Solar company profile Tokelau

Can a solar array power Tokelau?

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.

How much electricity does a solar system provide in Tokelau?

Each system alone is among the largest off-grid solar power systems in the world,and together they are capable of providing 150%of current electricity demand in Tokelau,a much higher amount than the 90% that was originally planned for.

Who will install a new solar system in Tokelau?

Jointly funded by the governments of Tokelau and New Zealand,the $NZ9 million ($USD5.7m) system will be installed by New Zealand companyVector PowerSmart. Tokelau's existing solar system was eight years old and in need of upgrading because of increasing demand for electricity and wear and tear from the harsh marine environment,it said.

Will Tokelau's solar energy system be upgraded?

Tokelau's solar energy systemis set to be upgradedon each of its three atolls. Jointly funded by the governments of Tokelau and New Zealand,the $NZ9 million ($USD5.7m) system will be installed by New Zealand company Vector PowerSmart.

Why did Tokelau switch to solar?

Yet despite the challenges involved in installing comprehensive solar systems in such a remote location,switching to solar was absolutely crucial for the tiny collection of islands. "Tokelau's atolls are low-lying and especially susceptible to the adverse effects of climate change," Mayhew stressed.

What will a 210 kilowatt solar system mean for Tokelau?

Vector PowerSmart chief operating officer Colin Daly said the project would mean the people of Tokelau would enjoy "clean,reliable and renewable energy" for years to come. Additional 210 kilowatt solar arrays would be installed on Atafu,Fakaofo and Nukunonu,along with two megawatt hour lithium ion battery storage systems.

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Solar PV: Solar resource potential has been divided into seven classes, each representing a range of annual PV output per unit of capacity (kWh/kWp/yr). The bar chart shows the proportion of a country"s land area in each of these classes and the global distribution of land area across the classes (for comparison).

Tokelau Island is the first island in the world powered by 100% solar energy. With a population of roughly 1,500 people, the island successfully made the switch from fuels to a clean, renewable energy system via solar power.

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Like many Pacific Island countries, it is heavily dependent on fossil fuels, especially diesel. The target was put in place in response to growing affects of climate change, and for its government to replace the use of fossil fuels ...

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