

Outline

- A. Overview
- B. Focus Areas
- C. Pacific Renewable Energy Investment Facility (PREIF)
- D. Projects and Technical Assistance in Pipeline

A. Overview

- Pacific Energy Division (PAEN) at Asian Development Bank (ADB) works for sovereign energy sector projects in 14 Pacific Developing Member Countries (PDMCs):

Cook Islands (COO), Fiji (FIJ), Kiribati (KIR), Republic of the Marshall Islands (RMI), the Federated States of Micronesia (FSM), Nauru (NAU), Niue (NIU), Palau (PAL), Papua New Guinea (PNG), Samoa (SAM), Solomon Islands (SOL), Tonga (TON), Tuvalu (TUV), and Vanuatu (VAN)

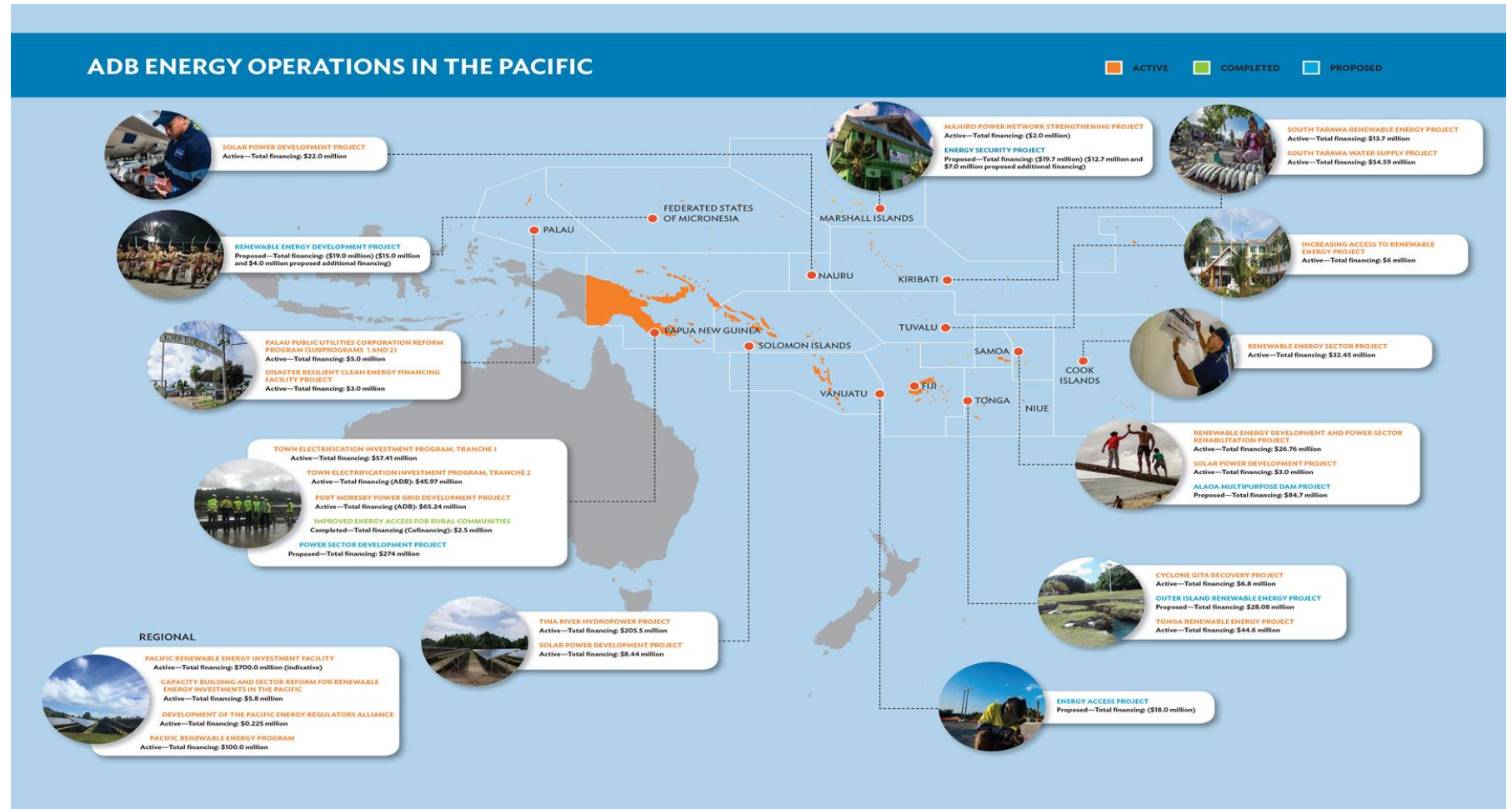
- ADB provides loans/grants to the governments of PDMCs, which typically on-lends proceeds of loans/grants to state-owned enterprises/utilities for financing their energy sector projects/programs.



