

## ASX ANNOUNCEMENT

12 October 2023

### Chairman's Address to Shareholders at Annual General Meeting

It has been another successful year for Lithium Energy Limited, and our team has been relentless in pursuit of the goal to contribute to the global energy transition. We have materially progressed the pathway to development across our significant mining project assets.

Among our achievements, are the following:

- Announcement of the initial maiden JORC Inferred Mineral Resource Estimate (**MRE**) of 3.3 Million tonnes of Lithium Carbonate Equivalent (**LCE**) at the Solaroz Lithium Brine Project in Argentina.
- Commencement of a Scoping Study for the production of battery grade lithium carbonate from the lithium rich brines at Solaroz.
- Agreement with Lanshen to construct a battery grade lithium Direct Lithium Extraction (**DLE**) demonstration plant at Solaroz.
- Doubling of the Company's Total Graphite Inventory at the Burke and Corella Projects to 2.6Mt of contained graphite.
- Commencement of a Pre-Feasibility Study to manufacture high value Battery Anode precursor material in Australia.
- Two successful capital raisings completed in September 2022 (\$15 million) and June 2023 (\$6.4 million).

This outstanding list of achievements would not have been possible without the efforts of our experienced team and their dedication and commitment to developing our assets into Tier-1 Projects.

We are proud to have demonstrated an unwavering commitment to sustainability and social responsibility, including implementing a number of innovative and rewarding social programmes with local communities in Argentina.

Lithium Energy is uniquely positioned in that it is one of the very few companies which offers investors exposure to the two most important ingredients used in EV batteries - lithium and graphite.

Lithium (which is part of the cathode in a lithium-ion battery) is the lightest of all metals, with the greatest electrochemical potential and largest specific energy per weight.

Graphite is also an essential component of lithium-ion batteries making up the anode in these batteries and can typically represent 50% by weight of material in a battery.

We believe that our advanced quality lithium and graphite assets make Lithium Energy uniquely positioned to take advantage of the global energy transformation.

We are proud of the ongoing efforts of our staff, management and technical team as we progress rapidly towards development.

We thank our shareholders for their support and look forward to keeping you informed on the Company's progress as we move rapidly towards development and to the exciting year ahead.

**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 and Corella Graphite Projects in Queensland. The Solaroz Lithium Project (LEL:90%) comprises 12,000 hectares of highly prospective lithium mineral concessions (where an initial JORC Inferred Mineral Resource of lithium has been delineated) located strategically within the Salar de Olaroz Basin in South America's "Lithium Triangle" in north-west Argentina. Lithium Energy shares the lithium rights in the Olaroz Salar basin with lithium carbonate producers Allkem Limited (ASX/TSX:AKE) and Lithium Argentina (TSX:LAAC). The Burke and Corella Graphite Deposits (LEL:100%) in Queensland, Australia, contains high grade JORC Indicated and Inferred Mineral Resources of graphite; Lithium Energy is undertaking a Prefeasibility Study on a proposed vertically integrated battery anode material manufacturing facility in Queensland.

**JORC CODE COMPETENT PERSONS' STATEMENTS**

- (1) The information in this document that relates to Mineral Resources estimates (dated June 2023) in relation to the Solaroz Lithium Brine Project is extracted from the following ASX market announcements made by Lithium Energy Limited dated:
- 29 June 2023 entitled "Significant Maiden JORC Lithium Resource of 3.3Mt LCE at Solaroz Project in Argentina"

The information in the original announcement is based on information compiled by Mr Murray Brooker (MAIG, MIAH), a Competent Person who is a Member of the Australian Institute of Geoscientists (AIG). Mr Brooker is an employee of Hydrominex Geoscience Pty Ltd, an independent consultant to Lithium Energy Limited. Mr Brooker has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken 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 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).

