



Ecoenergy solutions Tokelau

Can Tokelau support itself with solar energy?

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 100% self-sufficient in less than 12 months.

Why is electricity so expensive in Tokelau?

Before the PowerSmart systems were installed on the nation's three atolls, Tokelau was highly dependent on imported fossil fuels to meet its energy needs and therefore vulnerable to international price fluctuations and increasing fuel costs, making electricity extremely expensive for both households and businesses.

What are the characteristics of solar installation in Tokelau?

Solar installation characteristics Source: Provided through communication by Government of Tokelau (2012). Where Ah is Ampere-hour; V is volts. 48 V 6 400 Ah (or larger) battery at C20 discharge rate (Figure 4). Thus each cluster represents 33 kWp of solar.

How do solar panels work in Tokelau?

All three islands have solar installations based on a cluster design, with multiple clusters connected in parallel to reach the required capacity (Table 2). In the case of Tokelau, the three-phase cluster design incorporates a combination of alternating current (AC) and direct current (DC) bus charging.

How much does a diesel generator cost in Tokelau?

Indeed, until recently, diesel generators were burning around 200 litres of fuel daily on each atoll, meaning more than 2,000 barrels of diesel were used to generate electricity in Tokelau each year, costing more than \$1m NZD.

Does Tokelau still use diesel?

Tokelau was said to be the first country in the world to have gone 100% solar, in 2013. Diesel usage, previously needed for power generators, is said to have dropped by 90 percent. Some power generation using diesel remains necessary as backup and in prolonged cloudy spells.

With our new solar division at Eco-Energy, we were able to meet the challenge and are now able to help our customers do the same," said Brandon Travis, Vice President, Solar at Eco-Energy. For more information, please contact Sarah Filus, Manager of Carbon Solutions, 615-487-8639, SarahF@Eco-Energy . ABOUT ECO-ENERGY, INC.

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 ...



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Each of the three atolls now has a significant solar panel array that caters for almost all local electric power requirements. Tokelau was said to be the first country in the world to have gone ...

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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.

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Tokelau's success story serves as an inspiration for other small island nations aiming to reduce their carbon footprint and embrace sustainable energy solutions. Key Takeaways. Tokelau achieved 100% solar power, eliminating its reliance ...

Tokelau renewable energy project case study. This case study provides a technical description of the three PV systems, as well as a cost breakdown of the Tokelau project.

Eco Energy Ltd installs Solar Panels, Air Source Heat Pumps, Battery Storage, and renewable energy technology across Scotland and the north of England. We have installed thousands of domestic and commercial systems and are trusted experts when it comes to all aspects of solar, from inverter upgrades to get



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