

Espay Solar Energy S.L.

The second microgrid in Greece



Overview

The system in Gaidouromantra, Kythnos is a 1-phase Microgrid composed of the overhead power lines and a communication cable running in parallel. It is electrifying 12 houses in a small valley in Kythnos, an island in the cluster of Cyclades situated in the middle of the Aegean Sea. The Kythnos Smart Island project, funded by Siemens, has been an example of sector coupling in Greece, proving innovation and sustainability are compatible. Credit: Clean Energy of the EU Islands / European Commission - CC BY 4. The total length of Network 228. 950 MV/LV Substations and 224 HV/MV Substations.

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The Kythnos Microgrid: A 20-Year History

The noninterconnected island of Kythnos (100 km² with 1,600 inhabitants) belongs to the complex of the Western Cyclades islands in Greece and is located in the Aegean Sea, 104 km from ...

Kythnos Island's Microgrid: A Blueprint for Sustainable Energy

The Kythnos microgrid in Greece--operational since 2001--now powers 90% of the island's needs through renewables. But how did this 100 sq km island become Europe's longest-running renewable ...



Kythnos Microgrid , Microgrid Projects

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Kythnos Microgrid

It is a small village scale autonomous microgrid, composed of a 3-phase low-voltage network, solar PV generation, battery storage, and a backup generator. The grid is composed of overhead power lines ...



Kythnos , Rural Electrification Research Group

The pilot Microgrid electrifies and isolated settlement of 12 houses in a small valley of Kythnos, an island in the Aegean Sea, Greece. The generation system comprises of 10 kW of solar panels, a battery ...

"Kythnos Smart Island" project , DAFNI , Network of Sustainable ...

Energy & Smart Grids: Acceleration of the clean energy transition through multiple applications, such as demand side management, integration of storage in the distribution network, research on a local ...



Kythnos Island Community Microgrid Project

As is typical of islands in general, Kythnos is cut off from the national grid



on mainland Greece. It has its own island grid, but this does not, however, have the capacity to electrify all settlements on the island.

How Kythnos Is Becoming Greece's Smart Island

The Kythnos Smart Island project renewed and upgraded an off-grid microgrid energy system at Gaidouromantra in the southern part of the island. To do so, the conglomerate installed ...



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