

February 14, 2022
JX Nippon Mining & Metals Corporation

Investment in Addionics Limited

JX Nippon Mining & Metals Corporation (President: Murayama Seiichi; “the Company”) is taking a capital stake in Addionics Limited (CEO: Moshiel Biton; “Addionics”), an Israeli start-up that develops smart 3D electrodes used in lithium-ion batteries.

Based in Israel, a hub for tech companies that develop cutting-edge technologies, Addionics is a start-up engaged in development of 3D electrodes for use in lithium-ion batteries. With the progress of decarbonization and IoT, the demand for lithium-ion batteries is currently expanding worldwide, and higher-energy batteries are required. To meet these needs, Addionics develops 3D electrodes with porous structures using AI technology. Compared to ordinary 2D electrodes, 3D electrodes enable increased loading of active material, which improves energy density while reducing battery internal resistance to allow fast charging. For this reason, they are expected to contribute to extended EV driving range and miniaturization of IoT devices.

The Company’s investment will provide a springboard to build a stronger relationship with Addionics, and the Company will move forward with business development in the battery materials field, while considering future collaboration with Addionics. The Company also believes that the investment will provide an opportunity to build networks with Israel’s outstanding start-ups and academic institutions, leading to generation of new business.

The Company will proactively strive to develop new products together with its partners, and by proposing and supplying cutting-edge materials essential to innovative electronic devices, will contribute to realizing a sustainable society.

Addionics Overview (As of January 2022)

Name	Addionics Limited
Location	Tel Aviv, Israel
Representative	Moshiel Biton (CEO)
Business activities	Development of smart 3D electrodes for lithium-ion batteries
Establishment	October 2017