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Papua New Guinea wind solar thermal and storage multi-energy complementarity



Overview

The Energy Transition Assessment (ETA) for Papua New Guinea investigates the suitability of conditions for the development and deployment of renewable energy and proposes short and medium-term actions to accelerate energy transition efforts through the promotion of all renewable energy sources including geothermal, ocean and emerging technologies such as green hydrogen and battery storage, in addition to solar, wind, hydro and bioenergy. What is the goal of energy development in PNG?

The goal of energy development in PNG's development strategic plan is to increase access to reliable, affordable, and modern clean energy to over 70 percent of all consumers by 2030 to meet future energy requirements and demands [18].

What is PNG National Energy Policy 2017 - 2027?

In 2017, DPE introduced the PNG National Energy Policy 2017-2027, which aimed to establish an energy entity, NEA, solely responsible for the development and implementation of a National Energy Policy. In April 2021, GoPNG passed the NEA Bill to expedite the development and application of regulations related to all activities in electrification.

Is there wind power in PNG?

A recent study by the International Finance Corporation highlighted the enormous potential for wind power in PNG. There are multiple locations in and around Port Moresby and coastal villages of PNG with wind speeds over 10 meters-per-second.

Is solar power a good investment in PNG?

Solar power is particularly attractive in PNG given that the peak load occurs in the daytime. Wind: A 2019 World Bank-funded wind-mapping study assessed three locations with the highest wind potential: Central Province, Morobe Province, and Western Highlands Province.

Does PNG have geothermal power?

PNG also has geothermal and biomass potential but harnessing these resources has proven to be costly and difficult. Due to its high rainfall, PNG has about 15 GW of hydropower potential, although detailed studies on the full potential are lacking. Grid electricity generation is primarily through oil, gas, and hydropower (Figure 12).

Why is solar radiation important in PNG?

This would help to eliminate energy problems, particularly the 87 percent of PNG's population living in darkness. The use of solar radiation tools plays a very significant role in determining exactly how much energy is radiated from the sun to any receiving surface.

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