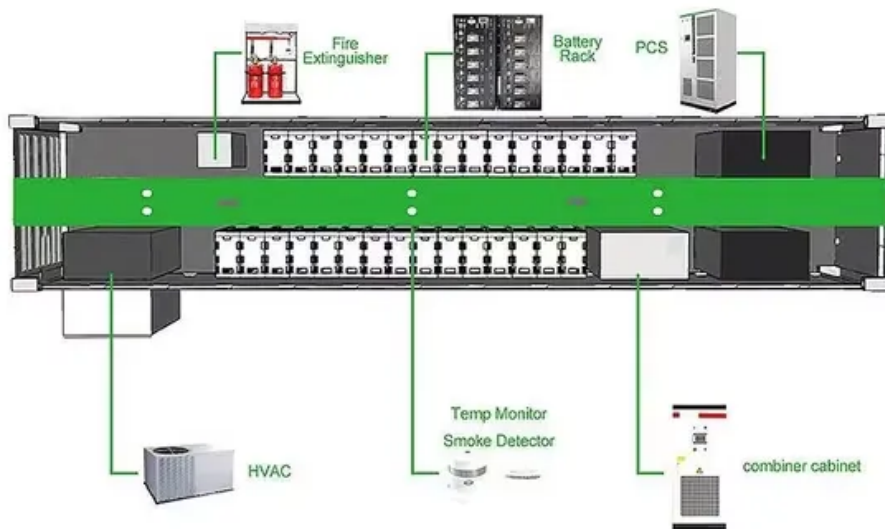


# Tokelau yes energy solutions





## Overview

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Tokelau is made up of three small atolls, Atafu, Nukunonu and Fakaofu, has an area of around 10km<sup>2</sup> and is populated by 1,411 New Zealand citizens, all of whom now have their energy needs met by solar electricity systems. Work started in mid-June 2012 on the one megawatt Tokelau Renewable Energy Project, which is.

But it hasn't been an easy task. Tokelau is an extremely remote nation - the closest atoll is around 500km north of Samoa, there are no airstrips or wharves and the only access is a long boat.

This issue is by no means restricted to Tokelau, with the majority of Pacific island nations highly dependent on imported fossil fuels to meet their.

The US and EU are on the brink of a full-on trade war with China over the alleged 'dumping' of cheap solar panels.

Records are being broken almost monthly in the concentrated photovoltaic (CPV) solar power market, but at the same time manufacturing plants are being shut down and big players are.



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### Pacific Islands heading for 100% renewable energy

A host of Pacific nations are turning to renewable technologies to satisfy 100% of their energy, writes Maxine Newlands. Samoa is aiming to achieve 100% renewable energy by 2017, while Tokelau has already reached ...

### YES Energy Solutions

Halifax-based YES Energy Solutions specializes in the installation of quality, cost-effective residential solar PV arrays, having installed thousands of systems throughout the North of England. As part of an award-winning Community Interest Company (CIC), the organization is dedicated to lowering CO2 emissions and fuel poverty in the UK.



### Tokelau's Approach to Renewable Energy

The Tokelau Renewable Energy Project (TREP) is an initiative that transitioned Tokelau from using diesel generators to 100% solar power. This project was funded by New Zealand and the United Nations Development Programme.

### Home , YES Energy Solutions

Our free YES Advice Line is accessible to everyone! Whether you have questions about energy-saving tips; help with understanding your energy bills; guidance on making your home



more energy-efficient; our experts are here to provide you with the information you need to save money and help protect the environment. Call our friendly team on



### **Tokelau - 100% Renewable Energy Atlas**

Target: 100% renewable energy; Status: Achieved; RES: 1MW off-grid solar energy system across three main atolls of Tokelau. The project includes : 4032 solar modules, 196 string inverters, 112 DC charge ...

### **Tokelau reaches solar power goal , Beehive.govt.nz**

Foreign Affairs Minister Murray McCully today welcomed the completion of a third New Zealand-funded solar power system in Tokelau - meaning almost 100 per cent of the territory's electricity needs are met through solar generation.



### **Tokelau - the world's first solar power sufficient nation**

Tokelau, an island nation in the South Pacific, is now completely able to support itself with solar energy. Elly Earls met Joseph Mayhew of the New Zealand Aid Programme to find out how this tiny collection of atolls has become almost ...



## Tokelau - 100% Renewable Energy Atlas

Target: 100% renewable energy; Status: Achieved; RES: 1MW off-grid solar energy system across three main atolls of Tokelau. The project includes : 4032 solar modules, 196 string inverters, 112 DC charge controllers, 84 battery inverters and 1344 batteries in 48V banks. The system allows for up to 2 days of energy without any solar input.



### Zoom

Tokelau is the first country in the world to produce all its electricity needs from renewable energy. This small Pacific nation with three atolls and 1160 people has switched off its noisy, polluting diesel generators and is ...

### Zoom

Tokelau is the first country in the world to produce all its electricity needs from renewable energy. This small Pacific nation with three atolls and 1160 people has switched off its noisy, polluting diesel generators and is now totally powered by the sun.

### 12.8V 100Ah



### Pacific Islands heading for 100% renewable energy

A host of Pacific nations are turning to renewable technologies to satisfy 100% of their energy, writes Maxine Newlands. Samoa is aiming to achieve 100% renewable energy by 2017, while Tokelau has already reached 94% including 100% of its electricity.



## Solar Project

Solar Array's seen on the three tiny islands of Tokelau to completely produce solar power energy. The renewable energy system comprising of solar panels, storage batteries and generators running on biofuel derived from coconut will generate enough electricity to meet 150% of the islands' power demand.



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