- (2) The information in this document that relates to Mineral Resources in relation to the Burke and Corella Graphite Projects is extracted from the following ASX market announcements made by Lithium Energy Limited dated:
- 16 June 2023 entitled "Maiden Corella Graphite Mineral Resource Delivers Doubling of Graphite Inventory"
  - 5 April 2023 entitled "Burke Graphite Mineral Resource Upgrade Delivers Significant Increases in Size and Confidence"

The information in the original announcements is based on information compiled by Mr Shaun Searle, a Competent Person who is a Member of AIG. Mr Searle is an employee of Ashmore Advisory Pty Ltd, an independent consultant to Lithium Energy Limited. Mr Searle has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken 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 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).

## MINERAL RESOURCE ESTIMATES

### Solaroz Lithium Brine Project (Argentina)

(90%)

Lithium Energy has delineated an initial maiden JORC Inferred Mineral Resource Estimate (MRE) of **3.3Mt of LCE** (as outlined Table 1). Within the 3.3Mt LCE Resource, there is a **high-grade core of 1.34Mt of LCE** with an average concentration of **405 mg/l lithium** (at a 350 mg/l lithium cut-off grade) (as outlined in Table 2).

**Table 1: Solaroz JORC Inferred Mineral Resource Estimate**

Lithology Units	Sediment Volume m <sup>3</sup>	Specific Yield %	Brine volume		Lithium (Li)			LCE Tonnes
			m <sup>3</sup>	Litres	mg/l	grams	Tonnes	
A (Upper Aquifer)	8,290,800,000	13.0	1,077,804,000	1,077,804,000,000	255	274,840,020,000	274,840	1,460,000
B (Halite Salt Unit)	1,968,600,000	4.0	78,744,000	78,744,000,000	345	27,166,680,000	27,167	140,000
C (Lower Aquifer)	7,584,000,000	11.5	872,160,000	872,160,000,000	374	326,187,840,000	326,188	1,730,000
<b>Total</b>	<b>17,843,400,000</b>	<b>11.4</b>	<b>2,028,708,000</b>	<b>2,028,708,000,000</b>	<b>310</b>	<b>628,194,540,000</b>	<b>628,195</b>	<b>3,330,000</b>

Notes:

- (a) This Mineral Resource Estimate encompasses the Mario Angel, Chico I, Chico V, Chico VI, Payo 2 South and Silvia Irene concessions
- (b) Lithium (Li) is converted to lithium carbonate (Li<sub>2</sub>CO<sub>3</sub>) equivalent (LCE) using a conversion factor of 5.323
- (c) Totals may differ due to rounding
- (d) Reported at a zero Lithium mg/l cut-off grade

**Table 2: High-Grade Core within Solaroz JORC Inferred Mineral Resource Estimate**

Lithology Units	Sediment Volume m <sup>3</sup>	Specific Yield %	Brine volume		Lithium (Li)			LCE Tonnes
			m <sup>3</sup>	Litres	mg/l	grams	Tonnes	
A	325,000,000	13.0	42,250,000	42,250,000,000	376	15,886,000,000	16,000	85,000
B	690,400,000	4.0	27,616,000	27,616,000,000	379	10,466,464,000	10,000	56,000
C	4,787,600,000	11.5	550,574,000	550,574,000,000	408	224,634,192,000	225,000	1,195,000
<b>Total</b>	<b>5,803,000,000</b>	<b>10.7</b>	<b>620,440,000</b>	<b>620,440,000,000</b>	<b>405</b>	<b>250,986,656,000</b>	<b>251,000</b>	<b>1,340,000</b>

Notes:

- (a) The high-grade core is a JORC Inferred Mineral Resource estimated within the mineralisation envelope of (not in addition to) the Mineral Resource Estimate outlined in Table 1 (above)
- (b) Reported at a 350 mg/l Lithium cut-off grade
- (c) Refer Notes (b) and (c) of Table 1 (above)

For further details, refer to the Company's ASX Announcement dated 29 June 2023 entitled "Significant Maiden JORC Lithium Resource of 3.3Mt LCE at Solaroz Project in Argentina".

