



Fast charging towards a low carbon future

Macquarie Australia Conference

ASX:LTR

May 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

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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

01.

Investment
Highlights

02.

Corporate Overview
and Strategy

03.

Lithium Market
Update

04.

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Project

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Strategy

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Investment Highlights



Globally significant
Tier 1 project



Robust lithium
thematic, timed
to perfection



ESG core
to strategy



Foundational
offtake agreements
with LG Energy
Solution and Tesla



Clear long-term
strategy with
material value
upside



Well capitalised
with strong
flexibility



Experienced leadership
strongly aligned to
shareholders



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.

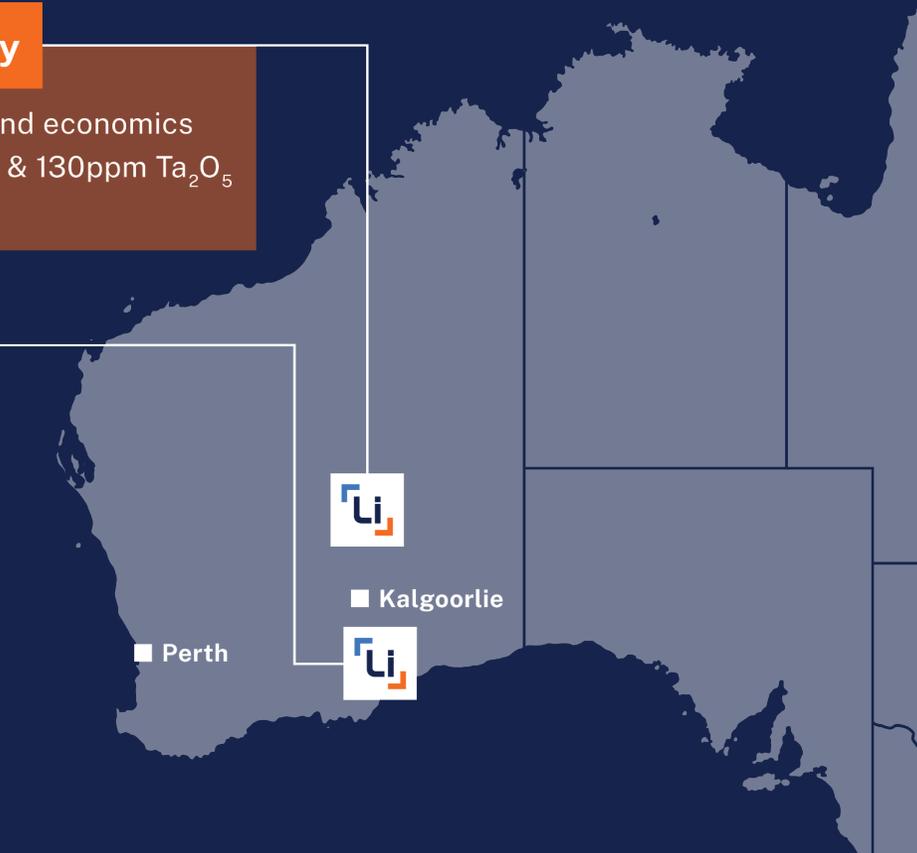
Liontown is focused on the development of the world-class Kathleen Valley Lithium Project

Kathleen Valley

World-class scale and economics
156Mt @ 1.4% Li₂O & 130ppm Ta₂O₅
High-grade

Buldania

15Mt @ 1.0% Li₂O
Resource upside



Corporate Snapshot

(2 May 2022)

Market Cap

A\$3.1bn

Share price (\$/s)

A\$1.43

Shares on issue

2,192m

Major Shareholders



Cash and term deposits¹

A\$466m

Research coverage



1: Balance as of 31 March 2022.



Board & Management

Board of Directors



Tim Goyder
Chairman

+40 years (Mining Executive)
Founder of Chalice Mining



Craig Williams
Non-Executive Director

+40 years (Geologist) Founder
and CEO of Equinox Minerals



Anthony Cipriano
Lead Independent Director

+30 years (Chartered Accountant)
Former Senior Partner at Deloitte



Jennifer Morris
Non-Executive Director

+20 years (Corporate Executive) Director of
Fortescue Metals and Sandfire Resources



Steven Chadwick
Non-Executive Director

+40 years (Metallurgist)
Director of Lycopodium Limited



Shane McLeay
Non-Executive Director

+25 years (Mining Engineer) Founder and
Principal Entech, former GM Gwalia Gold Mine



