



Fast charging towards a low carbon future

Investor Briefing

ASX:LTR

July 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.

As detailed in the ASX announcement "Liontown Board approves development of Kathleen Valley Lithium Project" released on 29 June 2022, as part of the Final Investment Decision, the capital expenditure budget for the Kathleen Valley Project was increased to \$545 million. 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 the updated capital expenditure budget referenced in the announcement dated 29 June 2022 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.



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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 funding to first production secured, and production expected to coincide with a significant spodumene market deficit



ESG core to strategy

- Liontown 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



Fully funded to first production

- Kathleen Valley funded to first production following A\$463m equity raise and \$300m Ford debt facility executed
- Debt facility on market-leading terms, indicating significant confidence in the market



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 secured

- Foundational offtakes secured with Tier-1 battery supply chain participants LG Energy Solution, Tesla and Ford
- Pricing mechanisms linked to lithium hydroxide positions Liontown to capture margin



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

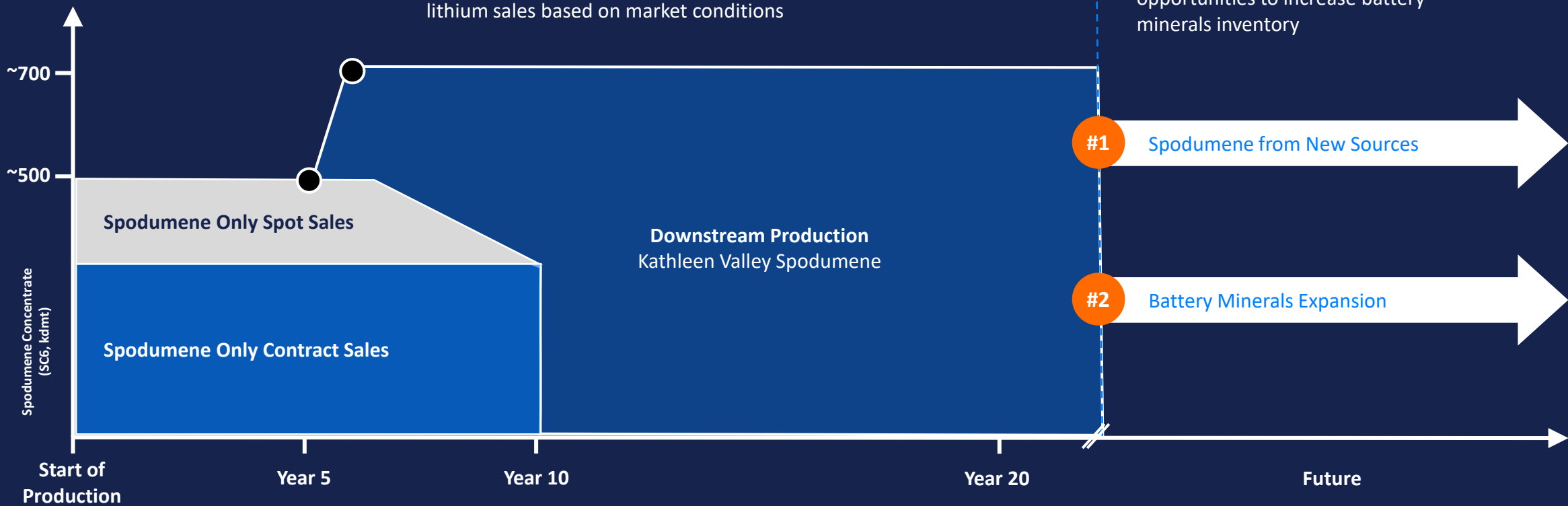


Liontown's Long-Term Strategy

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

Kathleen Valley's ESG Focus

Aspirational Net Zero¹ Timeline of 10 Years

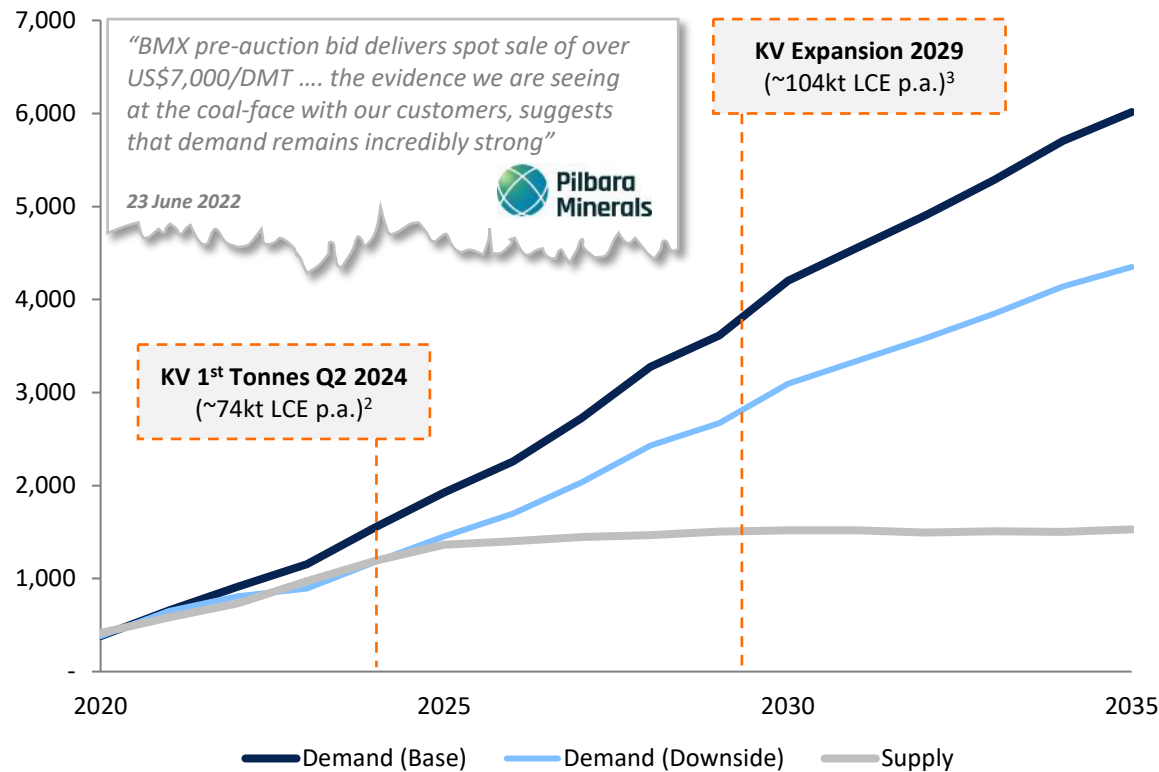


1. From start of production production (excludes potential downstream refinery operations) 2. GRI: Global Reporting Initiative 3. TSM: Towards Sustainable Mining
 4. SASB: Sustainable Accounting Standards Board. 5. TCFD: Task Force on Climate Related Financial Disclosures. 6. IRMA: Initiative for Responsible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

Lithium Supply Dynamics

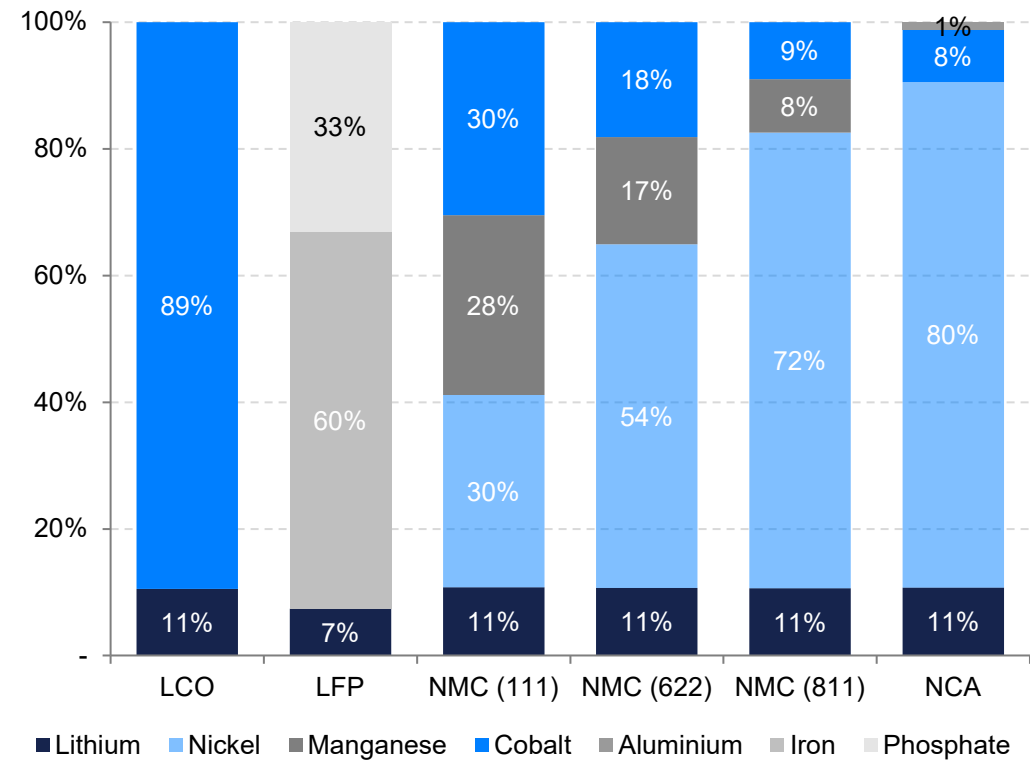
Forecast lithium market deficit is expected to continue and grow out to 2030, driven by tight supply. Analysts estimate that it can take up to 10 years for a lithium project to go online, leaving supply tight in the nearer future. There is currently no substitute for lithium in Li-ion cathodes

Demand / supply forecast, 2020-35, kt LCE¹



Metals content of Li-ion battery cathodes by mass¹

Share of total (%)



