

10/12/2017**PROFOTECH and Maxwell Work with Swiss Precision**

In Villarepos (Switzerland), for the first time in Europe, a Groupe-E substation was installed and connected to a combined optical current and voltage transformer co-manufactured by the RUSNANO portfolio company PROFOTECH and the Swiss company Maxwell. This innovative solution is a joint development in the framework of the implementation of the strategic cooperation agreement signed in early 2017. The implementation of this project is another step for JSC PROFOTECH in the development of its international activities.

Combined optoelectronic current and voltage transformers are a unique product unparalleled in the whole world. They combine all the advantages of two electronic transformers in one. Their reduced size and weight compared to conventional electromagnetic transformers means that combined transformers can be installed in small substations where there is limited space.

The set of installed equipment consists of three measuring columns and two electronic-optical control units connected by a special optical cable. The task of the project is to demonstrate the new technical capabilities of digital optical measuring equipment. During the test operation period, the equipment will work in conjunction with the previously installed analogue current and voltage transformers.

Application of the combined solution saves space on the substation, reduces construction and installation work, reduces operating costs (high-voltage part does not require maintenance). An important feature of this solution is the improvement of personnel safety when working in secondary circuits. Operational personnel of the substation notes that the smaller weight and dimensions allowed the Swiss power engineers to modernize without performing concrete and foundation works.

Due to the reduced number of mounted elements (current and voltage transformers are combined in the same construction), careful preparation and exact observance of all installation dimensions, specialists of PROFOTECH, Maxwell and Groupe-E managed to perform the installation several times faster than usual.

By introducing optical technologies developed by PROFOTECH and Maxwell, Groupe-E lays the foundation for the transition to digital intellectual energy, which is an important part of the digital economy.

About RUSNANO

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 87 factories and R&D Centers opened in 32 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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