Tony Ottaviano
Managing Director

+30 years (Mech. Engineer) Former BHP,
Rio Tinto, and Wesfarmers executive



Executive Leadership



Tony Ottaviano | Managing Director

+30 years (Mech. Engineer)
Former BHP, Rio Tinto, and Wesfarmers executive



Adam Smits | Chief Operating Officer

+20 years (Mech. Engineer)
Former COO Nzuri Copper



Craig Hasson | CFO

+15 years (Chartered Accountant)
Commercial & Financial experience

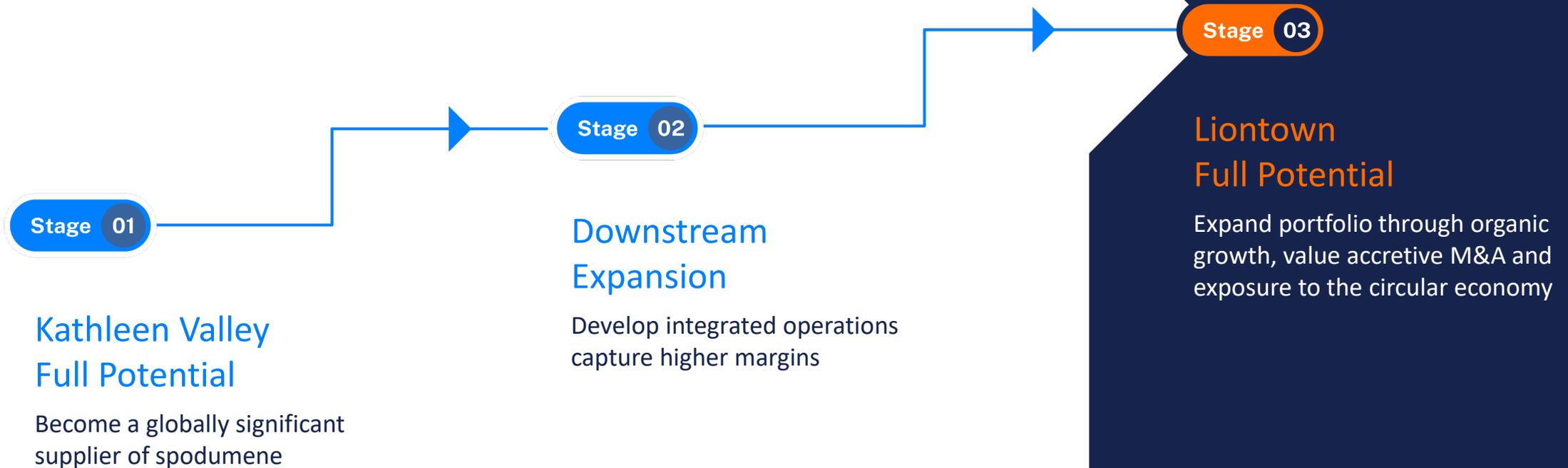


Clint McGhie | Company Secretary

+15 years (Chartered Secretary and
Chartered Accountant)
Commercial & Governance experience

