

ASSOCIATED PARTNERS



Gazprom - a global energy&fuel company. Basic activities - geological prospecting, mining, transportation, storage, refining and trading of natural gas as a motor fuel, electric power and heat production and supply



Russian Grids - the operator of power grids in Russia, one of the biggest grid companies all over the world. The company owns more than 2,35 mns. kilometers of power transmission lines, 507 thousands of substations with total power transformer capacity of more than 792 thousands MVA

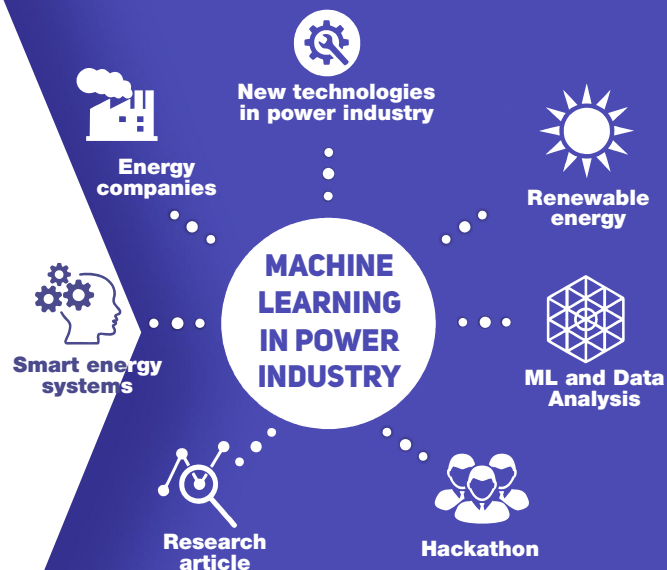


Group "SVEL" - one of the leading producers of electrotechnical equipment in Russia. The company produces high-voltage power transformers, factory-assembled switchgears and transformer substations and owns the high-voltage testing laboratory



Prosoft systems - a company, standing for the development, supply and turn-key implementation of high-technology automatization systems for power industry, oil and fuel companies, metallurgy and other industries

Team of project leaders is a team, composed of highly-qualified engineering staff with more than 15 years of practical experience in power industry. All the lecturers hold PhD degree and are engaged in scientific activities in the sphere of smart energy systems, application of machine learning and renewable energy development.



-  Partners - large-scale industry enterprises, providing support of the projects
-  Hackathon - Data Science competition in the sphere of Power & Energy
-  Solving real-story cases of power industry using data analytics and machine learning approaches
-  Learning new energy production, transmission and storage technologies
-  Problem solution for the renewable and distributed energy sources
-  learning smart energy systems and their operation in global digitalization of the industry
-  scientific paper publishing in co-authorship with the project leaders after project completion

The course was developed within the framework of Erasmus+ (Establishing Smart Energy System Curriculum at Russian and Vietnamese Universities (ESSENCE) project and supported by the European Union, Key Action 2, Capacity Building in Higher Education.



Establishing Smart Energy System Curriculum at Russian and Vietnamese Universities



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PROJECT GOALS AND OBJECTIVES

- Acquiring of new knowledge, practical experience along with mastering the forefront technologies in the sphere of power industry and mathematics
- Establishing business contacts between the students and industrial partners - leading energy and fuel companies of Russia
- Getting experience in multi-disciplinary project work
- Dealing with real-story challenges, that high-technological companies in the sphere of energy and fuel are currently facing
- Publishing the project results in peer-reviewed scientific transactions.



The project is implemented on the basis of Ural Power Engineering Institute of UrFU (UralPEI). The global mission of UralPEI is providing the innovative development of energy and fuel complex of the country with highly qualified intelligent staff of new generation as well as creation of novel scientific and educational products