



# Niue solar battery scheme

What is Niue's energy roadmap?

Under the new energy roadmap, Niue has set a goal of 80% renewables by 2025. According to Radio New Zealand, while the main focus of Niue's energy transition will be on solar power; the potential of other renewables such as wind power, biomass and wave energy will be investigated.

How much of Niue's diesel fuel is used for power generation?

Approximately 69% of diesel fuel imported into Niue is used for power generation - around 800,000 litres. Under the new energy roadmap, Niue has set a goal of 80% renewables by 2025.

What will New Zealand do with the Niue ocean wide trust?

The project will bring Niue's renewable generation to 80 percent. New Zealand will also commit \$2 million to the Niue Ocean Wide Trust, which aims to develop a blue economy and ensure long-term ocean conservation and climate resilience.

Where is Niue located?

Niue, the largest unpopulated coral atoll in the world, is situated in the South Pacific Ocean, some 2,400 kilometres northeast of New Zealand. Like many island nations, Niue is heavily dependent on diesel fuel for power generation.

Which countries are funding infrastructure in Niue?

New Zealand is the dominant funding partner for infrastructure in Niue, but there are a number of other countries such as Australia and Japan which have funded facilities, he said.

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.

New Zealand plans to invest \$20.5 million into a new, large-scale, renewable energy project in Niue, reducing the island nation's reliance on diesel. The project will bring Niue's renewable generation to 80 percent.

ITP Renewables was engaged in 2016 to develop a Renewable Energy Roadmap for Niue, and are providing ongoing support toward its implementation. The roadmap assessed the state of Niue's existing generation infrastructure and ...

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According to PIFS, the project, which is titled "Design, Manufacture & Installation of Solar Power Grid Connected Generators & Battery Backed Power Stabilizer," anticipates annual savings of NZ\$137,000, as well as an annual ...

The project will install additional solar farms to boost the solar generation capacity and meet those targets. "So the things they were looking at during their mission was focused on looking at additional solar sites which will feed into the grid and also storage capacity for our battery system".

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MFAT is in the "awaiting approval" stage of a Solar PV, Battery Energy Storage System (BESS) and electrical grid upgrade project in Niue. The current scope of the project includes the design, procurement, installation, and commissioning of:

-> In 2014, the total installed solar PV capacity in Niue reached 343 kWp, with 150 kWh battery storage for smoothing purposes of voltage and frequency into the grid. This is equivalent to 14% of the total installed capacity.

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 ...

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Christopher Luxon says a new large-scale, renewable energy project in Niue should be operating by the end of next year. Luxon is in Niue for bilateral talks with Premier Dalton Tagelagi, and to celebrate 50 years of free association between the two countries.

ITP Renewables was engaged in 2016 to develop a Renewable Energy Roadmap for Niue, and are providing ongoing support toward its implementation. The roadmap assessed the state of Niue's existing generation infrastructure and identified key projects for improving power system efficiency, reliability, safety, and sustainability.

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