



‘TILOS,

Τεχνολογική Καινοτομία για τη Βέλτιστη Ενσωμάτωση Συσσωρευτών Αποθήκευσης Ενέργειας σε Επίπεδο Τοπικής σε Επίπεδο Τοπικής Κλίμακα

Technology Innovation for the Local Scale, Optimum Integration of Battery Energy Storage

TILOS project is an innovative European project that aims to provide energy autonomy to the island of Tilos by developing and operating the first smart electricity microgrid and the first, renewable energy sources (RES) and energy storage-based hybrid power station in an island of the Mediterranean Sea.

The hybrid power station that uses RES exclusively, comprises of an 800kW wind turbine, an 180kW photovoltaic park and an advanced battery storage system of 2.88MWh/800kW. Additionally, with the use of smart metering and demand side management devices, installed in almost every residence on the island, the local consumers of Tilos are actively involved in the operation of the smart

microgrid, contributing to the maximum exploitation of the local RES production and to the avoidance of oil imports.

TILOS project, supported by a total of 13 partners from 7 different European countries and led by University of West Attica (former Piraeus University of Applied Sciences), ranked first among 80 competitive proposals under the Horizon 2020 funding program of the European Union. It also represented Greece in the historic Paris climate change Conference – COP21, introducing a new energy paradigm that enables energy security and sustainable development for island regions, with respect for the environment and the local societies.



Project TILOS · Horizon 2020

- Low Carbon Energy
- LCE-08-2014: Local / small-scale storage

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