

Public Seminar – Challenges in Mainstreaming Disaster Risk Management

Presentation 3 - DRM in the Pacific Energy Sector

Roberto G. Aiello
Senior Energy Specialist
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Outline

- A. WBG products and services
- B. Pacific Energy Program
- C. Examples of mainstreaming disaster risk reduction in the power sector

A. WBG Products and Services

IBRD/IDA

IBRD Loan

IDA Credit and Grants

Interest rate and
currency swaps

Guarantees

✦ partial risk

✦ partial credit

Tech. Assistance

MIGA

Political Risk Insurance

✦ expropriation

✦ transfer restriction

✦ breach of contract

✦ war & civil disturbances

✦ Sub-sovereign guarantees
without government counter
guarantee

IFC

IFC Loans

IFC Equity

IFC Guarantees
(partial credit
structures –
offshore & local
financing)

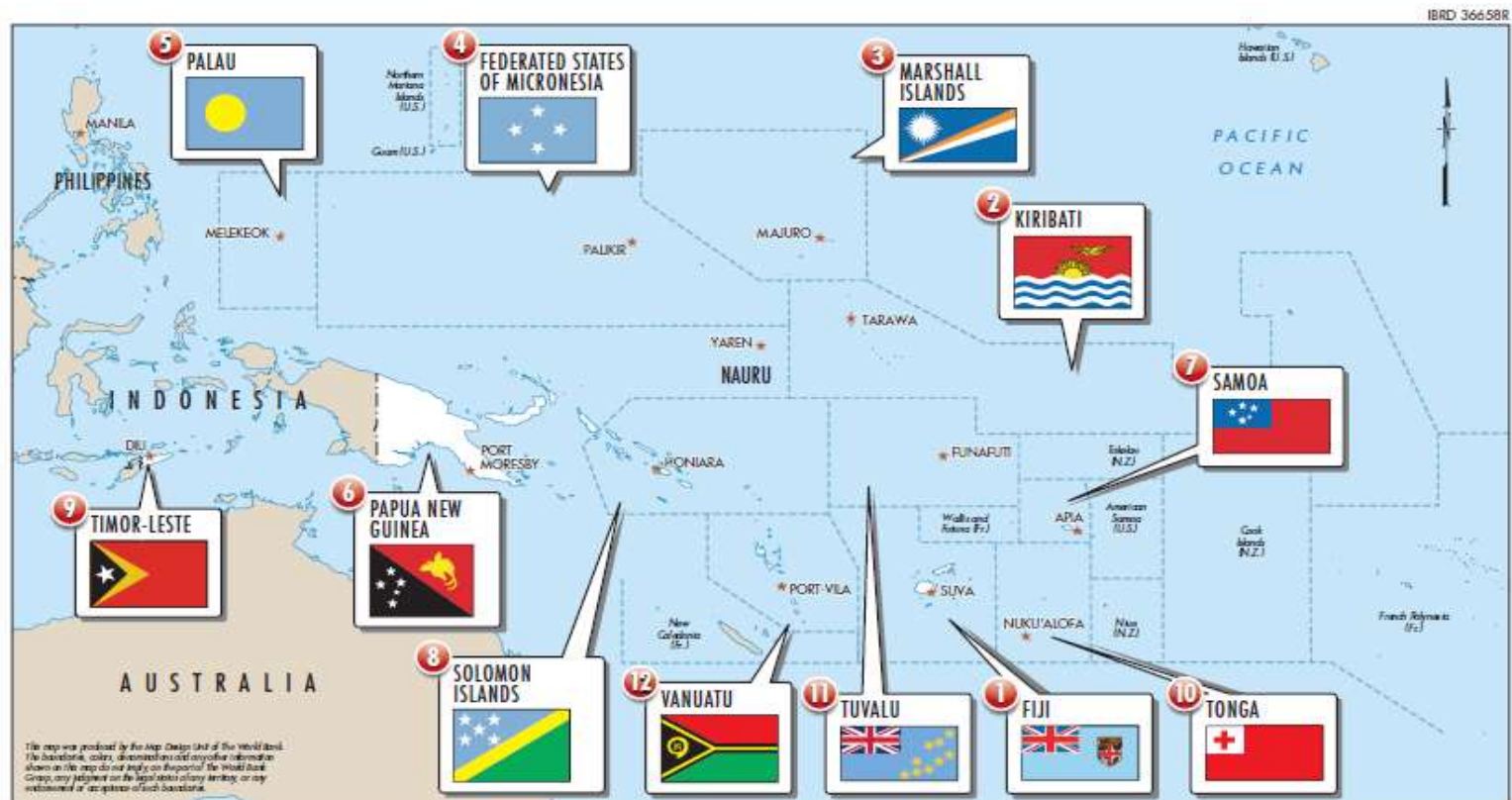
Interest Rate and
Currency swaps

PPP Transaction
Advisory

B. Pacific Energy Program

The Pacific Energy Program is currently active in 9 countries – Fiji, FSM, Kiribati, PNG, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu.

In FY15 - 15 active projects* and a total investment lending >US\$70 M



WB Energy priorities in the Pacific

1. Strengthen energy planning, including integrating natural hazards and gender, and promote policy, institutional and regulatory frameworks, aiming to enhance energy security.
2. Improving utilities' performance and sustainability.

These areas help underpin other objectives:

- ▶ Facilitating least-cost power infrastructure, including through smart PPPs; and
- ▶ Increasing access to affordable, reliable and sustainable electricity services.

C. Example 1: DRM in Power Sector

- ❖ **“Tuvalu Energy Sector Development Project “**
- ❖ **Objective:** To enhance Tuvalu’s energy security by reducing its dependence on imported fuel for power generation and by improving the efficiency and sustainability of its electricity system.
