



121 Frankfurt Conference

Rapidly Developing the Goulamina Lithium Project in Mali

Simon Hay Managing Director

DISCLAIMER



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ORE RESERVES AND MINERAL RESOURCES REPORTING AND EXPLORATION RESULTS

The information in this presentation that relates to production targets, Mineral Resources and Ore Reserves is extracted from the Company's replacement prospectus dated 6 May 2022 (Prospectus) which is available at leolithium.com.

Information relating to exploration results is extracted from the Company's ASX announcement on 3 November 2022 (Drilling Announcement). The Company confirms that all material assumptions underpinning the production targets,

Mineral Resources and Ore Reserve estimates in the Prospectus continue to apply and have not materially changed and it is not aware of any new information or data that materially affects the information included in the Prospectus or Drilling

Announcement.

ASX RELEASES

Investors are advised that by their nature as visual aids, presentations provide information in summary form. The key information on the Company and its projects can be found in the Prospectus.

FORWARD LOOKING AND CAUTIONARY STATEMENTS

This announcement 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 the pre-feasibility and feasibility studies, the Company's business strategy, plan, development, objectives, performance, outlook, growth, cash flow, projections, targets and expectations, mineral resources, results of exploration and relations expenses. Persons reading this presentation 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 exploration activities; conclusions of economic evaluations; changes in project parameters as plans continue to be refined; future prices of lithium, gold and other metals; possible variations of ore grade or recovery rates; failure of plant, equipment or processes to operate as anticipated; accident, labour disputes and other risks of the mining 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.

These and other factors should be considered carefully, and readers should not place undue reliance on such forward-looking information. Past performance should not be relied upon as being indicative of future performance. The Company disclaims any intent or obligations to revise any forward-looking statements whether as a result of new information, estimates, or options, future events or results or otherwise, unless required to do so by law. Statements regarding plans with respect to the Company's mineral properties may contain forward-looking statements in relation to future matters that can be only made where the Company has a reasonable basis for making those statements. Competent Person Statements regarding plans with respect to the Company's mineral properties are forward looking statements. There can be no assurance that the Company will be able to confirm the presence of mineral deposits, that any mineralisation will prove to be economic or that a mine will successfully be developed on any of the Company's mineral properties.

GOULAMINA HIGHLIGHTS



Next lithium project of significant scale to enter production with outstanding economics



Amongst the world's largest spodumene projects

- Annual production of 506ktpa spodumene concentrate, increasing up to 831ktpa1 Stage 2
- Large scale, high grade orebody with exploration upside
- Current Mineral Resource 108 Mt at 1.45% $\rm Li_2O$ and Ore Reserve of 52Mt at 1.51% $\rm Li_2O$



Excellent financial metrics with NPV of US\$2.9 billion¹

- Stage 1 capital cost of just US\$255m
- Cash cost of production US\$312/dmt of spodumene (FOB, LOM, Stage 2)



World class partner Ganfeng; project substantially funded to production

- Ganfeng is China's largest lithium chemical producer
- US\$170 million in funding provider
- Offtake secured for Stage 1

CORPORATE PROFILE



- Leo Lithium is a pure-play lithium developer listed on ASX
- Major shareholder Firefinch 17.6%, escrowed until June 2024¹
- JV partnership with Ganfeng Lithium, at asset level
- Leo has A\$71.5m in cash plus ~US\$125m in cash in the JV vehicle²

LLL TRADING HISTORY SINCE LISTING



CAPITAL STRUCTURE

利 1,197.6 船 million

SHARES ON ISSUE



CASH (at 30-Sep-22)
Excludes cash held in the

MARKET DATA (ASX: LLL)



A\$0.59

SHARE PRICE
(as at 11 Nov 2022)



A\$707 million

MARKET CAPITALISATION (as at 11 Nov 2022)



