Early Warning System

ADB-48346-002

Solar Power Development Project

Early Warning System
Solar Power Development Project

ADB-48346-002

Quick Facts

Countries	Solomon Islands
Specific Location	Kirakira, Lata, Malu'u, Munda, and Tulagi
Financial Institutions	Asian Development Bank (ADB)
Status	Active
Bank Risk Rating	B
Voting Date	2016-11-21
Borrower	Government of Solomon Islands
Sectors	Energy
Investment Type(s)	Grant
Investment Amount (USD)	$ 2.24 million
Project Cost (USD)	$ 8.44 million

Project Description

The project will support the development of renewable energy in Solomon Islands to (i) decrease the cost of generating electricity by replacing diesel power generation with cheaper solar power and (ii) reduce greenhouse gas emissions. The project will be financed through an Asian Development Bank (ADB) grant and an externally financed grant that ADB will administer.

The project will increase renewable energy generation in five of the eight Solomon Island provincial grids: Kirakira, Lata, Malu'u, Munda, and Tulagi. The project will help the country replace diesel generation with solar power hybrid grids including battery storage. This will be the first solar power project in Solomon Islands supported by battery storage. Following the project, solar power will generate about 78% of the electricity in the five targeted provincial grids. Project preparatory technical assistance was used in project preparation.

The project will have two outputs:
(i) Five grid-connected solar power plants. The project will construct a total of 2 MW of grid-connected solar power generation at five provincial grids. Solar power capacity will be installed at Kirakira (320 kilowatts [kW]), Lata (290 kW), Malu'u (140 kW), Munda (1,000 kW), and Tulagi (250 kW). The project will include the installation of battery storage, which will allow high penetration rates of intermittent solar power. Battery storage sizing has been optimized and will replace from 66% to 87% of diesel generation at each site.11 The project will include innovative technology in remote monitoring and control of the hybrid systems.

(ii) Capacity building. A training program will be conducted for Solomon Power operators on O&M of small grid-connected solar–diesel hybrid systems.

Investment Description

- Asian Development Bank (ADB)

Strategic Climate Fund US$ 6.20 million

Contact Information

Ministry of Mines, Energy and Rural Electrification
P.O Box G37,
HONIARA, Solomon Islands

ACCOUNTABILITY MECHANISM OF ADB

The Accountability Mechanism is an independent complaint mechanism and fact-finding body for people who believe they are likely to be, or have been, adversely affected by an Asian Development Bank-financed project. If you submit a complaint to the Accountability Mechanism, they may investigate to assess whether the Asian Development Bank is following its own policies and procedures for preventing harm to people or the environment. You can learn more about the Accountability Mechanism and how to file a complaint at: http://www.adb.org/site/accountability-mechanism/main

Bank Documents

- Project Disclosure PDF
- Solar Power Development Project: Initial Environmental Examination [Original Source]
- Solar Power Development Project: Report and Recommendation of the President
- Solar Power Development Project: Resettlement Plan [Original Source]

Other Related Projects

- ADB-48346-001 Solar Power Development Project