

Resources Rising Stars Presentation

ASX Announcement

7/06/2022

Liontown Resources Limited (ASX: LTR) ("**Liontown**") is pleased to advise that Managing Director Tony Ottaviano will be presenting at the Resources Rising Stars Investor Conference on the Gold Coast tomorrow, 8 June 2022 at 11.15am AEST / 9.15am AWST.

The presentation slides to be delivered by Mr Ottaviano are attached.

Investors can watch the conference livestream at no cost by going to www.rrsinvestor.com.

This announcement has been authorised for release by the Managing Director.



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Fast charging towards a low carbon future

Resources Rising Stars Conference

ASX:LTR

June 2022





Important Information

Cautionary Statement

The production targets and forecast financial information referred to in the Definitive Feasibility Study (DFS) and Downstream Scoping Study (DSS) were based on Proven Ore Reserves (3.4%), Probable Ore Reserves (79.4%) and Inferred Mineral Resources (17.2%). The Inferred material included in the inventory was 14.3Mt @ 1.1% Li₂O & 120 ppm Ta₂O₅. The Inferred material was scheduled such that less than 10% of the Inferred material is mined in the first ten years, with the remainder mined through to the end of the mine life.

The Inferred material does not have a material effect on the technical and economic viability of the project.

There is a low level of geological confidence associated with inferred Mineral Resources and there is no certainty that further exploration work will result in the determination of indicated Mineral Resources or that the production target itself will be realised.

Forward looking statements

This Presentation contains forward-looking statements which are identified by words such as ‘may’, ‘could’, ‘believes’, ‘estimates’, ‘targets’, ‘expects’, or ‘intends’ and other similar words that involve risks and uncertainties. These statements are based on an assessment of present economic and operating conditions, and on a number of assumptions regarding future events and actions that, as at the date of this Presentation, are considered reasonable. Such forward-looking statements are not a guarantee of future performance and involve known and unknown risks, uncertainties, assumptions and other important factors, many of which are beyond the control of the Company, the Directors and the management. The Directors cannot and do not give any assurance that the results, performance or achievements expressed or implied by the forward-looking statements contained in this Presentation will actually occur and investors are cautioned not to place undue reliance on these forward-looking statements. The Directors have no intention to update or revise forward-looking statements, or to publish prospective financial information in the future, regardless of whether new information, future events or any other factors affect the information contained in this Presentation, except where required by law or the ASX listing rules.

Disclaimer

Whilst care has been exercised in preparing and presenting this presentation, to the maximum extent permitted by law, Liontown Resources Limited and its representatives:

- Make no representation, warranty or undertaking, express or implied, as to the adequacy, accuracy, completeness or reasonableness of this Presentation;
- Accept no responsibility or liability as to the adequacy, accuracy, completeness or reasonableness of this Presentation; and
- Accept no responsibility for any errors or omissions from this Presentation.

Competent person statement

The Information in this Presentation that relates to Exploration Results and Mineral Resources for the Kathleen Valley Project is extracted from the ASX announcement “Strong progress with Kathleen Valley Definitive Feasibility Study as ongoing work identifies further key project enhancements” released on 8 April 2021 which is available on www.ltresources.com.au.

The Information in this Presentation that relates to metallurgical testwork and process design, Ore Reserves, Production Target and DFS for the Kathleen Valley Project is extracted from the ASX

announcement “Kathleen Valley DFS confirms Tier-1 global lithium project with outstanding economics and sector-leading sustainability credentials” released on 11 November 2021 which is available on www.ltresources.com.au.

The Information in this Presentation that relates to the DSS for the Kathleen Valley Project is extracted from the ASX announcement “Updated Downstream Scoping Study Highlights Next Growth Horizon for Kathleen Valley Project” released on 11 November 2021 which is available on www.ltresources.com.au.

The Information in this Presentation that relates to Mineral Resources for the Buldania Project is extracted from the ASX announcement “Liontown announces maiden Mineral Resource Estimate for its 100%-owned Buldania Lithium Project, WA” released on the 8 November 2019 which is available on www.ltresources.com.au.

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 and that all material assumptions and technical parameters underpinning the estimates or production targets or forecast financial information derived from a production target (as applicable) in the relevant market announcements continue to apply and have not materially changed. 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.

Authorisation

This Presentation has been authorised for release by the Managing Director.



Agenda

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02.

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and Strategy

03.

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Investment Highlights

Kathleen Valley (KV) is a globally significant lithium resource, located within a stable and established mining jurisdiction with a strong ESG position and growth optionality. The project is well positioned, with start of production expected to coincide with a significant spodumene market deficit.



ESG Core to Strategy

- Lontown is on a net zero trajectory, with a climate strategy roadmap in place targeting net zero emissions by 2034
- Leveraging underground mining approach to achieve a strong ESG profile relative to peers



Low cost, long-life scalable operations

- Current resource base supports an initial ~23 year life of mine; with an orebody that is open at depth driving possible further resource increases
- Low cash operating costs, with significant downside protection from royalties structure; supports strong creditworthiness



Globally significant Tier-1 project

- World-class lithium deposit with a globally significant Mineral Resource Estimate (MRE) of 156Mt @ 1.4% Li₂O
- Kathleen Valley DFS confirmed Tier-1 project with outstanding economics



Offtakes Advanced

- Foundational offtakes secured with Tier-1 battery supply chain participants, LG Energy Solution and Tesla
- Significant interest from potential offtakers for remaining tonnes; represents increasing supply / demand imbalance across the market



Timed to perfection

- Market commentators expecting supply deficits to continue over near-term and expand over long-term
- Kathleen Valley is positioned to become one of very few projects advanced enough to meet demand



Experienced Leadership

- Experienced leadership team strongly aligned to shareholders; exceptional new recruits building out team for project delivery
- Significant mining, engineering and commercial experience, with a track record of successfully developing long-life mining projects



Well Capitalised

- Significantly de-risked project, with A\$463m equity raise covering the majority of project capital costs
- Strong interest from a variety of financiers, including Tier-1 domestic and international financial institutions; flexibility with funding solution



Liontown Corporate Overview

We aim to be an ESG-leader, and a globally significant provider of battery minerals for the rapidly growing clean energy market.

