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Russian joint venture of State Corporation Rosatom and Alstom will supply the turbine island to the Baltic nuclear power plant

Russian-French joint venture Alstom-Atomenergomash (AAEM) has signed an agreement to supply turbine island equipment for units 1 and 2 of the Baltic nuclear power plant in Kaliningrad region, which are to be commissioned in 2016 and 2018 respectively.

The total value of the contract exceeds 35 billion rubles (around €875 million). The scope of supply agreement signed by AAEM includes Alstom steam turbines ARABELLE, generators, condensers, moisture separator reheaters and auxiliary equipment. Despite the fact that this is the joint venture's first order, the share of equipment to be manufactured in Russia will exceed 50%. In future, this share is expected to reach 70% and more.

The equipment will be manufactured at production sites located in Russia in accordance with previous Russian-French agreements and in line with the ARABELLE turbine production localization programme in Russia for nuclear power plants with Russian reactor designs locally and abroad. Alstom's Belfort plant in France will support the production of certain types of equipment included in the contract signed by AAEM.

"The contract signed today is an example of successful cooperation between Rosatom and Alstom aimed at introducing state-of-the art technologies in Russia. The Baltic nuclear power plant is one of the most significant investment projects in Russia and the use of ARABELLE reference technology is essential for attracting foreign investors. Its implementation will be key to ensure the energy security of the Baltic region and to improve the global competitiveness of Russia's production of power equipment. It will create hundreds of new jobs and secure orders for the Russian nuclear industry", said Kirill Komarov, Deputy Director General for Development and International Business, State Corporation "Rosatom".

"This contract marks an important milestone for our joint venture in Russia. Considerable experience of Alstom in implementing similar projects will be key to the success of the development of AAEM's competencies in the manufacture and supply of equipment for turbine islands based on the ARABELLE technology", commented Patrick Kron, Chairman and CEO of Alstom.

Baltic nuclear power plant is the first NPP project in Russia which involves the participation of foreign suppliers. It will not only cover the energy requirement of the Kaliningrad region, but will also secure energy exports to the Baltic states and north-west Europe. The Baltic nuclear power plant will be based on the AES-2006 project with the use of the pressurized water reactor VVER-1200 (designed by OKB "HYDROPRESS") and will have capacity of 2 x 1200 MW. OJSC "NIAEP", engineering company of state corporation, Rosatom, is the general contractor for the construction of the Baltic nuclear power plant.

Alstom's ARABELLE™ technology provides maximum efficiency and enhances the reliability of electricity production at nuclear power plants, reducing the total construction and operating costs of nuclear power plants. Today, Alstom's ARABELLE half-speed turbines are the most powerful on the market – able to reach power capacity of up to 1700-1800 MW - and guarantee excellent performance. When the total operating time of these turbines is more than 300 000 hours the average downtime is less than 1 hour per unit /per single year, which is an unprecedented level of turbine availability. ARABELLE™ turbine plants are located at a number of power units, including nuclear power plants in China and the largest one is in Flamanville 3 in France with a unit capacity of 1750 MW.

Alstom-Atomenergomash (AAEM) is a joint venture created in 2007 in Russia by Alstom (49%) and Atomenergomash (51%) to deliver nuclear conventional islands and assembly of machine for Russian and foreign nuclear power plants with Russian reactor types based on the licensed technology ARABELLE™.

Alstom is a global leader in the world of power generation, power transmission and rail infrastructure and sets the benchmark for innovative and environmentally friendly technologies. Alstom builds the fastest train and the highest capacity automated metro in the world, provides turnkey integrated power plant solutions and associated services for a wide variety of energy sources, including hydro, nuclear, gas, coal and wind, and it offers a wide range of solutions for power transmission, with a focus on smart grids. The Group employs 93,500 people in some 100 countries, and had sales of €20.9 billion in 2010/11.

OJSC Atomenergomash, one of the leading power machine building companies in Russia, is a power engineering division of State Atomic Corporation Rosatom. AEM supplies efficient comprehensive solutions for nuclear, thermal power sector, gas and petrochemical industry. The holding comprises over 50 production, research and development, engineering companies in Russia and abroad.

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