- ❖ Implementation Agency: **Tuvalu Electricity Corporation (TEC)**
- ❖ **Project Cost: USD 9.1 million.** 2 sources of funds –
 - USD 7 m grant (IDA)
 - USD 2.1 m grant (SIDS DOCK)
- ❖ **Project Duration: 4 years (2015-2019)**



Key features

1. **Renewable Energy investments**
Power-generation and grid-management equipment
2. **Energy Efficiency Investments**
Prepayment meters and selected EE investments
2. **TA and project mgmt. support**



Investments to consider climate-proof technologies and installations



C. Example 2: DRM in Power Sector

- ❖ **“Sustainable Energy Industry Development Project”**
- ❖ **Objective:** To increase the data availability and capacity of power utilities of the PICs and PNG to enhance their ability to incorporate and manage renewable energy technologies and **long-term disaster risk planning**.
- ❖ Implementation Agency: **Pacific Power Association (PPA)**
- ❖ **Project Cost: USD 5.66 million.** 3 sources of funds –
 - USD 3.47m grant (SIDS DOCK)
 - USD 1.92m grant (SREP) under the Strategic Climate Fund (SCF)
 - USD 0.27m grant from the Global Facility for Disaster Reduction and Recovery (GFDRR) Japan-World Bank Program for Mainstreaming DRM in Developing Countries.
- ❖ **Project Duration: 5 years (2015-2020)**



Key features

1. Renewable Energy **Resource Mapping**

Phase 1: Preliminary modelling – desk top

Phase 2: Ground-based data collection

Phase 3: Production of maps and reports



2. Capacity building:

- (i) **RE integration**;
- (ii) online power benchmarking platform;
- (iii) industry guidelines and competency standards;
- (iv) power utilities' career development assessment plan;
- (v) **disaster-recovery and risk-reduction activities** as part of the Japan–World Bank Program for Mainstreaming DRM in Developing Countries.



Thank you

Roberto G. Aiello
Senior Energy Specialist
Tel: +61 2 9223 7773
raiello@worldbank.org