Liontown's Strategy

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

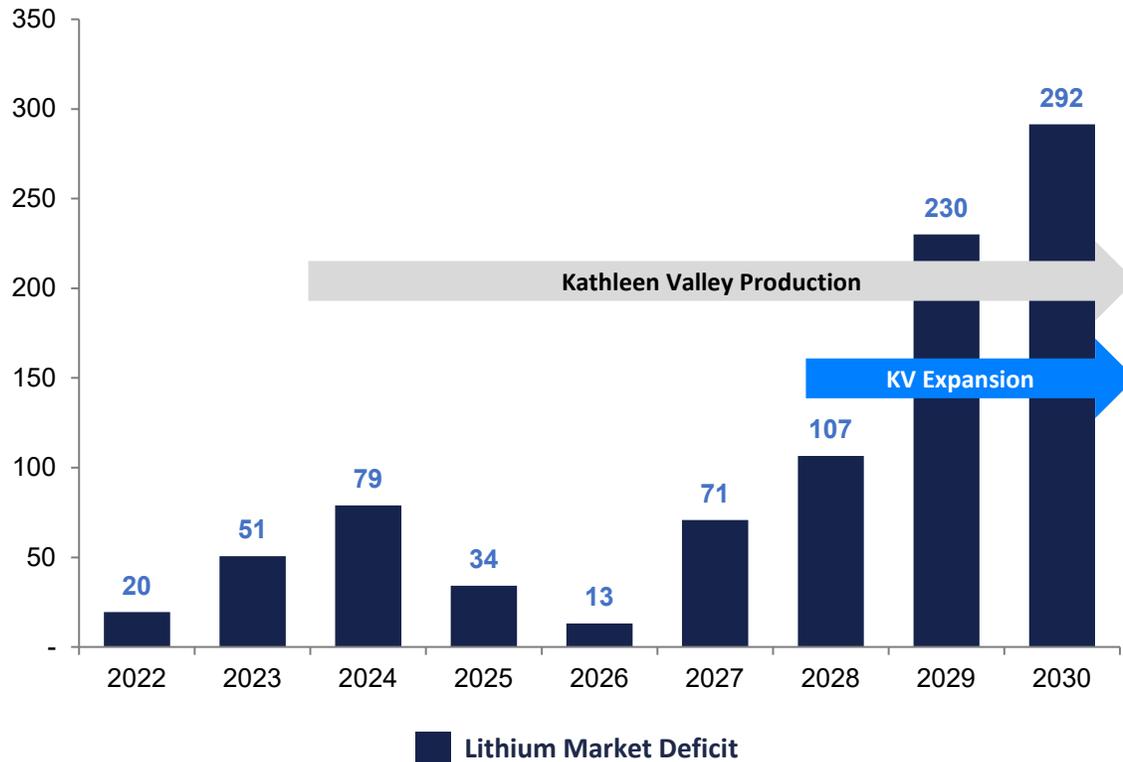




Lithium Market Update

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

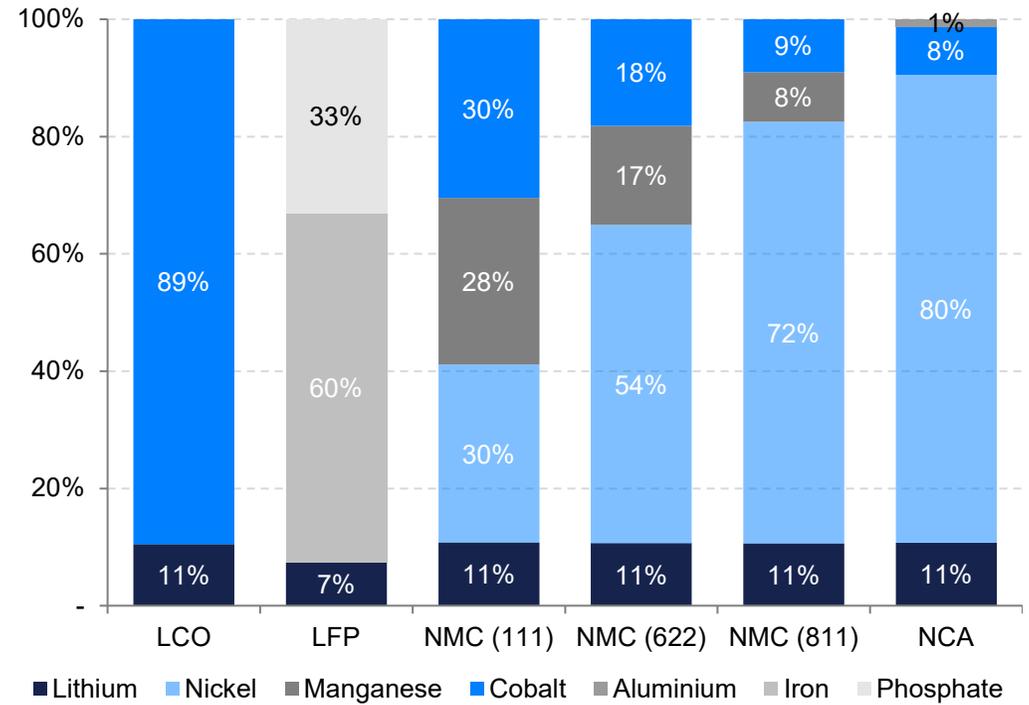
Global lithium market deficit, 2022-30, kt LCE



Source: Macquarie Research

Metals content of Li-ion battery cathodes by mass¹

Share of total (%)

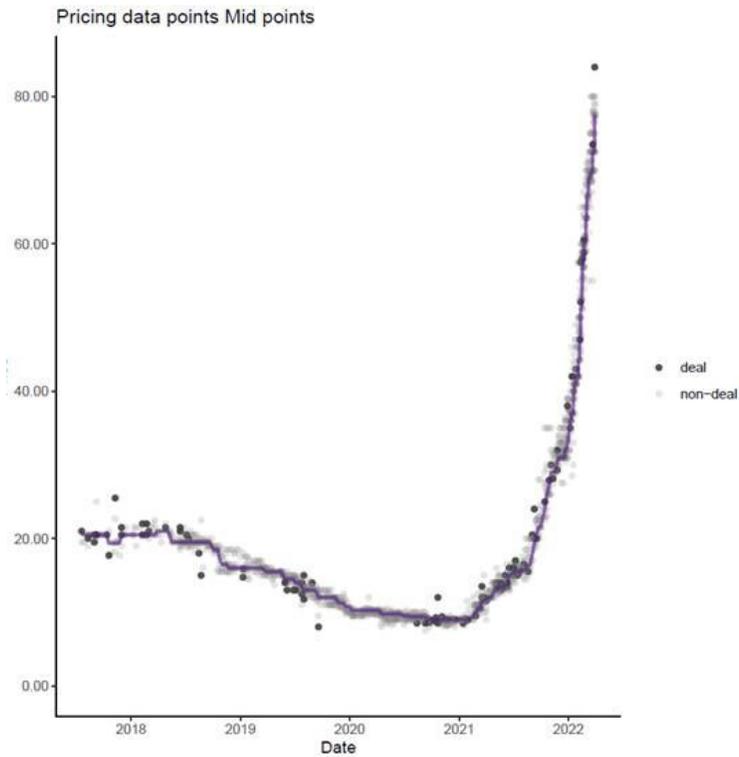


Source: WoodMac 1. WoodMac, shown exclusive of oxide

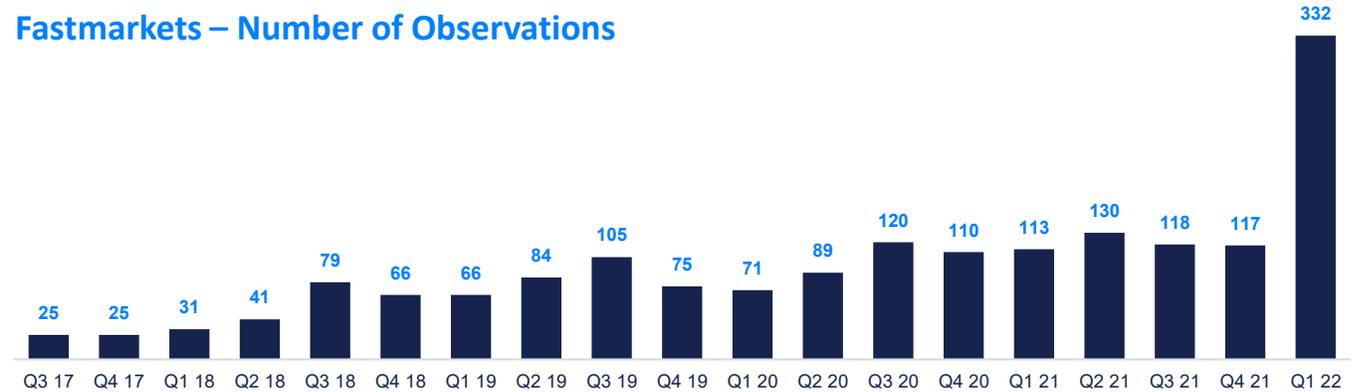
How Do We Price Our Product?