1 MONTH HIGH/LOW IN SHARE PRICE²



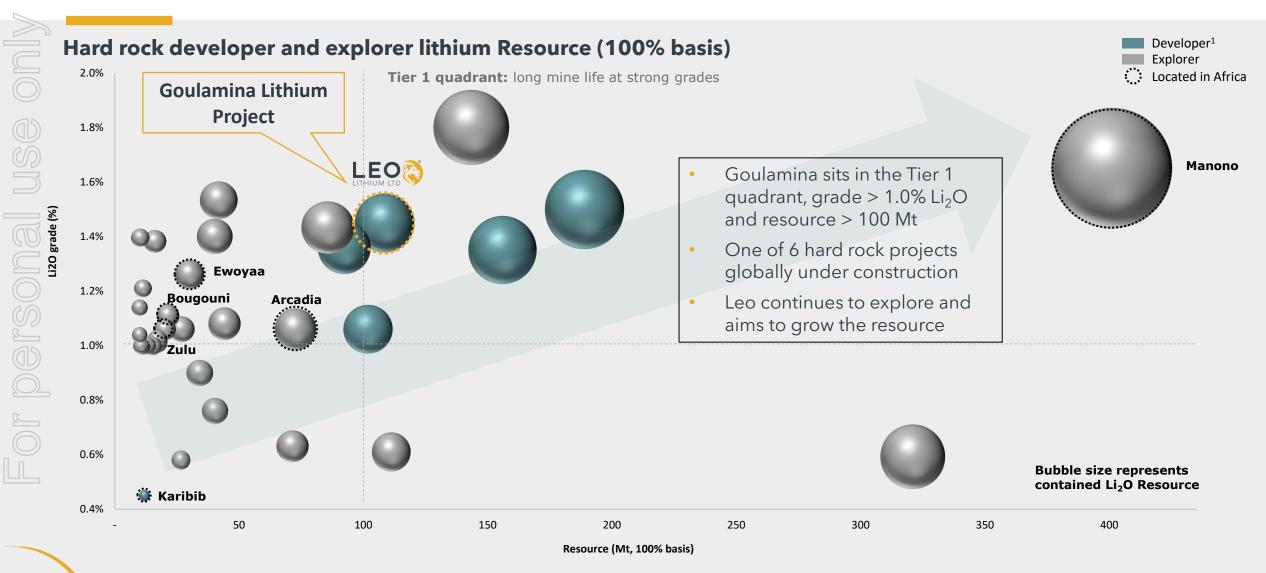
OVER LAST MONTH³

- 1. See ASX announcement 22 Aug 2022: Escrow Shares Waiver Request and Decision. 2.
- 2. As at 30 Sept 2022 \$0.6625 high on 27 Oct 2022; \$0.51 low on 3 Oct 2022. Average daily volume 5,891K October 2022.

LARGE-SCALE, HIGH-GRADE RESOURCE



High grade, high tonnage Mineral Resource of 109Mt at 1.45% Li₂O



GROWING THE GOULAMINA OREBODY



Resource drilling to increase confidence in the deposit and grow the Resource

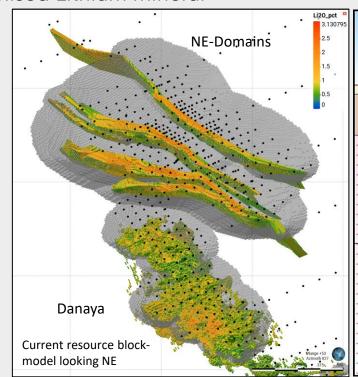
Danaya Domain:

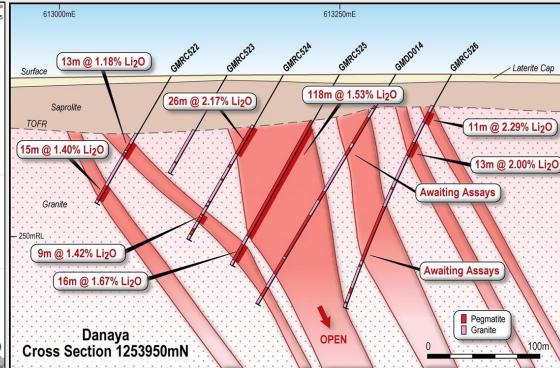
- Drilling completed, final assays pending
- Numerous thick, high grade pegmatite intercepts
- Remains open at depth and along strike
- Spodumene the only recognised Lithium mineral