Liontown is focused on the development of the world-class Kathleen Valley Lithium Project

Kathleen Valley

World-class scale and economics
156Mt @ 1.4% Li_2O & 130ppm Ta_2O_5
High-grade

Buldanía

15Mt @ 1.0% Li_2O
Resource upside

Geraldton Port 



■ Kalgoorlie

■ Perth



Corporate Snapshot

(3 June 2022)

Market Cap

A\$2.8bn

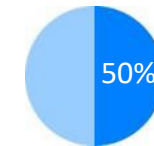
Share price (\$/s)

A\$1.27

Shares on issue

2,192m

Major Shareholders



Top 20

(incl. ~15% held by
Chairman - Tim Goyder)

Cash and term deposits¹

A\$466m

Research coverage

 MACQUARIE

 BELL POTTER

Barrenjoey^{*}

cg/Canaccord
Genuity

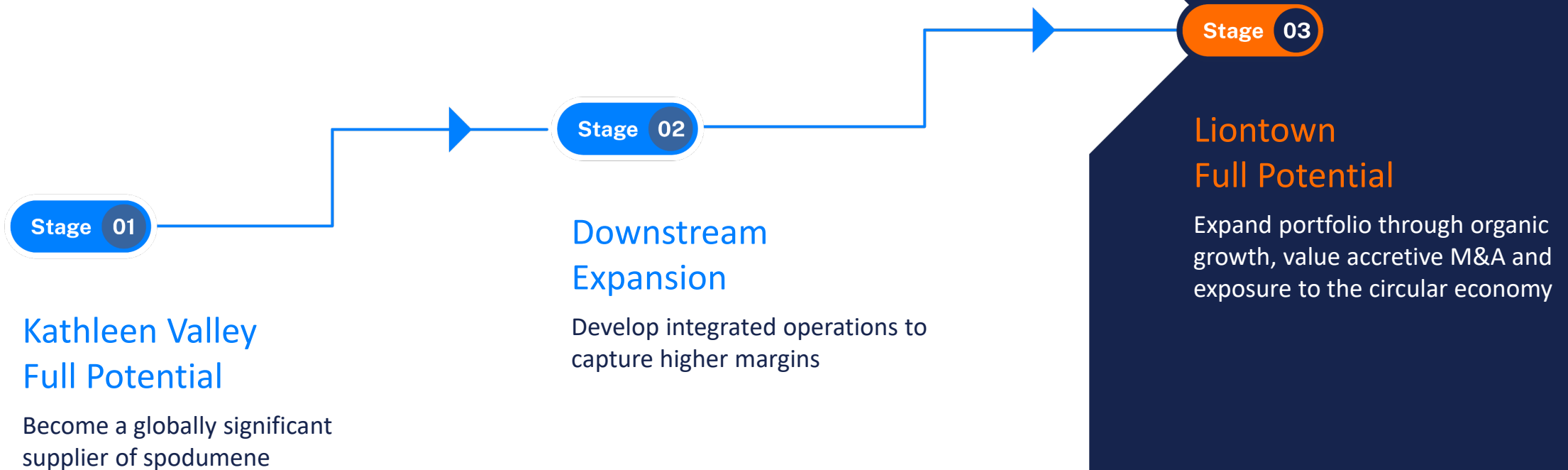
J.P.Morgan

1: Balance as of 31 March 2022.



Lontown's Strategy

We aim to be an ESG-leader, and a globally significant provider of battery minerals for the rapidly growing clean energy market

