



# Pacific Islands Sustainable Energy Industry Development Project



Helping Pacific power utilities incorporate renewable energy technologies and manage energy sector resilience

Providing data and training to power utilities to be able to make decisions about integrating and managing renewable energy technologies.

Supporting strengthened resilience in the energy sector in relation to the impacts of climate change and natural disasters.



**Locations:** Federated States of Micronesia, Fiji, Kiribati, Marshall Islands, Palau, Papua New Guinea, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu.

**Project Approval Date:** 29 September 2015

**Expected Closing Date:** 31 August 2020

**Total Project Cost:** US\$5.66 million

**Donors:** Small Islands Developing States Initiative (SIDS DOCK) grant US\$3.47 million; Scaling Up Renewable Energy Program (SREP) grant US\$1.92 million; Government of Japan under GFDRR grant US\$0.27 million.

**Implementing Agency:** Pacific Power Association (PPA).

**Who Benefits:**

- All power sector utilities in PICs
- All electricity consumers in PICs
- The PPA will benefit from capacity building activities designed to strengthen its role as a key regional agency in the energy sector.

## Background

The World Bank's 10 Pacific island member countries (2.3 million people) and Papua New Guinea (7.3 million people) have some of the lowest rates of access to electricity in the world. Less than half of households in these countries have access to electricity with particularly low rates in PNG (13 percent), the Solomon Islands (19 percent) and Vanuatu (24 percent), which account for 84 percent of the population of all Pacific Island Countries (PICs).

Electricity prices in PICs are also among the highest in the world due largely to a heavy reliance on high-cost diesel-based generation. Increasing energy security and lowering energy usage costs are becoming increasingly important within the region and are leading to increasing investments in renewable energy technologies.

PICs are also some of those most vulnerable to the impacts of climate change and natural disasters. The energy sector can be highly vulnerable to such events, which requires adequate attention to these issues in the design of energy production and distribution infrastructure.

## About the Project

The Sustainable Energy Industry Development Project (SEIDP) aims to increase the data availability and capacity of power utilities in PICs, to enhance their ability to incorporate and manage renewable energy technologies and long-term disaster risk planning.

The project will provide support to the Pacific Power Association (PPA) to assist PIC utilities through a series of activities which will:

- Increase publicly available information on renewable energy resources.
- Increase available planning tools, and provide training to both the PPA and PIC power utilities in the use of these tools.
- Improve technical and institutional capacity within the PPA and PIC power utilities for planning and management, aimed at the successful integration and long-term management of power systems with higher levels of renewable energy.
- Strengthened planning capacity for disaster recovery and risk reduction within PIC power utilities.

The project will build on existing renewable energy policies and frameworks already implemented by governments and administrations in the region. Together with coordination from the PPA, the project will promote the implementation of shared renewable energy objectives.

Electricity facilitates economic activity and the delivery of key public services, including health, education and infrastructure services. SEIDP will help to reduce poverty and boost shared prosperity in the Pacific by enhancing access to electricity and the economic benefits that come from this for years to come.

*For more detailed information on each of the three project components please see over.*

**Contacts:**

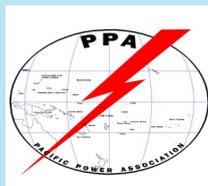
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## Detailed project information

### COMPONENT 1: Renewable Energy Resource Mapping

**SUMMARY:** This component will carry out a resource-mapping assessment of solar and wind capacity across the 10 participating PICs and PNG, incorporating phases 1 to 3 of the five phases of resource mapping being supported under the Energy Sector Management Assistance Program (ESMAP).

The objective of this component is to enhance government, power utilities and private sector awareness and knowledge of the resource potential for renewable technologies (solar and wind), and to provide governments with a spatial planning framework to guide investment in the renewable energy sector.

### COMPONENT 2: Technical Assistance

**SUMMARY:** This component will carry out a program of activities designed to increase capacity within the PIC power utilities on planning for and management of the integration of variable renewable energy in their systems, data collection and management, and knowledge sharing across jurisdictions. This program of activities will include:

- acquisition of modeling software and consultancy services for renewable energy integration and capacity building
- development of an online power benchmarking platform
- development of industry guidelines and competency standards
- training/workshops
- career development initiatives for power utilities
- supporting power utilities' capacity for citizen engagement through support from the Global Partnership on Social Accountability (GPSA)
- assistance with mainstreaming gender equity/equality in the power sector
- disaster-recovery and risk-reduction activities for power utilities.

**FINANCING:** Scaling Up Renewable Energy Program (SREP) US\$1.6 million; SIDS DOCK US\$0.7 million; Government of Japan through the Global Facility for Disaster Reduction and Recovery (GFDRR) US\$0.27 million.

### COMPONENT 3: Project Implementation Support

**SUMMARY:** This component will carry out a program of activities designed to enhance the PPA's capacity for overall project coordination, management and monitoring. These activities include coordination, administration, technical operation, procurement, financial management (FM), environmental and social management, gender action plan implementation, monitoring and evaluation (M&E), and reporting.

**FINANCING:** SIDS DOCK US\$0.5 million; SREP US\$0.32 million.

### About the implementing agency — Pacific Power Association (PPA)

The PPA is the key regional organization that provides support to power utilities in Pacific Island Countries and Territories (PICTs). The PPA is a nongovernmental regional organization, established in 1992. The PPA's main objective is to create an environment of "cooperative partnership" with the private sector, funding institutions, and others with interest in the development of the power industry, and to enhance the role of the power sector in the PICTs. The PPA aims to improve the quality of power in the region through a cooperative effort among the region's utilities. It has a mandate to assist the utilities in resolving problems, including the integration of renewable energy, and to encourage them to be efficient and accountable in their operations.

### For further information please visit the links below:

- **World Bank website** — <http://www.worldbank.org/projects/P152653?lang=en>
- **PPA website** — <http://www.ppa.org.fj/world-bank-provides-grant-for-renewable-energy/>

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