

Press Release
Valencia (Spain), 5 October 2022

Launched R2D2 project to improve the security and resilience of the EU grid

On 1st October 2022, the new project R2D2 on Reliability, Resilience and Defense technology for the grid, funded by the Horizon Europe Programme with €9.7 million and set for 3 years, was launched. As part of a consortium of 17 partners in 9 countries throughout Europe working on the project, HEDNO S.A. will be the Greek demo site leader.

R2D2 aims at improving the resilience and reliability of current Electrical Power and Energy Systems (EPES) against a growing number of threats and vulnerabilities that may affect such critical infrastructure, exposing weaknesses with harmful and damaging effects on different stakeholders and final customers.

This will be done through the deployment of four tools dedicated to the prevention, protection and restoration of EPES in two different independent but complementary scenarios in the energy value-chain – from regional coordination between TSOs, to privacy of LV customers. The project will build on top of strong energy coordination actions in South-East Europe (SEE), following EU legislation and in alignment with the recent activities promoted by ENTSO-E about cyber-security in transmission systems.

Through the demonstration and integration of the innovative solutions proposed by R2D2, it will be possible to achieve a more secure, reliable and resilient energy system in Europe, making a positive and tangible impact throughout the European EPES value chain. In this context, R2D2 will deliver a palette of complementary solutions synthesised into four Products: “Multi-risk assessment framework for power system”, “Resilience suite for TSO & DSO” , “Prevention Systems For Energy Infrastructures Security” and “Enhanced Assets Maintenance And Management Toolkit”.

R2D2 results will be tested and validated in 4 large-scale complementary demonstrators in Greece, Serbia, Spain, and Slovenia involving representative and complete value chains, a wide variety of energy sources, networks, systems and assets, and spanning heterogeneous climatic, geographic and socioeconomic conditions which will facilitate replicability, scale-up and eventual market launch.

Thanks to a smart, efficient end-to-end monitoring and control of power networks as the R2D2 tools do, EPES benefit from an overall system costs reduction coming from reduced system power losses (technical and nontechnical), lower number and duration of outages or lower investment in disaster recovery.

About HEDNO

HEDNO S.A. (Hellenic Electricity Distribution Network Operator S.A.) is the DSO in Greece, responsible for the operation, maintenance and development of the interconnected power distribution network in Greece and the electricity systems of the non-interconnected islands, as well as the assurance of a transparent and impartial access of consumers and of all network users in general. HEDNO aims at providing reliable power supply to its Customers, quality of electricity voltage and constant improvement of quality in services. HEDNO's mission and vision is the response to Customers' expectations and the contribution to the development and welfare of fellow citizens with respect to people and to the environment.

In R2D2 Project, HEDNO is the Greek demo site leader and end-user of the 4 developed products. Through R2D2, HEDNO will address its needs for enhanced substations' physical security, new efficient and predictive approaches on asset management for the decrease of costs, interruptions or technical losses, while the reliability of the local distribution network will be enforced. Mainly, HEDNO will focus on exploiting the Project's Products for the mitigation of the impact of extreme weather events, as well as the improvement of cyber security measures.

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