Liontown believes price transparency will continue to evolve and underpin reliable pricing for lithium hydroxide and spodumene

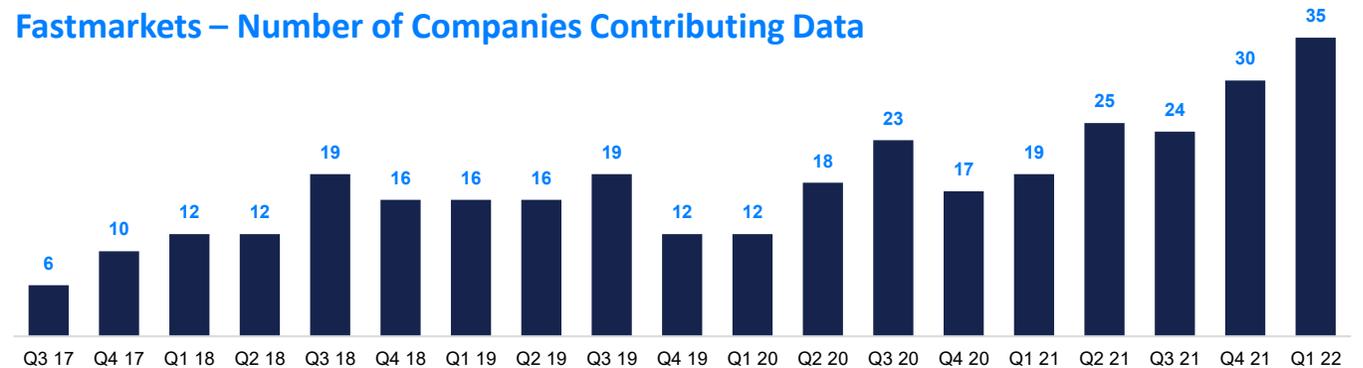
LiOH Seaborne Prices (Fastmarkets, US\$/kg)



Fastmarkets – Number of Observations



Fastmarkets – Number of Companies Contributing Data

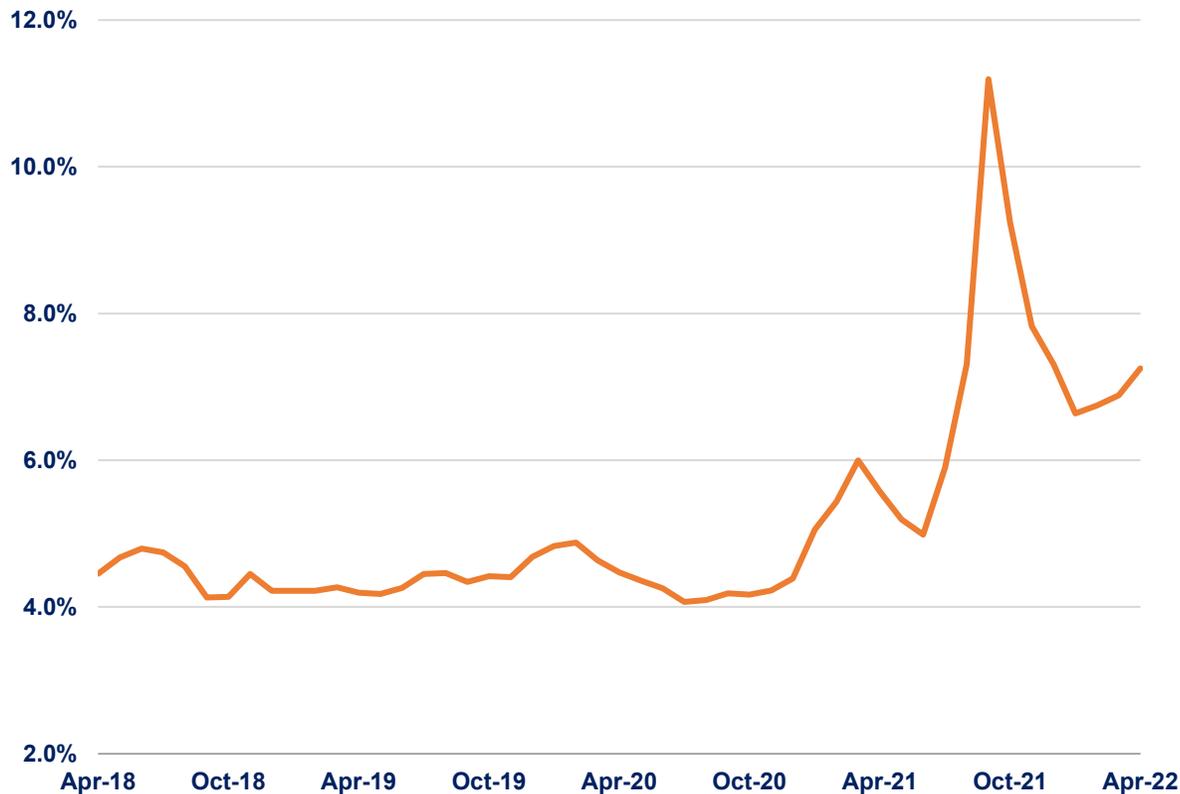




Spodumene Pricing Evolution

Spodumene producers are increasingly moving towards formula-based pricing for offtake contracts as a way of determining price and capturing greater margin share within the lithium supply chain

Spodumene Price as % of Hydroxide Price¹



1. Monthly average of Fastmarkets' Spodumene min 6% Li₂O, spot price, cif China, \$/tonne index as a % of Fastmarkets' Lithium hydroxide monohydrate LiOH.H₂O 56.5% LiOH min, battery grade, spot price cif China, Japan & Korea, \$/kg (converted to \$/tonne)

