

The two battery storage facilities installed in Tonga are complementary: the aim of the first 5 MWh / 10 MW battery is to improve the electricity grid's stability (regulating the voltage and frequency), while the second 23 MWh / 7 MW battery is designed to transfer the electrical load in order to help the grid supply electricity at peak times ...

Battery Energy Storage Systems are a vital component to reaching Tonga's 50% Renewable Energy target by end of year 2020. Battery Energy storage systems will be able to store renewable energy generated from our existing solar and wind generation sites and distribute it to the people of Tonga when required.

Two further hybrid solar and Battery Energy storage system projects, also part of the Tonga Renewable Energy Project, are close to completion in the outer islands of Vava'u & Neiafu. Both are aimed to be completed by November 2022.

Vava'u will enjoy solar power integration with a new solar and battery energy storage system that was commissioned in Kameli, Neiafu, on 14 March. This is another major milestone towards Tonga achieving its renewable energy target, said Tonga Power Ltd.

The system includes a 350kW solar plant and a 1003kW/1856kWh battery energy storage system, which will enable TPL to integrate renewable energy into its electricity grid and provide reliable power to customers.

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A solar-plus-storage project combining 300kW of PV and a 2MWh battery energy storage system (BESS) has been installed in the Polynesian archipelago nation of Tonga. The project on the island of Vava'u was commissioned by Tonga Power Limited (TPL), the country's sole electric utility, on 14 March.

The new solar farm is expected to begin operations by April 2020. To achieve its goal of 50% renewable energy by 2020 and 70% by 2030, Tonga is also developing wind and biomass generation sources, and will integrate these with multiple units of battery energy storage.

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## Solar battery luminous Tonga

guest of honour at the event.

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