Updated Mineral Resource Estimate for Danaya anticipated for end of Q4 2022; Global Mineral Resources and Reserves update in Q2 2023

North Eastern Domains:

- Initial mining zone
- Drilling ~ 80% complete
- Some deeper holes than previous campaigns
- Also open at depth
- Hits along strike to be followed up in 2023





DEVELOPMENT ON PLAN



Construction is underway, engineering & procurement advancing on plan

Engineering and design

Engineering and drafting ~40% complete

Procurement

- Manufacturing of apron feeder, ball mill, crushers, WHIM/LIMS, thickeners
- Bulk earthworks, concrete, structural steel supply awarded
- 60% of EPCM procurement packages are awarded or out for tender

Major works have kicked off in Q4 with ramp-up in 2023

- Pioneer camp and services being sequentially commissioned
- Mobilisation of supervisors, site engineers, HSE, water bore contractor
- Bulk earthworks package underway on site



Goulamina camp



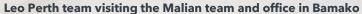
The teeth cutting stage for pinion finished

MAJOR SITE WORKS ACCELERATING

With earthworks contractor mobilising to site















Malian Minister of Mines Lamine Traore and Leo Lithium MD Simon Hay during site visit to Lithium Operation in WA, August 2022

WORLD CLASS PARTNER: GANFENG

One of the world's largest lithium chemical producers



JV with Ganfeng Lithium Group

- US\$130m in equity funding; US\$40m debt facility
- Leo is the developer and operator
- Project is substantially funded to production

Ganfeng add value in many areas:

- Expedited procurement in China
- Flowsheet development, processing expertise
- Offtake, market intelligence

Ganfeng are building a dedicated converter for Goulamina concentrate

- Lithium hydroxide capacity 50,000 t LCE, in Jiangxi Province
- Construction commenced June 2022; targeted completion early 2024



Ganfeng Lithium has begun construction of a solid-state battery production facility, which the company says will be the largest of its kind in China to date.



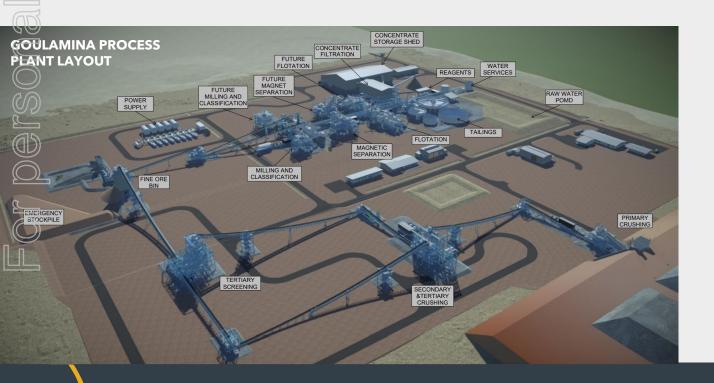
PROCESS FLOWSHEET

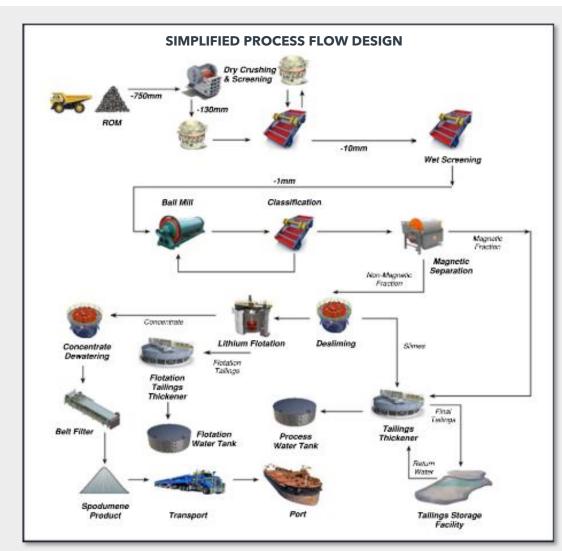


Spodumene successfully converted into battery grade lithium hydroxide (min 99.5% Li₂O)

