ASX:LIT

Energising a better world

Investor Presentation February 2025

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"We have prioritised the scale up of battery recycling and are commercialising the other technologies alongside strategic investors.

Our strategic initiatives include: 1) driving volumes and profits in recycling, 2) completing LieNA[®] JDA activities, and 3) commercialising our unique LFP technology.

An investment in Livium represents a compelling opportunity to be leveraged to the rapidly growing battery supply chain and retain significant upside potential via our unique technologies, while also ensuring limited exposure to cyclical swings in commodity pricing."



Simon Linge Managing Director & CEO of Livium

Where we focus today

High value opportunities across the lithium value chain

BATTERY RECYCLING (PRIORITY)

OVERVIEW

Provision of battery recycling services via agreements with leading industry participants

PROGRESS TO DATE

Growing lithium-ion battery collections and associated revenues, operating cash profits

COMMERCIAL MODEL

Upstream service fees and downstream sales of recycled materials

REVENUE GROWTH POTENTIAL

Large format batteries set to grow 24x over the next decade¹





Future opportunities

Notes: 1. Source: Battery Market Analysis - The latest market data for the battery industry in Australia: B-cycle (2023), company analysis; 2. LFP: Lithium ferro phosphate, LMFP: Lithium manganese ferro phosphate; 3. See ASX announcement, '*Livium secures up to A\$30 million grant from ARENA for Australian LFP demonstration plant*', 20 February 2025; 4. Company estimate: 25,000 tonnes per annum; 5. Avenira Limited (ASX; AEV) Announcement (Scoping Study, 2 March 2023), Ave. LFP Basket Price; 6. Assumes existing mine concentrator is 60%: 60% to 90% Li recovery increase assumes lithium extraction technology recovers 75% of lithium units going to tails; 7. Company cautions that although it considers this to be a reasonable expectation, there is no guarantee that this rate will be achieved; 8. Estimated revenue for the 50:50 JV based on: typical operation with 20,000tpa processing capacity (company assumption), achieving an average sale price of US\$13,000/t (Source: SMM, Lithium Carbonate (99.5% Battery Grade), 26 June 2024 converted at prevailing CNY/USD rate) at an 8% royalty rate;

BATTERY MATERIALS

OVERVIEW

Proven technology for production of LFP / $\rm LMFP^2$ battery cathode materials

PROGRESS TO DATE

A\$30m government grant secured³ and discussions with potential development partners in progress

COMMERCIAL MODEL

Technology licensing OR owned and operated commercial scale plants

REVENUE GROWTH POTENTIAL

Potential annual revenue of US\$319m assuming a 25,000 tpa^4 commercial plant and an LFP price of ~US\$12.75/kg^5 $\,$

LITHIUM CHEMICALS

OVERVIEW

Proprietary processing technology to improve lithium mining yields by up to 50%⁶

PROGRESS TO DATE

Joint Development Agreement with Mineral Resources with initial activities complete, new activities progressing

COMMERCIAL MODEL

Licensing to domestic and global miners at a gross product royalty rate of $8\%^7$

REVENUE GROWTH POTENTIAL Up to ~US\$21m p.a. from a single licence⁸

Battery Recycling

Battery Recycling: How we operate

LIT is Australia's leading onshore battery recycler, with revenue generated through service fees at collection and through downstream sales revenue





Proven economic engine for lithium-ion batteries

Revenue generated from providing collection / processing services and sale of recycled materials



Economic drivers

Upstream fees ("Fee for Service")

Charged for the collection and processing of batteries, and provision of complimentary services. Relatively stable earnings given service-based revenue.

Downstream sales

Processing of LIBs² produces MMD³ which is sold at market prices, with profit share arrangements in place. Processing also yields other metals (e.g. aluminium, copper, steel etc.).

Cost management

Operating costs (cost of sales) are predominantly labour based, and therefore fixed in nature.

Commercial partnerships

Strategic recycling agreements are expected to drive significant uplift in collection volumes and underpin future collections growth.

