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NEWS RELEASE

Mitsui Kinzoku Signs Joint Development Agreement with Gelion to Explore the Feasibility of Lithium-Sulfur Batteries

— Verifying the Potential of Next-Generation Lithium-Sulfur Batteries —

Mitsui Kinzoku (President: Seiji Ikenobu) announced today that it has entered into a joint development agreement with Gelion Plc (headquartered in the United Kingdom; CEO: Matthew Wood; hereinafter “Gelion”), a developer of next-generation sulfur-based battery materials, for the development of lithium-sulfur batteries, which are regarded as a promising next-generation battery technology. The agreement was executed on August 3, 2026.

Under the agreement, the two companies will assess the potential of lithium-sulfur batteries by combining Mitsui Kinzoku’s materials and evaluation technologies for its sulfide-based solid electrolyte, “A-SOLiD™,” with Gelion’s sulfur-based cathode active material, “NES™” (Nano Encapsulated Sulfur).

Lithium-sulfur batteries are attracting attention as a technology that can contribute to reducing raw material procurement risks and battery costs, as they can achieve high energy density while enabling cathode material designs that do not use rare metals such as nickel and cobalt. At the same time, several issues must be verified for practical application, including battery performance and mass producibility. Based on this agreement, the two companies will evaluate battery characteristics using the combination of Gelion’s NES™ cathode active material and Mitsui Kinzoku’s A-SOLiD™.

Looking ahead, the companies also intend to explore business opportunities in next-generation battery materials for the global market by leveraging the scale-up of Gelion’s NES™ cathode active material production, together with Mitsui Kinzoku’s battery materials technologies and customer network.

Guided by its purpose, “We promote the well-being of the world through a spirit of exploration and diverse technologies.” Mitsui Kinzoku is working to create new value in the battery materials field. Through co-creation with external partners, we will continue contributing to the realization of a sustainable mobility and energy society.

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Reference



Sulfide Solid Electrolyte A-SOLiD™