

10 June 2025

## Livium targets Rare-Earth Element (REE) Extraction Technologies to Expand its Circular Portfolio

### HIGHLIGHTS

- Livium has commenced discussions with Australian and International developers of REE extraction technologies, to leverage its circular expertise and support the growing demand for REE recycling
- REE extraction represents an extension of recycling services for Livium's enterprise client base, with discussions progressing with REE extraction developers focused on collaboration, including licensing
- Automakers such as Ford and Suzuki are facing component shortages due to restrictions on Chinese exports of rare earths, minerals and magnets, an issue that has forced some to shut down production of certain models<sup>1</sup>
- The global REE market is estimated to be worth \$9.6 billion<sup>2</sup> by 2026, with recycling representing a subset of this and a significant untapped commercial opportunity for Livium
- REE extraction provides a future opportunity to leverage Livium's core competencies and supply chain within which it operates, particularly in clean energy generation and e-mobility

Livium Ltd (ASX: LIT) ("**Livium**" or the "**Company**") is pleased to announce that after considerable strategic exploration the Company has commenced engagement with developers of rare-earth element (REE) extraction technologies, both in Australia and internationally, as part of its strategy to expand into adjacent circular economy opportunities that complement its core recycling business.

With Livium's patented technologies reaching commercial inflection points, the Company is actively exploring synergistic pathways to cement its position as a recycling innovator focused on recovery and production of sustainable critical materials. REE has been identified as a significant commercial opportunity due to its growing demand, the global shift towards diversified supply chains, and alignment with the Company's core competencies. The total global addressable market for REE is expected to reach \$9.6 billion by 2026, with recycling comprising a subset of this value.

REE extraction involves the recovery and reuse of valuable rare earth elements from end-of-life products such as permanent magnets, electric motors, and electronic waste. Advanced techniques including hydrometallurgy, pyrometallurgy, solvent extraction and emerging biotechnological processes enable the extraction of these critical materials, with reduced environmental impact relative to primary extraction, and allow for the minerals recovered to be repurposed and re-entered into the economy. Livium's wholly owned subsidiary, Envirostream, already performs similar steps in this process, including shredding, grinding, and magnetic separation. Importantly Envirostream is also connected to the REE end-of-life supply chain, through clean energy generation and e-mobility clients, providing an opportunity to expand its service offering.

As part of Livium's drive to pursue opportunities that are adjacent to its core strategy, the Company is also in advanced discussions regarding licensing of its proprietary cathode powder manufacturing process (VSPC) in non-core jurisdictions. VSPC's process combines the advantages of solid-state and solution-phase synthesis methods, to produce high-performance lithium ferro phosphate (LFP) and lithium manganese ferro phosphate (LMFP) powders with greater control of product characteristics and quality. Whilst the Company is focussed on

<sup>1</sup> <https://www.reuters.com/business/autos-transportation/auto-companies-face-shortages-due-chinas-rare-earth-restrictions-2025-06-05/>

<sup>2</sup> <https://finance.yahoo.com/news/rare-earth-metals-market-worth-233000078.html>

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developing commercial production centres in core jurisdictions, licencing the technology in other jurisdictions, has the potential to deliver returns without the need for significant capital outlay.

**Comment from Livium CEO and Managing Director, Simon Linge**

*"Rare earth elements are essential to power technologies that are driving the energy transition, yet global supply chains remain vulnerable to ongoing geopolitical shifts. By actively pursuing options to commercialise REE extraction technologies, we are strategically positioning Livium to meet this growing demand while remaining anchored in our strengths in resource recovery and process innovation."*

Authorised for release by the Managing Director and CEO.

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**Forward-looking statements**

This announcement contains forward-looking statements. Forward-looking statements are subject to a variety of risks and uncertainties that it is beyond the Company's ability to control or predict and which could cause actual events or results to differ materially from those anticipated in such forward-looking statements. Investors should be aware that past performance should not be relied upon as being indicative of future performance.

**About Livium**

Livium (previously Lithium Australia) is aiming to lead and enable the global transition to sustainable lithium production. The Company operates Australia's market leading battery recycler, produces critical battery material lithium ferro phosphate (LFP), and has developed a patented lithium extraction technology (LieNA®). Livium's revenue-generating recycling business and technologies are well-placed to capitalise on growing global lithium-ion battery demand and provides diversification benefits to global supply chains.