



PRESS RELEASE

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Russia's Largest PPP with Energy Storage Facility Built Based on Three Technologies Supported by RUSNANO

In the Republic of Bashkortostan, Russia's largest photovoltaic power plant (PPP) with an energy storage facility, the 10 MW Burzyanskaya Power Plant, was commissioned. The RUSNANO Portfolio Company Liotech supplied energy storage units with a total capacity of 8 MWh to the PPP. The delivery was made in cooperation with Energy Storage Systems (owned by the RUSNANO Group Fund for Infrastructure and Educational Programs), a developer of intellectual solutions based on lithium-ion cells. The investor in the Burzyanskaya PPP was the leader of the Russian solar power industry with its own production of solar modules Hevel Company Group, created with the participation of RUSNANO.

The industrial energy storage units included in the power plant complex are record-breaking in terms of capacity in Russia. The automated control system selects the optimal operation mode of the energy facility: by analysing many parameters, it determines when to store energy and when to release it into the network. The new PPP will provide reliable and uninterrupted power supply to Burzyanskiy district, and in case of emergency shutdown or repair work on the power line, it will be able to operate in autonomous mode.

Energy storage units produced by the Novosibirsk-based Liotech plant are used as part of power plants based on renewable energy sources to compensate for the unevenness of alternative generation. This allows for consistently high power quality, as well as storing excess power to cover peak loads.

Anatoly Chubais, Chairman of the Executive Board of RUSNANO Management Company: Integration of renewable energy facilities and energy storage systems is a global trend. The launch of the Burzyanskaya PPP confirms that complementary clusters of renewable energy production and storage have been created in Russia, and we can address such challenges. For remote areas, such solutions not only save on expensive diesel fuel costs, but also guarantee uninterruptible power supply based on green energy. I am convinced that following the renewable energy sector, we will soon see an active spread of smart energy storage systems based on lithium-ion batteries in power grids, railway and water transport, to create uninterruptible power supply for enterprises.

According to a joint report by RUSNANO and the Centre for Strategic Research, the Russian segment of the energy storage systems market could reach \$1.5-3 bln by 2025, with almost half of it in the energy sector.



Liotech battery cells as part of the 300 kWh energy storage unit are already used at the Hevel hybrid power plant, which was launched in the village of Menza, Zabaikalsky Krai. Liotech energy storage systems with a capacity of 250 and 460 kWh are also installed at the Hevel PPP in the Republic of Tyva. In addition to energy, the priority areas of Liotech's business include electric transport and uninterruptible power supply.

Technological engineering company Energy Storage Systems (ESS) is engaged in the development of industrial systems for the electrical energy storage designed for isolated areas with sources of renewable energy and for meeting the peak needs of large enterprises, improving the quality and reliability of their energy supply. ESS energy storage units use lithium-ion batteries of the Novosibirsk-based Liotech plant.

Established with the participation of RUSNANO in 2009, Hevel Company Group is Russia's largest integrated solar energy company. The Company Group includes, among others, a solar module production plant in Chuvashia and Russia's largest specialized scientific organization in the field of photovoltaics, the Science and Technical Centre (St. Petersburg). Since 2014, the company has built 597.5 MW of grid solar power generation in Russia.

***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.

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