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## Launch of the First Fully Electric Catamaran

*The EcoVolt electric catamaran, which runs on lithium-ion batteries, has been launched in Saint Petersburg. The ship is intended for tourist trips between the Hermitage and Peterhof, and is able to operate for up to 10 hours on a single charge. It is planned that when these vessels are in full-scale production they will be equipped with batteries manufactured by Liotech, a RUSNANO portfolio company.*

The catamaran was built by the Morsvyazavtomatika RMC, with the support of the National Reserve Corporation, which invested in the project. The vessel has a capacity of 60 passengers, and can cruise at speeds of up to seven knots. It is planned that the full-scale production of these environmentally clean vessels will take place in Leningrad region.

Most of the catamaran parts are manufactured in Russia. Their factory cost is comparable to that of equivalent diesel vessels, but they cost only half as much to run. It is planned that in the next two years at least 5 of these vessels, fitted with Liotech batteries, will be manufactured.

Liotech is the only large-scale producer of lithium-ion batteries in Russia. The company is involved in a considerable range of projects relating to the electrification of surface public transport and special equipment. Liotech is the only Russian company to be certified by the Russian Maritime Register of Shipping. This status means that the company's products can be used in vessels of various categories, either to provide an uninterruptible power supply or as a traction battery.

Liotech already has experience in the use of its products in the shipbuilding industry. The Ekovolna expedition used an electric catamaran two years in a row. This vessel, manufactured by the National Centre for Engineering Competitions and Contests, is powered by solar panels produced by Hevel (a company established with participation from RUSNANO) as well as Liotech lithium-ion batteries with a total capacity of 70 kW. This combination of power sources allows the vessel to operate for 20 days without recharging, including at night and when there is little sunlight. The vessel has set a record for the longest journey by an electric and solar-powered vessel – it travelled 5,000 kilometres.

**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 at the end of 2019.

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.