

Asia Clean Energy Event

Pacific Power Association's Sustainable Energy Industry Development Project

Pacific Deep Dive Workshop
5 June 2017
Manila, Philippines

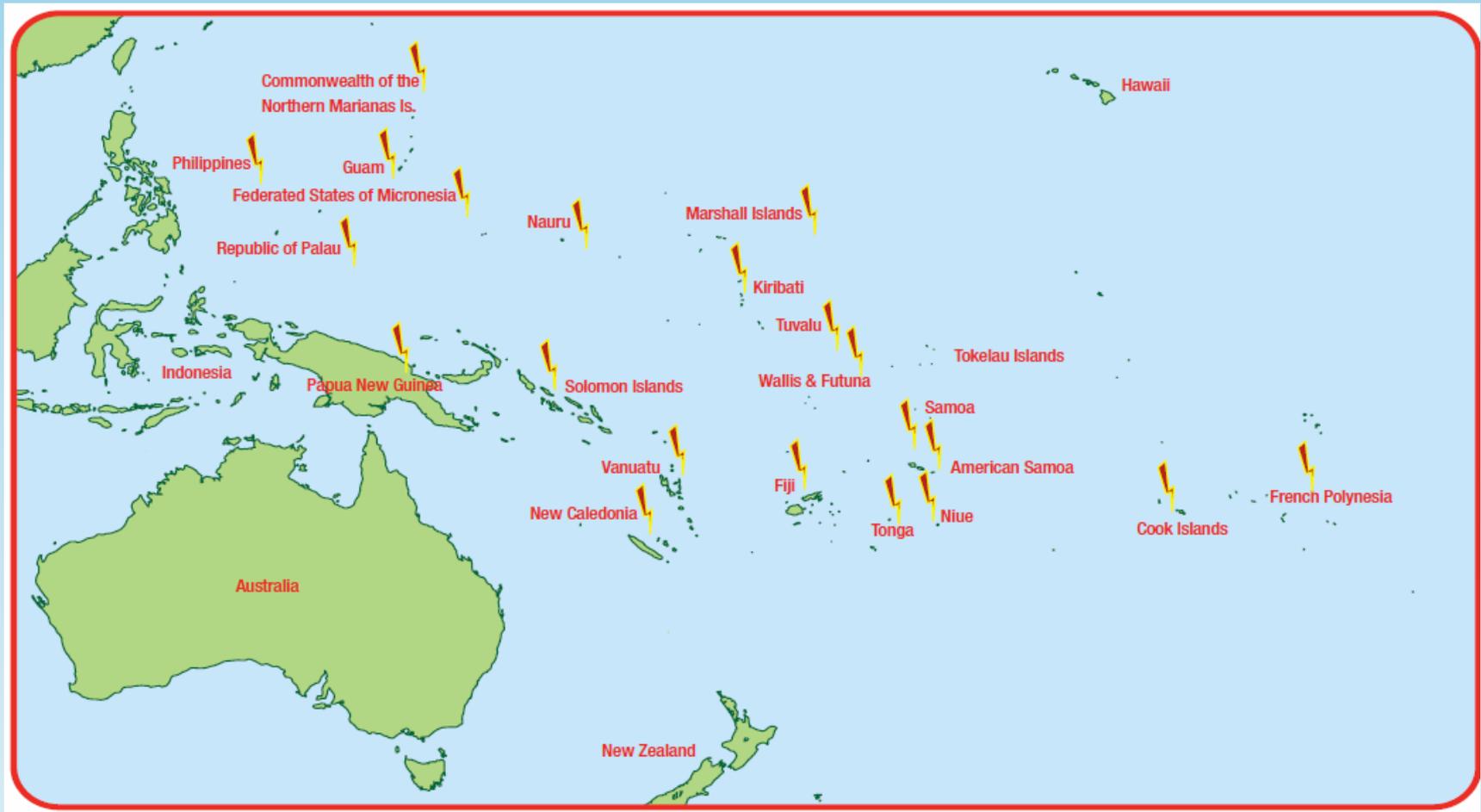


Outline of presentation

- ▶ What is the Pacific Power Association
- ▶ Challenges in accelerating the uptake of renewable energy in the Pacific
- ▶ The Sustainable Energy Industry Development Project and how it is going to address the challenges



Pacific Power Association



Pacific Power Association:

