

6 August 2024

## Kathleen Valley production milestones continue

Liontown Resources Limited (ASX: LTR) (**Liontown** or the **Company**) is pleased to announce the achievement of additional production milestones at its Kathleen Valley Lithium Project (**Kathleen Valley** or the **Project**) – with first underground development ore mined and first spodumene concentrate delivered to port. These milestones follow the achievement of first production through the entire Kathleen Valley value chain, as announced on 31 July 2024.

Liontown's Managing Director and CEO, Tony Ottaviano, will present at the 2024 Diggers and Dealers Mining Forum on Tuesday 6 August 2024 at 8:30am Australian Western Standard Time. A copy of the full presentation is attached.

### Highlights of presentation:

- **Development ore mined:** first ore from the underground at Mt Mann was extracted in the first week of August, representing another significant milestone delivered to schedule. Since the commencement of underground operations in November 2023, more than 4,000 development metres have been advanced. Tier-1 contractor Byrnegut has been pivotal in driving substantial progress, productivity, and efficiency. Liontown anticipates the first production of ore from the stoping cycle by the end of calendar year 2024.
- **Supply chain milestone:** Liontown also celebrates the load and dispatch of approximately 145 tonnes of spodumene concentrate by truck from Kathleen Valley to the Port of Geraldton. Concentrate will be stockpiled at Qube's dedicated storage shed for Liontown's product at the Port of Geraldton ahead of first shipment, which is planned for later this quarter (Q3 CY2024). The haulage and storage of the spodumene concentrate is being managed by Tier-1 contractor Qube.

### Liontown's Managing Director and CEO, Tony Ottaviano, said:

*"Just a week after achieving first production, the first truckload of spodumene concentrate has been successfully dispatched to Geraldton Port. This rapid progression underscores the momentum we are building as we transition from construction to production."*

*"Additionally, hitting our first development ore milestone at Mt Mann demonstrates our continued operational success, and strengthens our position as a leading emerging global supplier of battery minerals."*

*"We look forward to advancing our long-term strategy and supporting the transition to a low-carbon future."*

- ENDS -

This announcement and presentation has been approved for release by the Managing Director and CEO, Mr Tony Ottaviano.

## Further Information

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## About Liontown Resources

Liontown Resources (ASX:LTR) is an emerging Tier-1 battery minerals producer. Our aim is to be an ESG leader and a globally significant provider of battery minerals for the rapidly growing clean energy market. As we transition from explorer to producer, we are committed to incorporating the right approach and foundation from the outset and ESG principles underpin all decisions. We currently control two major lithium deposits in Western Australia and aim to expand our portfolio through exploration, partnerships and acquisitions. In addition, we look to participate in downstream value-adding where control of the deposit provides a strong competitive advantage. To learn more, please visit: [www.ltresources.com.au](http://www.ltresources.com.au)

## Forward Looking Statements

This announcement 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 announcement, 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 announcement 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 announcement, except where required by law or the ASX listing rules.

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# Delivering on the Commitment

2024 Diggers and Dealers

Tony Ottaviano  
Managing Director and CEO

ASX: [LTR](#)

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# Important Information



## Forward looking statements

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## Disclaimer

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## Competent person statement

The Information in this Presentation that relates to 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](http://www.ltresources.com.au).

Kathleen Valley Project – Mineral Resource Estimate as at April 2021

Resource category	Million tonnes	Li <sub>2</sub> O %	Ta <sub>2</sub> O <sub>5</sub> ppm
Measured	20	1.3	145
Indicated	109	1.4	130
Inferred	27	1.3	113
<b>Total</b>	<b>156</b>	<b>1.4</b>	<b>130</b>

Notes: Reported above a Li<sub>2</sub>O cut-off grade of 0.55%. Tonnages and grades have been rounded to reflect the relative uncertainty of the estimate.

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](http://www.ltresources.com.au).

Anna Deposit, Buldania Project – Mineral Resource as at October 2019

Resource category	Million tonnes	Li <sub>2</sub> O %
Indicated	9.1	1.0
Inferred	5.9	1.0
<b>Total</b>	<b>15.0</b>	<b>1.0</b>

Notes: Reported above a Li<sub>2</sub>O cut-off grade of 0.5%. Tonnages and grades have been rounded to reflect the relative uncertainty of the estimate

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 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, Mr Tony Ottaviano.

