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Palau grid-connected wind power generation system



Overview

At present, there is no wind power generation facility (hereinafter, referred to as "WT") in Palau. For about 2 years from 2013, NREL measured wind conditions at 3 sites on Babeldaob Island. Does Palau have a renewable power system?

The results of the optimisation show that Palau's current power system is dominated by diesel generation, with renewable energy only taking a small share (just 4%). With more deployment, however, the share taken by renewables could potentially increase to more than 92%. This corresponds to the lowest average system LCOE.

What is the optimal power system for Palau?

The optimal system includes the current power system together with additional renewable capacity coupled with battery storage. The results of the optimisation show that Palau's current power system is dominated by diesel generation, with renewable energy only taking a small share (just 4%).

Does Palau have solar power?

Source: PPUC and PEA data (n.d.). Together with a large amount of diesel generation, Palau also has some installed solar PV capacity. Indeed, the country's current renewable energy capacity includes a total of 2.5 MW of utility-scale solar PV systems (see Table 3).

What is the Palau energy roadmap?

The roadmap includes several detailed scenarios based on the data and information provided by the Palau Energy Administration (PEA). The data were used to calibrate the model by first looking at the country's current power system, with this serving as the foundation for the other subsequent scenarios analysed in the study.

Can Palau achieve a fully decarbonised power system?

This report looks in detail at Palau's current power sector and provides a pathway for achieving a fully decarbonised, least-cost power system, with intermediate milestones. The government of Palau has proposed a target of achieving 100% of its electricity generation from renewable energy sources by 2050.

What are the different scenarios based on Palau's current power system?

After the model had been calibrated based on the current power system of Palau, the different scenarios considered in the roadmap were prepared. The study includes the following five scenarios: Optimal system 100% renewables, PV + wind 100% renewables, PV only 100% renewables, with hydrogen 100% renewables, with hydrogen and EVs.

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