



- Historical Gravity and Audio-frequency
 Magnetotellurics (AMT) Surveys conducted by
 Orocobre¹ 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





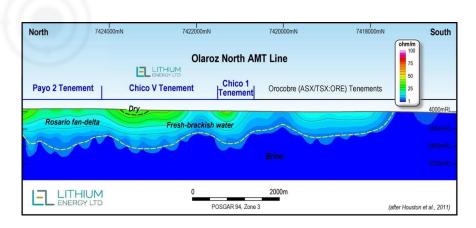
¹ Refer Orocobre Reports (available from www.Orocobre.com):

^{- &}lt;u>Technical Report on the Salar De Olaroz Lithium-Potash Project, 31 January 2011</u> &

^{- &}lt;u>Olaroz Project Large Exploration Target Defined Beneath Current Resource, 23 October 2014.</u>

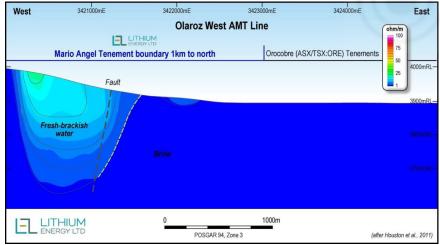
AMT Surveys in particular demonstrate potential for Lithium rich brine to extend under **Solaroz** tenements





 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





Next Steps for Solaroz

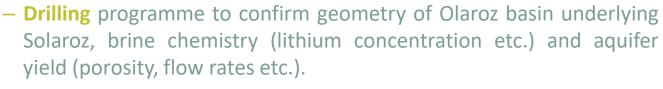




• Environmental Impact Assessment (EIA) pending approval by regional mining authority (Jujuy) to cover 2 year work programme including:



 Mapping, sampling and geophysics (including Passive Seismic) to validate geological model, and select targets for drilling.





 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 Project

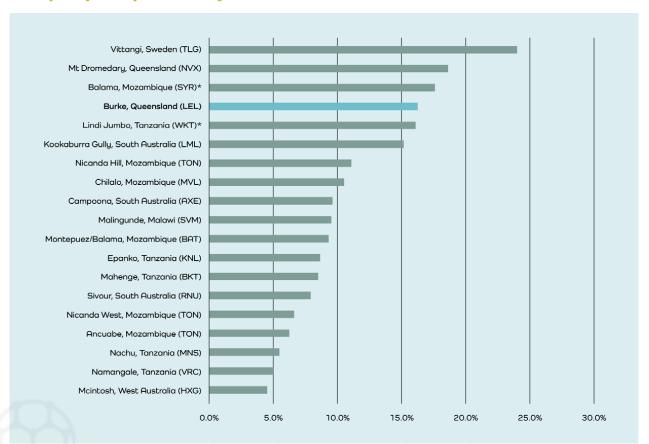
Located in Queensland the Burke Graphite Project is one of the highest-grade graphite deposits globally, with confirmed potential for Graphite and Graphene production suitable for use in lithium-ion batteries.



The Burke Graphite Project is one of the highest-grade graphite deposits globally



ASX Listed Company Graphite Projects

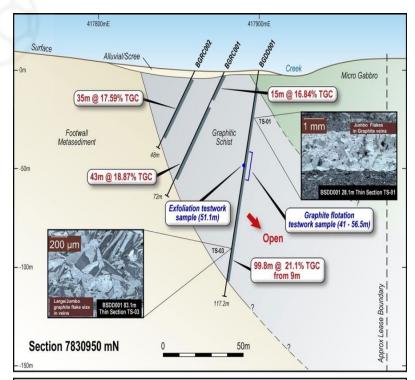


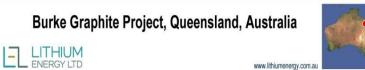
Total Graphite Content (TGC) % of published Total JORC Resource/Reserve Source: company announcements



