

# JICA's Cooperation on Climate Change and Environment challenges in the Pacific



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## Overview of PICs

### < Overview >

- 14 Countries covered by ODA
- Micronesia, Melanesia, Polynesia
- **Small-sized, Isolated, Remote, and Maritime**  
(Vulnerabilities that have a serious impact on the lives of their inhabitants)

### < Relationship with Japan >

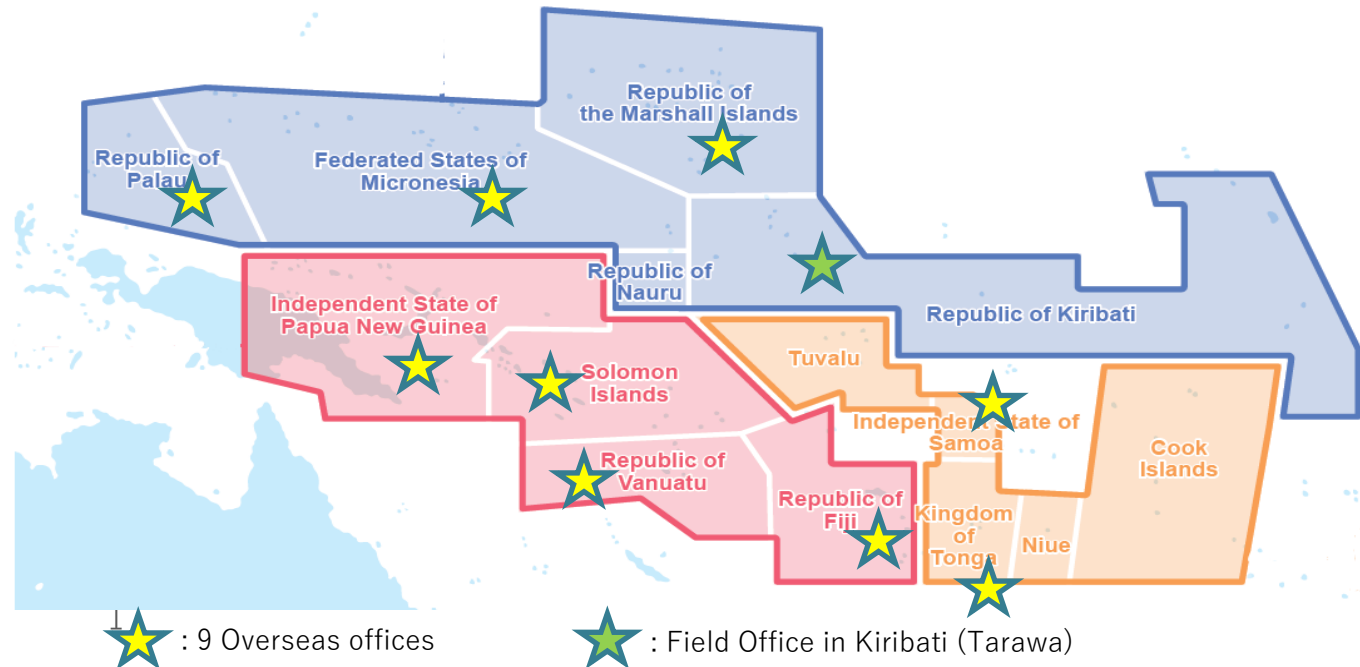
- Fisheries (tuna, skipjack tuna), minerals, LNG, timber, etc.
- Traditional friendship, Japanese emigrants (Nikkei), WWII

### < Political diplomacy >

- Pacific Island Forum (PIF) : 14 Countries + Australia, New Zealand, New Caledonia, French Polynesia
- Diplomatic Policy : 「**Friends to all, Enemy to none**」
- Security Concept : 「**Expanded Concept of Security**」  
A broad concept that goes beyond traditional security to include human security, environmental and resource security, cross-border crime, cyber security, etc.

**Climate Change: “single greatest threat”**

Country	Pop. (approx.)	Country	Pop. (approx.)
PICs Total		11,300,000	
Papua New Guinea	9,119,000	Tonga	106,000
Fiji	900,000	Marshall	59,000
Solomon Islands	704,000	Cook	20,000
Vanuatu	314,000	Palau	18,000
Samoa	200,000	Tuvalu	11,000
Kiribati	121,000	Nauru	10,000
FSM	116,000	Niue	1,520



## 【The 9th Pacific Islands Leaders Meeting (PALM 9)】

Based on the Ninth Pacific Islands Leaders Meeting (PALM9) held in July 2021, JICA's cooperation for the region revolves around the following five priority areas:

### <The five priority areas>

- (1) COVID-19 response and recovery,
- (2) Sustainable Oceans based on the Rule of Law,
- (3) Climate Change and Disaster Resilience,
- (4) Strengthening Foundation for Sustainable and Resilient Economic Development,
- (5) People-to-People Exchanges and Human Resource Development.