Source: Boston Consulting Group analysis

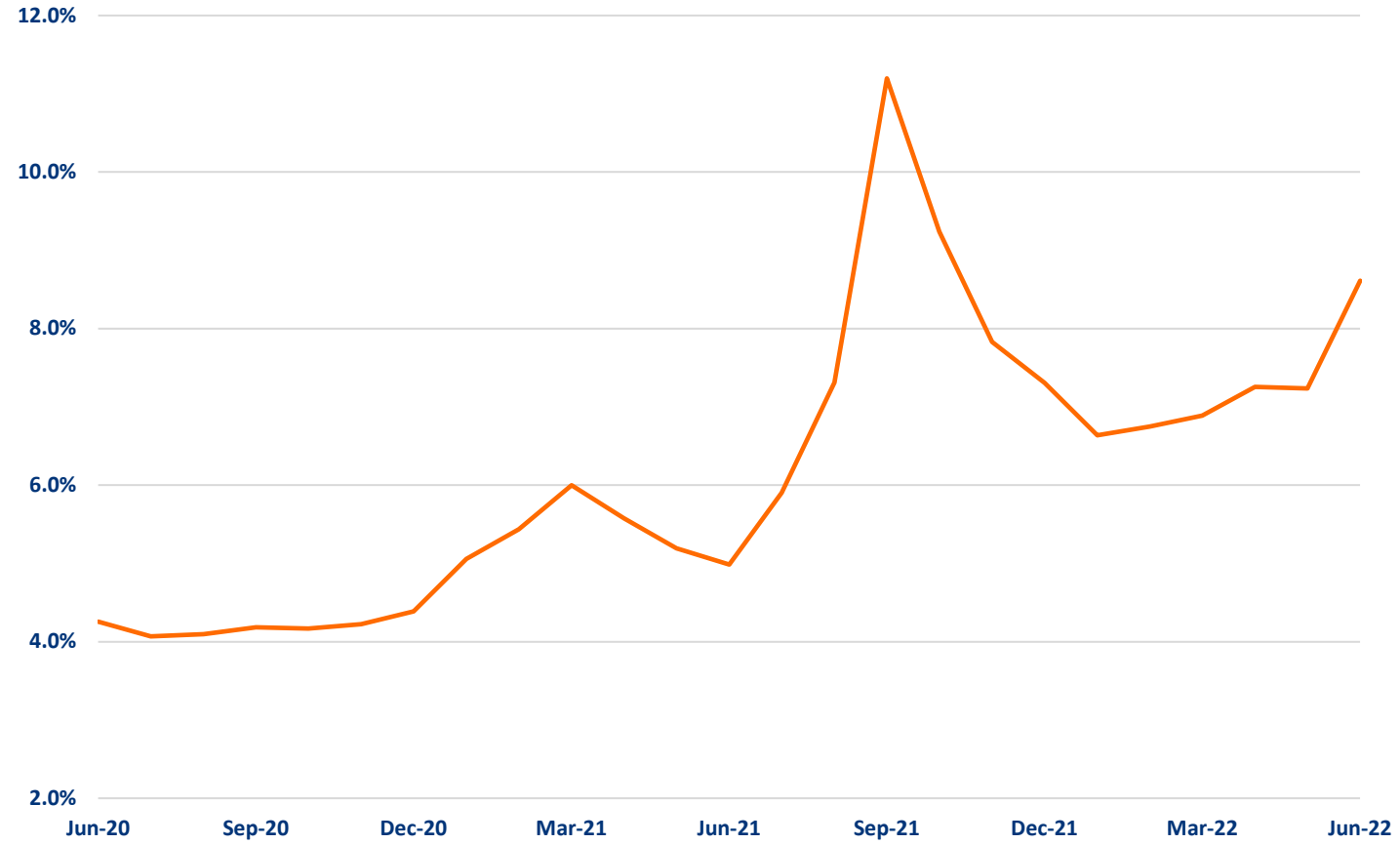
1. Only costed supply based on current and future known projects taken into account
2. Based on production of 500kt SC6.0 per annum (Calculation: 500kt SC6 * 6.0% Li₂O * 2.473 Conversion Factor = ~74kt LCE)
3. Based on production of 700kt SC6.0 per annum (Calculation: 700kt SC6 * 6.0% Li₂O * 2.473 Conversion Factor = ~104kt LCE)

Source: WoodMac 1. WoodMac, shown exclusive of oxide

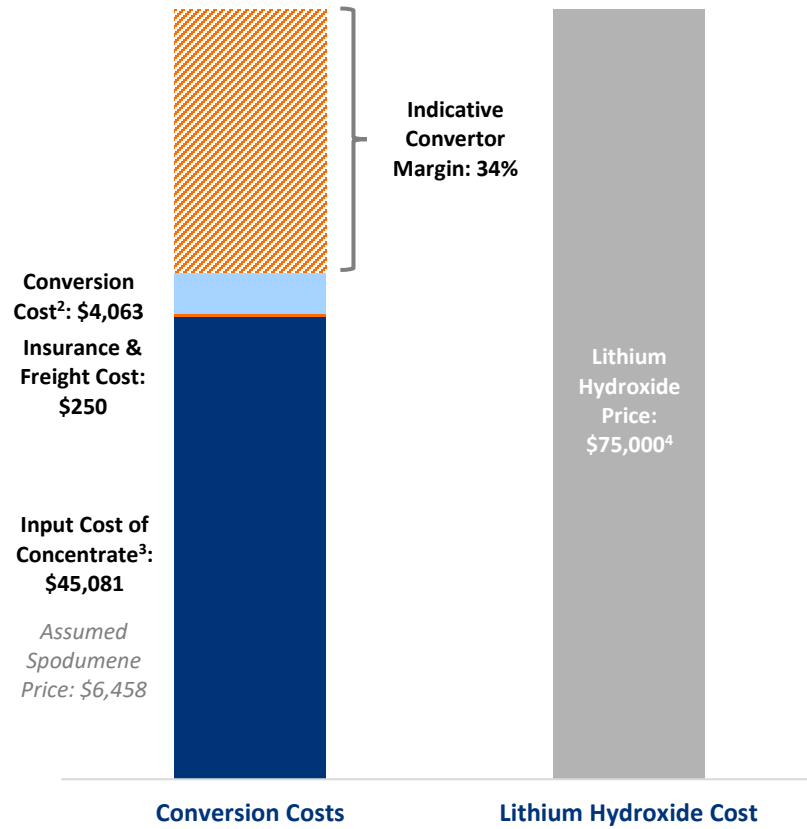
Spodumene Pricing Evolution

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. Even at current spot spodumene prices, converters are maintaining healthy margins based on the prevailing lithium hydroxide prices

Spodumene Price % of Hydroxide Price¹



Illustrative Converter Margin at Current Prices (US\$/t)



Source: Fastmarkets. All prices displayed in USD

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)
 2. Assumed conversion cost allowance of up to A\$6,000/t
 3. Input cost implied from SC6 to LHM multiplier of 6.98, based on assumed conversion recovery as low as 85%. Indicative calculation: 6.98 x US\$6,458/dmt (June 2022 monthly average of Fastmarkets' Spodumene min 6% Li₂O spot price, CIF China, \$/tonne)
 4. June 2022 monthly average Fastmarkets' Lithium hydroxide monohydrate LiOH.H₂O 56.5% LiOH min, battery grade, spot price CIF China, Japan & Korea, \$/kg (converted to \$/tonne)

Tier 1 Offtake Partners Secured

Tesla, LG Energy Solution and Ford confirmed as cornerstone offtake partners. Electric vehicles represent the vast majority of lithium demand and its forecast growth, by contracting directly with automotive OEMs Liontown is well positioned for exposure to the fastest growing segment of the market

