

## ContainerPower Energy Solutions

# BESS energy storage power station in the Cook Islands



## Overview

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A battery energy storage system (BESS) installed at the Te Mana Ra Solar PV facility, on the island of Rarotonga and connected to the electricity grid. The BESS provides increased flexibility for the electricity utility Te Aponga Uira (TAU) to manage the output of increasing capacity of renewable.

The company said all of Rarotonga's 11,000 residents receive power from the micro-grid operated by utility Te Aponga Uira and the 4.2 MWh energy storage system – in three 40-foot containers Infratec general manager Nick Bibby said that the storage system is "the first of its scale to be built in.

Mpower will design and install a 5.6 MWh Battery Energy Storage System (BESS) at the 1 MW Te Mana Ra Solar PV facility connected to the Pacific nation's electricity grid. The Cook Islands in the Pacific will host a 5.6MWh lithium-ion battery energy storage system for the integration of renewables.

The first load-shifting BESS was initiated because grid stability limits were preventing increased private sector take-up of solar PV. A load-shifting BESS was selected as the utility was not yet prepared for a grid stability BESS, and because at the time, grid stability BESS were highly complex to.

Of the 11 ASEAN members, Singapore is taking the lead in the battery energy storage systems (BESS) space. Earlier this year, the city-state launched the region's largest battery energy storage system (BESS). Construction of the 285MWh giant container-like battery system was built in just six.

LOT 1: "Power station" battery energy storage system (BESS) for grid stability support (i) A BESS to be installed at the Rarotonga . CIREC Cook Islands Renewable Energy Chart CSO Civil Society Organisations FRDP Framework for Resilient Development in the Pacific GCF Green Climate Fund GEF Global.

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