SAJTÓKÖZLEMÉNY

Budapest, December 7, 2021

PROJECT KICK-OFF PRESS RELEASE

ALTEO Energiaszolgáltató Nyilvánosan Működő Részvénytársaság and the Alfréd Rényi Institute of Mathematics have submitted a grant application as a consortium in response to tender notice code number 2020-1.1.2-PIACI KFI, titled "Support for Market-driven Research/Development and Innovation Projects", which was announced by the Hungarian National Research, Development and Innovation Office. The Ministry of Innovation and Technology has found the grant application titled "Development of a Real-time Autonomous Power Engineering Information and Generation Management System", ID 2020-1.1.2-PIACI-KFI-2021-00229, worthy of support. The amount of non-reimbursable aid comes to HUF 401,021,730 out of the nearly HUF 1 billion total cost of the project.

The energy industry has undergone significant changes over the last decade. The main drivers in that regard include growing climate awareness, the importance of the security of energy supply, and the pervasive development of information technology across industries (facilitating the real-time interconnection of technologies, systems and market participants). The world of power generation is gradually shifting from traditional, centralized, large-scale energy production systems towards decentralized generation and distribution. The world's energy mix shows an increasing share of renewable energy source-based, largely weather-dependent power plants (typically wind farms and solar power plants). The characteristics of weather-dependent operation (uncertain generation, limited controllability, etc.) pose a serious challenge for TSOs responsible for maintaining the balance between generation and consumption in the electricity system at any given time, and for the stability of the system.

All of the above have led to an increasing demand for solutions that can be integrated into existing systems that are enabled for optimized operation, with an eye to correcting generation/consumption imbalances stemming from forecasting inaccuracies. To address the above challenges, ALTEO is developing a **highly automated, artificial intelligence-based energy engineering IT system capable of making autonomous generation and commercial decisions to manage and optimizing "smart" electricity generation in power plants**, with professional support from the internationally acclaimed Alfréd Rényi Institute of Mathematics. The system also includes an electrical boiler, to be newly installed, which in addition to providing the option of converting electricity generated from renewable sources to heat, will provide a higher level of flexibility for ALTEO's Control Center through its rapid load switching capability.

In ALTEO's life, this project perfectly fits into the company's long-standing and consistent ambition to make its Control Center one of the leading players in the Hungarian balancing energy and capacity market.

The successful implementation of the project can contribute to accelerating the trend as a result of which renewables-based power plants become widespread, thereby improving the stability of the electricity system, increasing the security of supply and, through all of that, supporting the creation of a climate-neutral economy.

Further information:

NEMZETI KUTATÁSI, FEJLESZTÉSI ÉS INNOVÁCIÓS HIVATAL

AZ NKFI ALAPBÓL MEGVALÓSULÓ PROJEKT

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