### Burke Graphite Project (Queensland, Australia)

(100%)

An infill drilling programme (completed in January 2023)<sup>1</sup> on the Burke Tenement has delivered a significant increase in the size and confidence of the JORC Mineral Resource Estimate (**Burke Deposit**):

- **Total Mineral Resource of 9.1Mt at 14.4% Total Graphitic Carbon (TGC)** for a total of **1.3Mt contained graphite** (at a 5% TGC cut-off grade), comprising:
  - **Indicated Mineral Resource of 4.5Mt at 14.7% TGC** for **670kt of contained graphite**; and
  - **Inferred Mineral Resource of 4.5Mt at 14.2% TGC** for **640kt of contained graphite**.
- Within the mineralisation envelope there is included a higher grade **Total Mineral Resource of 7.1Mt at 16.2% TGC for 1.1Mt of contained graphite** (at a 10% TGC cut-off grade).<sup>2</sup>

Mineral Resource Category	Weathering State	Resource (Mt)	Total Graphitic Carbon (TGC) (%)	Contained Graphite (kt)
Indicated Mineral Resource	Weathered	0.2	12.5	30
	Primary	4.3	14.8	640
	<b>Sub-total</b>	<b>4.5</b>	<b>14.7</b>	<b>670</b>
Inferred Mineral Resource	Weathered	0.1	8.1	10
	Primary	4.4	14.4	630
	<b>Sub-total</b>	<b>4.5</b>	<b>14.2</b>	<b>640</b>
Total Indicated and Inferred Mineral Resource	Weathered	0.3	11.1	40
	Primary	8.7	14.6	1,270
	<b>Total</b>	<b>9.1</b>	<b>14.4</b>	<b>1,310</b>

Notes:

- Mineral Resource estimates are reported above a cut-off grade of 5% TGC; Mineral Resources reported on a dry in-situ basis; Totals may differ due to rounding.
- For further details, refer to LEL ASX Announcement dated 5 April 2023 entitled "Burke Graphite Mineral Resource Upgrade Delivers Significant Increases in Size and Confidence"

### Corella Graphite Project (Queensland, Australia)

(100%)

A maiden resource definition drilling programme (completed in April 2023<sup>3</sup>) on the Corella Tenement has delivered a maiden JORC Inferred Mineral Resource Estimate (**Corella Graphite Deposit**):

- Inferred Mineral Resource delivers **13.5Mt at 9.5% TGC** for **1.3Mt contained graphite** (at a 5% TGC cut-off grade).
- Within the mineralisation envelope, there is included a higher grade Inferred Mineral Resource of **4.5Mt at 12.7% TGC** for 0.57Mt of contained graphite (at a 10% TGC cut-off grade).<sup>4</sup>

Mineral Resource Category	Weathering State	Resource (Mt)	TGC (%)	Contained Graphite (kt)
Inferred Mineral Resource	Weathered	4.5	9.7	440
	Primary	9.0	9.3	840
	<b>Total</b>	<b>13.5</b>	<b>9.5</b>	<b>1,280</b>

Notes:

- Mineral Resource estimates are reported above a cut-off grade of 5% TGC; Mineral Resources reported on a dry in-situ basis; Totals may differ due to rounding.
- For further details, refer to LEL ASX Announcement dated 16 June 2023 entitled "Maiden Corella Graphite Mineral Resource Delivers Doubling of Graphite Inventory"

1 Refer LEL ASX Announcements dated 22 February 2023: Update – Infill Drilling Results at Burke Graphite Deposit and 16 February 2023: Significant High Grade Graphite Intercepts Continue at Burke Graphite Deposit

2 Refer Mineral Resource estimates at different %TGC cut-off grades reported in Table 2 of LEL ASX Announcement dated 5 April 2023: Burke Graphite Mineral Resource Upgrade Delivers Significant Increases in Size and Confidence

3 Refer LEL ASX Announcements dated 17 April 2023: Completion of Drilling Programme at Corella Graphite Prospect and 2 June 2023: Significant High Grade Graphite Discovery at the Corella Project

4 Refer Mineral Resource estimates at different %TGC cut-off grades reported in Table 3 of LEL ASX Announcement 16 June 2023: Maiden Corella Graphite Mineral Resource Delivers Doubling of Graphite Inventory