## 【2050 Strategy for the Blue Pacific Continent (July, 2022)】

A long-term strategy for PICs developed by the PIF, with seven priority areas (1) political leadership and regionalism, 2) people-centered development, 3) peace and security, 4) resource and economic development, 5) climate change and disaster reduction, 6) oceans and environment, and 7) technology and connectivity (generally consistent with the PALM 9 priority areas\*).

PICs have asked their development partners to develop cooperation based on this strategy and in a manner that is consistent with the context of the island countries.



(Source : Prime Minister's office of Japan)



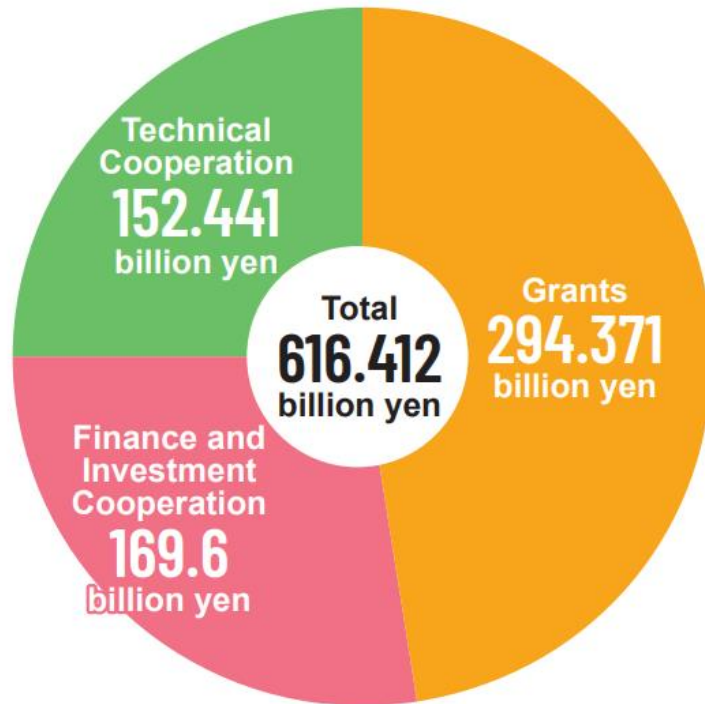
## 2050 Strategy for the Blue Pacific Continent



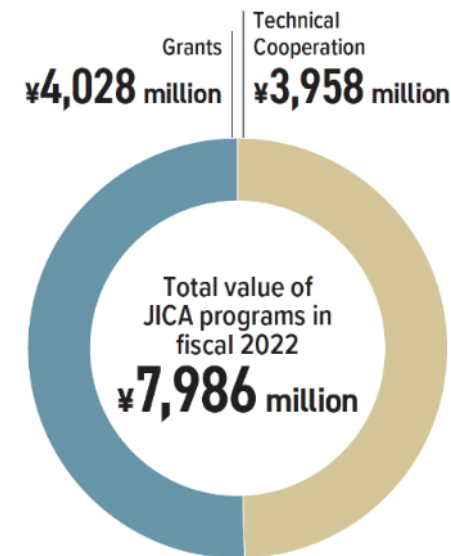
( Source : PIF )

## Scale of operations in the Pacific

Total up to the present



JFY 2022



Total value of JICA programs by country

Palau	¥3,154 million
Vanuatu	¥1,391 million
Papua New Guinea	¥862 million
Tonga	¥651 million
Fiji	¥609 million
Marshall Islands	¥547 million
Solomon Islands	¥332 million
Samoa	¥322 million
Federated States of Micronesia	¥72 million
Kiribati	¥40 million
Tuvalu	¥5 million
Cook Islands	¥2 million
Nauru	¥1 million

Note: For the total value of JICA programs, see the note on "Programs by Region" on page 37. Totals may not add up due to rounding.



# JICA's Cooperation on Climate Change & Environment

## Mitigation

### 【Green Power Island Program】

#### <GX・Innovation>

Study on moving away from **dependence on diesel**, diversification of power sources, and introduction of **next-generation decarbonization technologies** such as Ocean Thermal Energy Conversion(OTEC)

#### <Energy Transition>

**Grid stabilization** for the introduction of variable renewable energy

### 【Achieving Sustainable Forest Management】

Regulation-based commercial logging, reforestation, and community-driven forest management



OTEC (Okinawa) (Source : Saga Univ.)