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

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







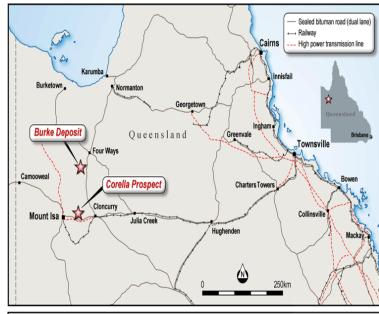
- JORC Inferred Mineral Resource 6.3 million tonnes @ 16.0% Total Graphitic Carbon (TGC) for 1,000,000 tonnes of contained graphite¹.
- Includes 2.3 million tonnes @ 20.6% TGC (with a TGC cut-off grade of 18%) for 464,000 tonnes of contained graphite.
- CSIRO testwork has confirmed suitability for use 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 <u>13 November 2017: Maiden Mineral Resource Estimate</u> Confirms Burke Project as one of the Worlds Highest Grade Natural Graphite Deposits

Purified Spherical Graphite opportunity Burke Graphite



- Purified Spherical Graphite (PSG) is used as anode material for lithium-ion batteries
- The demand for PSG is set to increase ten-fold over the next decade.
- Most PSG comes from China using highly toxic ingredients for purification
- Opportunity exists for meeting expected demand growth from environmentally sustainable PSG production from Australia.
- Australia has strong technical capabilities together with a range of Government funded initiatives such as the Future Battery Industries Cooperative Research Centre (CRC)
- Burke Deposit is ideally located close to Townsville, where Townsville Energy Chemicals Hub (TECH) is being considered as a center for battery production.







Next Steps for Burke Graphite

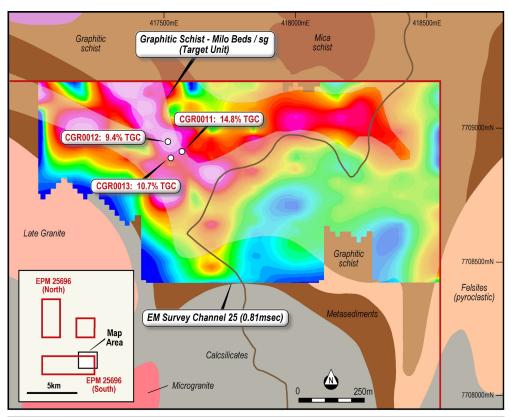


Testwork and Studies

- Further testwork by CSIRO and others to provide samples to potential offtake partners
- Studies for PSG manufacturing facility

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







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 (UniSvd), 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 Faroog 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





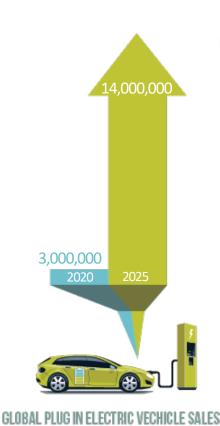
Argentine Partner (Solaroz 10%) – Hanaq Argentina

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 and funded 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 close to emerging Townsville battery hub

People

• Strong technical capability (*Peter Smith; Hanaq Argentina*) and proven leadership with extensive Latin American and commercial experience (*Chairman - William Johnson, Director - Faroog Khan, Company Secretary & CFO - Victor Ho*).

Uniquely positioned and ready for the global energy transformation



Australia

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Lithium Energy Limited

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ABOUT THIS DOCUMENT

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FORWARD LOOKING STATEMENTS

This document contains "forward-looking statements" and "forward-looking information", including statements and forecasts which include without limitation, expectations regarding future performance, costs, production levels or rates, mineral reserves and resources, the financial position of the Company, industry growth and other trend projections. Often, but not always, forward-looking information can be identified by the use of words such as "plans", "expects", "is expected", "is expecting", "budget", "scheduled", "estimates", "forecasts", "intends", "anticipates", or "believes", or variations (including negative variations) of such words and phrases, or state that certain actions, events or results "may", "could", "would", "might", or "will" be taken, occur or be achieved. Such information is based on assumptions and judgements of management regarding future events and results. The purpose of forward-looking information is to provide the audience with information about management's expectations and plans. Readers are cautioned that forward-looking information involves known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of the Company and/or its subsidiaries to be materially different from any future results, performance or achievements expressed or implied by the forward-looking information. Such factors include, among others, changes in market conditions, future prices of minerals/commodities, the actual results of current production, development and/or exploration activities, changes in project parameters as plans continue to be refined, variations in grade or recovery rates, plant and/or equipment failure and the possibility of cost overruns.

