Lithium Australia produces high-purity battery material using proprietary SiLeach process

Lithium Australia NL (ASX:LIT) has successfully generated lithium phosphate from waste materials using its 100% owned SiLeach® process.

Furthermore, LIT has, together with ANSTO, developed a simple means of removing impurities from the lithium phosphate resulting in an exceptionally high-purity refined product, suitable for the manufacture of lithium ion batteries (LIBs), and in particular, those with lithium iron phosphate (LFP) chemistry.

The company had earlier produced LFP batteries from unrefined, SiLeach generated lithium phosphate.

READ: Lithium Australia achieves significant lithium recovery from SiLeach pilot-plant

The lithium phosphate refining process was developed to ensure consistency of quality for the production of high performance LFP batteries.

The performance of batteries made from the refined lithium phosphate product has been tested at LIT’s wholly owned VSPC cathode powder pilot plant in Brisbane, Australia.

The refined lithium phosphate was used to manufacture cathode powder and subsequently LFP coin cells which were then subjected to a standard testing regime and the results compared with industry benchmarks and VSPC’s most advanced cathode powders.

Importantly, the results indicate the refined lithium phosphate is an ideal component for the manufacture of high-performance LFP cathode powders.

LIT is confident that LFP products produced using lithium phosphate, refined with the processed developed by LIT/ANSTO will have significant advantages when compared with those produced using a more conventional lithium carbonate, or lithium hydroxide precursor.

READ: Lithium Australia discovers lithium target at Lake Johnston

LIT managing director Adrian Griffin said: “The lithium phosphate refining process is cheap, effective and provides the means to produce high-purity materials with consistent quality.

“These properties are of paramount importance as we work with leading Chinese battery producer, DLG, to commercialize VSPC cathode powder.

READ: Lithium Australia to set up Lithium Australia DLG venture with Chinese
"When compared with other lithium chemicals, high-purity lithium phosphate is a winner when it comes to producing LFP batteries, providing two of the fundamental components for the generation of the cathode while simultaneously eliminating the requirement for lithium carbonate or lithium hydroxide.

"This is a real winner."

Proactive Investors facilitate the largest global investor network across 4 continents in 4 languages. With a team of analysts, journalists & professional investors Proactive produce independent coverage on 1000's of companies across every sector for private investors, private client brokers, fund managers and international investor communities.

No investment advice

The Company is a publisher. You understand and agree that no content published on the Site constitutes a recommendation that any particular security, portfolio of securities, transaction, or investment strategy is suitable or advisable for any specific person. You understand that the Content on the Site is provided for information purposes only, and none of the information contained on the Site constitutes an offer, solicitation or recommendation to buy or sell a security. You understand that the Company receives either monetary or securities compensation for our services. We stand to benefit from any volume which any Content on the Site may generate.

You further understand that none of the information providers or their affiliates will advise you personally concerning the nature, potential, advisability, value, suitability or profitability of any particular security, portfolio of securities, transaction, investment, investment strategy, or other matter. You understand that the Site may contain opinions from time to time with regard to securities mentioned in other products, including Company-related products, and that those opinions may be different from those obtained by using another product related to the Company. You understand and agree that contributors may write about securities in which they or their firms have a position, and that they may trade such securities for their own account. In cases where the position is held at the time of publication and such position is known to the Company, appropriate disclosure is made. However, you understand and agree that at the time of any transaction that you make, one or more contributors may have a position in the securities written about. You understand that price and other data is supplied by sources believed to be reliable, that the calculations herein are made using such data, and that neither such data nor such calculations are guaranteed by these sources, the Company, the information providers or any other person or entity, and may not be complete or accurate.

From time to time, reference may be made in our marketing materials to prior articles and opinions we have published. These references may be selective, may reference only a portion of an article or recommendation, and are likely not to be current. As markets change continuously, previously published information and data may not be current and should not be relied upon.

In exchange for publishing services rendered by the Company on behalf of Lithium Australia NL named herein, including the promotion by the Company of Lithium Australia NL in any Content on the Site, the Company receives from said issuer annual aggregate cash compensation in the amount up to Twenty Five Thousand dollars ($25,000).