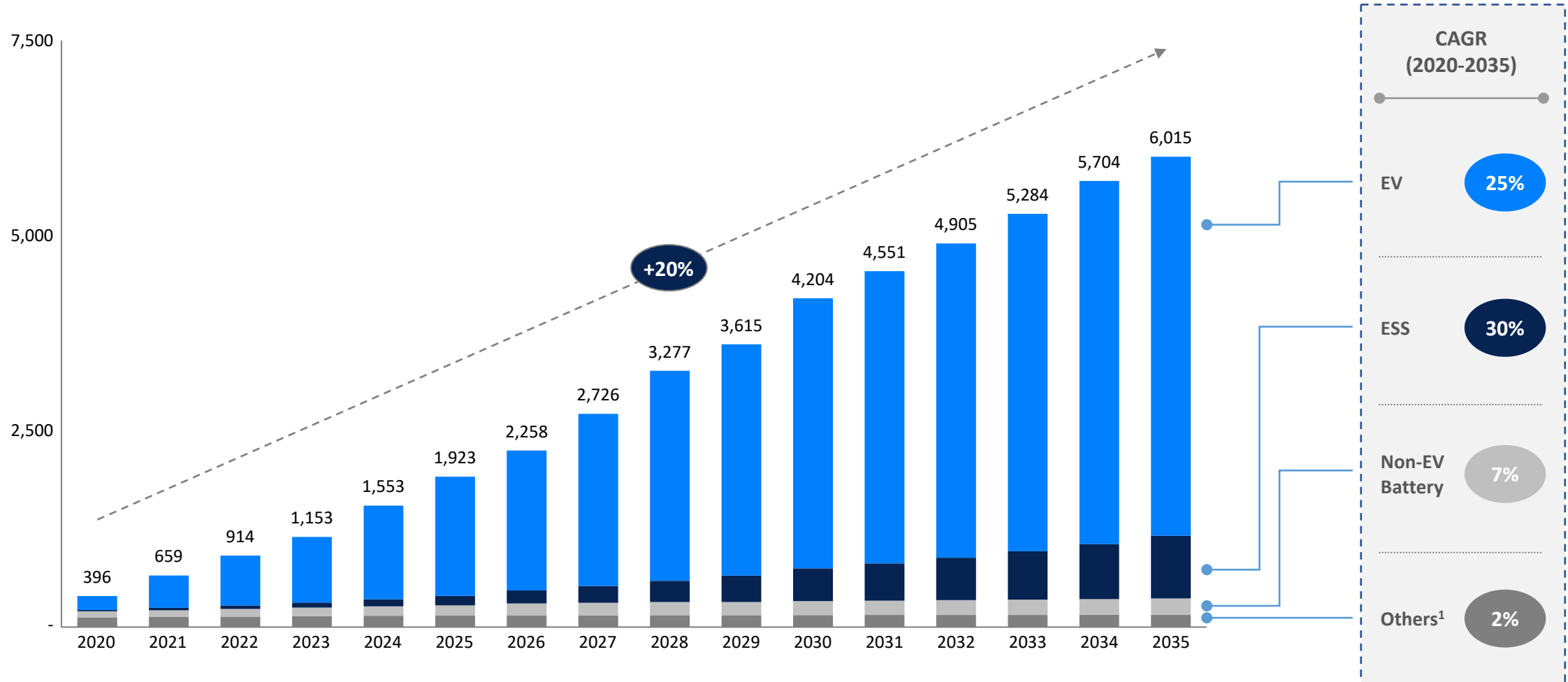




Lithium Demand Breakdown

BCG expects overall lithium demand growth of ~20% p.a. from 2020 to 2035, driven largely from accelerating demand for EV and ESS batteries

Global forecasted primary lithium demand, 2020-35, kt LCE



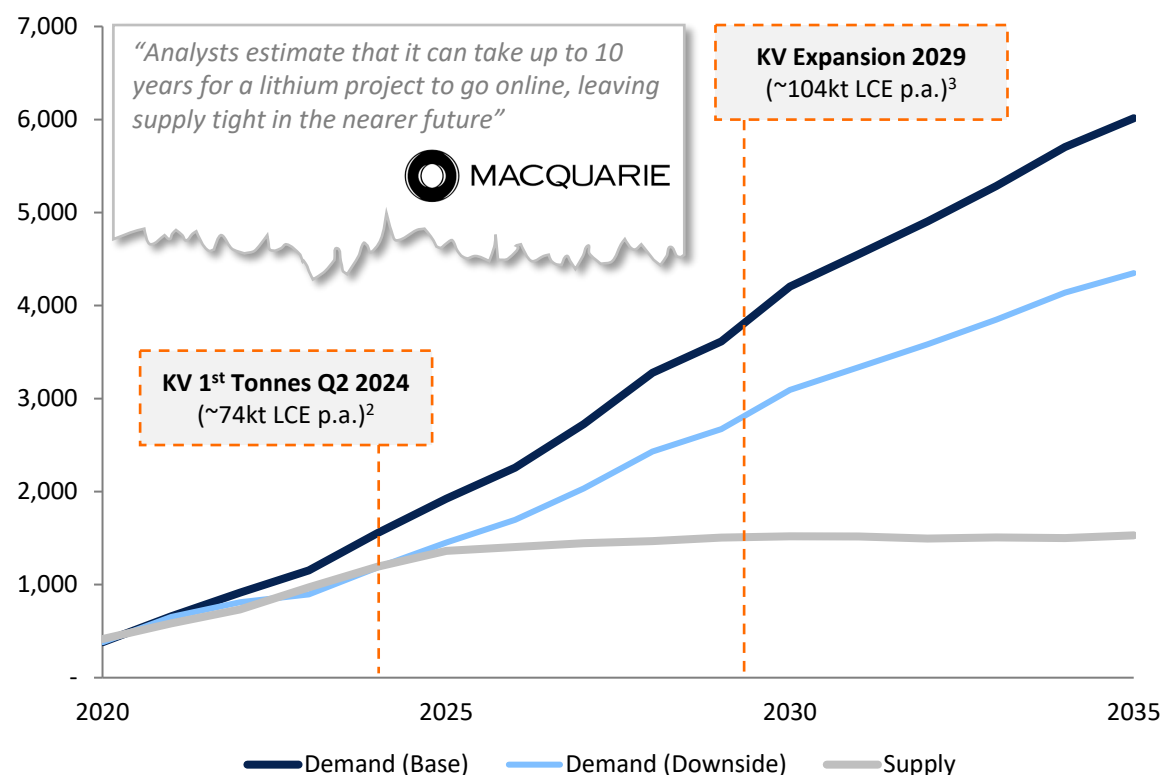
Source: Boston Consulting Group analysis 1. Includes glass, ceramics, consumer electronics, grease



Lithium Supply Dynamics

Forecast lithium market deficit is expected to continue and grow out to 2030, driven by tight supply. There is currently no substitute for lithium in Li-ion cathodes

