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RUSNANO's Portfolio Company Liotech Consolidates its Position in Uninterruptible Power Supply Market

Novosibirsk-based manufacturer of lithium-ion batteries has simultaneously completed several projects to supply uninterruptible power supply (UPS) systems. In a number of instances, outdated lead-acid batteries were replaced with more modern lithium-ion ones. The combined energy capacity of accumulators that the company supplied to this segment of the market exceeded 1 MWh.

Recently completed projects include the delivery of uninterruptible power supply systems to Principal Plaza (with a combined capacity of 240 KWh) and to Polymetal International plc. (with a 120 Kwh capacity). In addition, at the end of 2019, Liotech won the tender to supply PJSC Sberbank with UPS systems that use lithium ion battery technologies.

Earlier, Liotech had installed an uninterruptible power supply system at the Belorussky railway terminal in Moscow. At the moment, the possibility of utilizing these systems more broadly in Russia's other railway terminals and stations is being considered.

In a number of aforementioned projects, Liotech partnered with Delta Electronics, Inc., one of the world's leading suppliers of uninterruptible power supply units for domestic, office and industrial use. Delta Electronics' clients include companies involved in manufacturing of semiconductors, optoelectronic devices, power supplies, petroleum derivatives, as well as financial institutions and telecommunication companies.

In the entire global uninterruptible power supply sector, there is a push to switch from lead-acid batteries to lithium-ion ones, which have a number of advantages over their outdated equivalents that include a longer operating life, smaller weight and size of the batteries, and lower maintenance costs and advanced monitoring possibilities associated with their use. Lithium-ion batteries are also less sensitive to temperature fluctuations than their lead-acid counterparts.

The effective capacity of the former is 2 to 3 times greater than that of the latter, and their energy density is 2 to 5 fold higher. This allows for a more efficient use of space, which is extremely important when putting together systems designed to have high energy capacities.

In fact, the size of the market for lithium-ion based uninterruptible power supply systems for all types of uses in Russia may be worth RUR 12 bln by 2025.



RUSNANO Joint-Stock Company was founded in March 2011 through reorganization of state corporation Russian Corporation of Nanotechnologies. JSC RUSNANO contributes to implementation of the state policy on the development of the nanotechnology industry by investing directly and through investment funds of nanotechnology in financially effective high-technology projects providing the development of new production facilities in the Russian Federation. Its primary investment focus is in electronics, optoelectronics and telecommunications, healthcare and biotechnology, metallurgy and metalwork, energy, mechanical engineering and instrument making, construction and industrial materials, chemicals and petrochemicals. 100 percent of RUSNANO's shares are state owned. Thanks to RUSNANO's investments, there are currently 115 factories and R&D Centers opened in 37 regions in Russia. JSC RUSNANO has profit for the last 5 years.

Management of assets of RUSNANO JSC is carried out by Limited Liability Company established in December 2013, RUSNANO Management Company. Anatoly Chubais is the Chairman of its Executive Board.

Work to establish nanotechnology infrastructure and carry out educational programs is fulfilled by RUSNANO's Fund for Infrastructure and Educational Programs, which was also established during the reorganization of the Russian Corporation of Nanotechnologies.

More information can be found at en.rusnano.com

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