



Tokelau pioneer energy solutions

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.

Does Tokelau have access to non-New Zealand capital funding?

Currently Tokelau has limited access to non-New Zealand capital funding. To assist addressing the energy sector issues in year 2004 the first ever Tokelau National Energy Policy and Strategic Action Planning (NEPSAP) was developed and approved after extensive preparation and consultations.

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.

What is Tokelau's energy policy?

The primary focus of the policy is the desire of Tokelau to become self-reliant in energy through a combination of renewable energy and energy efficiency measures.

How much money does Tokelau spend importing fuels a year?

Tokelau spends about \$829,000 every year to import fuels. The government of Tokelau now plans to spend these savings on other essential services like health and education. The savings will also be used to repay the grants and financial assistance the government received from New Zealand government for this project.

Pioneer Energy Renewables operates 20 different energy schemes across Aotearoa New Zealand. Learn more
With deep roots in Central Otago, Pioneer Energy Renewables develops and manages renewable energy solutions across Aotearoa. Part of the wider Pioneer Energy Group, Pioneer Energy Renewables offers asset management services alongside project ...

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"In construction, flexibility and adaptability are two key factors to a project's success. Working with Pioneer Energy is always a positive experience because of their ability to be flexible based on the needs of the project. Whether Pioneer is providing metering services, products, or installation, they are always a pleasure to work with."

About Pioneer Power Solutions, Inc. Pioneer Power Solutions, Inc. is a leader in the design, manufacture, integration, refurbishment, service and distribution of electric power systems, distributed energy resources, power generation equipment and mobile EV charging solutions for applications in the utility, industrial and commercial markets.

"In 2012, The Tokelau Renewable Energy Project installed solar arrays on each atoll, and Tokelau now already produces over 90% of its electricity from solar energy. The process used by Tokelau to reach the goal of 100% renewable generation is a model for similar efforts in the Pacific Islands region."

The Government of Tokelau sees the PV Project as the first step and therefore trial towards the long-term goal of energy independence based on renewable energy. The project is implemented by the Government of Tokelau and funded jointly by Government of New Zealand, Government of France, UNESCO Apia and UNDP Samoa.

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A decade ago, Tokelau, a group of three atolls in the South Pacific, was hailed as the world's first territory to be powered by solar energy. The islands of Fakaofu, Nukunonu and Atafu, once dependent on diesel to generate electricity, installed solar ...

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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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Pioneer Energy Solutions merges seasoned upstream oil and gas strategies with the innovative drive of energy transition initiatives. With recognized forward-thinking leadership, the consultancy offers a fresh perspective to established energy operators ready to explore sustainable, low-carbon solutions.

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.

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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 ...

Pioneer Energy offers innovative products accompanied by customized services to aid oil & gas producers worldwide in solving their hydrocarbon processing challenges and achieving their emission reduction goals. ... LNG and GTL systems. Pioneer Energy also offers custom engineered solutions tailored to meet the unique needs of both domestic and ...

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. People in Tokelau began talking about a solar-powered future more than a decade ago.



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That's why Sandra Trittin, Stéphane Dufour and Frédéric Gastaldo, established Swiss-based tiko Energy Solutions in 2012 to tackle this challenge by working towards a new energy future. The idea was to combine their knowledge of algorithms, AI, and machine-to-machine systems to create a solution for managing decentralized assets in order to ...

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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 on diesel generators. The Tokelau Renewable Energy Project (TREP) was funded by New Zealand and the United ...

Solar energy harnesses the power of the sun to provide clean, renewable electricity. As a pioneer in the solar energy sector, Pioneer Solar offers off-grid installations tailored to a range of power requirements. From residential solutions to more extensive applications, our packages are designed for efficiency and reliability.

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