Demand / supply forecast, 2020-35, kt LCE¹



Source: Boston Consulting Group analysis

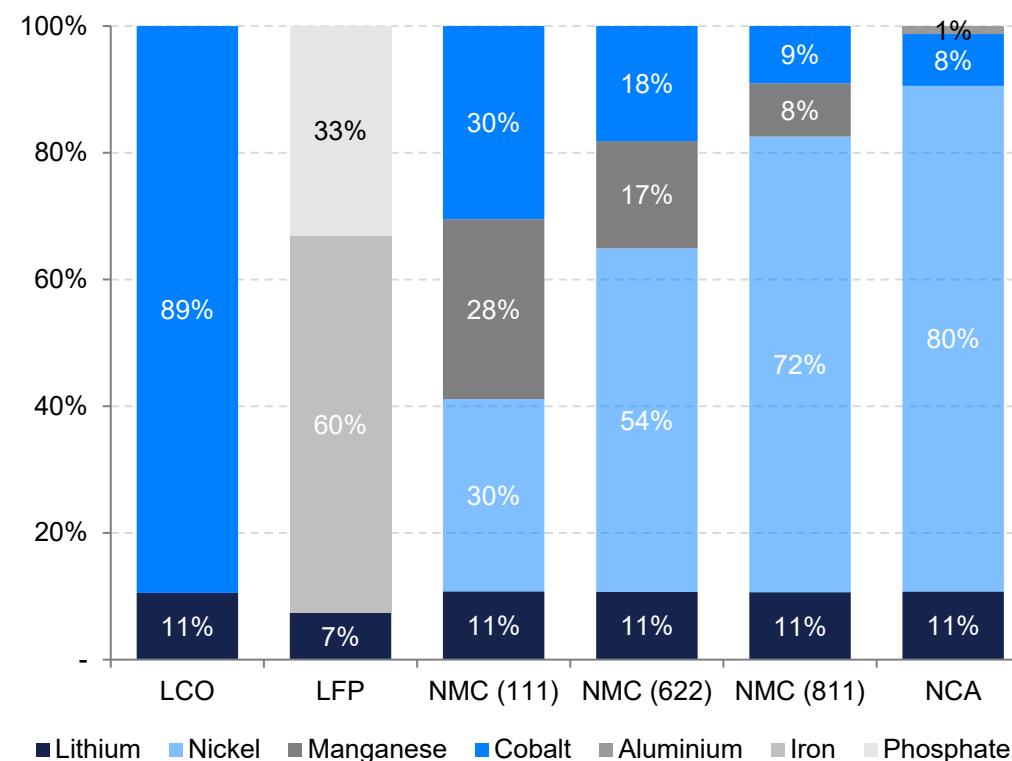
1. Only costed supply based on current and future known projects taken into account

2. Based on production of 500kt SC6.0 per annum

3. Based on production of 700kt SC6.0 per annum

Metals content of Li-ion battery cathodes by mass¹

Share of total (%)



Source: WoodMac 1. WoodMac, shown exclusive of oxide

Kathleen Valley's ESG Focus

Aspirational
Net Zero¹ Timeline
of 10 Years



1. From start of production production (excludes potential downstream refinery operations) 2. GRI: Global Reporting Initiative 3. TSM: Towards Sustainable Mining
4. SASB: Sustainable Accounting Standards Board. 5. TCFD: Task Force on Climate Related Financial Disclosures. 6. IRMA: Initiative for Responsible Mining Assurance.



