



Tokelau is preparing to move into the second phase of its 100 percent renewable energy project. Last year, five years after plans were made by the Ongoing Government, Tokelau became the first country in the world to source all its electricity from solar power.



Tokelau is one of the first places in the world to run almost entirely on renewable energy. Aerial shot of Atafu, Tokelau, 2017. Photo by Andrew Matautia. Te Papa O.047909. In July 2017, I traveled with Paula Faiva (Climate Change Manager) to Tokelau to present the concept of co-collecting climate change.



Tokelau is a leader in renewable energy: The entire nation (combined 12 square kms) is the first 100 percent solar-powered nation in the world. This sustainability effort marked a significant step for small island nations striving for energy independence. 2. A three-atoll nation: Tokelau consists of three small coral atolls: Atafu, Nukunonu



Approximately one-seventh of the world's primary energy is now sourced from renewable technologies. Note that this is based on renewable energy's share in the energy mix. Energy consumption represents the sum of electricity, transport, and heating. We look at the electricity mix later in this article.



The Pacific territory of Tokelau has been named the 2014 EECA Renewable Energy Award winner for its solar efforts. The Energy Efficiency and Conservation Authority is a New Zealand government agency that supports energy efficiency, energy conservation and the use of renewable energy in New Zealand and its Territories. Like many island nations, Tokelau has in ???



Tokelau is a tiny island territory in the Pacific administered by New Zealand. With a maximum altitude of three meters above sea level, Tokelau would be the first victim of rising seas due to global warming. The inhabitants of Tokelau have taken up the cause of clean renewable energy sources such as solar power, hoping that major polluting nations will take notice and ???



In 2020, renewable energy sources made up over 28% of the world's electricity, and that number is rising every year. Around 60% of renewable electricity worldwide comes from hydropower. Here is a great source to learn more about electricity and how it's generated across the globe.



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. "The Tokelau Renewable Energy Project is a world first. Tokelau's three main atolls now have enough solar capacity, on ???



than one type of energy into a grid to increase electricity output efficiency.¹⁴ Islands such as Tumbatu in Zanzibar have a wealth of renewable energy resources, and by utilizing a variety of renewable energy technologies, small islands can develop by satisfying all of their domestic energy needs.¹⁵ Tumbatu Island is the third ??? largest in the



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.



of sustainable development for all SIDS. During the Renewable Energy Forum that took place in Samoa on 30 August 2014, leaders and experts highlighted the importance of renewable energy for supporting the sustainable development of SIDS and highlighted the key areas that need to be addressed in order to advance renewable energy in SIDS.



INDICATOR Renewable Energy DEFINITION
PURPOSE DESIRED OUTCOME Trend in percentage production of energy from renewable sources (Table 27.1). In 2012, Tokelau was the first country in the world to achieve 100% of its electricity generation from solar systems, with 45 kW solar plants on all three atolls, reducing



According to the New Zealand Government, a third solar power system was recently installed in Tokelau, as part of the NZ\$8.5 million Tokelau Renewable Energy Project. This installment brings the territory in line with its goal of being powered solely by renewable energy by the end of 2012, with Toke



Renewable energy comes from unlimited, naturally replenished resources, such as the sun, tides, and wind. Renewable energy can be used for electricity generation, space and water heating and cooling, and transportation. Non-renewable energy, in contrast, comes from finite sources, such as coal, natural gas, and oil.



"As a leader in the field of renewable energy we are committed to supporting the roll-out of renewable energy technology in the New Zealand territory of Tokelau and the wider Pacific. "The Tokelau Renewable Energy Project will see a solar-based mini-grid constructed on each of Tokelau's three main atolls. The first one on Fakaofu Atoll



Tokelau Renewable Energy Project. Tokelau is made up of three small atolls, Atafu, Nukunonu and Fakaofu, has an area of around 10km² and is populated by 1,411 New Zealand citizens, all of whom now have their energy needs met by solar electricity systems.



