

30 November 2018

ASX ANNOUNCEMENT

PROCESS IMPROVEMENTS ENHANCE EUROPEAN BATTERY PROSPECTS

HIGHLIGHTS

- **Lithium Australia generates LFP cathode material from waste mica in a world-first breakthrough**
- **Breakthrough significantly influences the economic potential of Sadisdorf project**
- **Sadisdorf scoping study will include application of Lithium Australia's proprietary technologies to generate LFP material**

Lithium Australia NL (ASX: LIT) has successfully manufactured lithium-ion batteries (LIBs) from the products of its SiLeach[®] process, the latter being designed to recover lithium chemicals from lithium concentrates without roasting ([see announcement dated 22 November 2018](#)). Significantly, the lithium chemical produced, tri-lithium phosphate (Li_3PO_4), can be used for the direct production of LIB cathode powders – in particular, those used in the manufacture of lithium-iron-phosphate (LFP) LIBs – without having to produce high-purity lithium hydroxide or lithium carbonate (the production of which is often considered one of the most challenging steps in the battery manufacturing process).

Feed used for Lithium Australia's generation-2 SiLeach[®] pilot plant comprised lithium micas recovered from mine waste in the Kalgoorlie region. Those micas had similar metallurgical properties to the micas within Lithium Australia's wholly-owned Sadisdorf project in Germany ([see announcement dated 7 December 2017](#)). The breakthrough the company has achieved by generating cathode powders direct from tri-lithium phosphate will significantly influence the economic potential of not only the Sadisdorf project but also similar occurrences elsewhere in Europe.

The application of Lithium Australia's proprietary technologies to generate LFP cathode materials from mica feed will be incorporated into scoping studies currently being undertaken on Sadisdorf.

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ABOUT LITHIUM AUSTRALIA NL

Lithium Australia aspires to 'close the loop' on the energy-metal cycle in an ethical and sustainable manner. To that end, it has amassed a portfolio of projects and alliances and developed innovative extraction processes to convert *all* lithium silicates (including mine waste) to lithium chemicals. From these, the company plans to produce advanced components for the lithium-ion battery industry. The final step for Lithium Australia involves recycling of spent batteries and e-waste. By uniting resources and the best available technology, Lithium Australia seeks to establish a vertically integrated lithium processing business.

For more information, visit www.lithium-au.com and www.vspc.com

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