Notes: 1. Company analysis; 2. Lithium-ion batteries; 3. Mixed Metal Dust or black mass



EOL¹ Battery Projected Volumes

Significant industry tailwinds from increased take-up of EVs and ESS¹



Current Estimated Large

Format Addressable Market

A\$20 million^{3,4}





2035 Estimated Large Format Addressable Market A\$485 million^{3,4}

20.780

ΕV

32,280

Handheld

EOL (tonnes)²

113,040

Total

Notes: 1. EOL = end of life; 2. Source: Battery Market Analysis - The latest market data for the battery industry in Australia: B-cycle (Oct23), Company analysis; 3. Estimated market revenue potential based on the total of ESS and EV volumes at the average achieved Livium revenue unit rate in CY24 (refer announcement "*Quarterly Activities Report December 2024*", dated 29 January 2025; 4. Company cautions that although it considers this to be a reasonable estimate, there is no guarantee that these revenues are achievable in the future; 5. CY25 EV and ESS collections by Envirostream totalled 736 tonnes



59,980

ESS

Regulatory landscape

Significant upside potential from a change in policy

Current position

✓ Current landfill bans

In place in Victoria, Australian Capital Territory, Western Australia and South Australia

Producer responsibility

B-Cycle 1.0 operational for a number of years but rebates provided for recyclers are considered insufficient by Livium

Export control tightening

Permit required to export end of life batteries in the past, limiting the amount sent offshore

✓ Other considerations

EU battery passport collates battery data throughout the lifecycle, including minimum recycled content (from 2027)

Future Position

✓ Future landfill bans

New South Wales (2025), Queensland (2026), Northern Territory (2027), Tasmania (Not defined)

✓ Producer responsibility improvements

B-Cycle 2.0 (est. Q1 2026), planned as a mandatory scheme for all batteries, is expected to more attractive for recyclers

Effective export bans

Broader and tighter restriction to access a permit (Q1 2025) with even further tightening expected in 2026 and beyond

Other considerations

Australia is looking to the EU battery passport program as template for future governance



Strategic battery recycling outlook

Moving from foundation to build and then growth



FOUNDATION PHASE Complete

- ✓ Revenue of A\$6.5m in FY2024¹
- ✓ >1,500 tonnes of battery collections in FY24
- ✓ Off-take agreement for MMD secured
- Stabilising commercial model and offer to market
- ✓ Recycling agreements include BYD, Volvo, Hyundai Glovis, and LG Energy Solution
- ✓ Optimise existing customer contracts
- ✓ Increase contribution mix of large-format LIBs in battery collections



- Improve MMD conversion efficiency
- Sustain positive operating cashflows
- Secure further recycling agreements with tier 1 EV and ESS² manufacturers
- Secure strategic and financing partners to facilitate scale up
- Secure WA Grant to support the development of battery recycling facility in WA



- GROWTH PHASE (FY26+)
- Expand collections and processing capacity through development of a larger centralised "hub" facility
- Build national collection and storage capacity through "spoke" network
- Increase battery processing capacity to match collection volumes
- Diversify service offering to match industry requirements
- Explore international options for expansion



Livium was featured on Channel 10, highlighting the importance of sustainable practices in the battery recycling industry. Click image on left to learn more.

Notes: 1. See ASX announcement, 'Lithium Australia's recycling operations achieve maiden operating cash profit', 11 July 2024; 2. EV: Electric vehicle, ESS: Energy storage systems.