Our Offtake Partners



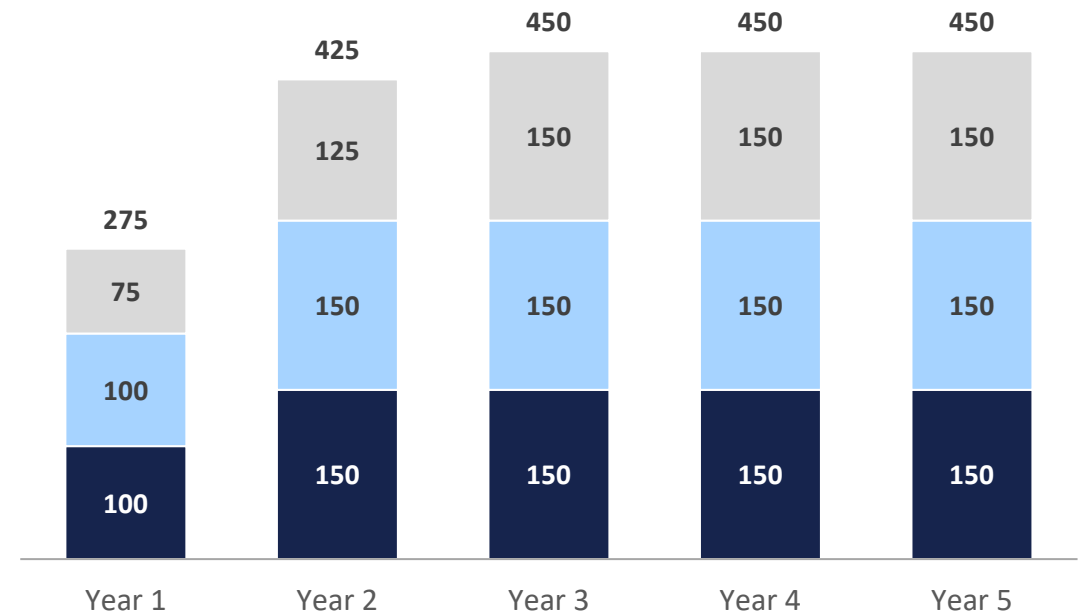
Company overview			
Description	Largest EV automotive company globally ¹	Second largest battery manufacturer globally ¹	Leading global automaker
Headquarters			
Market capitalisation	US\$706bn	US\$64bn	US\$46bn
Select key customers			
Offtake key terms			
Term	5 years	5 years + 5 year extension option	5 years + 5 year extension option
Quantum²	100ktpa Yr 1 150ktpa Yr 2 – 5	100ktpa Yr 1 150ktpa Yr 2 – 5	75ktpa Yr 1 125ktpa Yr 2 150ktpa Yr 3 – 5
Pricing	Formula-based mechanism referencing market prices for lithium hydroxide		

Offtake Commitments

Offtake commitments now stand at up to 450,000 DMT per annum of spodumene concentrate, representing approximately 90% of Kathleen Valley's start-up SC6.0 production capacity, with the balance for the spot market

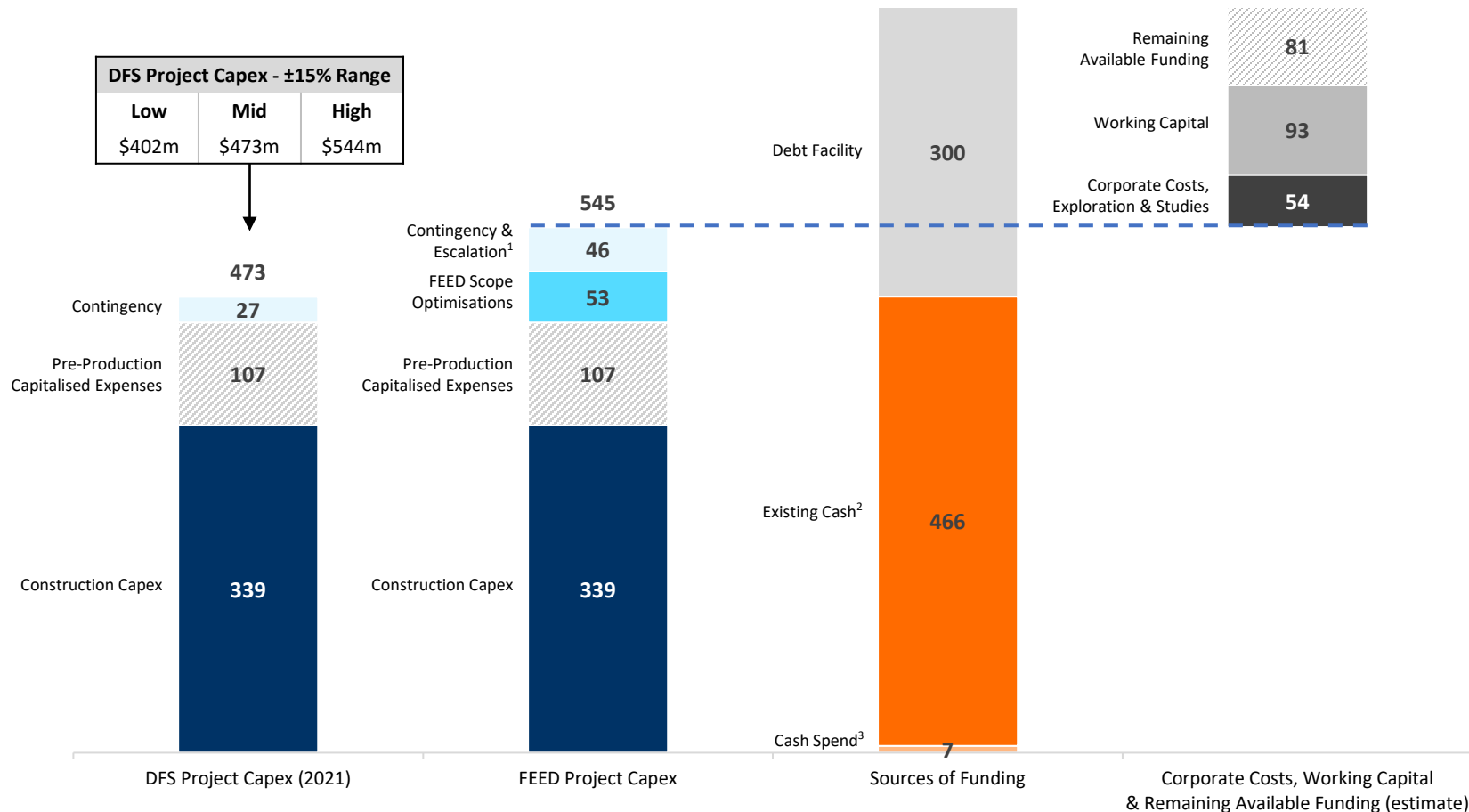
Offtake Profile (kdmt SC6.0)