Forward-looking information and statements are based on the reasonable assumptions, estimates, analysis and opinions of management made in light of its experience and its perception of trends, current conditions and expected developments, as well as other factors that management believes to be relevant and reasonable in the circumstances at the date such statements are made, but which may prove to be incorrect. The Company believes that the assumptions and expectations reflected in such forward-looking statements and information are reasonable. Readers are cautioned that the foregoing list is not exhaustive of all factors and assumptions which may have been used. The Company does not undertake to update any forward-looking information or statements, except in accordance with applicable securities laws.



JORC CODE COMPETENT PERSON'S STATEMENTS

JORC Code (2012) Competent Person Statement – Solaroz Lithium Project (Argentina)

The information in this release that relates to Exploration Targets and Exploration Results in relation to the Solaroz Lithium Project is extracted from the following ASX market announcements made by Lithium Energy dated:

- 8 June 2021 entitled "Substantial Lithium Exploration Target Identified at the Solaroz Project in Argentina"
- 26 May 2021 entitled "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 and compiled by Mr Peter Smith (BSc (Geophysics) (Sydney) AIG ASEG). Mr Smith is a Member of the Australian Institute of Geoscientists (AIG) and a Director of the Company. Mr Smith has the requisite 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 Exploration Results, Mineral Resources and Ore Reserves' (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 announcements (referred to above). 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 (referred to above).

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

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.

- (a) The information in this release that relates to Mineral Resources in relation to the Burke Graphite Project is extracted from the following ASX market announcement made by Strike dated:
 - 13 November 2017 entitled "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 these Mineral Resources 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. At the time of the Mineral Resource estimation, Dr Scogings and Mr Louw were employees of CSA Global Pty Ltd, who had been engaged by Strike to provide Mineral Resource estimate services. Dr Scogings is a Member of AlG (and at the time of the Mineral Resource estimation, also a member of the Australian 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 2012 Edition of 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 (referred to above). 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 (referred to above).

- (b) The information in this release that relates to metallurgical test work results in relation to the Burke Graphite Project is extracted from the following ASX market announcements made by Strike dated:
 - 16 October 2017 entitled "Test-work confirms the potential suitability of Burke graphite for lithium-ion battery usage and Graphene production".
 - 13 November 2017 entitled "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 these metallurgical test work matters 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 AusIMM. Mr Adamini is a full-time employee of Independent Metallurgical Operations Pty Ltd, who had been engaged by Strike to provide metallurgical consulting services. Mr Adamini has the requisite 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 (2012). 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 (referred to above). 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 (referred to above).



JORC CODE COMPETENT PERSON'S STATEMENTS (CONTINUED)

- (c) The information in this release that relates to Exploration Results in relation to the Burke Graphite Project is extracted from the following ASX market announcements released by:
 - (i) Lithium Energy dated:
 - 27 September 2021 entitled "High Grade Burke Graphite to be Optimised for Lithium Battery Application"
 - 9 July 2021 entitled "Graphene from Burke Graphite Project Opens Up Significant Lithium-Ion Battery Opportunity".
 - (ii) Strike dated:
 - 21 April 2017 entitled "Jumbo Flake Graphite Confirmed at Burke Graphite Project, Queensland"
 - 13 June 2017 entitled "Extended Intersections of High-Grade Graphite Encountered at Burke Graphite Project".
 - 21 June 2017 entitled "Further High-Grade Intersection Encountered at Burke Graphite Project"
 - 16 October 2017 entitled "Test-work confirms the potential suitability of Burke graphite for lithium-ion battery usage and Graphene production".
 - 13 November 2017 entitled "Maiden Mineral Resource Estimate Confirms Burke Project as One of the World's Highest-Grade Natural Graphite Deposits".
 - 26 June 2018 entitled "Burke Graphite Project New Target Area Identified from Ground Electro-Magnetic Surveys"

The information in the original announcements is based on, and fairly represents, information and supporting documentation prepared and compiled by Mr Peter Smith (BSc (Geophysics) (Sydney) AIG ASEG). Mr Smith is a Member of AIG, a consultant to Strike and also a Director of the Company (since 18 March 2021). Mr Smith has the requisite 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 (2012). 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 (referred to above). 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 (referred to above).

Lithium Energy's ASX Announcements may be viewed and downloaded from the Company's website: <u>www.lithiumenergy.com.au</u> or the ASX website: <u>www.asx.com.au</u> under ASX code "LEL".

Strike's ASX Announcements 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".