Battery Materials

Lithium Ferro Phosphate (LFP) value proposition

Rapidly growing battery chemistry with strong adoption across global EV and ESS manufacturers¹



Critical input for battery manufacturers

LFP is a cathode material which represents most of input costs in the manufacture of LIBs



Lower cost batteries

LFP batteries are ~25% cheaper than traditional nickel-based batteries, with prices continuing to $decline^2$



Longer life cycle

Relative to traditional batteries, LFP batteries have around double the longevity of traditional battery chemistries³

Rapid LFP adoption

LFP batteries are being rapidly adopted by EV and ESS manufacturers due to the chemistry's superior qualities

Lucrative economics and scalable

Potential annual revenue of US319m assuming a 25,000 tpa⁴ commercial plant and an LFP price of ~US $12.75/kg^5$



Global chemistry mix for EV, ESS, and consumer equipment⁷ (% market share)



Notes: 1. Wood Mackenzie Energy Storage Services 2020; 2. IEA, Global EV Outlook (2024); 3. WhichCar, EV battery types explained (2023); 4. Company estimate: 25,000 tonnes per annum; 5. Avenira Limited (ASX; AEV) Announcement (Scoping Study, 2 March 2023), Ave. LFP Basket; 6. BloombergNEF, Electric Vehicle Outlook (2022); 7. Fastmarkets, Growing LFP adoption drives need for more transparency across chemistry's supply chain 2023



Well positioned for commercial discussions

LIT's LFP product has been externally validated and is seeking value creation opportunities

Proven LFP product

Independently assessed and validated against commercially available products by leading battery researcher NOVONIX¹

Proprietary cost-competitive process

Proprietary production process, developed over 10+ years, ready for LFP manufacturing at scale on a competitive basis

✓ Partner ready

Securing of off-take and / or development partners remains the focus before scale up of manufacturing. Samples have been provided to >20 potential customers

Reducing supply chain risks

Governments globally are actively seeking to lower dependency on China, which produces >95% of all LFP

Notes: 1. See ASX announcement, 'Final testing for Lithium Australia's LFP cathode material', 22 September 2023

Validated product **Proprietary production process** Input Lithium carbonate / other inputs Processing Proprietary production process Output Lithium Ferro Phosphate (LFP)



A\$30m ARENA grant secured

50% of funding secured, activities underway to achieve full funding for LFP Demonstration Plant

Australian LFP Demonstration Plant



✓ Scope of Project

Detailed design, construction, commissioning, and two years of operation to achieve binding LFP offtake

✓ Estimated cost

A\$60m with plant and equipment comprising ~63% of the total spend and the remainder working capital to support operations

Funding Activities

 ✓ 50% of funding secured in non-recourse funding Executed agreement ARENA for grant of up to A\$30m related to an Australian LFP demonstration plant

Due diligence

This grant follows an extensive due diligence by ARENA, validating the technology and Livium

Key condition precedent

Drawing of the grant is conditional on securing full funding for the Australian LFP demonstration plant

Funding activities in progress

A\$30m funding gap being pursued via a combination that includes strategic investment into VSPC and asset finance



LFP commercialisation pathway

A demonstration plant is an essential step before the establishment of a full-scale production facility



COMPLETED

- Pilot plant operational and producing ~1-2 tpa of LFP
- ✓ LFP product independently validated by NOVONIX
- Progressed partnership discussions, as demonstrated by MOU's with First Phosphate¹ and Centrex²
- New cathode material products have been added to the VSPC suite and are under assessment with potential customers
- Secured A\$30m in non-dilutive government funding for Australian demonstration plant³



SHORT/MEDIUM-TERM

- Secure A\$30m balance of funding for Australian development plant from private strategic partners, to invest directly into VSPC
- Development and operation of small-scale, capital efficient LFP demonstration plant
- Produce sample sizes in line with customer's product qualification requirements, which will facilitate the securing of binding offtake for VSPC products



- Development and operation of initial commercial scale plant to produce ~25,000 tpa
- Scale up to achieve more than 100,000 tpa of LFP / LMFP⁴ production over the long-term

Notes: 1. See ASX Announcement, '*Lithium Australia signs MOU with First Phosphate*', 7 December 2023; 2. See ASX Announcement, '*Lithium Australia signs MOU with Centrex regarding the development of LFP manufacturing*', 16 April 2024; 3. See ASX announcement, '*Livium secures up to A\$30 million grant from ARENA for Australian LFP demonstration plant*', 20 February 2025; 4. LMFP: Lithium Manganese Ferro Phosphate.





