

## A-Core Container

# What are the energy storage systems of Niue Power Station



## Overview

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How did New Zealand support Niue's battery energy storage system?

In addition to Australia's support, the New Zealand Government contributed \$2.5 million to relocate and restore Niue's Battery Energy Storage System (BESS). This funding has allowed the Ministry to repair the grid control system, procure necessary fuel tanks, and install cabling and connections.

How is Niuean PowerSmart generating electricity?

Working with Ministry of Foreign Affairs and Trade (MFAT) and the Niuean Government, Vector PowerSmart designed and built a sustainable generation plant and energy management system for the island, using new solar and battery technology. The 600kW of solar technology has produced 320,000kWh of electricity in the six months since 1 January 2019.

How does Niue's Solar System work?

Diesel consumption has reduced alongside CO2 emissions. Practically speaking, this means on sunny days the diesel generators of Niue are often switched off for up to 12 hours. The solar system is connected to a 3MWh lithium ion battery energy storage solution (BESS) connected to the grid at Niue's power station.

What does the Minister of infrastructure say about Niue's New Power Station?

The Minister of Infrastructure, Hon. Crossley Tatui extended his appreciation to the Australian and New Zealand Governments, saying, "The construction of this new power station is a vital piece of infrastructure for Niue's development and well-being. This achievement would not have been possible without the support of our regional partners.".

When is Niue's New Power Station launching?

The Ministry of Infrastructure celebrated the so5 launch of Niue's New Power Sta;on on the 7th November 2024. The launch marks a cri;cal milestone in

Niue's journey to strengthen and modernize its energy infrastructure.

Does Niue have a diesel generator?

The small island nation of Niue, like many other countries in the South Pacific, has relied on diesel generators for their electricity for decades. Niue has historically been supplied by four 500kVA diesel generators which distribute the electricity via two networks across the island.

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