RUSNANO

PRESS RELEASE

10/03/2020

RUSNANO Group Opens Russian Flexible Electronics Centre

The Russian Flexible Electronics Centre began operations in the town of Troitsk, in the federal city of Moscow. The plant was opened by Chairman of the Executive Board of RUSNANO **Anatoly Chubais** and Mayor of Moscow **Sergey Sobyanin**.

The Russian Flexible Electronics Centre is a contract manufacturer of the TechnoSpark Group of Companies, which is part of the investment network of RUSNANO's Fund for Infrastructure and Educational Programs (FIEP). The facility carries out prototyping and small-scale production of key components for a wide spectrum of devices, such as TFT matrices (thin-film transistor matrices) for displays (of e-paper, LCD screens and OLED displays) and sensors (biometric sensors, X-ray detectors, etc.), as well as integrated circuits for RFID tags and sensors.

"Just a few years ago, there was an empty field here. And today, we are opening an ultra-modern production facility, the Russian Flexible Electronics Centre, here. The goods made at the plant will be used in dozens of different fields, ranging from home appliances to the most sophisticated medical equipment. The Government of Moscow has provided a subsidy for the purchase of equipment for this factory," said Mayor of Moscow Sergey Sobyanin at the opening.

The new production facility will make use of an industrially-proven organic transistor technology platform, developed by the company FlexEnable (UK), that allows electronics to be manufactured on a flexible plastic film. The transfer of technologies for production of flexible oxide-based (or IGZO, Indium Gallium Zink Oxide) TFTs and integrated circuits from R&D centres of Imec (Belgium) and Holst Centre (the Netherlands) will be completed by the end of 2020.

Once the production facility reaches its designed capacity, approximately 4,000 sqm of TFT matrices will be made here. In terms of their potential application, this is equivalent to 1.5 mln TFT matrices for small screens (digital price tags or smart cards), or 100,000 TFT matrices for tablet-sized displays, or 100,000 TFT matrices for palm-sized sensors for biometric authentication, or 100 mln plastic chips for RFID tags.

According to IDTechEx's research report "Printed, Organic and Flexible Electronics 2020-2030: Forecasts, Technologies, Markets", "the total market for printed, flexible and organic electronics will grow from $41.2 bln in 2020 to $74 bln in 2030".

"Flexible electronics is a global trend and a fast-growing market that, according to a

study by international experts, will double over the next decade and will be worth more than $70 bln a year. Today, the world's leading nations in technology are developing their flexible electronics sectors. And thanks to RUSNANO Group's and Government of Moscow's joint project to create the Russian Flexible Electronics Centre, our country has now joined this club. Our goal is to develop Russia's technological, engineering and, as the next step, scientific competencies in this field and then integrate this sector into the global supply chain. We clearly see the emerging demand as some companies are already working with us. And we are confident that we will be able to create products not only for the Russian, but also for the global market," said **Anatoly Chubais**, Chairman of the Executive Board of RUSNANO Management Company, at the opening ceremony.

"The Russian Flexible Electronics Centre is TechnoSpark's first startup to become a factory. Together with high-tech companies operating here, which produce solar roofs, logistics robots, medical equipment and 3D-printed endoprostheses, it is part of the production chain for the high technology market," added **Denis Kovalevich**, CEO of the TechnoSpark Group of Companies. According to him, the Russian Flexible Electronics Centre will initially function as a contract R&D facility focusing on the widest range of possible applications for its products and working with foreign customers. Later, the Centre will specialize on more uncommon applications.

***The TechnoSpark Group of Companies**, a part of the investment network of the Fund for Infrastructure and Educational Programs, is involved in all aspects of venture creation: from establishing a start-up to its sale. The TechnoSpark Group of Companies is in the hardware industry, working in areas, such as robotics in logistics, energy storage systems, hi-tech medical equipment, diamond optics, braided composites, optical and industrial surfaces, genomics, industrial microbiology, thin-film integrated photovoltaics, additive technologies and flexible electronics. The Group of Companies is in first place according to the National rating of Russia's most effective technology parks and was included in the National Rating of Russian Fast-growing Technology Companies, TechUp 2019. It is also a part of the community of startup studios, the Global Startup Studio Network (GSSN).*

More information can be found at technospark.ru/en/

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***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.

More information can be found at en.rusnano.com

Contact details: *10A, Prospect 60-letia Oktyabrya, Moscow, 117036 Tel.: +7 (495) 988-5677, Fax: +7 (495) 988-5399, e-mail: press@rusnano.com.*