



RUSNANO



Russian Railways



RUSENERGOSBYT

St. Petersburg, June 7th, 2019

RUSNANO JSC, Russian Railways OJSC and RUSENERGOSBYT LLC signed agreement on cooperation to develop energy storage systems

- *The signing ceremony took place within the framework of the St. Petersburg International Economic Forum 2019*
- *The parties agreed to work together on the development of innovative energy projects, including the possible introduction of energy storage systems at Russian Railways facilities*

RUSNANO JSC, Russian Railways OJSC and RUSENERGOSBYT LLC, subsidiary of Enel S.p.A. and ESN Group, signed an agreement to cooperate in the development of energy storage systems. The document was signed by Anatoly Chubais, Chairman of the Executive Board of RUSNANO Management Company (manages assets of RUSNANO JSC), Oleg Belozеров, Chief Executive Officer and Chairman of the Executive Board of Russian Railways, and Francesco Starace, Chief Executive Officer and General manager of ENEL, acting on behalf of its subsidiary RUSENERGOSBYT LLC.

The agreement aims at conducting joint works on the development and testing of solutions to improve the energy and technological efficiency of the rail transport through the use of energy storage systems.

Under the agreement, the parties will define the technical requirements to implement energy storage on Russian Railways' power supply network by the end of 2019 and, once this first phase is completed, the parties will begin the designing and implementation of a testing pilot project in 2020. Energy storage solutions can be applied on the Russian Railways' traction power network, helping to solve strategic tasks such as the increase of cargo transportation by enhancing railway network capacity. This initiative marks the first test of such a solution on Russian railways.

The energy storage projects under the agreement will be jointly implemented with the Enel Group, leveraging on its expertise in developing innovative energy projects and solutions around the world. Liotech Novosibirsk plant (a subsidiary of RUSNANO JSC), which is the only Russian enterprise producing battery cells and batteries for industrial use, will supply rechargeable cells for the project.

Chairman of the Executive Board of RUSNANO Management Company **Anatoly Chubais:**



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“An industrial energy storage is being built right in front of us in Russia. Large consumers see the potential for improving energy efficiency through Microgrid technologies, and storage devices will inevitably become an important component of this innovative energy infrastructure. The pilot project with Russian Railways aims to confirm that the use of energy storage systems may in some cases be more efficient for the purpose of solving the problem of peak consumption. A rechargeable battery will increase the capacity of the pilot section of railways. We hope that this experience will be economically successful for consumers and will be scaled onto other sections of the railways lacking energy.”

Enel’s CEO and General manager **Francesco Starace**:

“Enel is a world leader in the intelligent use of batteries within electricity systems with the aim to enhance their flexibility and cope with peak demand. This is the first time we use this technology on a railway system and we are extremely interested in the possible future development of this application.”

President of RUSENERGOSBYT LLC **Mikhail Andronov**:

“This agreement marks an important milestone in the development of Russia’s advanced energy service sector since it promotes energy storage, which is one of the main drivers of the technological revolution currently underway in the energy sector. We are happy to be working alongside RUSNANO and Russian Railways to show that storage systems are economically feasible and will help improve the efficiency of rail transport.”

***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 97 factories and R&D Centers opened in 37 regions in Russia. JSC RUSNANO has profit*



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*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.*

***RUSSIAN RAILWAYS** is one of the largest railway companies in the world. It ships enormous volumes of freight and passengers and has high financial ratings, qualified specialists in all areas of railway transportation, a large scientific and technical base, design and construction capacities, and considerable experience in cooperating with international partners. The company runs one of the largest transportation systems in the world: the operational length of the tracks is 85,600 km, and the length of electrified lines is 43,800 km. Russian Railways provides over 46% of the total cargo turnover (including pipeline transportation) and about 25% of passenger traffic in the Russian Federation.*

***LLC RUSENERGOSBYT** was established in 2002 and now it is one of the largest energy supply companies operating in the Russian Federation. The shareholders are the International energy group ENEL and the Russian group ESN. «RUSENERGOSBYT» supplies electricity to consumers in 69 regions from Kaliningrad to the Far East. The structure of the company includes 9 branches and the central office in Moscow. Client portfolio of «RUSENERGOSBYT» consists of more than 100 thousand customers. Among «RUSENERGOSBYT» key clients – JSC Russian Railways, JSC KAMAZ, GAZ Group, OJSC SOLLERS, Air Liquide Group. Annual volume of sales exceeds 50 bln kWh.*