- Established 17 July 1992
- Secretariat is based in Suva, Fiji
- 25 Electric Utilities, 119 Private Enterprise Organizations, Development Partners
- objective is to improve the quality of power in the region through a cooperative effort among the utilities, private sector and regional aid donors
- Facilitates technical studies and surveys, conferences, training, information services, publications, represents utilities in energy fora



Renewable Energy Targets

| <u>Country</u> | <u>Current RE Level</u> | <u>Target</u> |
|---------------------------------|-------------------------|----------------|
| Tokelau | | 100% RE - 2013 |
| Cook Islands | 15% | 100% RE - 2020 |
| Niue | | 100% RE - 2020 |
| Tuvalu | | 100% RE - 2020 |
| Fiji | | 80% RE - 2030 |
| Vanuatu | | 100% RE - 2030 |
| Solomon Islands | | 100% RE - 2030 |
| Marshall Islands | 2% | 20% RE - 2020 |
| Federal States of Micronesia | 5% | 50% RE - 2030 |
| Samoa | 48% | 100% RE - 2017 |
| Tonga | 13% | 50% RE - 2020 |



Barriers to greater RE uptake

- Limited information on available RE resources
- Aged/fragile grids
- Outdated/lack of Clear regulations and policies on pricing, interconnection
- Limited knowledge within the utilities and Energy Departments to deal with IPPs/PPAs
- Lack of standards and grid codes
- Lack of funding to support RE targets





Pacific Islands Sustainable Energy Industry Development Project

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

Project background



- ▶ 2014 PPA & Sustainable Energy Industry Association of the Pacific Islands (SEIAPI) 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)