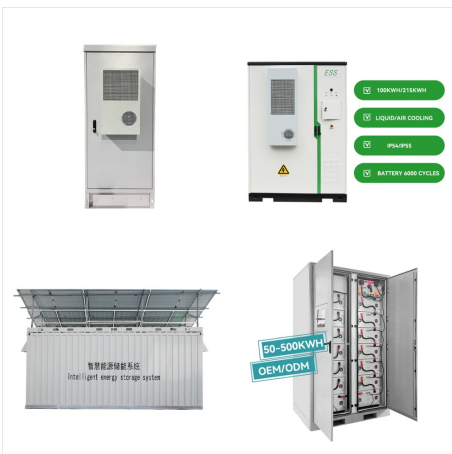
"The Blue Economy Roadmap is crucial for Tokelau's sustainable development, particularly given its reliance on marine resources. Tokelau's small size and remote location make it especially vulnerable to environmental ???



Tokelau has been celebrated as the world's first nation to achieve 100% renewable electricity 9 and almost all other PICTs have similarly ambitious renewable energy targets, with ???



The launching of a new electricity source that will benefit up to 5,000 families on the north-western side of the island of Upolu, is a milestone for Samoa's renewable energy efforts. It is also a significant contribution to the country's climate action commitments. The SAT \$11.3 million Afolau Biomass Gasification Power Plant, is a first of its kind facility to be set up in ???



Switching to renewable energy can not only decrease fuel expenditures for many island populations, but can also show the world what can be done in the face of climate change. Tokelau (population: 1,500) is an island nation in the South Pacific, made up of three atolls whose highest point is only five meters above sea level.



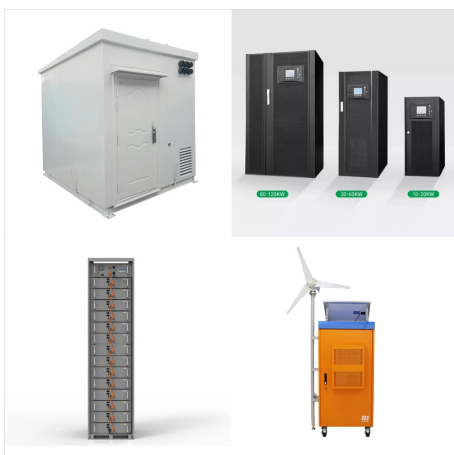
of Antigua & Barbuda, Bahamas, Cabo Verde, Fiji, France, Germany, Jamaica, New Zealand, Samoa, Tokelau, Vanuatu, United Arab Emirates, United States of America, the Asian Development Bank, the Caribbean Development Bank, the Renewable Energy and Energy Efficiency in Buildings and Industry 9 Mauritius Date started: 2008 Date completed: 2014



All Tokelau's villages are now linked up to the solar power grid, edging the country closer to its goal of round the clock 100 percent energy sustainability. Tokelau's director of energy Robin Pene says Matagi in southern Atafu is the final community to be connected to the grid with an 11-thousand volt cable and a small transformer.



Renewable energy is energy derived from natural sources that are replenished at a higher rate than they are consumed. Sunlight and wind, for example, are such sources that are constantly



Apia, Samoa ??? Tokelau is on track to complete its first Blue Economy Roadmap 2025-2030, ports and marinas, renewable energy and marine conservation. Based on this assessment, the taupulega formed a vision across Blue Economy focal components, their goals to be achieved by 2030, and their priority solutions.



Goal 7 Targets. 7.1 By 2030, ensure universal access to affordable, reliable and modern energy services. 7.2 By 2030, increase substantially the share of renewable energy in the global energy mix. 7.3 By 2030, double the global rate of improvement in energy efficiency. 7.A By 2030, enhance international cooperation to facilitate access to clean energy research and ???



Large-scale renewable energy projects are increasingly being rolled out across rural Kenya, with the government playing a frontline role in attracting energy investors through various state-led and state-centric policies and investment incentives such as feed-in-tariffs and power purchase agreements. While these policies are commendable, and are indeed attracting many ???