- Spodumene prices have historically been 4.0% - 4.5% of the lithium hydroxide price based on Fastmarkets price reporting
- This ratio increased to 11.2% in September 2021, it is now sitting at 7.3% in April 2022
- Market volatility demonstrates search for a new equilibrium or reference
- Volatility also across indices (e.g. Fastmarkets, Benchmark, Datamyne, etc.) also demonstrates need for agreed and true reference pricing for sellers and buyers
- There is an inherent relationship between the lithium hydroxide price and spodumene price, given spodumene is the key raw material input for lithium hydroxide
- A more liquid and transparent spodumene index will be developed over time, which more accurately reflects supply and demand
- Value chain “rent” will be reapportioned resulting in increased margin share to spodumene producers
- Until such an index is developed, Liontown’s offtakes will be determined with a formula-based pricing structure

Kathleen Valley's ESG Focus

Aspirational Net Zero¹ Timeline of 10 Years



1. From start of production 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.

Kathleen Valley Project Update – DFS Economics

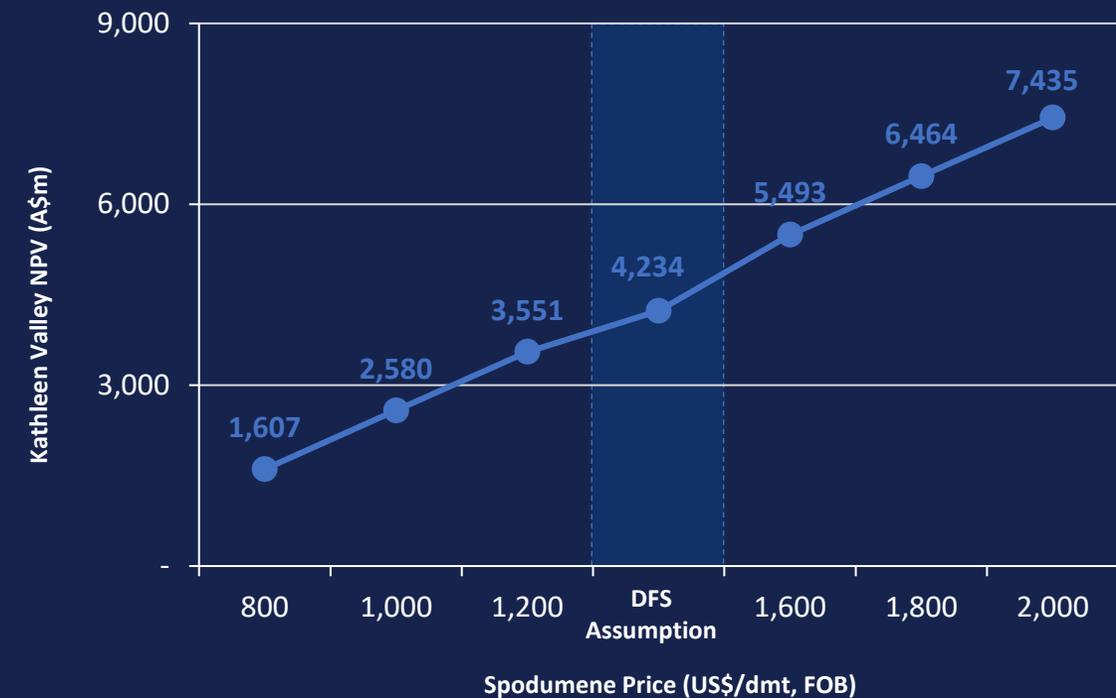
Kathleen Valley Project delivers compelling economics at prices well below current spot of US\$5000/dmt

November 2021 DFS Key Metrics

Based on April 2021 MRE – 156Mt @ 1.4% Li₂O and 130ppm Ta₂O₅

NPV ¹ (post-tax)	A\$4.2B
IRR / Payback	57% / 2.3 years
Product	6.0% Spodumene Concentrate
SC6 Opex Years 1-5 ² (FOB)	US\$402/dmt US\$314/dmt (excl. royalties)
SC6 Opex Years 1-10 ² (FOB)	US\$417/dmt US\$319/dmt (excl. royalties)
Avg. SC6 Price Years 1-10 ⁴ (FOB)	US\$1,287/dmt (Based on Roskill price)
AISC Years 1-10 ³ (FOB)	US\$452/dmt
Capex ⁵	A\$473M (incl. \$107M Pre-production)

Kathleen Valley NPV at Various Spodumene Prices



1. Real discount rate of 8%, AUD:USD of 0.73. 2. Operating costs include all mining, processing, transport, state and private royalties, freight to port, port costs and site administration and overhead costs (includes tantalum credits), exclude sustaining capital. 3. All in Sustaining Capital Costs (AISC), as referred to in this announcement, are cash operating costs including all mining, processing, transport, freight to port, port costs, site administration/ overhead costs, tantalum credits, state and private royalties and sustaining capital. 4. Based on Roskill November 2021 price forecasts. 5. Project totals exclude working capital, finance costs, sustaining capital and corporate costs associated with project development

Kathleen Valley Project – Underground Mining

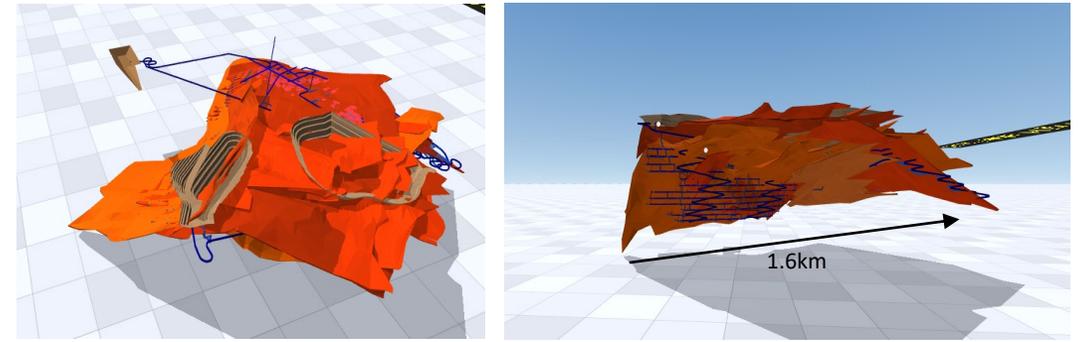
We have a bias to underground mining since it significantly enhances ore selectivity whilst minimizing our surface footprint.