Project background

- ▶ 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**

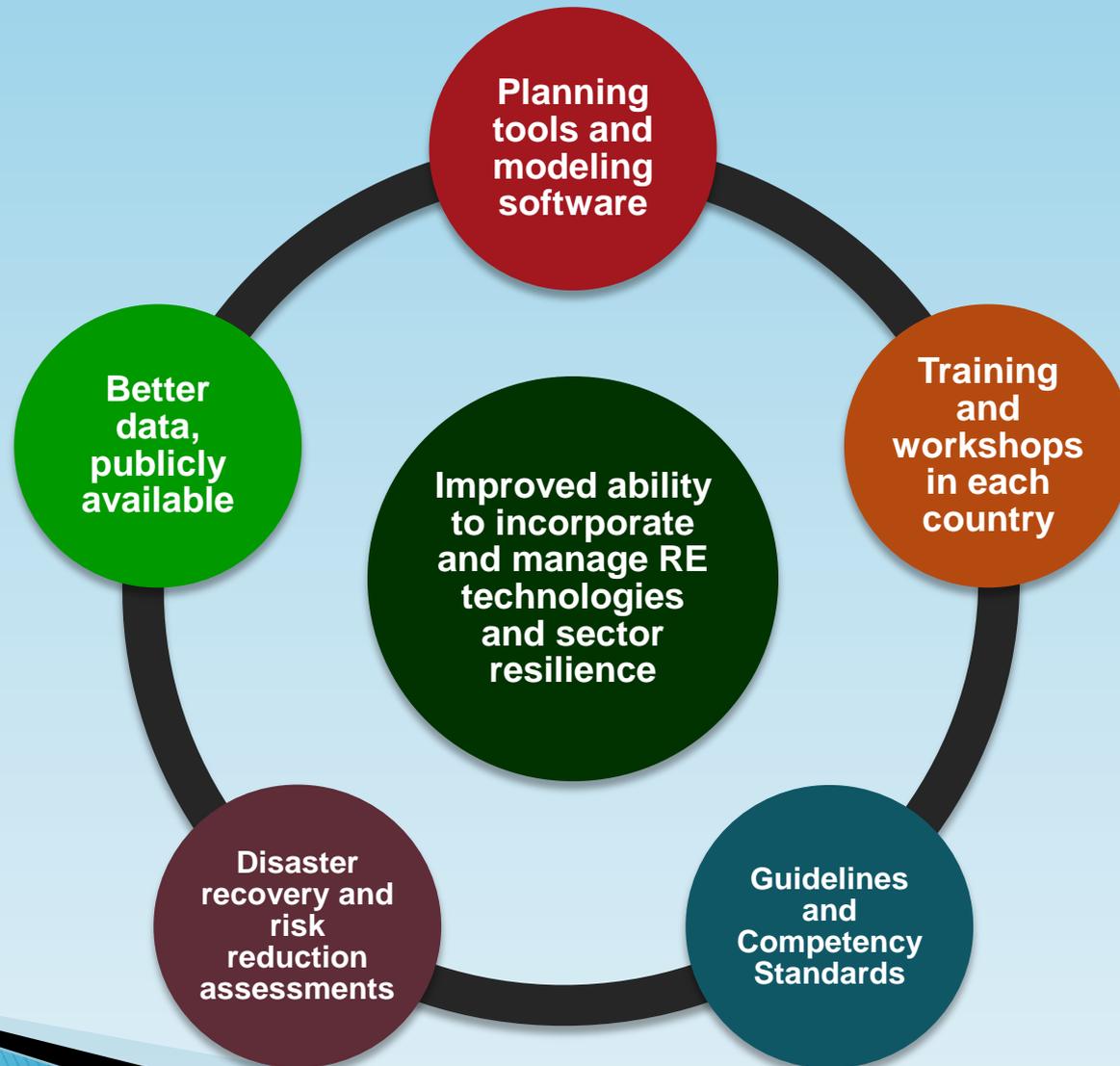


Project background

- Additional financing of US\$1.0m from Australian Government Feb 2016
- Grid Integration and Planning Studies in 3 - 4 PICs
- Assessment of the needs for Supervisory control and data acquisition (SCADA) and Energy Management System (EMS)
- Support for regulatory framework changes



Project objectives



Component 1

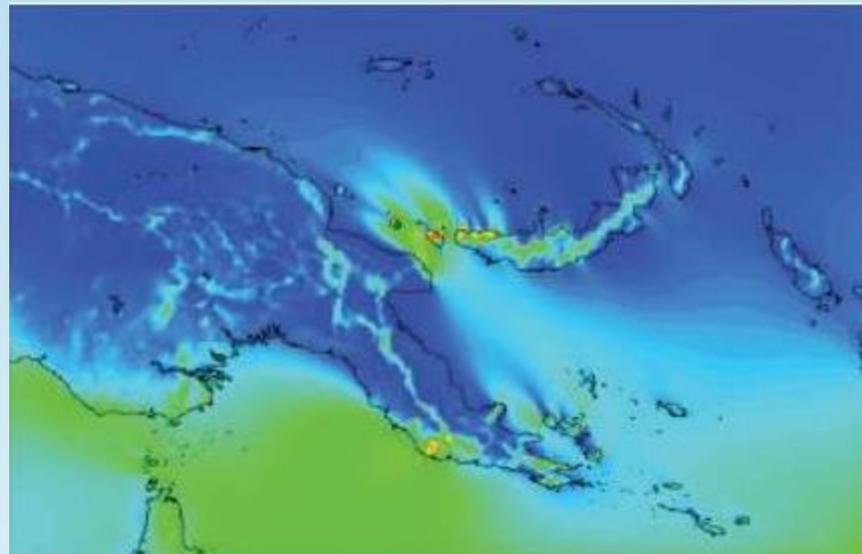
Component 1:
Resource
Mapping
(US\$2.27m)

Energy Sector Management Assistance Program (ESMAP)

Phase 1: Preliminary assessments
(solar/wind) – by December 2016

Phase 2: Ground-based data collection
(2017-18) – EOIs closed 29 July

Phase 3: Validated resource maps – by
August 2020



Component 2

Component 1:
Resource
Mapping

Component 2:
Technical
Assistance
(US\$2.57m)

- Modeling software for RE integration and capacity building
- Online power benchmarking platform
- Industry guidelines and competency standards
- Training/workshops
- Career development initiatives for power utilities
- Support from the Global Partnership on Social Accountability (GPSA) for citizen engagement
- Assistance with mainstreaming gender equity/equality in the power sector
- Disaster-recovery and risk-reduction activities for power utilities.

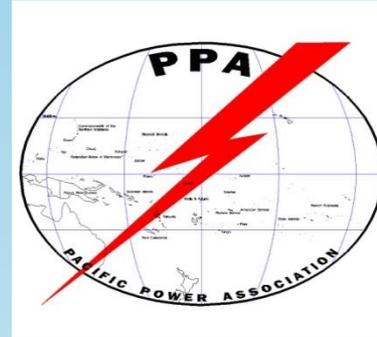


Component 3

Component 1:
Resource
Mapping

Component 2:
Technical
Assessment

**Component 3:
Project
Implementation
Support
(US\$0.82m)**



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.

Thanks

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