Press Release

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SmartSPSS: New UCY Project takes on a first-of-its-kind solution to address PV integration challenges

The University of Cyprus-led "SmartSPSS" project will span 9 months and dedicatedly work towards developing a smart real-time monitoring, management, and control solution for enhanced performance of Solar-Plus-Storage Systems.

The Kick-off Meeting for project "SmartSPSS", an acronym for "Smart real-time monitoring, management and control solution for enhanced performance of Solar-Plus-Storage Systems", took place on 19 June 2024 at the University of Cyprus, with its PV Technology Laboratory serving as the coordinator of the project. The project secured funding of €39.200, in the context of the Call for Proposals "Proof of Concept for Technology/Knowhow Applications" Programme of the Research and Innovation Foundation for preliminary investigation of possible industrial applications of technologies.

Project “SmartSPSS” aims to enhance the operational performance and enable the integration of photovoltaic (PV) generators at high shares, by addressing issues associated with their observability, technological reliability, and intermittent weather-dependent operation. For this purpose, it will focus on developing a next-generation visibility, management, and control solution for PV and storage systems that will comprise Artificial Intelligence (AI) operational state tools.

Indeed, the long-term vision of this project is to create an advanced cloud-based smart visibility, management, and control solution, that will act as a first-of-its-kind solution to offer reduced risk for PV plant owners and to address PV integration challenges. It should be noted that there is currently no complete and centralised PV-battery prognostic management and control solution available in the market to operate on real-time data and respond with the proposed operational state analytics and ancillary services.

Moreover, the official outcomes of the project are expected to have a direct impact on the energy Research and Innovation (R&I) landscape in Cyprus, while contributing to the climate-neutral ambitions of Cyprus for a clean and secure energy supply and a cleaner environment, in alignment with UN Sustainable Development Goal 7. This connects and contributes to the Smart Specialization strategy for Cyprus (S3Cy) in the Energy Sector, such as renewable energy sources, with a focus on PV and energy storage systems, all contributing towards the Green Energy Transition.

The official launch date of the project was 1 June 2024, with the “SmartSPSS” project scheduled to run for 9 months.

For more information, you may contact the Project Coordinator, Professor George E. Georghiou, at +357 22 892272 or at georghiou.george@ucy.ac.cy.

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End of announcement