Flowsheet utilises mature technologies throughout

- Conventional crushing and milling circuits
- Conventional flotation circuit & no DMS: simple processing
- Allowance made in places for Stage 2 capacity upgrade

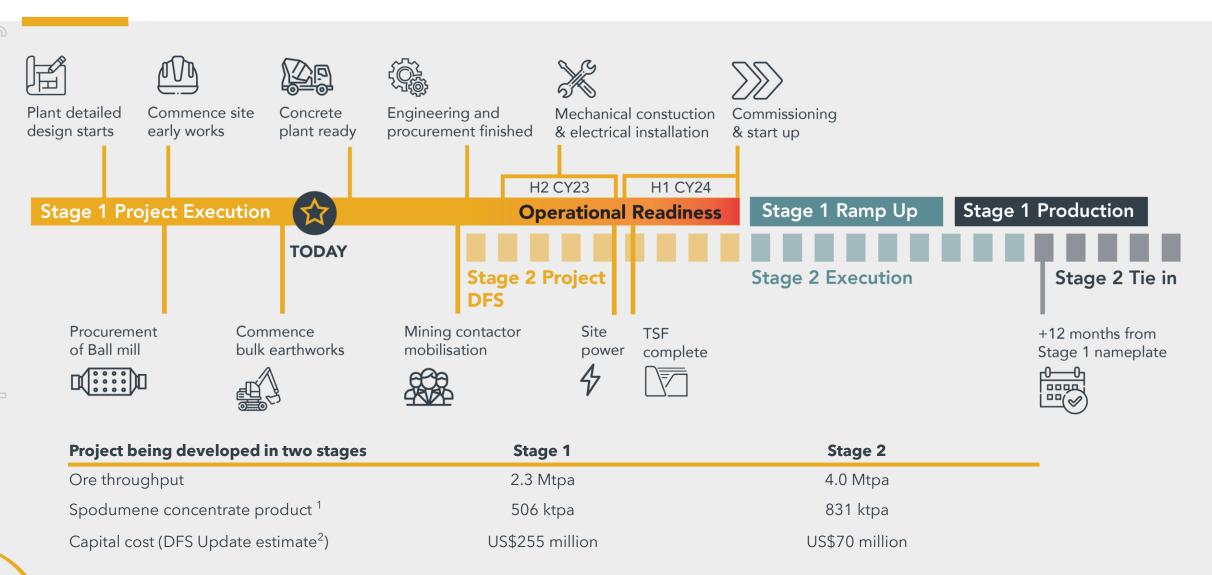




PATHWAY TO PRODUCTION



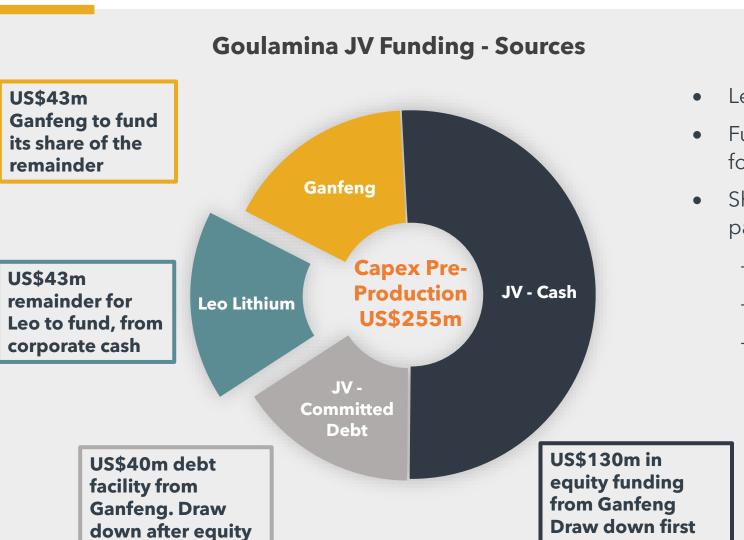
Stage 1 & 2 Development on Schedule and Budget