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# Kathleen Valley delivered! Now the ramp up



Watch online: [youtu.be/JMkcnIx1eHk](https://youtu.be/JMkcnIx1eHk)

# Kathleen Valley: First production achieved



World class ore body | World class team | World class delivery



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## Delivered Safely

**>4 million hours**

with one lost time injury

## Growing our team

**311 employees**

As at 30 June 2024

## Exploration to production in

**6 years<sup>1</sup>**

Global average mine delivery ~18 years; US at ~29 years<sup>2</sup>

## Mining progressing well

**> 8.1 million BCM**

**> 4000 underground development metres**

delivered concurrent with project construction

## Project constructed in

**1.5 years**

With Tier-1 equipment and contractors

## Fully commissioned

**95MW hybrid power station**

during construction phase ahead of production

<sup>1</sup> Kathleen Valley maiden resource announced September 2018; First production achieved in July 2024

<sup>2</sup> S&P Global Analysis: *Discovery to Production Averages 15.7 years for 127 mines, 2023; Average lead time almost 18 years for mines started in 2020–23, 2024; Mine development times: The US in perspective, 2024.*

The best strategies endure the cycles; ours is unchanged.

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## Kathleen Valley Full Potential

Become a globally significant sustainable supplier of spodumene



## Downstream Expansion

Become a vertically integrated supplier to capture higher margins, create new supply chains



## Liontown Full Potential

Expand portfolio through organic growth, value accretive M&A and exposure to the circular economy

# Weaker pricing contradicts true spodumene demand

Oversupply of refining capacity built in China means there are many players structurally short of spodumene feedstock supply, but weak chemicals caps pricing

- Battery demand in H1 2024 exceeded 510 GWh across all end use markets, +23% compared to last year<sup>1</sup>
- EV Battery demand accounted for 72% of this, with EV sales reaching 7 million units in H1 2024, +20% YoY<sup>1</sup>
- Energy Stationary Storage (ESS) market accounts for ~15% of demand with strong price elasticity, lower pack prices translates into strong growth of close to 50%<sup>1</sup>
- Disparity in EV growth rates is not necessarily a demand problem but a pricing problem. In China EVs are competitive with ICEs, while they remain at a premium across much of USA and EU<sup>2</sup>

New ramp-up offtake demonstrates market demand for near-term, high-quality supply...

...and 15-year offtake with LG Energy Solution demonstrates market demand for long-term, high-quality supply

<sup>1</sup> Rho Motion H1 2024 Update

<sup>2</sup> The International Energy Agency (IEA) reports that over 60 percent of EVs sold in China in 2023 were cheaper than their internal combustion engine counterparts but remain 10% to 50% more expensive than combustion engine equivalents in Europe and the United States – Global EV Outlook 2024

# Supply: Harder to deliver than anticipated

Delivery times up to 18 years in western jurisdictions – to get approvals, funding and then constructing.

Greenfield Lithium Mines Anticipated to Commence Production by 2024 / 2025 at the time of Liontown's DFS<sup>1</sup>



~ 10

Projects aimed to come online

...That are now 3 Producing Lithium Mines



Liontown on track to become the world's next major lithium producer of a wholly-owned, large-scale and high-quality hard rock lithium resource in Australia

One of few Western lithium producers of scale in an IRA-compliant jurisdiction with strategic offtakes and customer-led financing from major US and South Korean partners

The next wave of developers face significant headwinds, evidenced by the number of mines brought into production in recent years

<sup>1</sup> Based on WoodMac Lithium market 2021 outlook to 2050 (December 2021) production figures

<sup>2</sup> Core Lithium transitioned the processing and site infrastructure to a non-operational state as at 30 June 2024 (ASX Announcement 8 July 2024)

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# Hitting our milestones: first development ore

Significant underground progress since commencement in November 2023

- ✓ Mt Mann First Development Ore achieved early August
- ✓ Over ~4,000 underground development metres to date, with ground conditions exceeding expectations
- ✓ Tier-1 contractor **Byrnegut** has driven substantial progress, productivity and efficiency

Next: **First Production of Ore** from the stoping cycle anticipated by the end of CY2024.



Development ore trucking out of Goydor South



Underground development ore stockpiles

# Supply chain milestone: First truck delivered to port

Another milestone delivered – just one week after first production

- ✓ ~145 tonnes of spodumene concentrate loaded and hauled from Kathleen Valley to Geraldton Port
- ✓ Concentrate stored in dedicated storage shed at Port. First shipment planned for quarter Q3 CY2024
- ✓ Tier-1 contractor Qube accountable for handling, haulage and storage of our spodumene concentrate.