■ Tesla ■ LGES ■ Ford



Kathleen Valley Funded To First Production

Debt facility provided by Ford, along with proceeds from Liontown's A\$463m capital raise in December 2021, means Kathleen Valley is now funded to first production



1. Escalation accounts for inflationary adjustment to capital expenditure; 2. As at 31 March 2022; 3. Project and Corporate cash spend 1 January 2022 to 31 March 2022

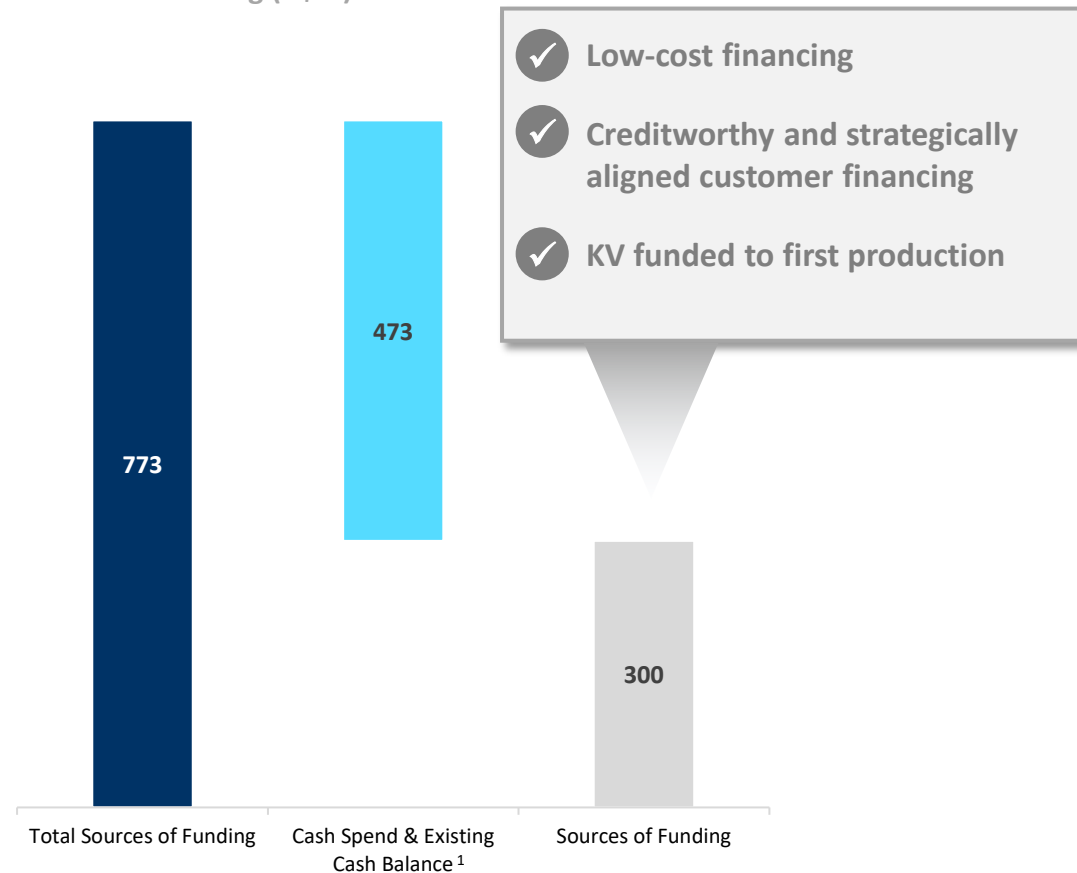
- As part of optimising the FEED scope, Liontown has revised its 2021 DFS pre-production capital cost estimate
- Increase is driven primarily by optimisation and expansion of the FEED scope and general cost escalation
- Variations will improve operational flexibility and include adjustments that are expected to deliver positive improvements on Kathleen Valley's process control and operating costs over LOM
- Debt facility and the proceeds from Liontown's A\$463 million capital raise, also provide for:
 - Working capital to support start-up and operational requirements
 - Corporate and exploration expenditure
 - Remaining funding capacity

Liontown Funding Strategy Executed

Ford will provide a A\$300 million debt facility to Liontown, with the proceeds to be used towards partially funding the development costs of Kathleen Valley

Attractive Financing Secured

Sources of Funding (A\$m)