PROJECT FUNDING SOURCES

LEO CONTRACTOR LITHIUM LTD

Sources of Capital



- Leo Lithium is in a financially strong position
- Funding sufficient to meet current estimate for Stage 1 construction
- Should additional funds be required, JV partners have a number of internal options:
 - Expand the debt facility
 - DSO to bring forward revenue
 - Pre-payment for first product shipments

EARLY REVENUE OPPORTUNITY



Direct Shipped Ore (DSO)



- Export spodumene ore before plant completed
- Requires mining, crushing and logistics in place
- JV partner Ganfeng supportive

Benefits

Dersonal

- Early commissioning of mining operations
- Commissioning of logistics channel on ore
- Early revenue during solid pricing environment
- Creates financial buffer near end of construction

DSO Strategy

- Targeting minimum two shipments x 30,000 mt
- Ore grade 1.2-1.5% Li₂O likely
- Timing: early Q4 2023 preliminary estimate ~6-9 months in advance of full operations
- Mining contract award Q1 2023, on site Q2
- Utilise mobile crushing unit
- DSO has no impact on Project schedule

Next Steps

- Confirm operations & logistics plans end Q2 2023
- DSO sales dependent on pricing at the time



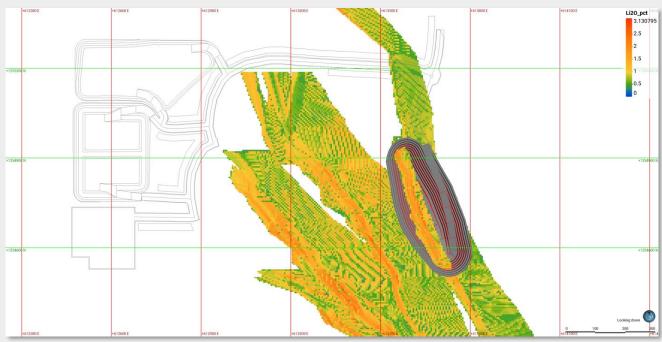
DSO PRE-PLANNING

Activities Underway



Current activities

- Initial starter pit confirmed as suitable for DSO
 - Desktop geologic assessment & mining schedule completed
 - Low strip ratio and suitable mineral characteristics
- Indicative costs ~US\$50/t lower than DFSU costs US\$312/t concentrate (SC6)
- Lower processing costs partially offset by contract crushing services
- Tenders out for various project works (mining services; drill and blast; fuel, water and power)
- Examining mobile crushing plant requirements



Out cropping starter pit, initial ore domain and mine plan for DSO

TRANSPORT & LOGISTICS

Outline plan for product transport



Background

- Goulamina site approximately 1000 km to nearest ports
- Mali (landlocked) is supplied manly from Dakar and Abidjan ports
- Many large-scale logistics contractors offer mine gate-to-port services

Goulamina product transport plans

- Truck product to port using logistics contractors minimal capex for Leo
- Maintain two export channels for risk mitigation reasons
- Firstly, secure port access in Abidjan, then trucking sized to suit
- Examine alternative ports at Dakar, Senegal & San-Pedro, Cote d'Ivoire





TRANSPORT & LOGISTICS



First logistics contract signed - product storage and ship loading at Abidjan

Abidjan Port

- Abidjan is a major West African deep water port
- Has significant bulk mineral handling capability
- Berth accepts handymax sized ships (up to 55 kt)

