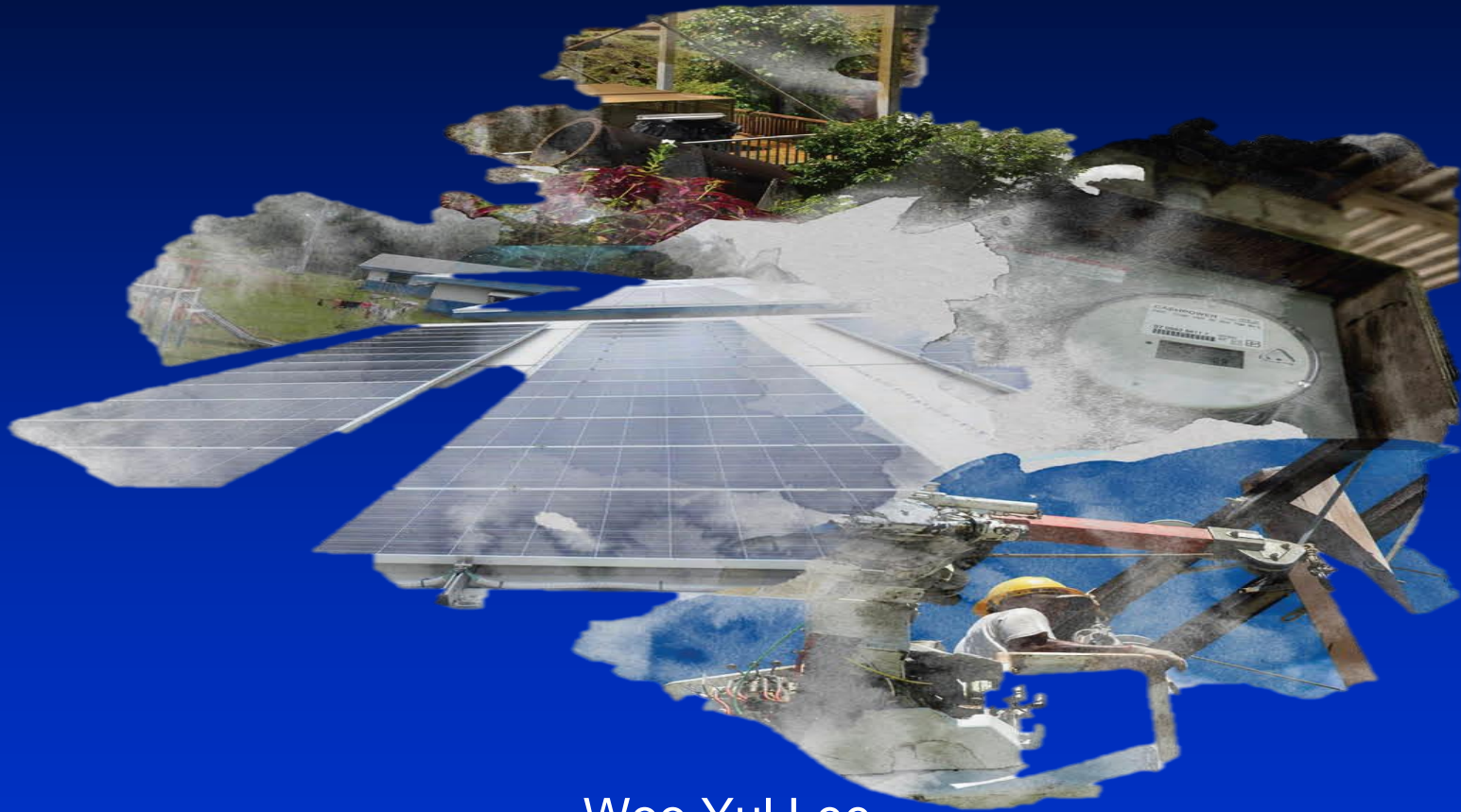


ADB Energy Sector Investments in the Pacific



Woo Yul Lee

Energy Specialist
Pacific Department
Asian Development Bank

ADB

Outline

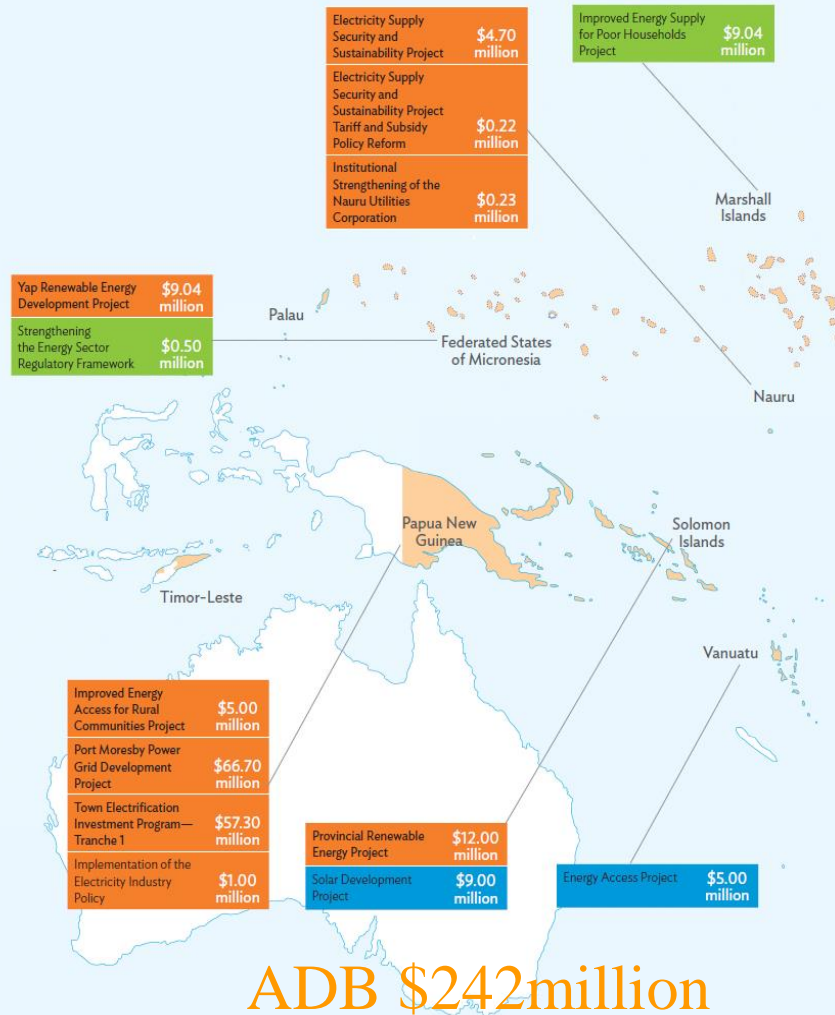
1. ADB's Pacific Priorities in Energy
2. ADB's Energy Projects in the Pacific
 - On-going Projects
 - Lending Pipelines 2015 - 2017
 - Non-lending Pipelines 2015 - 2017

ADB Pacific Priorities in Energy

- Expanding access to modern energy services,
- Increased renewable energy penetration,
- Increasing energy efficiency,