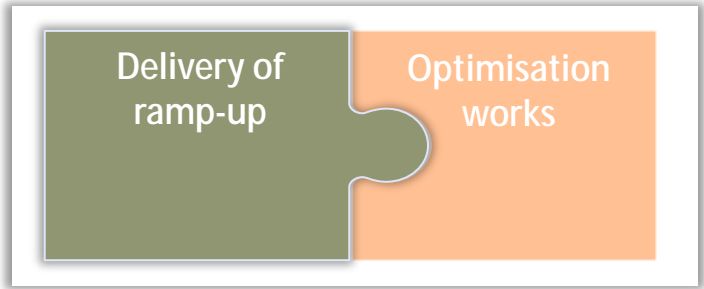
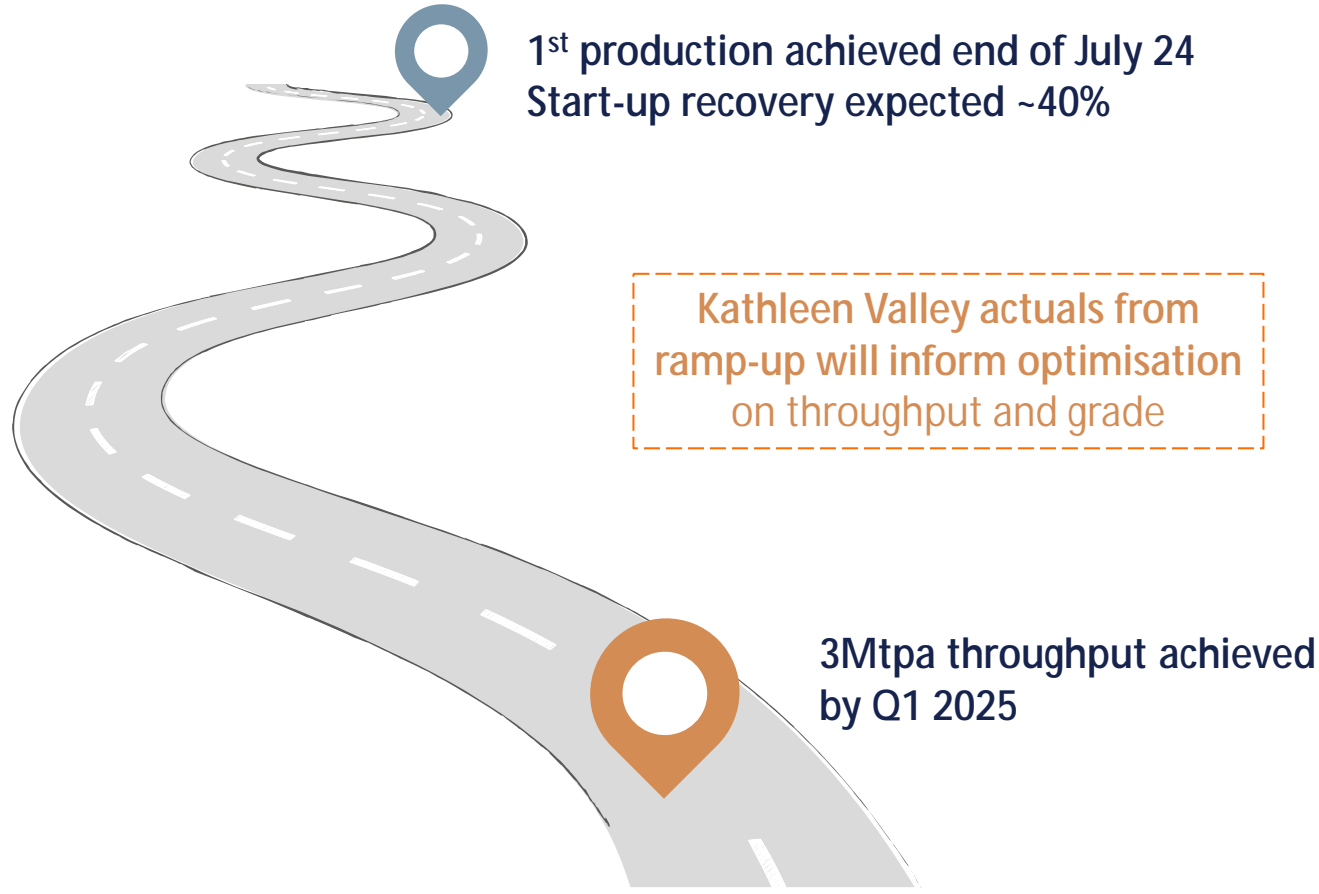


First Qube truck being loaded from Kathleen Valley

# Delivering ramp-up: Gen 4 flowsheet & Tier-1 equipment

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## Delivery of ramp-up



- ü Optimised flowsheet with significant testwork and pilot plant
- ü Lessons applied from prior projects
- ü “Lithium adjusted” McNulty curve methodology applied to ramp-up
- ü Embedded optimisation levers to support ramp-up and future optionality
- ü Recoveries >70% expected by Q4 CY2025

# Embedded optimisation levers

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## Mine Plan

Evolving mine plan, focusing on reduced development metres – access early ore.

