



# Niue energy storage power station

Does Niue use solar energy?

Over the last 5 months the total integrated system has resulted in 28.6% of Niue's electricity coming from solar renewable sources, saving over 130,000 litres of diesel. Find out more about Vector Powersmart

When will Niue's New Power Station be online?

On the 18th September 2024, Niue's new power station was brought online. This represents the culmination of years of work from Niue Power Corporation (NPC) staff, local and overseas contractors, and our development partners.

How can vector PowerSmart help Niue?

Vector PowerSmart's newly implemented energy technology will go a long way to helping Niue achieve this goal by increasing the island's use of renewable energy. This project was implemented in partnership with the Government of Niue and MFAT.

A design team of engineers from New Zealand were on the island last week as part of a \$5 million dollar energy project funded by the New Zealand government. Director of Utilities Clinton Chapman said that there is much work to be done in the energy and power generation sector as they work towards meeting the targeted outputs in the current ...

Installing 0.80MW / 3.15MWh Tesla Powerpack 2 (BESS) at the Niue Power Station to maximise the use of solar on the island and eliminate the need to curtail solar to maintain grid stability. Installing Vector PowerSmarts bespoke Energy Management System (EMS) to manage Niue's electricity grid by balancing the new and existing solar generation ...

• Safe lithium battery is used as the main body of energy storage, which has the features of small size, large capacity, light weight, high power and easy to carry. • Intelligent fully automatic dynamic charging and discharging management ...

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.

Storage: 300 kWh Lithium-Ion Titanate Niue is a raised atoll in the South Pacific showcasing one of the world's largest coral islands. This power system provides energy to the administrative sector of Niue as well as a local mine site that utilises a heavy duty rock crusher. Daily load ranges from 400kW to 600kW.

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PowerSmarts ...

Emphasizing the importance of reliable and sustainable energy infrastructure for the island, the Premier commended the dedication and commitment demonstrated by the Niue Power Corporation to maintain essential services while transitioning to a more efficient and modern power generation facility

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The \$2 million dollars power station project is funded by the Australian government as part of their assistance to improving the power supply on the island. The powerhouse is part of the work Australia is doing that is of interest and value to Niue in its efforts to adapt and mitigate climate change.

The solar system is connected to a 3MWh lithium ion battery energy storage solution (BESS) connected to the grid at Niue's power station. Vector PowerSmart's state-of-the-art energy management system controls the flow of electricity from the diesel generators, solar arrays (old and new) and the BESS to maximise Niue's use of renewable ...

Efforts to bring the Northern side of the Island back online could not successfully be done without, again, causing an automatic shutdown of the new generators. Therefore, last night the NPC Team have reverted to the old station to power the whole island.

Today, the Deputy Prime Minister of New Zealand, Rt Hon. Winston Peters is here to break ground on what will become a cornerstone of Niue's renewable energy infrastructure. The new power station, funded through contributions from both Australia and New Zealand, is slated for completion and commissioning by mid-September.

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