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PRESS-RELEASE

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Vestas-RUSNANO Wind Turbine Blade Factory to Export Products First Time Ever

At the factory where Vestas Manufacturing Rus assembles wind turbine blades, a formal ceremony has been held to mark the dispatch of the first consignment of blades, which will be exported to Denmark.

The participants in the ceremony included **Yury Borisov**, Russian Deputy Prime Minister, **Sergey Morozov**, Governor of Ulyanovsk Region, **Carsten Søndergaard**, Danish Ambassador to Russia, **Anatoly Chubais**, Chairman of the Executive Board of RUSNANO Management Company and **Kimal Yusupov**, Managing Director of Vestas Manufacturing Rus. Due to the challenges caused by the current epidemic, the event took place in the form of a video conference.

A batch of 48 blades was sent from the site of the Vestas Manufacturing Rus enterprise in Ulyanovsk to the customer in Denmark to build a new wind turbine park. This in the first time in the history of the country's national power plant engineering sector that one of the key components of wind turbines was manufactured in Russia and exported.

A batch of turbine blades, each 62 metres long and weighing 12.5 tons, will be transported by road haulage from the factory to the port of Togliatti, and from there they will be shipped to Denmark on two vessels, and will reach the customer by the middle of May. The blades are designed for Vestas V126 turbines, which have a capacity of 3.45 MW, and they will enable the customer to construct 55 MW of new wind energy generation capacity.

Yury Borisov, Russian Deputy Prime Minister:

The first export of blades is an important event not only for the renewable energy sector, but also for our country's economy on the whole. The production of components for Vestas wind turbines has been localised not only in Ulyanovsk, but also in the Nizhny Novgorod and Rostov Regions. Similar projects should be replicated in other regions as well.

The Russian government has supported and will continue to support the creation of new high-tech production facilities in this area. As part of the programmes to support renewable energy, more than 5 GW of solar, wind and water power generation facilities will be built by 2024. Given the importance of developing renewable energy, as well as the need to strengthen industrial competencies and ensure the export of high-tech equipment and services to the industry in the future, the Russian government will continue to support this area after 2024.

Sergey Morozov, Governor of Ulyanovsk Region:

Ulyanovsk Region is proud of the fact that it is the birthplace of the national wind energy industry. It was here that the first megawatt-level wind park was constructed, the domestic production of wind turbine blades was launched, and the first programme to prepare specialists to work in this new sector was set up at Ulyanovsk State Technical University.

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

The Vestas - RUSNANO plant in Ulyanovsk, the first facility to produce wind turbine blades in Russia, has once again proved its status as a pioneer in the domestic wind energy industry. The export of this first consignment of Russian wind energy equipment demonstrates that we have performed in full all our obligations under the special investment contract. We are proud that Ulyanovsk blades will find application in Denmark, the motherland of the world wind power industry, which is currently the world leader in the industry.

President of Vestas in Northern and Central Europe **Nils de Baar**:

Vestas is pleased that, together with RUSNANO and the local industrial partners, we are meeting the export commitment of the Ulyanovsk plant in full, as stipulated in the special investment contract. The first export batch of 48 blades is another important step for the Russian wind energy industry, and, no doubt, every employee of the plant takes credit for it.

Winner of the Global Energy Prize 2018, Academician of the Russian Academy of Sciences **Sergey Alekseenko**:

“Wind energy has an important place in the world: in particular, its share in the European energy system is 13.4%, while in Denmark itself it already accounts for more than 40%. In Russia, according to various estimates, the potential for wind energy development may reach from 100 to 150 GW (mainly in the shelf zone).

However, just 2-3 years ago it was hard to imagine that Russia would export wind energy products. One has to have great courage to take up the development of this industry in Central Russia, the way Ulyanovsk Region Governor Sergey Morozov did. Now the process is under way, and Vestas and RUSNANO are planning to increase their output to 300 blades per year. In addition, the Ulyanovsk Region not only produces components for wind turbines, but also builds wind farms on its territory. The region can become an inspiring example for other parts of Russia showing how to create an innovative renewable energy industry.”

Frede Blaabjerg, winner of the Global Energy Prize 2019, head of the Center of Reliable Power Electronics (CORPE) at Aalborg University (Denmark):

“I believe this event is an excellent result of the work done jointly by Denmark and Russia. It also shows that if we are going to meet the global challenge of switching to renewable energy, it will not be possible without close cooperation between the countries. The production of wind energy components in different countries will allow us to create new capacities around the world. Congratulations to Vestas, RUSNANO and the Ulyanovsk Region for this achievement!”

The Vestas Manufacturing Rus plant, which was launched in December 2018, is Russia’s only producer of composite blades for wind turbines. The production facility is located in an aviation cluster in Ulyanovsk. The blades are designed for wind turbines with a capacity of 3.4 to 4.2 MW. It is planned that more than 250 blades will be produced in 2020, and that this figure will increase to 300 in 2021.

The partners in the project are Vestas, RUSNANO and the Ulyanovsk Region Investor Consortium, which includes ULNANOTECH, Ulyanovsk nanocluster and Aquilon. More than 2 billion roubles have been invested in the project and more than 400 jobs have been created at the high-tech production facility.

The unique production of wind turbine components was created under a special investment contract (SPIC) between Vestas Manufacturing Rus, the Russian Ministry of Industry and Trade and the Ulyanovsk Region. The SPIC, signed for 8 years, became the first in the domestic power plant engineering industry. In exchange for the obligation on the part of the JV to create an industrial production that has no analogues in Russia, the mechanism guarantees the stability of tax and regulatory conditions for a successful technology transfer.

The Danish company Vestas, a global leader in the production of wind turbines, is working with RUSNANO on the transfer of wind energy technology and developing its production capacity in Russia. The production of turbine blades in

Ulyanovsk is one of the key stages in the wind energy equipment localisation in Russia (it contributes 18% towards the wind turbines' localisation). Vestas was selected as the supplier of renewable energy equipment to the Wind Energy Development Fund (established on a parity basis by JSC RUSNANO and PJSC Fortum), which is engaged in projects for the construction of wind parks with a total capacity of more than 1,800 MW by 2023.

***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 38 regions in Russia.*

*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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