

Aitutaki Island

CUSTOMER	The government of Cook Islands
LOCATION	Aitutaki, Cook Islands
ENERGY STORAGE SYSTEM	QMedium 500 kW / 502 kWh
APPLICATIONS	Increasing renewable energy and spinning reserve
COMMISSIONED	2019



OPPORTUNITY

The government of the Cook Islands extended the energy system of Aitutaki with a solar energy plant for 750 kWp and implemented diesel generators (300 kW) to achieve greater energy security. To improve the performance of both systems while integrating the energy sources and reducing fuel consumption, the government of Cook Islands needed to implement energy storage.

SOLUTION

Qinous installed a QMedium Energy storage system of 500 kW / 502 kWh. The system was delivered completely pre-installed and factory tested including the Qinous Micro-grid Energy Management System (MEMS).

RESULTS

The Qinous Energy Storage System is used to shift the solar peaks to the evenings and provide spinning reserve. The MEMS controls the battery, the PV plant, and the diesel generators for optimal operation.