- Rehabilitation of ageing infrastructures,
- Capacity building of government energy agencies and beneficiary communities,
- Strengthening energy regulatory frameworks, and
- Increasing private-sector participation in delivery of energy services.

ADB Energy Projects in the Pacific

ADB Energy Projects in the Pacific

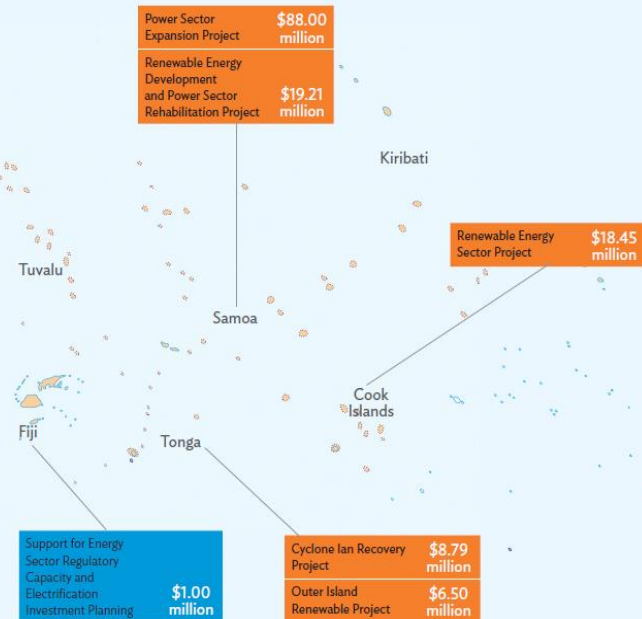


Legend

- Biofuel (Coconut)
- Diesel Generation
- Energy Efficiency
- Hydropower
- Solar
- Transmission and Distribution
- Wind
- Regulatory
- Capacity Building
- Ongoing
- Completed in 2014
- Proposed