LieNA® commercialisation pathway

JDA targeting completion by end September 2025 with activities fully funded



Commercialisation Pathway

JDA Activities

Initial activities completed and commercialisation pathway assessment underway with targeted completion in September 2025

JV formation & commercial scale

LieNA® technology to be held within 50:50 JV with MinRes. Key focus on proving technology at commercial scale through a demonstration plant

Licensing

Licenses to miners globally at a gross product royalty rate of $8\%^1$ (with potential to earn up to US\$21m p.a. from a single licence²)

17

Notes: 1. The Company cautions that although it considers this to be a reasonable expectation, there is no guarantee that this rate will be achieved; 2. Estimated revenue for the 50:50 JV based on: typical operation with 20,000tpa processing capacity (company assumption), achieving an average sale price of US\$13,000/t (Source: SMM, Lithium Carbonate (99.5% Battery Grade), 26 June 2024 converted at prevailing CNY/USD rate) at an 8% royalty rate



Outlook

Key activities over the balance of FY25

Planned transformational activities seek to unlock value

Battery Recycling



Lithium Chemicals



Battery Materials



- Sustain positive operating cashflows at current volumes.
- Diversify sources of lithium-ion batteries through new recycling agreements.
- Secure WA Grant to support the development of battery recycling facility in WA.
- Further develop expansion plans for a larger centralised "hub" facility.
- Finalise joint development agreement and funding with partner.

- Progress assessment of commercialisation pathway (targeted completion in September 2025).
- Select the preferred lithium product, including the potential to produce a battery grade lithium carbonate.
- Secure balance of demonstration plant funding from private strategic partners, to invest directly into VSPC
- Continue offtake development including production of LFP / LMFP samples.
- Continue raw materials strategy to support commercial scale volumes.



Appendices

Corporate: Snapshot

Strong balance sheet with cash and listed investments of A\$5.6 million

Share price performance (YTD)



Financial information

| Share price (19-Feb-25) | A\$0.014 |
|---|---------------------|
| 52-week trading range (low / high) | A\$0.012 / A\$0.032 |
| Shares on issue | 1,347m |
| Market capitalisation (19-Feb-25) | A\$18.2m |
| Cash (31-Dec-24) | A\$5.1m |
| Listed investments ¹ (31-Dec-24) | A\$0.5m |
| Cash and listed investments (31-Dec-24) | A\$5.6m |
| Debt (MinRes Convertible Note) (31-Dec-24) | (A\$4.2m) |

Notes: 1. Includes Core Lithium Limited (ASX: CXO) and Evion Group NL (ASX: EVG). Subsequent to 31 December 2024, the Company has disposed the majority of its listed investments.



Corporate: Board and management

High profile and experienced leadership team

LIT Directors



Simon Linge Managing Director and CEO

BHP

BlueScope

25+ years of senior management experience within global manufacturing, recycling and engineering services



Phil Thick Interim Non-Executive Chair



30+ years' experience as a senior executive across oil & gas, mining and chemical processing sectors



Kristie Young Non-Executive Director



25+ years' experience focusing on the resources sector, with 15+ years' experience on boards and committees

LIT Management



Stuart Tarrant **Chief Financial** Officer

BHP DANAKALI

20+ years' experience with mineral

extraction, mineral exploration,

finance and agribusiness



Steven Marshall

GM - Recycling

10+ years' experience in the recycling industry with proven commercialisation experience

Andrew Skalski GM - Safety, Risk, and Integration ORBIS parkway

30+ years' experience in mining operations, mineral project development and battery materials



GM - Technology Development



25+ years' experience in the design, construction and commissioning of Greenfields and Brownfields facilities



Julie Coleman Chief People Officer

BHP OPTUS

30+ years' experience in HR across mining, telecommunications, and higher education sectors



LIB waste set to increase significantly

Focus on EV / ESS demonstrates the near-term opportunity for collections growth



Notes: 1. Battery Market Analysis - The latest market data for the battery industry in Australia: B-cycle (Oct23), Company analysis; 2. CY25 EV and ESS collections by Envirostream totalled 736 tonnes