Distinct Benefits of Kathleen Valley

- **Long hole open stoping 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

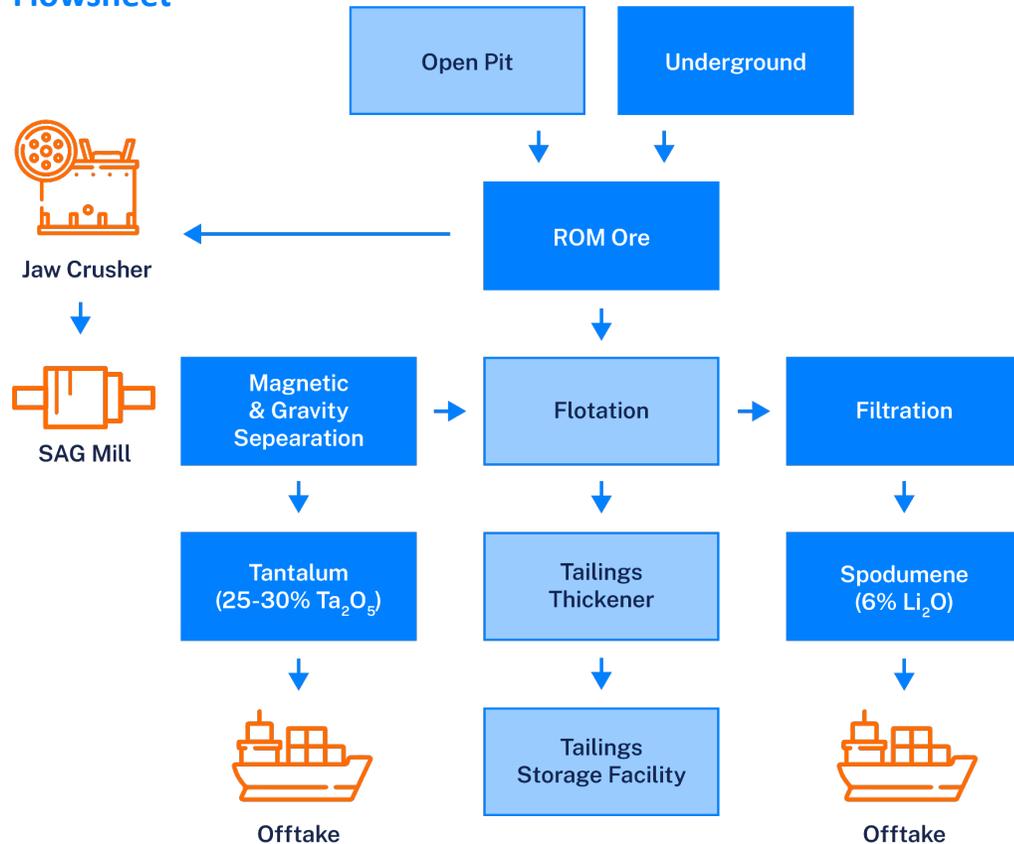
- Mining costs have been derived **from multiple tenders received based on the actual mine schedule**, not just unit rates applied to volumes
- Liontown’s mining costs are A\$56/t ore mined (all in), and **supported by analysis of comparable projects**



