Neometals lithium-ion battery recycling trial a success

Neometals {ASX: NMT}

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The pilot commenced in February 2019 and was conducted by SGS Canada. In January 2020 Neometals and German-based SMS Group signed an MOU to jointly fund and develop Neometals' recycling technology for lithium batteries. During this trial, Neometals successfully processed 2.3 tonnes of spent commercial lithium-ion batteries during the Feed Preparation stage of the program.

A total of 980 kg of shredded and upgraded cathode and anode material, dubbed "Black Powder" were fed into the following Hydrometallurgical Processing stage. It was in this stage that the cathode materials were recovered and refined into high-purity chemical products.

"We have now proven that we have a solution to meet the lithium-ion battery supply chains need for a safe, environmentally friendly recycling process which can reduce reliance on imported mineral feed stocks and satisfy increasing regulatory and stakeholder demands for sustainable and ethical raw material supply chains," **stated Managing Director Chris Reed.**

In the final phase of the pilot, lithium was successfully recovered, leaving only minor impurities, while the previously recovered cobalt and nickel sulphate solutions were successfully purified and crystallised to produce cathodes.