Major contract terms

- 10 year contract for concentrate storage & ship loading
- 9,000 m² warehouse on berth no double handling
- Minimum annual throughput of 250 kt
 - Studies show export capacity of ~ 350 ktpy
- Operational costs are in line with DFS estimates
- SEA Invest will provide any necessary capital
- Commences 1 July 2023 in time for DSO in Q4 2023

SEA-invest

- A privately-owned international port operator
- Operate 24 sites in 8 countries with 5,500 employees
- Own the concession for the bulk carrier terminal in Abidjan
- 4 berth terminal with quay-side storage



GOULAMINA: SOCIAL LICENCE TO OPERATE



West Africa's first lithium operation

- Clear pathway for Mali to host the first spodumene concentrate project in West Africa
- Secure tenure, major permits in place

Championing local Malian workforce

- A presence in Mali for >5 years; strong networks in country
- Large local employer with predominantly Malian workforce
- Tendering to include local companies wherever possible

Solid support from Government partner

- Excellent working relationship with Govt. and mines dept.
- Mali is Africa's third largest gold producer actively seeking to diversify the mineral sector
- Mature mining industry with well established Mining Code
- Mali Govt. can move to 10% free carry stake: yet to occur

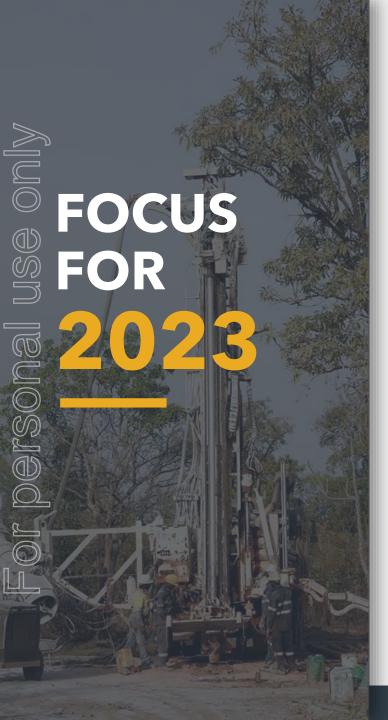


Clear pathway for Mali to host the first spodumene concentrate project in West Africa

Large local employer with predominantly Malian workforce

Strong West African partnerships and networks in-country

ESG and community engagement program under development with much to progress in 2023







CONSTRUCTION ON PLAN

- 27-mth schedule with earthworks underway
- 2023 critical path activities: concreting, installation of the ball mill, supply and install of plant buildings and electrical services



PATHWAY TO PRODUCTION

- First product anticipated end of Q2 2024
- Potential schedule compression to be notified Q3 2023
- Planning for early commissioning on DSO pathway



GROWTH

- Organic growth through exploration drilling at Danaya & North Eastern domains
- Stage 2 to take production to 806 ktpa
- Examining downstream conversion opportunities



STAKEHOLDER OBJECTIVES

- Strong financial position with funding options
- ESG framework delivery and implementation
- Continued local community engagement



CATALYSTS

- Goulamina Project development on plan
- DSO physicals, logistics & pricing confirmed
- Stage 2 timing and technical details
- Downstream options outlined and progressed

APPENDIX 1: LARGE, HIGH GRADE OREBODY

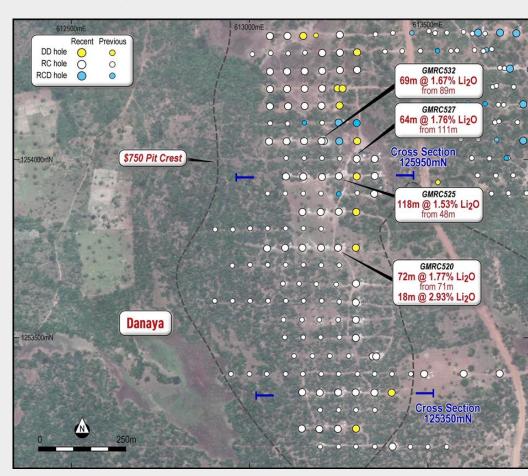


With exploration upside

Resource Drilling results at Danaya reveal thick zones of high-grade mineralization