Tier 1 Resources and Reserves

Kathleen Valley is a globally significant, high-grade hard rock resource

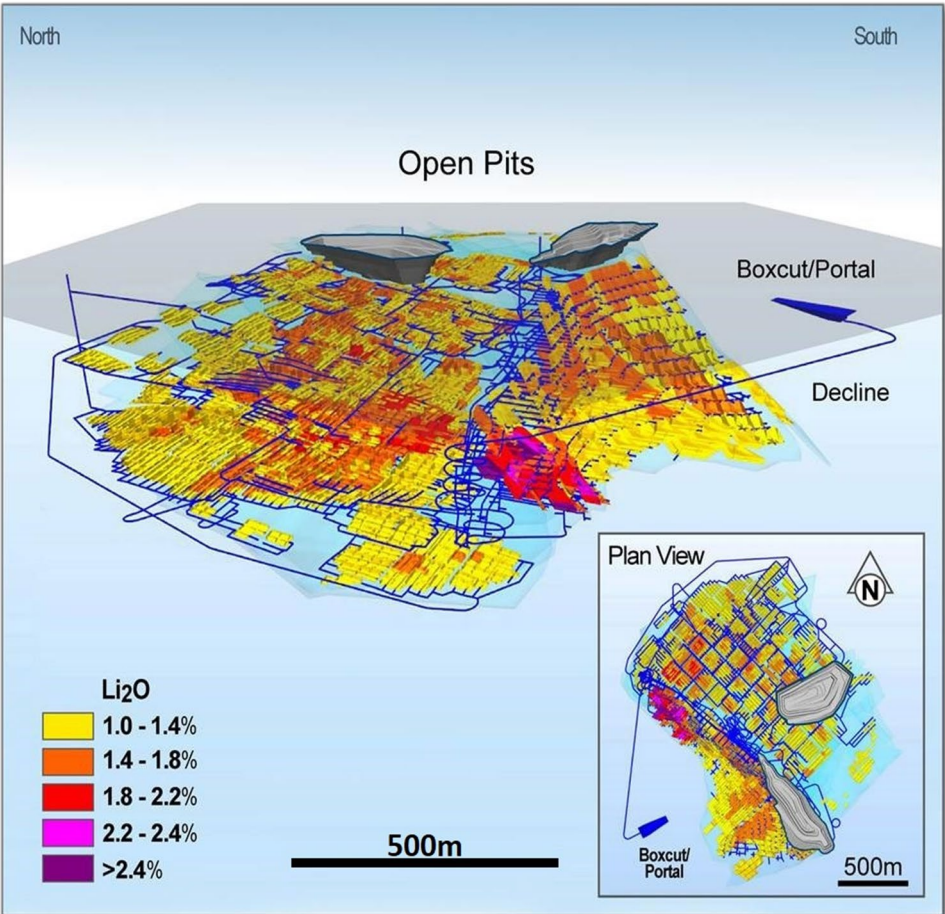


Mineral Resource Estimate¹ – April 2021

Cut-off Li ₂ O%	Resource Category	Million Tonnes	Li ₂ O%	Ta ₂ O ₅ (ppm)
0.55	Measured	20	1.3	145
	Indicated	109	1.4	130
	Inferred	27	1.3	113
TOTAL		156	1.4	130

Ore Reserve – November 2021

Category		Million Tonnes	Li ₂ O%	Ta ₂ O ₅ (ppm)
Underground	Proven	-	-	-
	Probable	65.4	1.34	119
	Sub Total	65.4	1.34	119
Open Pit	Proven	2.7	1.30	141
	Probable	0.5	0.93	148
	Sub Total	3.2	2.23	142
TOTAL		70.8	1.34	120



1. Inclusive of ore reserve



Kathleen Valley Project – Underground Mining

We have a bias to underground mining since it significantly enhances ore selectivity whilst minimizing our surface footprint

Distinct Benefits of Kathleen Valley

- **Long hole open stopping mining method** - well established and understood. Less than 4% of reserves will be room and pillar.
- Importantly, Kathleen Valley is **shallow relative to other underground mines** with high tonnes per vertical metre (100– 206 kt/m and a max depth of 450m)
- Ground conditions are **very conducive to UG mining** – Geotech analysis (backed by 5km of drilling) shows hard competent ground
- **Significant reduction in dilution**– ore/waste interface is clearly defined (grey versus white) - underground mining significantly more selective than open pit peers

Mining Costs

- Mining costs have been derived **from multiple tenders received based on the actual mine schedule**, not just unit rates applied to volumes
- Liontown's mining costs are A\$56/t ore mined (all in), and **supported by analysis of comparable projects**

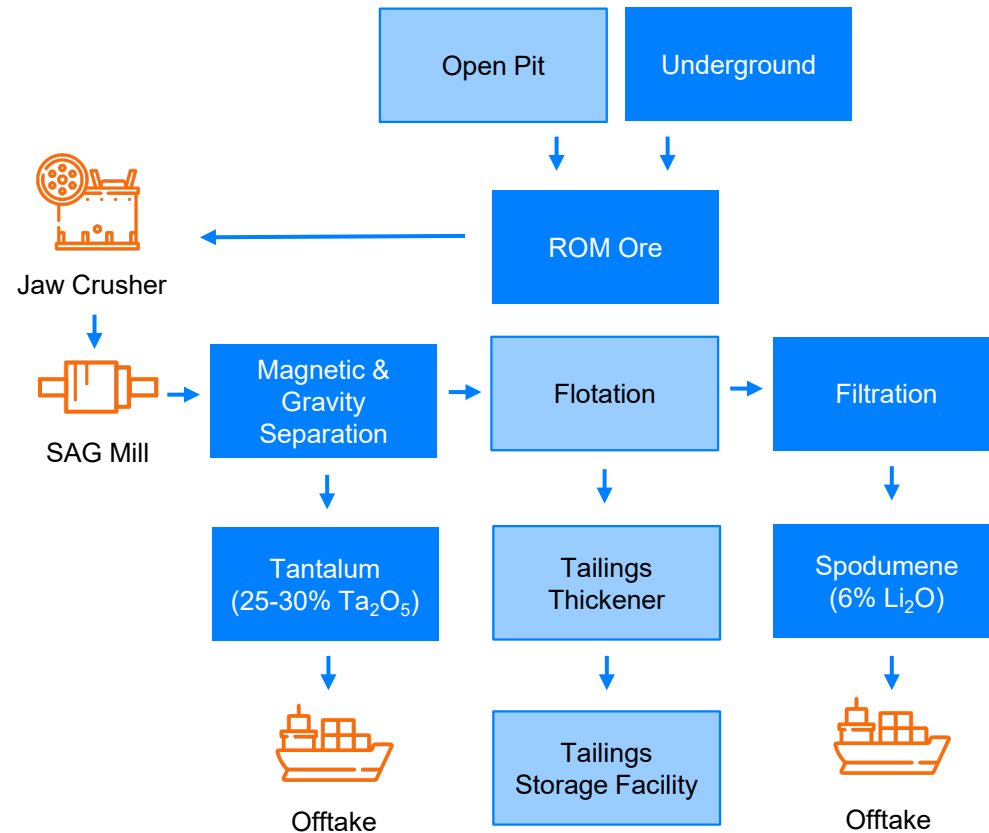




Processing Strategy

Conventional mining method, proven and reliable technology with a flowsheet grounded in evidence based design

