

# SUSTAINABLE ENERGY INDUSTRY DEVELOPMENT PROJECT (SEIDP)

**Donor: The World Bank**

**Funding: USD 5.66million**

**Additional Funding: USD 1million (Australian  
Government)**

**Technical Advisory Group Presentation to the PPA Board  
PPA Annual Conference 2017, Apia, SAMOA**



# Overview

- Background
- Funding
- Objectives & Project Components
- Progress & Work plan next 12 months
- Utility participation
- Questions

# Background

- 2014 PPA & Sustainable Energy Industry Association of the Pacific Islands (SEI-API) project proposal
- Aim to provide support to Pacific Island Countries (PICs) to help ensure the long-term sustainability and success of the increasing number of RE installations
- Project approved by World Bank     Sept 2015
- Project duration: 5 years (Sept 2015 - Aug 2020)

# Funding

- Total project cost: US\$5.66m
- Financing:
  - Small Islands Developing States Initiative (SIDSDOCK) grant US\$3.47m
  - Scaling Up Renewable Energy Program (SREP) grant US\$1.92m
  - Government of Japan under GFDRR grant US\$0.27m

# Additional Funding

- Additional financing of US\$1.0m from Australian Government Feb 2016
- Variable Renewable Energy Grid Integration and Planning Studies in 4-5 PICs /Assessment of the needs for Supervisory control and data acquisition (SCADA) and Energy Management System (EMS)
  - Federated States of Micronesia
  - RMI
  - Samoa
  - Tonga
  - Tuvalu
- Support for regulatory framework changes under discussion??  
Confirm with WB
- Value Of Lost Load (VoLL) study under discussion

# Project Objectives



# Component 1

- Energy Sector Management Assistance Program (ESMAP)
- Phase 1: Being implemented by ESMAP
  - Solar resource maps available online & copies at the conference
  - Wind resource maps will be available by the end of the year
- Phase 2: Ground-based data collection (2017-19)
  - High resolution data from 8 solar stations & 4 wind stations
- Phase 3: Validated resource maps – by August 2020

# Component 2

- Modelling software for RE integration and capacity building
- Online power benchmarking platform;
- RE/EE guidelines and competency standards
- Training/workshops
- TNA & Career development initiatives study
- Assistance with mainstreaming gender equity/equality in the power sector
- Disaster-recovery and risk-reduction activities for power utilities



# Component 3

- Building PPA's capacity for
  - overall project coordination,
  - management and monitoring including technical operation,
  - procurement,
  - financial management,
  - environmental and social management,
  - gender action plan implementation,
  - monitoring and evaluation, and
  - reporting.

# Project Implementation Status Update

- Comp 1 :

- Wind & Solar resource mapping bid to be issued in late August;
- ToR for consultant to validate data & prepare resource maps being drafted;

- Comp 2:

- Electrical Engineer recruited to provide technical advice & lead the power system modelling & benchmarking activities;
- Power system modelling software – PowerFactory procured & training for PPA has been completed.
  - Training for utilities scheduled for September
- ToR for consultant to develop online benchmarking platform being developed;
- Renewable Energy & Energy Efficiency Guidelines, Competency Standards and Training evaluation of proposals underway. Aim to award contract in September
- TNA & Career development initiatives – consultant has completed the study

# TNA & Career Development Initiatives Study

Four major training topics resulted and were prioritized:

1. O&M of large scale solar
2. Energy storage for large scale solar
3. Adding private solar generation into the grid
4. Implementing SCADA for multiple generators

# Project Implementation Status Update

- Comp 3:
  - Project Implementation Officer & Procurement Advisor recruited.
  - PPA website upgrade completed.
  - Training for PPA staff on procurement, finance & administration.

# work plan 2017/2018

[illegible]

## Underway

Ongoing

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# Utility Participation

- Encourage active participation of member utilities to provide support & advice to the project including but not limited to:
- Identifying sites, installation, monitoring, data collection & data validation;
- Participating in training workshops & courses to be identified;
- Providing required information/data to PPA to help with project implementation & activities;