A. Overview

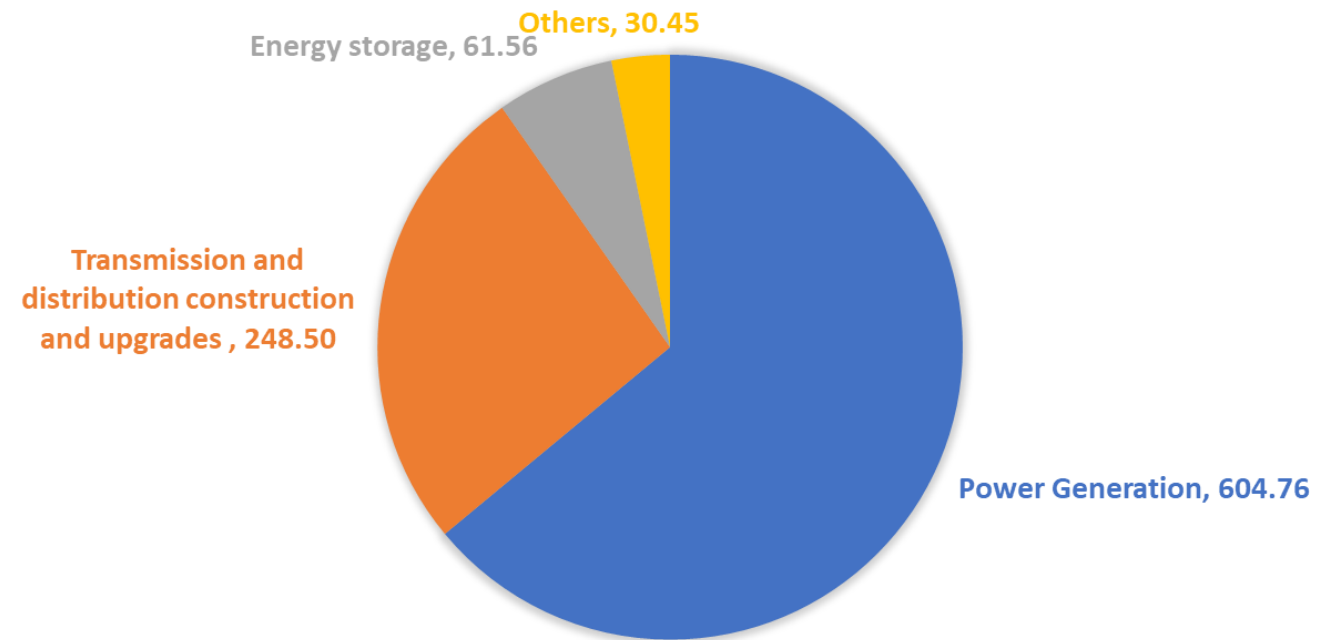
- ADB provides the following two types of technical assistance to the governments, regulators, and utilities in the energy sectors of the PDMCs:
 - Transaction Technical Assistance (TRTA):
For developing and processing of new energy sector projects/programs in the PDMCs.
 - Knowledge and Support Technical Assistance (KSTA):
For supporting capacity development of the governments and utilities in the PDMCs.
- ADB-assisted projects determine selection of contractors/consultants through open competitive processes.

A. Overview



A. Overview

Total Energy Investment by Type of Project 2007 – 2020
(\$ million)



B. Focus Areas

- i. Development of Renewable Energy Resources
- ii. Promotion of Energy Efficiency
- iii. Maximization of Access to Energy for All
- iv. Promotion of Energy Sector Reform and Capacity Development



B. Focus Areas

i. Development of Renewable Energy Resources:

[Ongoing Project]

- (COO) Renewable Energy Sector Project (ADB Funding and Cofinancing combined):
 - Installing solar photovoltaic (PV) systems and battery energy storage systems (BESS) to enable load-shifting, grid stability, and connection of more intermittent renewable energy to the grid.
 - Installation of BESSs is enabling for private sector to bring in more renewables to the country.

B. Focus Areas

i. Development of Renewable Energy Resources:

[Ongoing Project]

- (FSM) Renewable Energy Development Project (ADB Funding only):
 - Constructing ground-mounted solar PVs (1.95 MWp and 1.15 MWp), and BESSs (800 kW/800 kWh and 30 kW/160 kWh) to integrate solar PV systems into the main grid.
 - Installing solar hybrid mini-grids (60 kWp) and solar home systems to increase high quality electricity services on a remote island.



B. Focus Areas

ii. Promotion of Energy Efficiency:

[Proposed Project for 2022]

- (PNG) Power Sector Development Project (ADB Funding and Cofinancing combined):
 - Expanding and upgrading transmission lines and substations.
 - Building new low and medium-voltage power distribution lines.
 - Strengthening the capacity of the energy sector utility, including in grid modeling and planning, procurement, utility operation, and financial management.