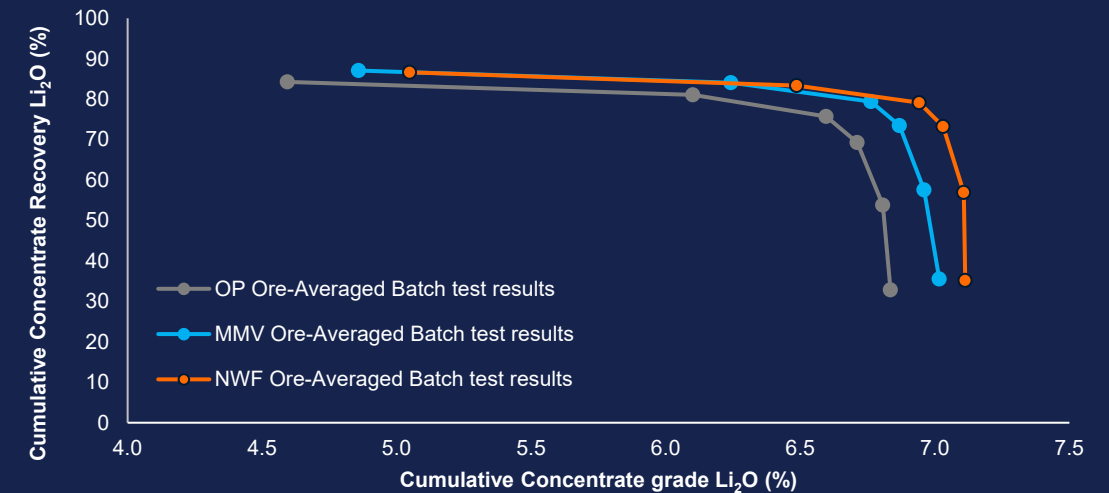
Flowsheet



WOF Processing Strategy

- Simple flowsheet – better operability and reliability
- KV ore has **outstanding metallurgical properties**
- Test work has repeatedly achieved **greater than 80% Lithia recovery** and **>6.0% concentrate grade**
 - Supported by **140+ staged float tests** and variability analysis
 - **78%** has been conservatively assumed for financial modelling

Cumulative Grade vs. Recovery – Avg. of multiple Batch Tests¹



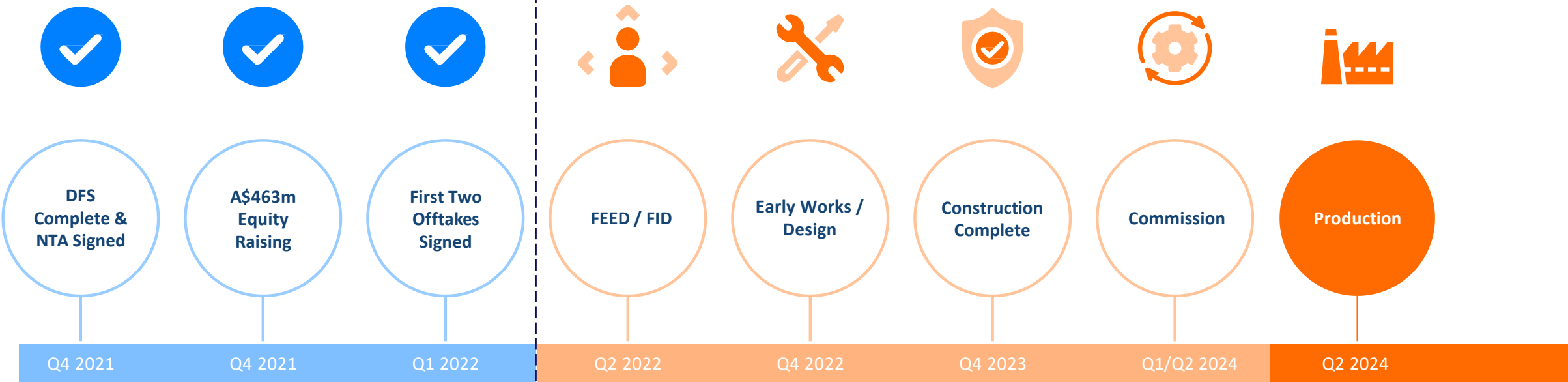
1. OP = Open Pit, MMV = Mount Mann Vertical, NWF = NorthWest Flats



2024 Production Target

PROJECT MILESTONES ON SCHEDULE

LIONTOWN POSITIONED TO DELIVER PROJECT ON SCHEDULE



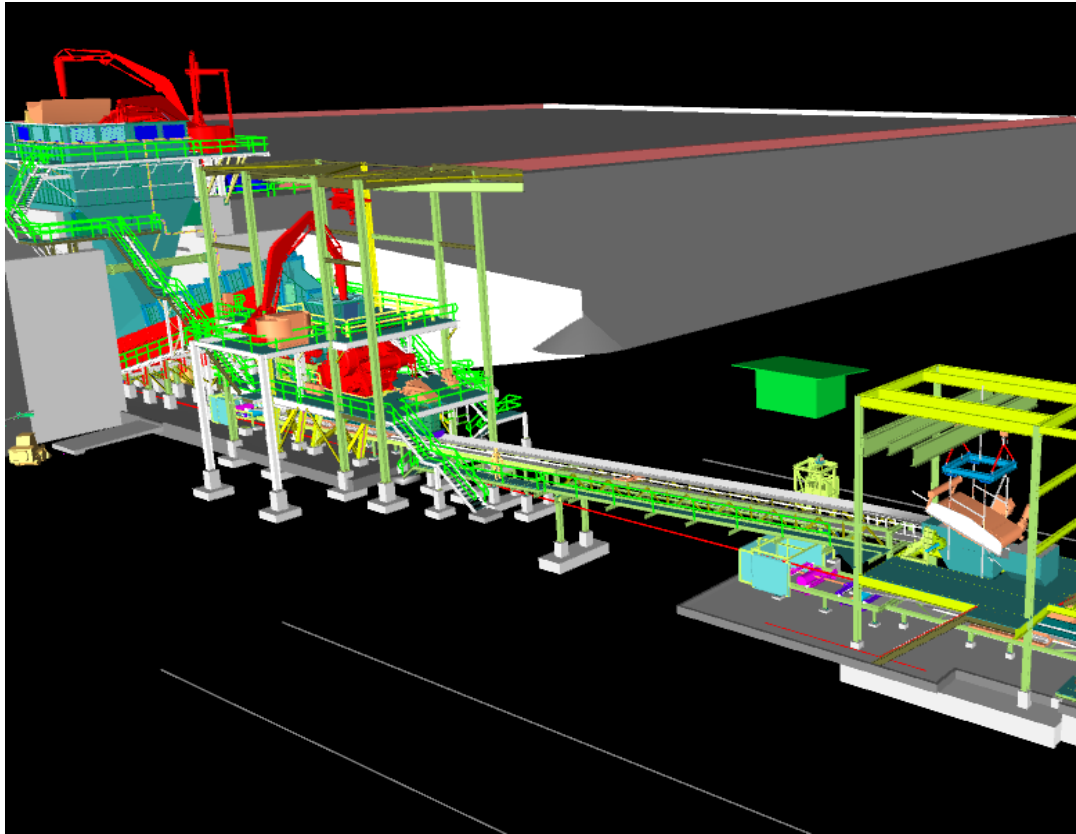
Continued assessment of growth and downstream processing options



