Energy storage for electric vehicles northern cyprus

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The University of Cyprus has launched a new project in partnership with Cyprus Public Transport towards developing a next-generation energy management solution for renewable-powered and battery-integrated electric vehicle charging stations.

This is a new strategic bilateral collaboration between the University of Cyprus and Cyprus Public Transport, aiming to develop an advanced energy management solution for electric vehicle charging stations with photovoltaic systems and integrated batteries.

The project entitled “Advanced Energy Management System using Artificial Intelligence for Electric Vehicle Charging Stations with Photovoltaic Systems and Embedded Batteries” and acronym “EMS4PVBEV”, is a new bilateral strategic collaboration between the Photovoltaic Technology Laboratory of the University of Cyprus (PC) and the company “Cyprus Public Transport” (CPT), which combines the scientific expertise of the University of Cyprus and the business expertise of Cyprus Public Transport.

In line with the European Green Deal for Renewable Energy Supply (RES) and to accelerate the shift towards smart and sustainable mobility, the project will develop through the project an intelligent energy demand management solution for electric vehicle charging stations with photovoltaic (PV) systems and embedded batteries.

During the kick-off meeting, the Project Coordinator, Mr. Andreas Demetriades, Director of Technology and Innovation of CPT, invited to present the project, gave special emphasis on its main objectives, which focus on (a) enhancing the competitiveness of Cypriot companies in the field of Energy Storage and Energy Management Systems (EMS), (b) creating a collaborative ecosystem between Cypriot companies in the sector, and (c) enhancing knowledge transfer within the Cypriot ecosystem.

In this context, it is expected that the final results of the project will be vital in relation to the island’s ambitious targets, as set out in the National Energy and Climate Plan, to increase the share of RES in energy consumption by 2030 – with the share expected to reach 23% in gross final energy consumption and 14% in the transport sector.

The kick-off meeting was attended by human resources in key positions from both organisations, who will contribute to research and innovation activities, as well as project management, dissemination of results, demonstration of the proposed final solution and development of business models. The meeting was also attended by the Scientific Officer of the project from the Cyprus Research and Innovation Foundation, Mr. Marinos Fotiadis.

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The EMS4PVBEV project is funded by the EU Recovery and Resilience Mechanism of the EU’s NextGenerationEU instrument, through the Cyprus Research and Innovation Foundation (ENTERPRISE/ENERGY/1123/0011).

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