1. Existing cash as at 31 March 2022; Project and Corporate cash spend 1 January 2022 to 31 March 2022

Material Terms of Debt Facility

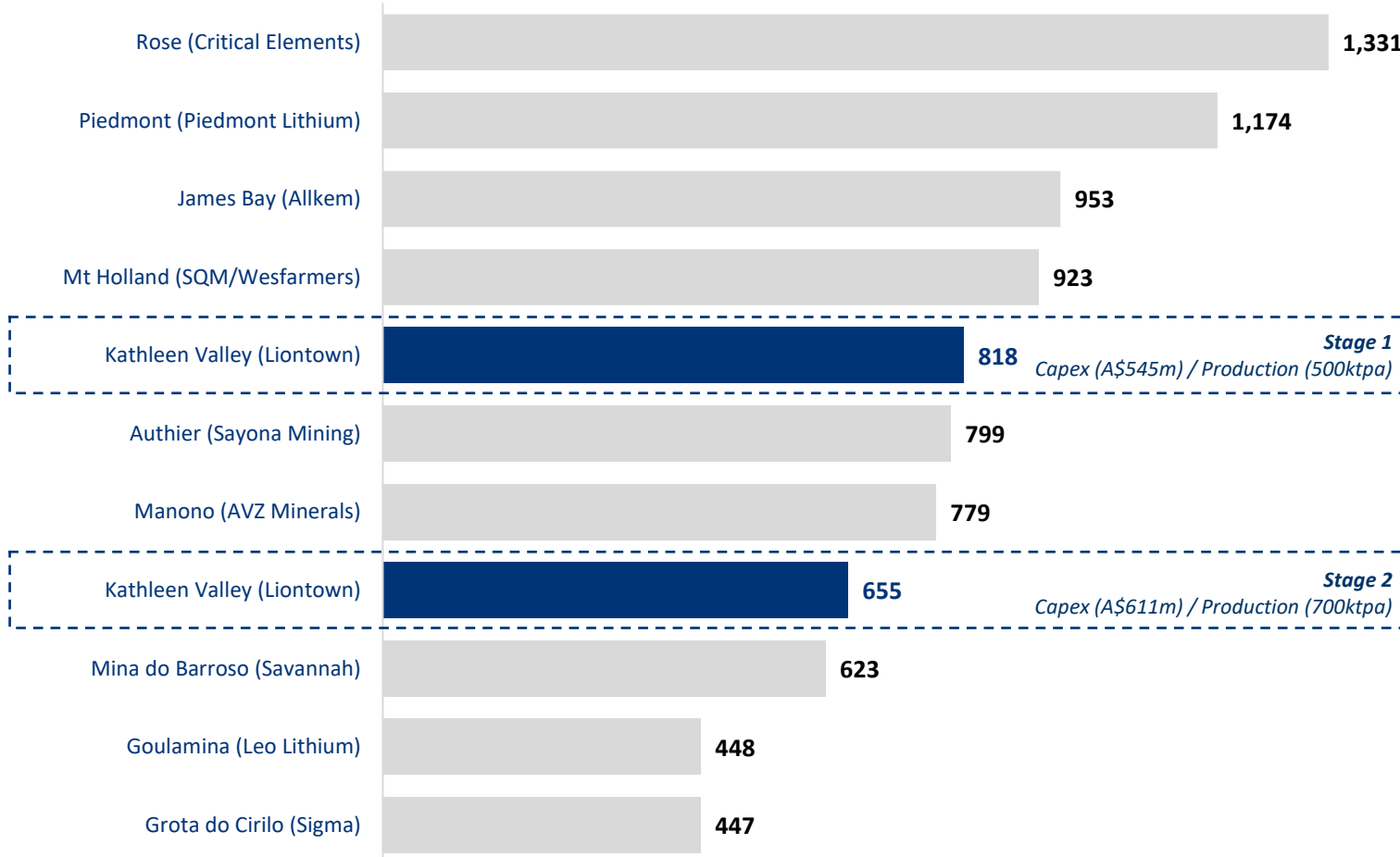


Facility:	Senior-secured debt facility of A\$300,000,000
Conditions to draw down:	Liontown having spent a defined threshold amount on the project and no continuing Default.
Interest:	Bank Bill Swap Rate (BBSW) plus a fixed margin of 1.5%. Interest to be capitalised until the earlier of the supply commencement date under the Offtake Agreement or 1 September 2025.
Repayment:	Quarterly from the supply commencement date, subject to an agreed schedule over a five year repayment period, including a balloon repayment of a portion of the facility amount on maturity. Additional voluntary repayments will also be made in certain circumstances including where the borrower (a wholly owned subsidiary of Liontown Resources Limited) distributes excess cashflow to Liontown Resources Limited. If supply commencement date does not occur by 1 September 2025, then all amounts owing under the facility will be due and payable.
Maturity:	5 years from supply commencement date.
Security:	Senior security over the Kathleen Valley project assets and shares in the borrower (a wholly owned subsidiary of Liontown Resources Limited).

Kathleen Valley's Capital Intensity

Kathleen Valley's capital intensity has been benchmarked with peers. Liontown has built an experienced team and established a Project Committee to manage delivery of the project on budget