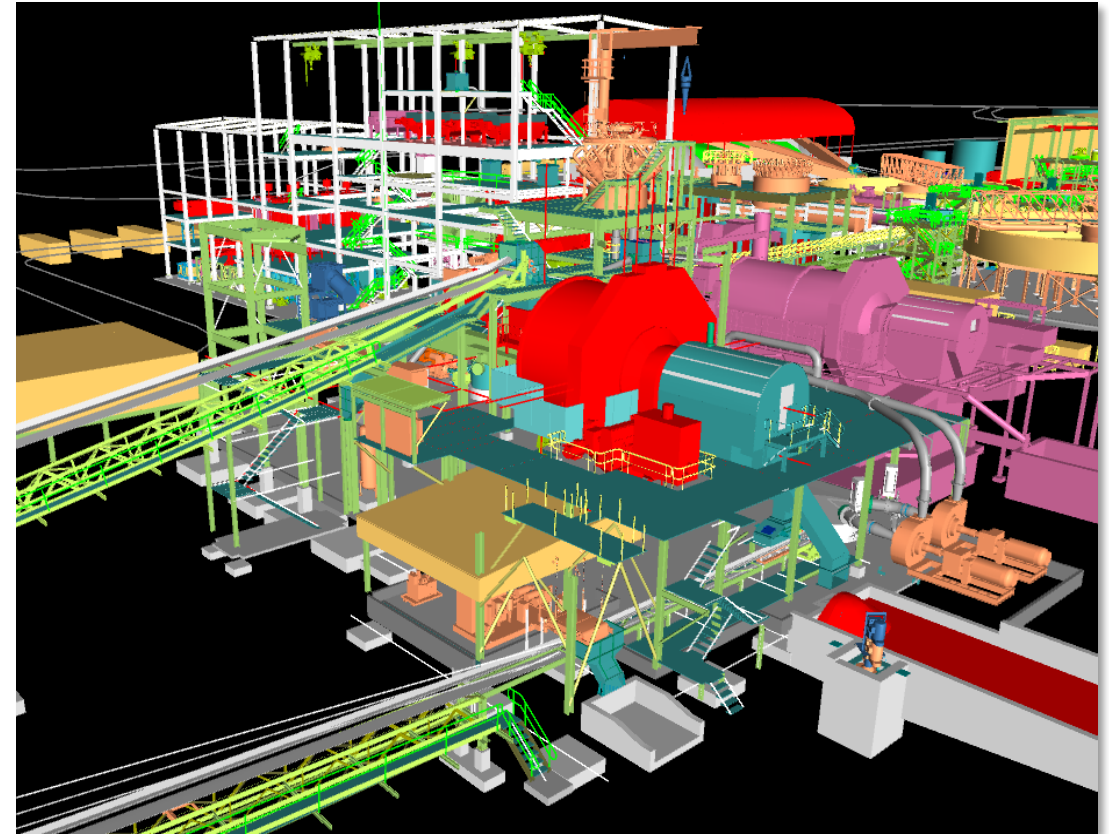
Kathleen Valley Design

Front End Engineering & Design (FEED) well advanced

Process plant FEED commenced 1 week after DFS published in Nov 2021 to drive design and early procurement running in parallel with EPCM discussions



Primary Crushing Plant



Milling Circuit



Tier 1 Offtake Partners Secured

Tesla and LG Energy Solution confirmed as cornerstone offtake partners



Target Customers & End Markets



Source: FactSet, LG Energy Solution website, Tesla Website

Our Offtake Partners



Company overview		
Description	Largest EV automotive company globally ¹	Second largest battery manufacturer globally ¹
Headquarters		
Market capitalisation	US\$729bn	US\$82bn
Employees	99,000+	20,000+
Select key customers		
Offtake key terms		
Term	5 years	5 years + 5 year extension option
Quantum ²	100ktpa Yr 1 150ktpa Yr 2 – 5	100ktpa Yr 1 150ktpa Yr 2 – 5
Pricing	Formula-based mechanism referencing market prices for lithium hydroxide	

Source: FactSet at 3 June 2022, LG Energy Solution and Tesla; 1. By market capitalisation; 2. Dry basis.