Regional

Promoting Energy Efficiency in the Pacific Phase 2	\$8.75 million
Promoting Access to Renewable Energy in the Pacific	\$3.00 million



Regional Initiatives

Regional Capacity Development Technical Assistance **Promoting Energy Efficiency in the Pacific Phase 2**

Implementing energy efficiency projects to reduce the use and importation of fossil fuels in the Cook Islands, Papua New Guinea, Samoa, Tonga, and Vanuatu

Technical assistance amount	\$12.42 million
Funding sources	
ADB (Technical Assistance Special Fund)	
Global Environment Facility	\$1.00 million
Asian Clean Energy Fund	\$5.25 million
Australia	\$1.50 million
Governments	\$1.00 million
	\$3.67 million
Executing agency	ADB's Pacific Department
Implementation period	March 2011–April 2015

Regional Capacity Development Technical Assistance **Promoting Access to Renewable Energy in the Pacific**

Developing renewable energy to provide rural areas in Papua New Guinea, Solomon Islands, and Vanuatu with access to electricity

Technical assistance amount	\$3.6 million
Funding sources	
Multi-Donor Clean Energy Fund	\$3.0 million
Governments	\$0.6 million
Executing agency	ADB's Pacific Department
Implementation period	May 2013–October 2014

Renewable Energy

Yap Renewable Energy Development Project

Reducing fossil fuel consumption in Yap State through the development of renewable energy and stronger supply-side energy efficiency of the current electricity grid

Project amount	\$11.16 million
Funding sources	
ADB (ordinary capital resources)	\$4.68 million
ADB (Asian Development Fund)	\$4.36 million
Government	\$2.12 million
Executing agency	Yap State Public Services Corporation
Implementation period	June 2013–December 2017

Renewable Energy Sector Project

Construction of solar photovoltaic power plants and rehabilitation of the distribution network in the southern group of islands to increase energy security in an environmentally sustainable manner

Project amount	\$24.28 million
Funding sources	
ADB (ordinary capital resources)	\$11.19 million
European Union	\$7.26 million
Government	\$5.83 million
Executing agency	Ministry of Finance and Economic Management
Implementation period	November 2014–November 2017

Solar Development Project

Constructing solar power plants and promoting private-sector-led solar household systems installation and maintenance for more secure, accessible, and sustainable power generation and supply

Project amount	\$10.0 million
Funding sources	
ADB (Asian Development Fund)	\$3.0 million
Strategic Climate Fund	\$6.0 million
Government	\$1.0 million
Executing agency	Ministry of Finance and Treasury
Status	Proposed

Renewable Energy Development and Power Sector Rehabilitation Project

Post-cyclone rehabilitation, construction, and installation of hydropower plants for greater energy security and sustainability

Project amount	\$26.89 million
Funding sources	
ADB (Asian Development Fund)	\$18.21 million
Multi-Donor Clean Energy Fund	\$1.00 million
Government	\$7.68 million
Executing agency	Ministry of Finance
Implementation period	November 2013–June 2019

Provincial Renewable Energy Project

Construction of the Fiu River Hydropower Plant to replace diesel generation in Auki, and extension of the distribution grid to peri-urban households for increased supply of more reliable and cleaner power

Project amount	\$15.00 million
Funding sources	
ADB (Special Funds Resources)	\$12.00 million
Government	\$3.00 million
Executing agency	Ministry of Mines, Energy and Rural Electrification
Implementation period	May 2014–March 2022

Outer Island Renewable Project

Construction of solar power systems in nine outer islands for more reliable, secure, clean, and sustainable power generation that is less dependent on imported fossil fuels

Project amount	\$6.80 million
Funding sources	
ADB (Special Funds Resources)	\$2.00 million
Australia	\$4.50 million
Government	\$0.30 million
Executing agency	Ministry of Finance and National Planning
Implementation period	June 2013–June 2020

Energy Efficiency

Port Moresby Power Grid Development Project

Expanding renewable energy generation and accessibility to reduce fossil fuel consumption, increase access to the Port Moresby power grid, and improve network reliability

Project amount	\$83.0 million
Funding sources	
ADB (ordinary capital resources)	
ADB (Asian Development Fund)	\$51.7 million
Government	\$15.0 million
	\$16.3 million
Executing agency	Independent Public Business Corporation
Implementation period	April 2013–July 2017

Power Sector Expansion Project

Improving the quality, reliability, and cost-effectiveness of the power supply by improving the financial performance and operational efficiency of the state-owned power utility, supporting its investment plan, and establishing effective regulation of the power sector