Capital Intensity of Comparable Projects (US\$/tpa)^{1,2}



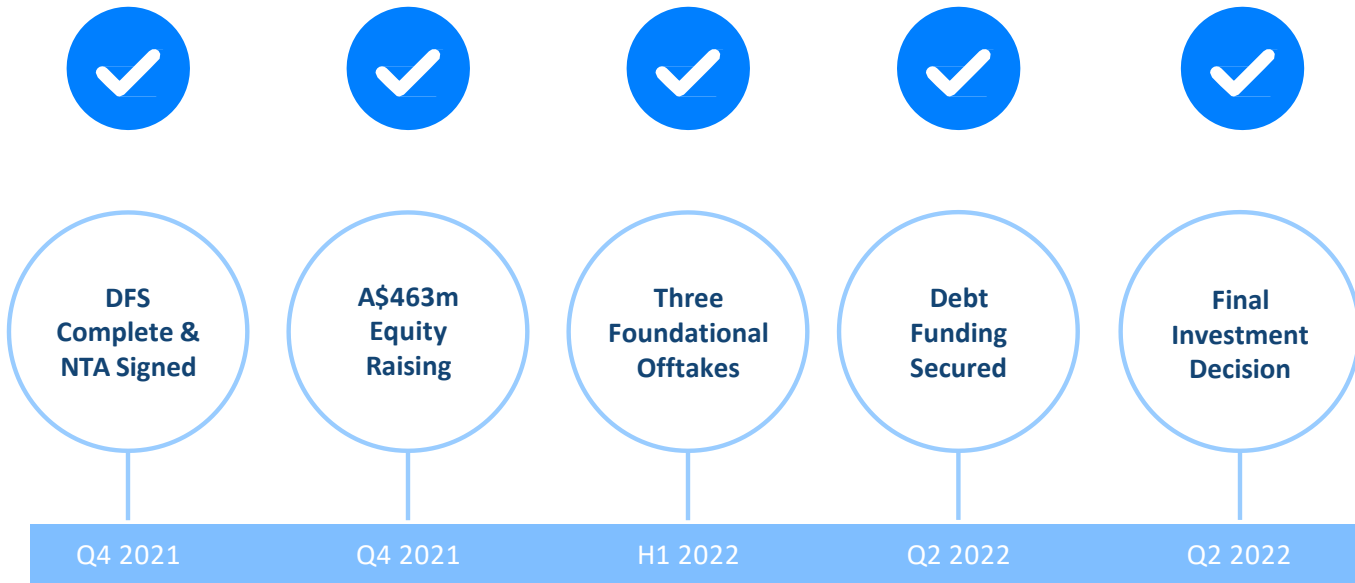
- Kathleen Valley's Stage 1 capital intensity is in line with peers, in the middle of the range of comparable projects
 - Following expansion, Kathleen Valley will have a strong capital intensity position
- Liontown continues to adopt a disciplined approach to capital management, with all key milestones hit to date
 - Experienced team built (with new hires expected) to drive project delivery
 - Established Project Committee to oversee and manage project execution
- Simplicity of Liontown's circuit design supports ability to deliver project on budget
- Kathleen Valley's location within a well serviced mining region removes risks associated with isolated projects
- Significant overrun reserves available to support unforeseen adjustments to capital requirement

Note: 1. Capital intensity numbers sourced from Barrenjoey (includes pre-production projects, with >10 year LOM)
 2. Liontown capital intensity numbers based on internal estimates converted to USD at an exchange rate of 0.75 (for consistency with comparables)



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



Final investment decision made with early works on track for H2 2022



Detailed engineering progressing



Key contracts issued for tender, with bids under review



Procurement of long lead-time equipment well advanced



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



Kathleen Valley funded to first production



Offtakes in place with tier-1 customers for ~90% of production over first five years

Building a Company requires great foundations



License to Operate

- Do no harm. In all our activities we must send everyone home safe, every day.
- A real and deep relationship with the Native Title Holders, the Tjiwarl people
- Sustainability must be a core concept in all our operations.

ESG credentials – strategy turned into action and results



People

- Early engagement with experienced people that want to be part of the lithium industry
- Building a camp and roster conducive to attracting staff
- Strong interest from mining contractors
- Adopting security requirements - State Ministerial findings in Sexual Harassment

Recruitment process continues with high quality candidates



Systems

- Building-out internal functions
- Established framework and policies to dynamically manage operations
- Enterprise software for accounting, project controls, warehousing and plant maintenance in place by mid-CY2022
- Safety/ESG/Risk solution purchased

Systems are key to the ‘explorer to operator transition’



Operational Excellence

- Build technical capability from the ground up
- Listen to the front line and use their experience
- Adopting an operating system which eliminates waste and empowers the front line to improve the work we do

A way of working that makes improvement part of what we do everyday



Project Execution Strategy

Relentless pursuit of the basics to strive for good safety and execution discipline- The Liontown Way!

The Project Execution Strategy involves the following key attributes:

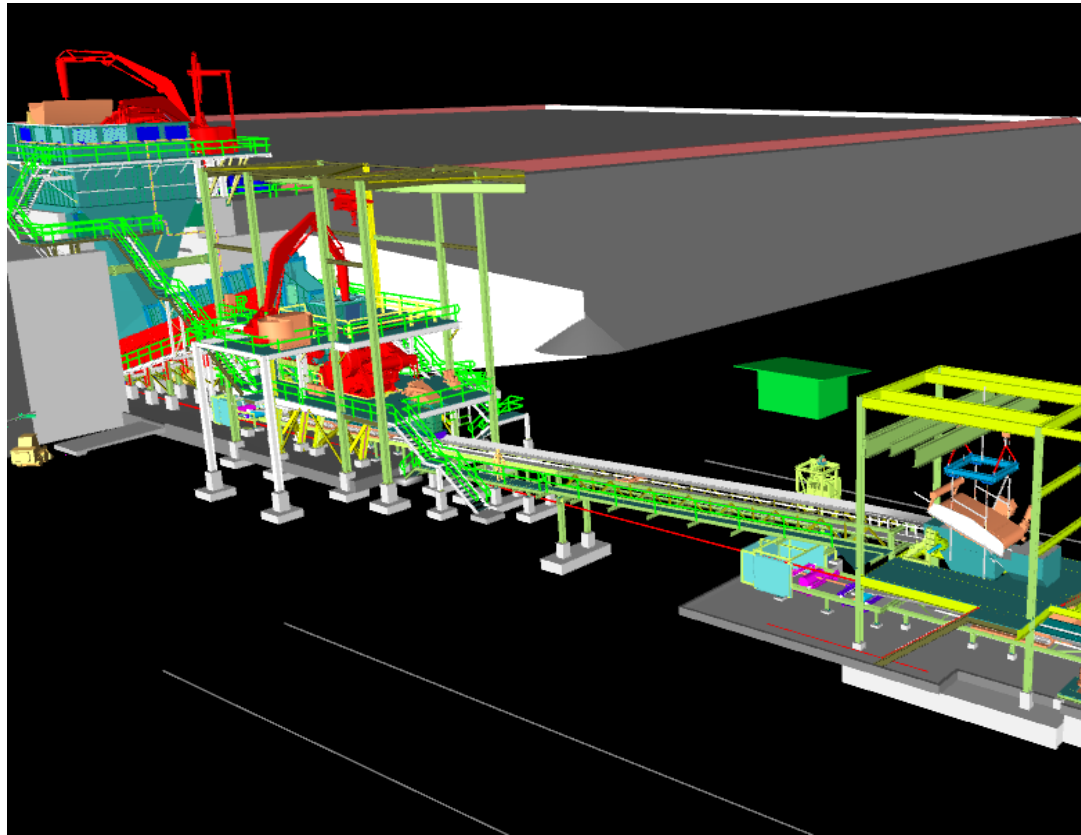
- Clear scope division and battery limits - *Complete*
- Formal engagement of a leading EPCM Contractor to complete all specialised engineering and construction works:
 - The contracting strategy will include a lump sum contract between the EPCM contractor and Kathleen Valley to de-risk the design & purchasing portion of the project (“EP Contract”) and reimbursable Construction Management (“CM Contract”) - *formal EPCM agreement close to award*
 - FEED scope will improve the Project’s operational flexibility
- Recognition and inclusion of native title holders in project works - *Fully incorporated into tendering process*
- Manage cost escalation in a challenging market:
 - Early procurement of long lead-time equipment via FEED process – *73% of total mechanical equipment packages by value now awarded to Tier 1 vendors; awarded total process plant and non-process infrastructure packages with an estimated value of A\$83 million*
 - Early engagement of critical contractors – *Underway (accommodation village supply and build contract awarded, bids for power, transport, bulk earthworks and open cut mining services received and under tender evaluation)*
 - Recognition of a need to adopt a design to build approach - *Considerable work focussed on offsite preassembly, panelisation of steelwork / redesign steel connectivity, transport envelop reviews, division of build scopes, etc. all underway*
- Establishing a blended owners team which has EPCM team members with critical skills embedded will ensure all parties are working diligently and efficiently towards a single common goal ...**safe and successful delivery of the Project on time and to budget**