Kathleen Valley Project Update – FID is approaching



Targeting FID by end of 1H 2022 and early works in the 2H 2022



Detailed engineering commenced



Key contracts issued for tendering, with bids under review



Early procurement of long lead-time equipment underway



Project team expanding to plan, with new hires to support project ramp-up



Final funding for the project well advanced



Offtakes in place with tier-1 customers for >50% of production over first five years

Downstream Processing Opportunity

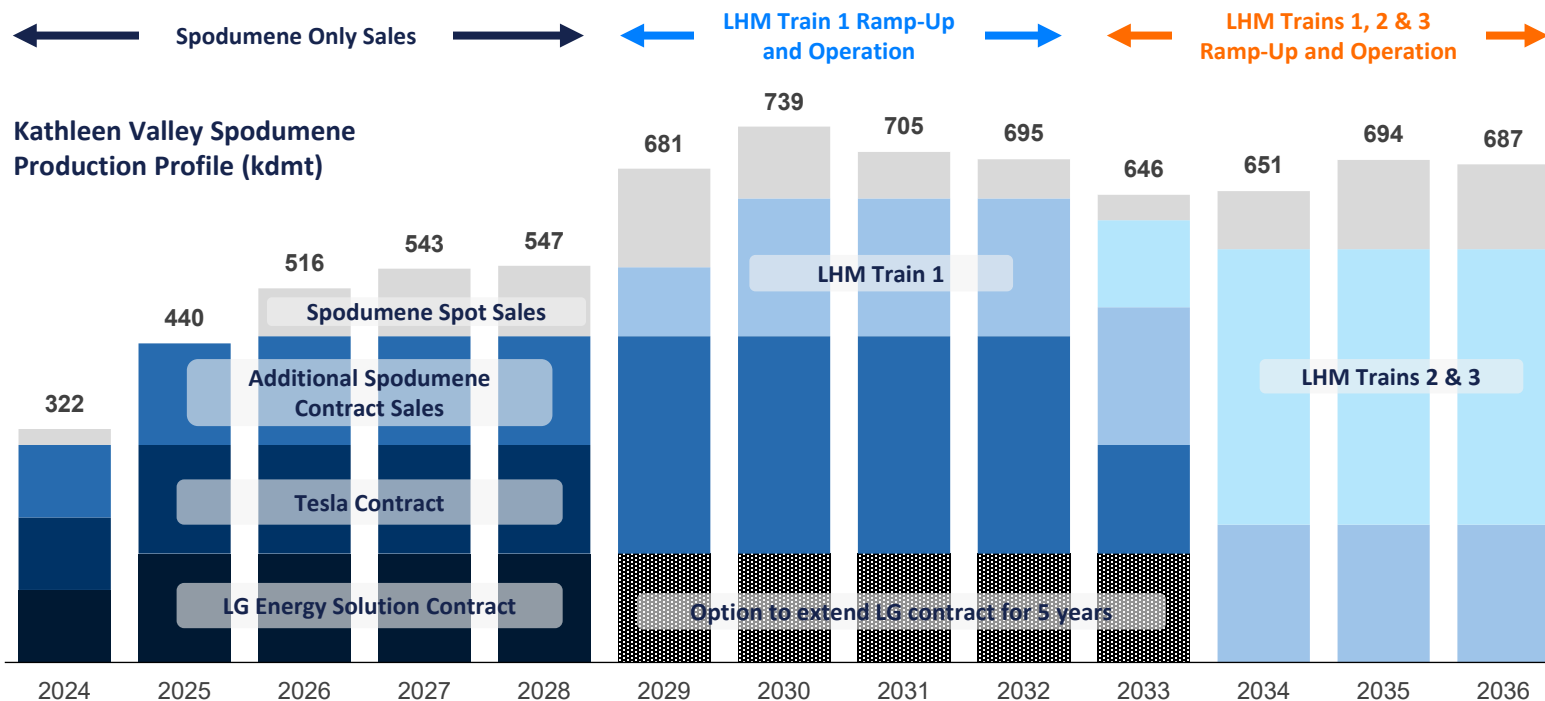
The **2021 updated DSS confirmed**: Value maximizing pathway for Liontown is a staged-build, integrated mining, processing and refining operation producing Lithium Hydroxide Monohydrate (“LHM”)



The Integrated Project has the potential to make Liontown the 3rd largest supplier of LHM in the world (based on 2031 Roskill LHM projections) producing ~86ktpa LHM



Refinery will be included in our Climate Strategy Roadmap and benefit from the energy renewables developed during the operation of KV reducing its **incremental carbon** footprint



Value Maximising Pathway

- ✓ Exposure to higher margin end-product more quickly
- ✓ Capture highly favourable market environment
- ✓ Unlocks additional off-takers (particularly OEMs) with potential for nearer-term discussions
- ✓ Value maximising pathway with significant NPV value upside
- ✓ Liontown progressing to pre-feasibility study phase for downstream opportunity



Liontown's Investment Proposition



Tier 1 Asset

Kathleen Valley is a world-class lithium deposit, with exceptional economics and growth optionality



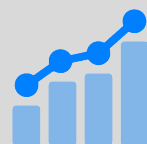
Timed to Perfection

Significant supply deficits forecast to emerge from 2024, which is expected to align with start of production at Kathleen Valley



ESG-Positive

Clear net zero aspirations, with a climate strategy roadmap under development prior to start-up



Integrated Opportunity

Integrated, long-term lithium producer, positioned to capture value from mine to end-use in the electric vehicle market

Near Term Priorities

- 1 Continue to execute attractive offtake agreements to support FID
- 2 Progress and finalise project funding
- 3 Continue to secure long-lead items and permitting
- 4 Appoint industry leading EPCM contractor to spearhead Kathleen Valley development
- 5 Continue to develop downstream strategy



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