Processing Strategy

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

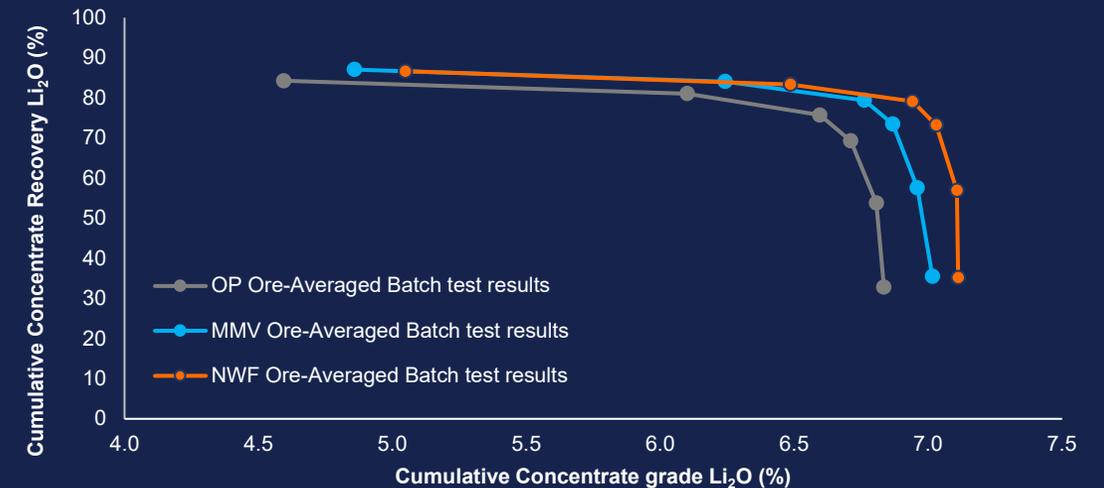
Flowsheet



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

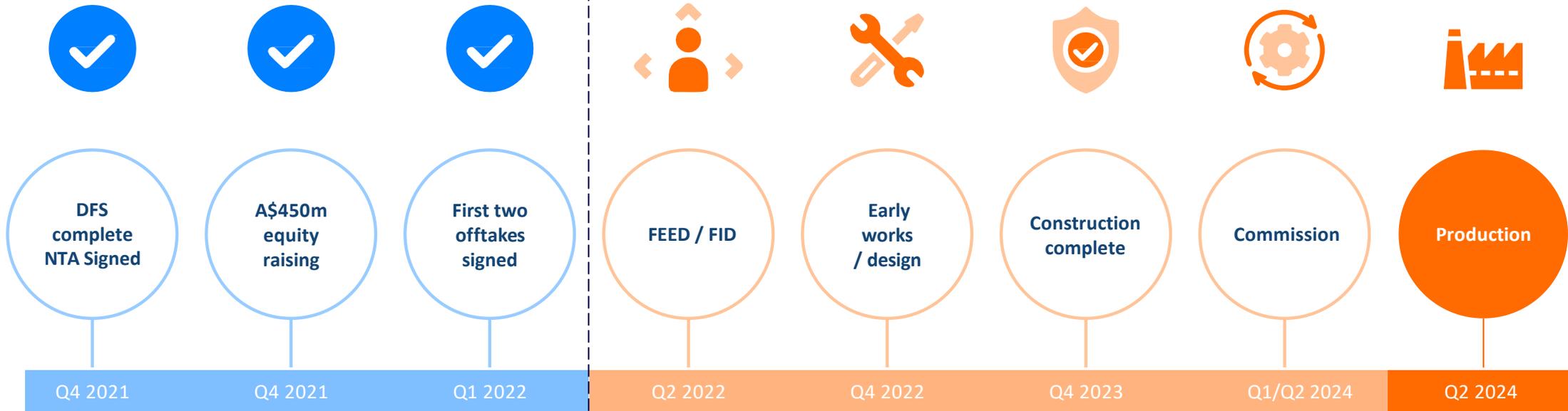


1. OP = Open Pit, MMV = Mount Mann Vertical, NWF = NorthWest Flats

2024 Production Target

PROJECT MILESTONES ON SCHEDULE

LIONTOWN POSITIONED TO DELIVER PROJECT ON SCHEDULE



Continued assessment of growth and downstream processing options

Kathleen Valley Project Update – FID is approaching



Remain on track for 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



Financing well advanced with domestic and international commercial banks



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

Kathleen Valley Project Update

Procurement Update and Partnership Model

Working collaboratively with stakeholders and partners will help streamline development of Kathleen Valley Project and ensure on time and on budget delivery – Work with the best and deliver the best!

Detailed Design Procurement Status

Responsibility	Estimated Total Packages	IFT Packages Issued		Tender Packages Received		PO Contract Award
		Planned	Actual	Planned	Actual	
Contracts	3	0	1	0	0	0
Civil	2	1	0	0	0	0
Structural	1	1	1	1	1	0
Platework	1	0	0	0	0	0
Mechanical	59	32	32	28	30	7
Piping	11	1	0	1	0	0
Electrical and Instrumentation	25	2	3	1	2	0
Total	102	37	37	31	33	7



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\$933bn	US\$76bn
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 2 May 2022, LG Energy Solution and Tesla; 1. By market capitalisation; 2. Dry basis.

Downstream Processing Opportunity

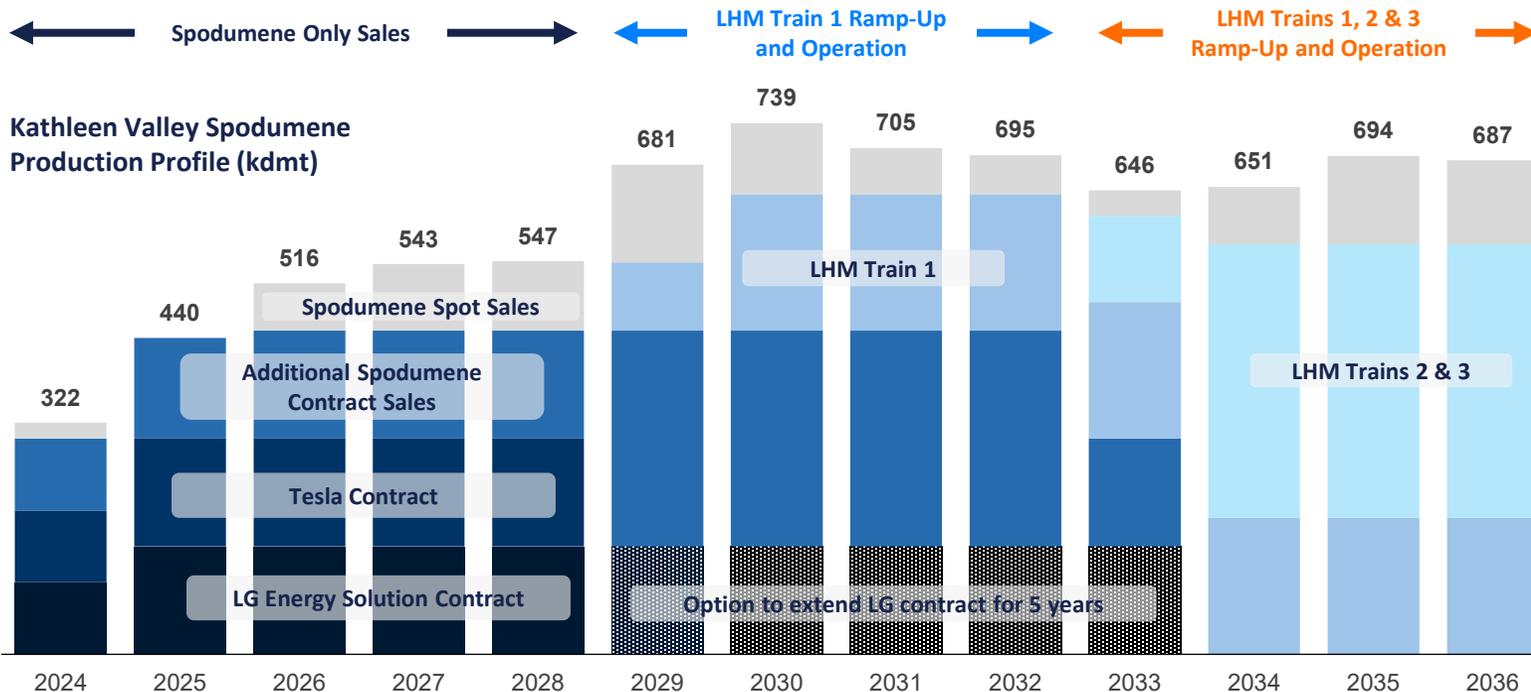
The **2021 updated DSS confirmed**: Value maximizing pathway for Liontown is a staged-build, integrated mining, processing and refining operation producing Lithium Hydroxide Monohydrate (“LHM”)



