Gravity energy storage northern cyprus

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(1/3) Gravitricity will bring specialist expertise in gravity energy storage systems, grid compliance and control systems. Image GravitricityRelated News.Top News,Cyprus

German storage firm Autarsys has delivered and commissioned Cyprus"s first community 75kWh energy storage system, the company announced on February 27, as the country investigates how to scale up grid-connected renewable energy on the island.

The Berlin-based company, which has kW to MW-scale systems for on and off grid applications, designed and implemented a substation in Nicosia that is connected to homes with rooftop PV systems of 3kWp.

The project is in partnership with site and project coordinator Aerotricity, a Cypriot renewable energy firm, and FOSS Research Centre for Sustainable Energy from the University of Cyprus.

The programme will investigate ways to address technical and grid-related issues associated with the integration of PV and storage, and find solutions to market barriers by minimizing tariffs or utility costs.

The project"s participants also include the Cyprus Energy Regulatory Authority, the Ministry of Energy, Commerce, Industry and Tourism, and the Electricity Authority of Cyprus.

Christos Konomis, managing director of Aerotricity, said "With Cyprus being a European country, but also a remote island in the east of the Mediterranean with an isolated grid, make it possible for further penetration of renewables in the market. This would not have been possible without successful ESS applications.

"We strongly believe this is only the beginning and a proof of a viable way ahead, taking into account the EU directives on the promotion of the use of energy from renewable sources."

Ioannis Papageorgiou, network engineer at EAC, said: "We are moving towards the new, smart grids-era, where the current centric-oriented paradigm is shifting to a distributed cellular-oriented grid with abundant renewable energy in-feed at distribution level. Storage systems are vital in effectively balancing supply and demand in such a diverse environment.

"The failure to effectively integrate storage into the grid will impose numerous challenges on system operators. Optimization of storage capacity, functionalities and location is key to tackling the upcoming challenges."

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