Project amount	\$230.95 million
Funding sources	
ADB (Asian Development Fund)	\$42.00 million
Japan Bank for International Cooperation	\$38.00 million
Australia	\$8.00 million
Government	\$142.95 million
Executing agency	Ministry of Finance
Implementation period	November 2007–December 2016

Cyclone Ian Recovery Project

Post-cyclone reconstruction, upgrading, and climate- and disaster-proofing of the Ha'apai electricity grid network

Project amount	\$10.70 million
Funding sources	
ADB (Disaster Response Facility)	\$4.52 million
New Zealand	\$4.27 million
Government	\$1.91 million
Executing agency	Ministry of Finance and National Planning
Implementation period	May 2014–June 2018

Capacity Building

Technical Assistance Strengthening the Energy Sector Regulatory Framework

Strengthened energy sector regulatory framework enabling long-term investments in renewable energy

Technical assistance amount	\$0.5 million
Funding sources ADB (Technical Assistance Special Fund)	\$0.5 million
Executing agency	Department of Resources and Development
Implementation period	December 2012–August 2014

Technical Assistance Institutional Strengthening of the Nauru Utilities Corporation

Improving the financial, operational and governance performance of the national and sole electricity utility to reduce government fuel subsidies and improve the fiscal position of the government

Technical assistance amount	\$0.30 million
Funding sources ADB (Technical Assistance Special Fund) Government	\$0.22 million \$0.08 million
Executing agency	
Implementation period	April 2014–March 2016

Technical Assistance Electricity Supply Security and Sustainability Project Tariff and Subsidy Policy Reform

Developing recommendations in the tariff and subsidy policy reform in support of the Nauru Electricity Supply Security and Sustainability Project

Technical assistance amount	\$0.225 million
Funding sources ADB (Technical Assistance Special Fund)	\$0.225 million
Implementation period	July 2015–December 2015

Technical Assistance Implementation of the Electricity Industry Policy

Supporting the preparation of the national electrification roll-out plan to implement the Electricity Industry Policy

Technical assistance amount	\$1.0 million
Funding sources ADB (Technical Assistance Special Fund)	\$1.0 million
Executing agency	Department of Petroleum and Energy
Implementation period	December 2012–December 2015

Technical Assistance Support for Energy Sector Regulatory Capacity and Electrification Investment Planning

Developing regulatory and sector planning capacities within the Department of Energy for increased investments in power projects

Technical assistance amount	\$1.0 million
Funding sources ADB (ordinary capital resources)	\$1.0 million
Executing agency	Ministry of Infrastructure
Status	Proposed

ADB Lending Pipeline, 2015-2017

Project Name	Country	Type	Amount (US\$ M)	Contact
2015				
Pohnpei Power Sector Development Project	FSM	Loan	14.10	M. Trainor
Renewable Energy Development and Power Sector Rehabilitation Project	SAM	Grant	11.23	WY. Lee
Outer Island Renewable Energy Project (Additional Financing)	TON	Grant	5.01	WY. Lee
Energy Access Project	VAN	Loan	10.00	A. Maxwell
Electricity Supply Security & Sustainability Project	NAU	Grant	4.70	M. Trainor
2016				
Power Development	PNG	Loan	60.00	A. Maxwell
Town Electrification (Tranche 2)	PNG	Loan	77.70	A. Maxwell
Solar Power Development Project	SOL	Loan/Grant	14.70	A. Maxwell
Renewable Energy Sector Project	COO	Grant	5.20	WY. Lee
2017				
Renewable Energy Project	FIJ	Loan	50.00	M. Trainor
Renewable Energy Project	VAN	Loan	10.00	A. Maxwell

Note: Projects are indicative, pending ADB Management and Board approval, and approval timelines are subject to change.

ADB Non-lending Pipeline, 2015-2017

Project Name	Country	Type	Amount (US\$ M)	Contact
2015				
Regulatory Capacity and Investment Planning	FIJ	CDTA	1.00	M. Trainor
Private Sector Participation Support	TIM	PPTA	1.50	M. Trainor
2016				
Power Development	PNG	PPTA	1.00	A. Maxwell
Renewable Energy Project (Phase 2)	VAN	PPTA	1.00	A. Maxwell
Increasing Access to Renewable Energy	REG	CDTA	1.00	WY. Lee

Note: Projects are indicative, pending ADB Management and Board approval, and approval timelines are subject to change.



Thank you

Further information: ADB's Pacific Energy Team

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