**Current status:** 3Mtpa with early works to maintain 4Mtpa expansion by 2027

**Future optionality:** Optimise expansion delivery



## Cost Optimisation

Optimising costs to stay resilient through price cycles

**Current state:** assumptions integrated into ramp-up and delivery plans

**Future optionality:** multiple levers to drive efficiencies in real-world execution

## Product Specifications

Flexibility to adapt product grade as market and customer demand evolves

**Current status:** Designed to produce 6% spodumene concentrate

**Future optionality:** Adjustable concentrate grade to align with market trends and customer demand

## Scalable Plant

Built in latent expansion capacity delivering very low capital intensity expansion upside.

**Current status:** Expansion capacity is integrated into most circuits, with ongoing enhancements like ore sorting to boost efficiency

**Future optionality:** Minimal to low capital expenditures can be used to further optimise circuits, increasing throughput and returns

Delivery of ramp-up

Optimisation works

Finalisation of optimisation studies including mine plan, recut mining rates and real-world ramp-up data to inform future **guidance on costs & production** - targeted to coincide with Q1 CY2025 reporting

# Strategic partnership: Financial strength and optionality



Expanded strategic partnership with foundational customer LG Energy Solution secures Kathleen Valley ramp-up and collaboration on future value-maximising opportunities



US\$250 million convertible note provides balance sheet strength to support Kathleen Valley ramp-up to steady state production.



Long-term partnership, including expanded 15-year offtake agreement, reinforces tier-one qualities of Kathleen Valley and Liontown's position as an emerging producer of high quality, fully IRA-compliant battery materials.



Funding to progress early enabling works in the underground mine to preserve future expansion optionality, alongside joint venture to investigate feasibility to develop an IRA-compliant refinery.



<sup>1</sup> ASX Announcement dated 2 July 2024 "Strategic partnership with LG Energy Solution to deliver long term funding for Kathleen Valley"

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# Well positioned to benefit as market goes global

Kathleen Valley's IRA-compliant raw material and near-term expansion optionality is positioned to capitalise on growth in ex-China refining and battery cell manufacturing capacity through 2030



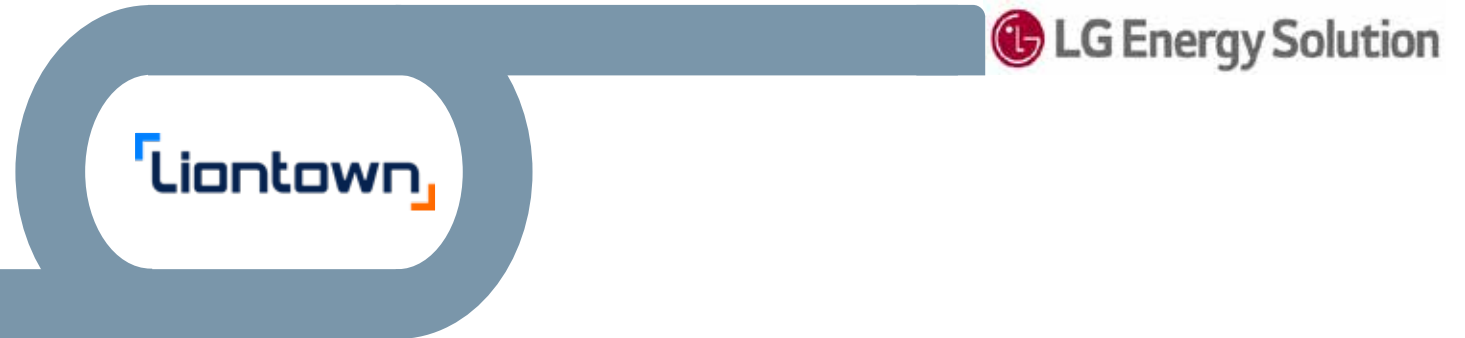
**IRA Compliance:** opportunity to work with partners to fill gaps in IRA-compliant refinery capacity and expand supply chains outside China



**Capitalising on Price Recovery:** positioned to benefit from raw material and chemical price recovery as demand grows



**Strategic Partnerships:** leverage downstream collaborations with LG Energy Solution and Sumitomo to maximise value from integrated production of IRA-compliant battery chemicals



 Sumitomo Corporation

 LG Energy Solution

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# Liontown: Continuing to deliver with upside

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First production achieved on schedule



Focus on optimising ramp-up and unlocking efficiencies



Strong balance sheet to underpin steady-state and preserve growth



Strategic partnerships provide unique opportunity to maximise downstream value



Committed to delivering long-term value to shareholders



*Powering Tomorrow,  
Respecting Today.*

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