- 72 m at 1.77% Li₂O, from 71 m, including 18 m at 2.93% Li₂O (GMRC520)
- 118 m at 1.53% Li₂O, from 48 m (GMRC525)
- 69 m at 1.67% Li₂O, from 89 m (GMR532)
- 64 m at 1.76% Li₂O, from 111 m (GMRC527)
- Average assay results are higher than the current Resource grade
- Mineralisation remains open at depth and along strike

Updated Mineral Resource Estimate for Danaya anticipated for end of Q4 2022; Global Mineral Resources and Reserves update in Q2 2023



Mineral Resource of 108Mt at 1.45% Li₂O and Ore Reserve of 52Mt at 1.51% Li₂O

Goulamina Mineral Resource Estimate											
Classification	Tonnes (m)	Grade Li ₂ O (%)	Contained Tonnes Li ₂ O								
Measured	8.4	1.57	133,000								
Indicated	56.2	1.48	832,000								
Inferred	43.9	1.38	606,000								
Total	108.5	1.45	1,570,000								
Goulamina Open Pit Ore Reserve Estimate											
Proven	8.1	1.55	125,000								
Probable	44.0	1.50	660,000								
Total	52.0	1.51	785,000								



APPENDIX 3: PEER COMPARISON

LEO (S)

Company references

Rank Company		Project name	Stage	Announcement title	Announcement	Measured	Indicated	Inferred	Total	Resource grade	Contained Li ₂ O
	Company				date	(Mt)	(Mt)	(Mt)	(Mt)	(% Li ₂ O)	(Mt)
1	AVZ	Manono	DFS	Updated Mineral Resource Estimate	24-May-21	100	174	128	401	1.65%	6.62
2	SQM / Wesfarmers	Mt Holland	Development	Kidman Resources Scheme Booklet	01-Aug-19	66	106	17	189	1.50%	2.84
3	Rio Tinto	Jadar	Scoping	Update to Ore Reserves and Mineral Resources at Jadar	23-Feb-22	-	85	58	144	1.80%	2.58
4	Liontown	Kathleen Valley	Development	Kathleen Valley Lithium Project - DFS Update 2	08-Apr-21	20	109	27	156	1.35%	2.11
5	American Lithium	Falchani	PEA	Mineral Resource Estimates for the Falchani Lithium Project in the Puno District of Peru	18-Apr-19	-	61	260	321	0.59%	1.90
6	Leo Lithium	Goulamina	Development	Goulamina Lithium Project Definitive Feasibility Study	20-Oct-20	8	56	44	109	1.45%	1.57
7	Livent / Investissement	Whabouchi	Development	NI 43-101 Report on the Estimate to Complete for the Whabouchi Lithium Mine	31-May-19	37	38	17	92	1.36%	1.26
8	Sigma	Grota do Cirilo	Development	Sigma Lithium Corporate Presentation October 2022	03-Oct-22	37	37	12	86	1.43%	1.22
9	Sayona	North American Lithium	Development	Annual Report to shareholders	13-Oct-22	1	72	28	102	1.06%	1.08
10	Prospect	Arcadia	DFS	Staged OFS Investor Presentation	11-Oct-21	16	46	11	73	1.06%	0.77
11	Infinity Lithium	San Jose	Scoping	South-West Connect Conference	20-Oct-22	-	59	52	111	0.61%	0.68
12	Frontier	Pakeagama Lake	PFS	NI 43-101 Technical Report PAK Property & TSX Release March, 1 2022	5-Apr-21 & 1-Mar-22	1	20	21	42	1.54%	0.65
