

RecycLiCo Battery Materials Highlights CO2 Emission Savings for Lithium Production

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SURREY, August 31, 2022 - [American Manganese Inc.](#) (TSXV:AMY) (OTCQB:AMYZF) (FSE:2AM) (the "Company"), doing business as RecycLiCo Battery Materials, is pleased to highlight the Company's advanced battery recycling and upcycling process's potential ability to produce less carbon-dioxide ("CO₂") equivalent emissions than traditional extraction methods (i.e. mining and refining), when producing lithium hydroxide monohydrate ("LHM"). The findings were reported in the life cycle assessment ("LCA") completed by Minviro Ltd. ("Minviro"), a UK-based and globally recognized sustainability and life cycle assessment consultancy.

Minviro estimates that for every kilogram of LHM being produced, the RecycLiCo process would potentially release 3.3 kg of CO₂ equivalent emissions whereas traditional mining and refining would release an estimated 12.7 kg of CO₂ emissions, based on industry averages. This means that on average, for every 100,000 new electric vehicle battery packs produced using LHM from the RecycLiCo process, potentially 40,570 tonnes (roughly the weight of 300 blue whales) of CO₂ equivalent emissions may be avoided.¹

According to Bloomberg New Energy Finance ("BNEF"), the EV battery boom has catapulted lithium prices to record levels and the world is going to need five times more lithium by the end of the decade, "but the lithium supply chain is far from green". To meet this demand, BNEF estimates that the lithium industry needs as much as \$42 billion in new investment.

The LCA report, first reported in July 2022, was an in-depth study on the RecycLiCo's lithium-ion battery waste recycling and upcycling process, assessing the Company's process against competing hydrometallurgical recycling methods and the industry average for primary extraction. The LCA considered all material and energy inputs such as scope 1, 2, and 3 CO₂ emissions and was conducted in accordance with ISO-14040:2006 and ISO-14044:2006 standards, including a critical review of the LCA by independent experts.

"More investors are looking to support organizations that promote sustainability and comply with emerging climate change regulations," said Zarko Meseldzija, CTO of American Manganese. "To make these key decisions, ESG impacts have become an increasingly important part of the investment process, and those investors who value a company's assets based on ESG factors, can take comfort in LCA results completed by a professional and independent LCA consultancy under ISO-standards."

About American Manganese Inc.

[American Manganese Inc.](#), doing business as RecycLiCo Battery Materials, is a battery materials company focused on recycling and upcycling lithium-ion battery waste. With minimal processing steps and up to 100% extraction of lithium, cobalt, nickel, and manganese, the patented, closed-loop hydrometallurgical process creates valuable lithium-ion battery materials for direct integration into the re-manufacturing of new lithium-ion batteries.

About Minviro

Minviro is a London-based and globally recognized consultancy and technology company specializing in carrying out life cycle assessments in the technology metal space. The company provides quantitative environmental and climate impact data for mineral resource projects, battery manufacturers and OEMs to make environmentally informed decisions (www.minviro.com).

For more information, please contact:
Investor Services

Telephone: 778-574-4444
Email: InvestorServices@amymn.com

www.americanmanganeseinc.com
www.recyclico.com

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¹ Calculations are made by the Company which assumed an NMC-811 cathode chemistry and a 64-kWh electric vehicle battery pack based on data found at <https://ev-database.org/cheatsheet/useable-battery-capacity-electric-car>

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