

Solomon Islands Off-Grid Solar Containerized Type





Overview

Who owns the mini-grids in the Solomon Islands?

Solomon Power will oversee the construction of the mini grids following a supply and install contract. These mini-grids will be owned, operated and maintained by Solomon Power, rather than community managed, as Solomon Power is better equipped to reliably operate and maintain hybridized systems.

Why is the power supply in the Solomon Islands so volatile?

Currently, most of the power in the Solomon Islands is dependent on diesel generated power which uses imported fuel. This volatile energy supply structure is susceptible to soaring fuel prices, and the people want it to be rectified as soon as possible.

Does Solomon have a solar system?

Solomon has natural conditions suitable for solar power, and they are promoting renewable energy, but the grid-connected photovoltaic power generation system (hereinafter referred to as “grid-connected PV system”) has not been introduced.

Is Solomon (Honiara) a good place to install solar panels?

Solomon (Honiara) has about 1.3 times the amount of solar radiation (horizontal plane) than Japan, so the environment is optimal for PV installation. Using the following calculation method, the amount of power generated annually was calculated based on this solar radiation data.



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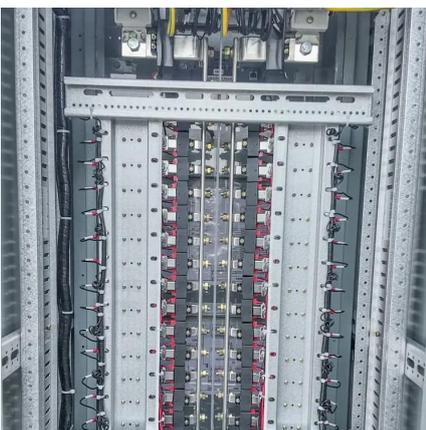


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Solomon Islands solar system components

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Current development issues for the target field2. OUTLINE OF THE PILOT SURVEY FOR DISSEMINATING SME'S TECHNOLOGIESDivision of EnergyJICA JICA MMEREOkinawa Kobori Electric Co., Ltd SIEAOkinawa Enetech Co., Ltd4. FUTURE PROSPECTS Attachment: Outline of the surveyImplemented Activities in the surveyOutputs and Outcomes of the SurveyPromotion of Renewable Energy deployment:The suitable natural conditions for solar power are existed in Solomon, but currently most all power is produced by imported diesel fuel. Revision of expensive electric rates:Since power is produced by imported fuel, electric rates are very expensive. Revision of the vulnerable energy supply structure:It i See more on openjicareport.jica.go.jp/islmedia



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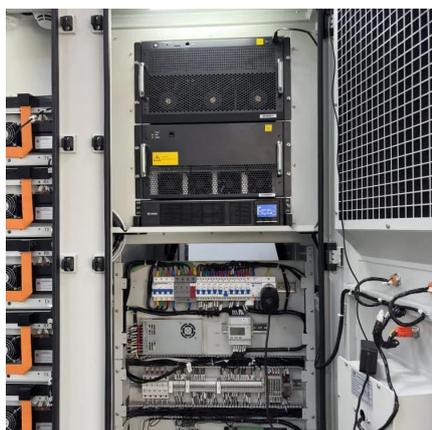


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SOLOMON ISLANDS LEADS OFF GRID RENEWABLE

The inverter is used in photovoltaic systems and solar parks requiring a convert DC voltage of the PV modules into AC suitable characteristics for injection of the electric grid.

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