

Italy microgrid applications

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Saft, a subsidiary of TotalEnergies, has installed seven maintenance-free Flex^{ion} lithium-ion battery systems supporting a microgrid with solar plants on the Italian island of Favignana (Sicily). These systems are expected to be fully operational by end 2022.

On the remote island of Ustica, Saft Flex^{ion} batteries will support a microgrid powered by hydroelectric and solar plants, as well as diesel generation. The batteries will be connected to the distribution network and integrated into a smart grid in the next few months.

These are the first milestones of the "I-Sole project", involving local utilities as well as scientific expertise from the University of Palermo and the Italian National Research Council. The project is supported financially by the European Union and the Region of Sicily, under the technical lead of Layer Electronics, a local power electronics company.

The I-Sole project aims to develop innovative technical solutions for the monitoring and control of the generation and distribution of electricity, to increase the use of renewable sources and storage systems on small Sicilian islands while supporting the security of power supply. Flex^{ion}, with its embedded remote monitoring capabilities, is an asset for the goals of the grid operators.

Saft Flex^{ion} batteries solve these challenges by providing a standard, safe, maintenance-free and modular solution. We are very proud to be part of the I-Sole project which demonstrates again the key role of Saft for low-carbon island microgrids".

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