

# Port Moresby Solar Island Power System





## Overview

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Is Port Moresby a suitable location for solar energy?

This alternative approach is considered because Port Moresby city is situated in a location that is exposed to a significant amount of solar radiation of about 1976 kWh/m<sup>2</sup> GHI annually. Therefore, this makes Port Moresby a suitable location to utilize this type of renewable energy technology.

Can PNG Power install a solar PV system in Port Moresby?

PNG Power has installed a 150kW rooftop solar PV system at the Mineral Resources Authority (MRA) office in Mining Haus, Konedobu, Port Moresby. This installation was done through PNG Power's two-megawatt rooftop solar PV pilot programme in the Port Moresby grid.

Is Port Moresby a suitable location for PV installation?

This paper presents PV placement for Port Moresby system by using two stages, which are (1) power losses and improving the voltage profile. This alternative approach is considered because Port 1976 kWh/m<sup>2</sup> GHI annually. Therefore, this makes Port Moresby a suitable location to utilize this type of renewable energy technology.

Where is Port Moresby power station located?

The Port Moresby Power Station is located in the Hiri West of Central Province, Papua New Guinea. The PNG Government's Electricity Industry Policy (EIP) of 2011 seeks to bring more private sector investment into the energy industry. In 2018 an Industry Group for Independent Power Producers in Papua New Guinea was established called 'IP3'.



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