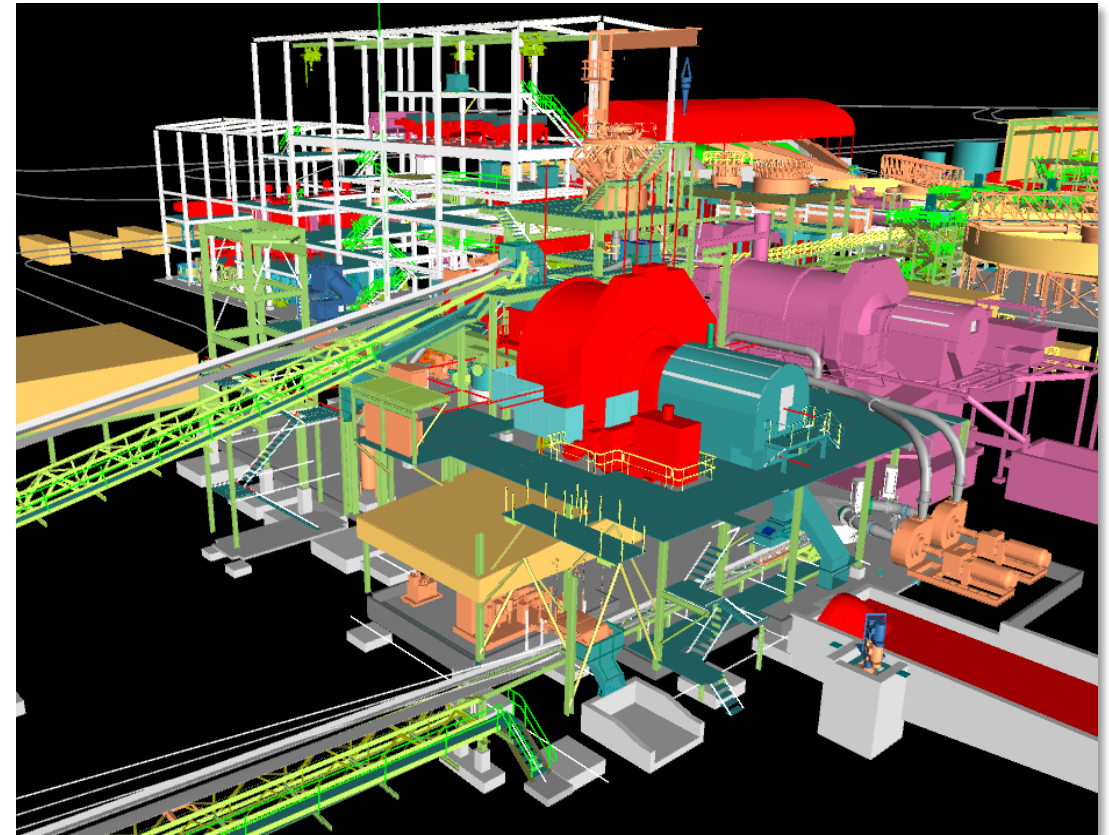
Kathleen Valley Design

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



Kathleen Valley Village

The Dragon fly takes off!

Camp works commenced!

- Contract awarded and off site manufacture of buildings commenced
- Camp layout and design finalised
 - 408 person camp over ~8+ hectares laid out in the shape of a dragonfly
 - Design driven by a key story important to the Tjiwarl people, the native title holders at the project site
 - Hotel style 15m² rooms, including disabled access, couple rooms and swipe card locks to be used on room doors
 - Camp facilities to include gym, wet mess, multifunction court, entertainment facilities, cafe, etc.
 - CCTV cameras and LED lighting powered by the planned hybrid power station utilised throughout the camp
- Large focus on water recycling, with Class A quality water from the campsite sewage treatment plant to be reused on the project
- Small Operations Mining Proposal approved - building and earthworks construction team engaged and mobilised
- Initial site work underway

First 80 rooms expected to be ready for use early Q4 2022





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 Award major contracts (including EPCM, Power Purchase Agreement, freight logistics and bulk earthworks) to established and high-quality contractors
- 2 Continue to advance detailed engineering and permitting
- 3 Accommodation village build and construction – first occupants Q4 2022
- 4 Continue to develop downstream strategy



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