

LITHIUM-ION BATTERY RECYCLING, MINERAL EXTRACTION, RESOURCE PRODUCTION

AMERICAN BATTERY METALS CORPORATION

FOR A CLEANER FUTURE.

OTCQB:ABML

www.batterymetals.com

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FORWARD LOOKING STATEMENTS

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NAATBatt Member Update

February 12, 2020

American Battery Metals Corporation



Who we are

- ABMC is based in Nevada and has positioned itself within the lithium-ion battery recycling, mineral extraction, and resource production fields in order to supply domestically sourced metals to the rapidly growing lithium-ion battery manufacturing market
- We have developed and are currently implementing an integrated pilot plant for the universal recycling of lithium-ion batteries of various form factors and chemistries
- We are developing an internally sourced processing train for the direct extraction, purification, and conversion of aqueous lithium to battery grade hydroxide feedstock
- We have resource claims in Nevada, and have several other battery mineral resource efforts underway

ABMC Lithium-Ion Battery Recycling System

- ABMC has developed an integrated processing train for the universal recycling of lithium-ion batteries
 - System is able to process fully integrated battery modules and assemblies, with no manual disassembly
 - Processes fully charged batteries, no need for bulk discharging systems
 - System operates with cylindrical, prismatic, and pouch type cells and modules as feed
 - Additionally, manufacturing waste from throughout supply chain (*powders, slurries, coated electrodes, rolls, brines*) are fed to distinct entry points in processing train
 - Operations with NCM811, NCM532, NCA, and LCO based cathode chemistries, with variety of electrolyte and anode compositions
 - Closed loop water treatment system is integrated within facility to allow ZLD operations

ABMC Lithium-Ion Battery Recycling System

- ABMC was selected from 250 global applicants as the winner of the battery recycling **Circularity Challenge** by BASF and Stanley Black & Decker in October 2019
- A 6-month incubator program to accelerate the ramp-up and implementation of ABMC battery recycling system
 - Hosted by Greentown Labs, the largest clean technology incubator in North America
 - ABMC received cash grant, wet lab and analytical testing facilities, and membership within Greentown
 - Dedicated contacts within the BASF organization (cathode R&D, cathode manufacturing, metal recycling, battery/catalyst recycling, procurement, ventures)



ABMC Lithium-Ion Battery Recycling System

- Off-spec materials from BASF US Cathode manufacturing facilities have been sent to ABMC facilities for evaluation and processing
 - Calcined active cathode NCM811 dry powder
 - Active cathode NMC811 hydroxide precursor slurry
 - Li- and Ni-rich waste brines
- End-of-life battery packs from Stanley Black & Decker products have been sent to ABMC facilities for evaluation and processing
 - 18650 cylindrical cell-based packs
- Nickel, Cobalt, and Manganese sulfate and lithium hydroxide products are being generated in accordance with BASF specifications, and will be sent to BASF testing facilities for evaluation
- ABMC is rapidly accelerating the construction and implementation of its first-of-kind 20,000 MT/yr integrated lithium-ion battery recycling pilot plant to undergo commissioning and operations in the second half of 2020

- Business Inquiries & Questions -

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