



FOR IMMEDIATE RELEASE

Growing the Electrochemical Value Chain
Exploring AEM applications for the Production of High Purity Lithium

Vancouver, B.C. | January 31, 2023 | Two leading Canadian innovators are collaborating successfully to advance the Canadian electrochemical supply chain.

A Memorandum of Understanding between Vancouver, B.C. companies NORAM Electrolysis Systems Inc. (NESI) and Ionomr Innovations Inc. provides for the initial testing of Ionomr's advanced anion exchange membranes in NESI's proprietary NORSCAND® electrolysis platforms for critical salt-splitting applications.

The electrochemical production of high-purity Lithium from diverse brines and mineral resources is increasingly seen as a key building block in the rapidly growing Lithium Ion Battery (LIB) industry.

Electrolysis allows the effective conversion of lithium precursors to the desired lithium hydroxide chemicals that enter battery use. It moreover represents a feasible pathway in the circular economy to re-processing by-products such as sodium sulphate into useful chemicals such as NaOH and H₂SO₄.

Ionomr has specialised in the development of durable, high-performance Anion Exchange Membranes (AEM), that allow longer lifetimes in both highly basic and strongly acidic environments. Ionomr's AEM, called Aemion®, does not use perfluorosulfonic acid (PFSA) or any fluorinated materials that are becoming increasingly regulated worldwide due to environmental concerns.

Ionomr's Aemion® technology is used by hydrogen producers across the globe to develop into their water electrolysis systems. Small-scale validation testing with NESI in Q1 2023 is expected to validate the application of Ionomr's Aemion® for industrial salt-splitting processes.

About NESI/NORSCAND

NORAM Electrolysis Systems Inc. (NESI) is a privately held Vancouver, BC, Canada based electrolysis technology company. NESI focuses on the commercial implementation of lithium electrolysis for a variety of lithium brine feedstocks (sulphate, chloride, or carbonate). NESI is a wholly-owned subsidiary of NORAM Engineering and Constructors and part of the NORAM Group of Companies. NESI has an extensive electrochemical demo plant located at its R&D facility in Vancouver, Canada. For more information please visit: www.nesi.tech

About Ionmr Innovations

Ionmr Innovations is revolutionizing electrochemistry with newly developed ion-exchange membranes and polymers for clean energy. Ionmr's Pemion® and Aemion® technologies provide cost, performance and sustainability advantages for fuel cells, hydrogen production and carbon capture, use and conversion. Ionmr was founded in 2018 and employs 45 professionals in Vancouver, Canada and Rochester, New York. For more information about how Ionmr is helping to advance the clean energy economy, visit www.ionmr.com.