SungEel HiTech: MMD off-take agreement

Off-take agreement secured for at least 60% of MMD production, with JDA discussions underway

Off-take agreement¹

- Signed 3-year Mixed Metal Dust (MMD) off-take agreement effective from 1 July 2024
- SungEel HiTech will purchase a minimum of 60% of LIT's annual MMD production – subject to minimum quality requirements
- Discussions underway on a joint development agreement (JDA), incorporating a potential investment – initially focused on upgrading recycling equipment and expansion of processing capacity

𝜀 SungEel HiTech →



Key highlights

Accelerates recycling growth strategy

The off-take agreement is synergistic with Livium's rapidly growing LIB² collection volumes and MMD production, helping drive sustainable earnings growth

✓ Significant addressable market

LIT continues to serve the growing demand for MMD – underpinned by growing LIB collections and future uplift in product volumes

Potential investment

Opportunity to fund the expansion of LIT's recycling capability and capacity in a non-dilutive manner

Notes: 1. See ASX announcement, 'Lithium Australia signs MMD off-take agreement with SungEel HiTech', 13 June 2024; 2. LIB: lithium-ion battery



LieNA® value proposition

Patented extraction technology offers ~50% higher lithium extraction efficiency

✓ Driving greater profitability for miners

Unique method of processing un-used fine and low-grade spodumene, potentially yielding higher levels of lithium output

Improves sustainability

Materially less wastage as fine and low-grade spodumene typically ends up as waste streams

Increases mine asset value

Miners can extract significantly more lithium from the same spodumene resources, increasing mine value

✓ Moves down value chain

Allows miners to capture more of the value chain by processing spodumene on site into a lithium chemical

Notes: 1. Assumes existing mine concentrator is 60%: 60% to 90% Li recovery increase assumes lithium extraction technology recovers 75% of lithium units going to tails.





Lithium Chemicals: Partnering with Mineral Resources

Joint development agreement with A\$7bn¹ Australian miner validates lithium extraction technology

Strategic Partnership²

- MinRes will fund joint development activities (up to A\$4.5m) with balance of funding from R&D tax credits
- LIT to provide its extraction technology, LieNA®, and will manage JDA activities
- Upon successful completion of JDA activities, a new 50:50 JV will be formed between LIT and MinRes
- New JV aims to licence the technology at a headline gross product royalty rate of 8%³
- First licence will be for the demonstration plant, which is expected to be funded and operated by MinRes

ivium



Highlights

Ideal partner

Leveraging MinRes' extensive mining operations and robust client base as an ASX50 company

Free-carry

Effectively free-carries LIT to commercialisation of the technology

Large addressable global market

Opportunity to target both brownfield and greenfield lithium mines globally

Significant progress to date

~A\$4.2m of MinRes funding has been received to date, with key activities progressing⁴

Notes: 1. Market capitalisation as at 15 January 2025. 2. See ASX announcement, 'Landmark joint development agreement with Mineral Resources', 7 August 2023. 3. The Company cautions that although it considers this to be a reasonable expectation, there is no guarantee that this rate will be achieved. 4 See ASX Announcement, 'Lithium Australia completes LieNA piloting and confirms fourth drawdown from Mineral Resources', 19 July 2024.

Lithium Chemicals: LieNA® process

Potential to broaden the quality of feed for extraction of lithium at scale



Process more selective than Conventional Thermal Conversion

Process

LieNA® is a disruptive process that replaces alpha to beta thermal conversion with a phase change using caustic.

Feed grade

LieNA® process has been tested technically at a range of grades, including lower than current thermal (alpha to beta) converters can effectively process.

Reagent regeneration

LieNA® has the potential to regenerate its key reagents.

Equipment scale up

LieNA® operates at conditions akin to Alumina plants, providing an industrial analogue to reference for scale up and engineering design.



Battery Materials: Process Overview

LIT's patented and cost-competitive LFP manufacturing process is ready for commercialisation





Thank You

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