13	Allkem	James Bay	FS	Annual Report to shareholders and Appendix 4E	25-Aug-22	-	-	40	40	1.40%	0.56
14	Piedmont	Carolina Lithium	DFS	Piedmont Increases Mineral Resources	22-Oct-21	-	28	16	44	1.08%	0.48
15	AfriTin Mining	Uis	PEA	AfriTin Corporate Presentation	01-Oct-21	-	-	72	72	0.63%	0.45
16	Atlantic Lithium	Ewoyaa	PFS	Robust Ewoyaa Pre-Feasibility Study	22-Sep-22	-	21	10	30	1.26%	0.38
17	Critical Elements	Rose	FS	Rose Lithium-Tantalum project feasibility study	13-Jun-22	-	31	3	34	0.90%	0.31
18	Zinnwald Lithium ¹	Zinnwald	PEA	PEA for the revised Zinnwald Lithium Project	06-Sep-22	19	17	5	40	0.76%	0.31
19	Savannah	Mina Do Barroso	Scoping	Annual Report and Financial Statements	31-Dec-21	7	8	12	27	1.06%	0.29
20	Kodal Minerals	Bougouni	FS	FS demonstrates robust economics for development of the Bougouni Lithium Project	27-Jan-20	-	12	10	21	1.11%	0.24
21	Sayona	Moblan	PFS	Sayona Doubles Quebec Lithium Resource Base	01-Mar-22	5	7	4	16	1.38%	0.22
22	Premier African Minerals	Zulu	DFS	Africa's Next Lithium Developer	20-Jun-21	-	-	20	20	1.06%	0.21
23	Keliber Oy	Keliber	DFS	Mineral Resources from Keliber's New Tuoreetsaaret Lithium Deposit	23-Jun-22	4	9	3	17	1.02%	0.17
24	Sayona	Authier	DFS	Annual Report to shareholders	13-Oct-22	6	8	3	17	1.01%	0.17
25	CAT Strategic Metals	Kamativi	Pre-scoping	NI 43-101 Technical Report on the Kamativi Tailings Lithium Project	07-Nov-18	-	26	0.3	27	0.58%	0.15
26	Red Dirt	Mt Ida	Pre-scoping	Maiden Lithium Mineral Resource Estimate at Mt Ida	19-Oct-22	-	3	9	13	1.20%	0.15
27	Lion Town	Buldania	Pre-scoping	Annual Report to Shareholders	30-Sep-22	-	9	6	15	1.00%	0.15
28	Rock Tech Lithium	Georgia Lake	PEA	Rock Tech Files Revised Technical Report	21-Apr-22	2	4	7	13	1.08%	0.14
29	Avalon	Separation Rapids	PEA	NI 43-101 Separation Rapids Lithium Deposit	26-Sep-18	3	5	2	10	1.40%	0.14
30	Essential Metals	Dome North	FS	2022 Annual Report	28-Sep-22	-	5	6	11	1.21%	0.14
31	European Lithium	Wolfsberg	FS	EUR Merger with NASDAQ Corp	26-Oct-22	4	5	3	13	1.00%	0.13
32	Global Lithium	Manna	Pre-scoping	GL1 Agrees to Acquire 100% of Manna Project and update	25-Oct-22	-	-	10	10	1.14%	0.11
33	Snow Lake Resources	Thompson Brothers	Pre-scoping	Annual Report to Shareholders	01-Nov-22	-	9	2	11	1.00%	0.11
34	Global Lithium	Marble Bar	Pre-scoping	GL1 Agrees to Acquire 100% of Manna Project and update	25-Oct-22	-	-	11	11	1.00%	0.11
35	Green Technology	Seymour	Pre-scoping	Investor Presentation South - West Connect Conference	20-Oct-22	-	5	5	10	1.04%	0.10
36	Lepidico	Karibib	Development	Annual Report to Shareholders	18-Oct-22	2	7	3	12	0.45%	0.05