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



Funding Update and Strategy

Following execution of a successful equity raising in December 2021, Liontown is well placed to fund the remainder of the short-term requirement with debt or other sources. In particular, discussions with Tier-1 institutions are well-progressed for the entirety of the remaining funding requirement

Short-term funding requirement

Kathleen Valley Spodumene Capex

Equity

- Completed institutional placement and SPP in December 2021
- Strong demand received from high-quality domestic and offshore institutions providing a strong endorsement of Liontown’s world-class Kathleen Valley Project

Debt

- Well-progressed discussions with from tier 1 domestic and international financial institutions, with strong interest from a number of parties
- Detailed due diligence underway, collaborative approach with potential lenders given significance of project

Other

- Liontown exploring other financing options (e.g. “Green loans”, customer pre-payments, streaming opportunities, etc.)
- Terms would need to be attractive to compete with traditional financing terms indicatively offered

Long-term funding

Kathleen Valley Spodumene Expansion Capex

Internal Cash Flows

- Liontown expects the Kathleen Valley spodumene expansion will be funded through internally generated cash flows

Downstream Scoping Study Capex

Internal Cash Flows or Other

- Current estimated project cashflows sufficient to fund but optionality remains to fund via traditional debt / equity markets or other sources (e.g. downstream partner, etc.)

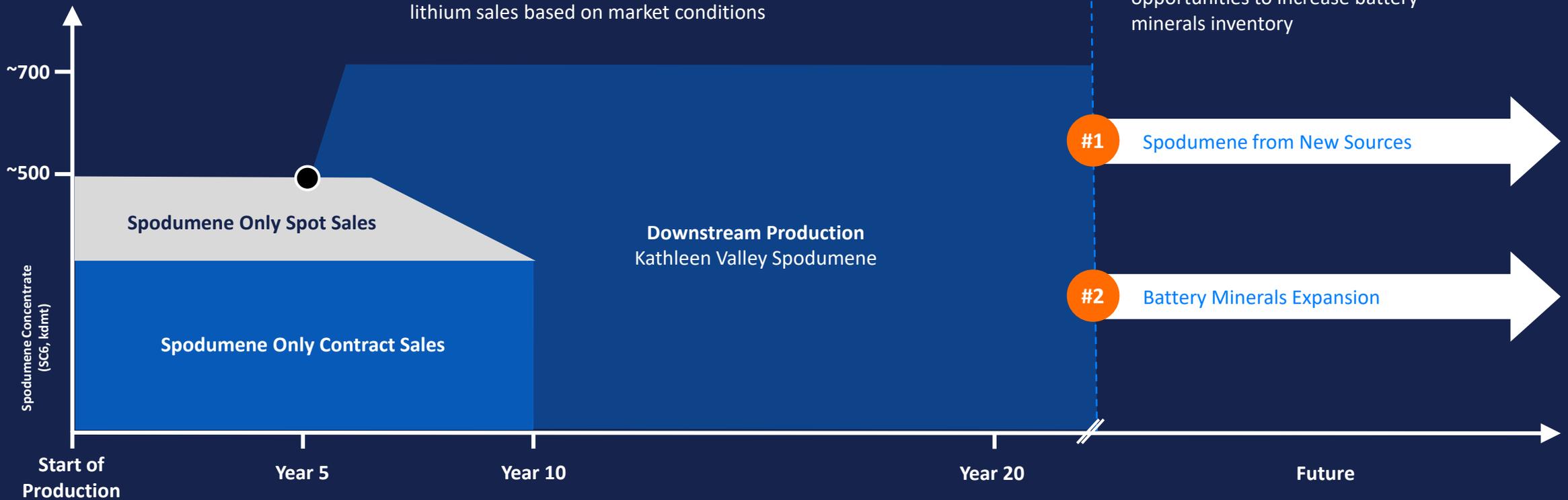


Liontown's Long-Term Strategy

Liontown is planning for the future

Kathleen Valley Spodumene

Optionality for spodumene or processed lithium sales based on market conditions



Future Supply

Liontown is continuously exploring opportunities to increase battery minerals inventory

- #1 Spodumene from New Sources
- #2 Battery Minerals Expansion



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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