

Telescope Innovations Develops Novel Battery Recycling Technology

A new approach isolates lithium and valuable transition metals from battery recycling feeds

Vancouver, British Columbia--(Newsfile Corp. - April 15, 2024) - Telescope Innovations Corp. (CSE: TELI) (OTCQB: TELIF) ("**Telescope**" or the "**Company**") is leading a developer of advanced technologies and services for the global pharmaceutical and chemical industries. The Company focuses on process innovation, particularly for the production of medicinal compounds and battery materials. Telescope announces it has demonstrated proof-of-concept for a proprietary recrystallization process that efficiently separates battery raw materials (i.e., lithium and nickel salts) from mixed recycling slurries. The new technology has the potential to disrupt battery recycling methods, bolster the supply chain for battery materials, and support the global transition to a clean energy economy.

An alternative to incumbent, reagent-intensive battery recycling

Conventionally, individual metals (lithium, Li; nickel, Ni; cobalt, Co; and manganese, Mn) are separated from battery recycling brines in progressive stages that each require additional reagents. Separated components must often be further purified via crystallization to isolate the raw material. In contrast, Telescope's selective recrystallization technique isolates high purity salts directly from brines without using additional reagents (Figure 1).



Figure 1. Telescope's recrystallization technique separates high purity materials from battery recycling brines.

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Rather than added reagents, this process relies only on fine control of crystallization temperature. This level of control is enabled by Telescope's advanced analytical technology and automation tools, which provide continuous process feedback. The Company has demonstrated the recrystallization method by separating nickel and lithium salt crystals from synthetic battery recycling brines, and plans to expand the scope of isolable materials.

"We aim to simplify battery recycling flowsheets and reduce reagent costs," said Jason Hein, CTO of Telescope. *"We're excited about the potential of this work to impact the life cycle of battery materials, and address the pressing global demand for critical minerals."*

About Telescope

[Telescope](#) is a chemical technology company developing scalable manufacturing processes and tools for the pharmaceutical and chemical industry. The Company builds and deploys new enabling

technologies including flexible robotic platforms and artificial intelligence software that improves experimental throughput, efficiency, and data quality. Our aim is to bring modern chemical technology solutions to meet the most serious challenges in health and sustainability.

On behalf of the Board,

Telescope Innovations Corp.

Jeffrey Sherman, Chief Operating Officer

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Forward-Looking Information

Forward-looking information is based on a number of opinions, assumptions and estimates that, while considered reasonable by the Company as of the date of this news release, are subject to known and unknown risks, uncertainties, assumptions and other factors that may cause the actual results, level of activity, performance or achievements to be materially different from those expressed or implied by such forward-looking information.

Examples of such assumptions, risks and uncertainties include, without limitation, assumptions, risks and uncertainties associated with the global COVID-19 pandemic; general economic conditions; adverse industry events; the Company's ability to access sufficient capital from internal and external sources, and/or inability to access sufficient capital on favorable terms; the ability of the Company to implement its business strategies; competition; and other assumptions, risks and uncertainties.

Forward-looking statements in this document include expectations surrounding the potential of Telescope's recrystallization technology to disrupt battery recycling methods, bolster the supply chain for battery materials, and support the global transition to a clean energy economy, the Company's plans to expand the scope of isolable materials with this method, and all other statements that are not statements of historical fact.

The forward-looking statements contained in this news release are made as of the date of this news release, and the Company expressly disclaims any obligation to update or alter statements containing any forward-looking information, or the factors or assumptions underlying them, whether as a result of new information, future events or otherwise, except as required by law.

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