B. Focus Areas

ii. Promotion of Energy Efficiency:

[Ongoing Project]

- (RMI) Majuro Power Network Strengthening Project (ADB Funding only):
 - Installing an advanced metering infrastructure, which will allow MEC to manage power more efficiently, decrease network losses, and improve revenue collection.
 - Strengthening the capacity of the energy sector utility in governance, accounting, and methodologies for setting and approving tariffs.



B. Focus Areas

iii. Maximization of Access to Energy for All:

[Ongoing Project]

- (VAN) Energy Access Project (ADB Funding and Cofinancing combined):
 - Extending grid infrastructure, including 21 kilometers of transmission lines and 79 kilometers of distribution network, on the country's two largest grids, to connect an additional 1,050 households to the grid, increasing the electrification rate.

C. Pacific Renewable Energy Investment Facility (PREIF)

- An innovative financing modality uses a streamlined and programmatic approach to processing a large number of small-value renewable energy projects in 11 smaller Pacific island countries (PIC-11): *COO, FSM, KIR, NAU, PAL, RMI, SAM, SOL, TON, TUV, and VAN.*
- A cumulative ADB financing of up to \$200 million until 2024 is expected to leverage up to \$500 million in co-financing and private sector investments.
- Support for PIC-11 to transform their power sectors from diesel to sustainable renewable energy sources.



D. Projects and Technical Assistance in Pipeline (Indicative) (Projects: 2022 to 2024)

Estimated Timing for Procurement	Country	Project	Estimated Amount (\$M)
Q2 2022	KIR	<u>South Tarawa Renewable Energy Project (STREP)</u> (solar PV, BESS)	16.60
Q3 2022	COO	<u>Renewable energy sector development project (Additional financing 2</u> funded by GCF) (solar PV, BESS)	12
Q4 2022	FSM	<u>Clean Energy Project</u> (small hydro, energy efficiency, and mini-grids)	35
Q3 2022	RMI	<u>Marshall Islands Electrification Project</u> (upgrades to distribution network)	10
Q4 2022	PNG	<u>Power Sector Development Project</u> (upgrades to transmission and distribution networks)	305
Q4 2022	SAM	<u>Alaoa Multipurpose Dam Project</u> (hydro)	98
Q4 2022	SOL	<u>SOL sustainable solar development MFF</u> (solar PV and BESS)	50
Q4 2022	REG	<u>Pacific Regional Financing Facility</u> (financial intermediation on clean energy investment in several countries)	15
Q4 2022	PAL	<u>Disaster resilient clean energy financing facility (additional financing)</u> (financial intermediation on clean energy financing in PAL)	5

D. Projects and Technical Assistance in Pipeline (Indicative) (Projects: 2022 to 2024)

Estimated Timing for Procurement	Country	Project	Estimated Amount (\$M)
Q2 2023	KIR	<u>Climate-Adapted Renewable Energy Project (CARE - STREP 2)</u> (floating solar PV, BESS)	20
Q2 2023	TUV	<u>Increasing Access to Renewable Energy Project Phase 2 (IAREP 2)</u> (floating PV, BESS)	4.50
Q2 2023	TON	<u>Floating Solar Plus Project</u> (floating PV, BESS)	TBD
Q4 2023	TUV	<u>Increasing Access to Renewable Energy Project Phase 2 AF (IAREP 2)</u> (BESS)	2
2023/2024	PAL	<u>Power network upgrade project</u> (upgrades to transmission/distribution networks, SCADA)	13
2024	NAU	<u>Floating Solar Plus Project</u> (floating PV, BESS)	TBD
2024	VAN	<u>Floating Solar Plus Project</u> (floating PV, BESS)	TBD
2024	FSM	<u>Floating Solar Plus Project</u> (floating PV, BESS)	TBD
2024	RMI	<u>Floating Solar Plus Project</u> (floating PV, BESS)	TBD

D. Projects and Technical Assistance in Pipeline (Indicative) (Projects: 2022 to 2024)

Estimated Timing for Procurement	Country	Project	Estimated Amount (\$M)
Q2 2022	REG	<u>Preparing sustainable renewable energy projects</u> (processing of renewable energy projects and mobility)	5
Q2 2022	PAL	<u>Preparing Disaster resilient clean energy financing facility (additional financing)</u> (processing of financial intermediation project)	1.5
Q2 2023	REG	<u>Pacific Renewable Energy Investment Facility Phase 2 AF</u> (processing of smaller renewable energy projects in PIC-11)	3
Q4 2023	KIR	<u>Climate-Adapted Renewable Energy Project (CARE - STREP 2)</u> (project management and construction supervision consultants)	2

THANK YOU!

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