## Adaptation

### 【Strengthening Capabilities for DRR and Disaster Response】

<Pre-disaster investment in DRR> DRR infrastructure and disaster-resilient infrastructure

#### <Understanding Disaster Risks, Strengthening Early Warning Systems >

Strengthening **the Fiji Meteorological Service's** capacity as a regional weather center, mitigation of disasters such as earthquakes, tsunamis, volcanic disasters, storm surges, etc., and **enhancement of forecasting, warning and observation capacity** (to deal with multi-hazards)

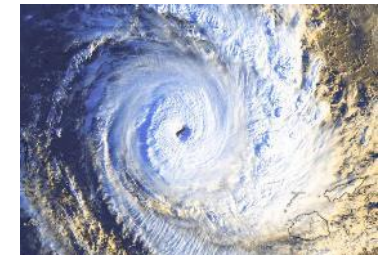
#### <Build Back Better>

Strengthening administrative capacity for DRR

### 【Sustainable Water Supply Services】

<Cooperation using the experience of Japanese water utilities>

**Non-revenue water**, improving services of water supply



# JICA's Cooperation on Climate Change & Environment

## Implementation of the Paris Agreement

### 【Cooperation for implementing the Paris Agreement】

#### < Strengthening Practitioner Capacity through Enhancement of PCCC's Function >

Established in September 2019, Apia, Samoa.

JICA's project implemented to establish training/learning courses for practitioner in the Pacific to understand climate adaptation, mitigation and access to climate finance. An upcoming project will support strengthening an innovation function.



Pacific Climate Change Centre (PCCC) (Samoa)  
(Source : PCCC)



Group training at PCCC  
(Source: JICA)

## Environment

### 【Realization of the Cleaner Pacific and Sustainable Society】

#### < Realization of the Cleaner Pacific >

Reduction of marine plastic runoff through proper waste management, conservation of coastal ecosystems such as coral reefs and mangroves, and environmental education through JICA Volunteers

#### < Building Sustainable Society through 3R+Return >

Promote the 3Rs (Reduce, Reuse, Recycle) + "Return" of resources exported outside the region

### 【Integrated management of coastal ecosystems】

#### < Improved capacity for conservation management of multifaceted services >

Improved capacity for conservation management of multifaceted services

### 【Sewage treatment】

#### < Develop a master plan for sewage treatment >

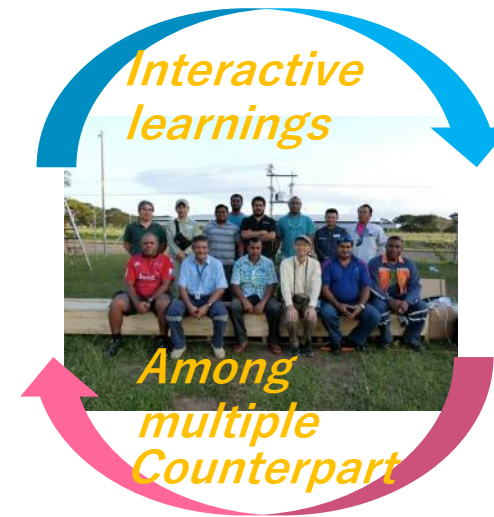
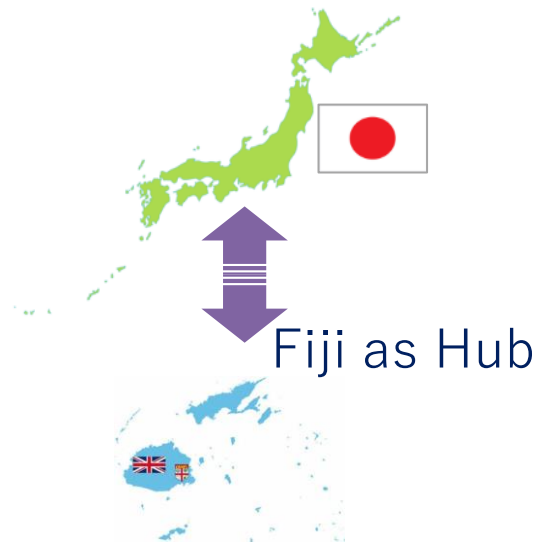
Sewage treatment facility development plan study and capacity building of human resources



## 1. Energy Transition

### 【Past and Upcoming Projects】

- Strengthening **the capacity to analyze and respond to grid instability factors** that arise during the mass introduction of renewable energy.
- In addition to supply-side measures, promote consumer-side measures (demand response) to support grid stabilization to withstand fluctuations in renewable energy.
- Contributing to further human resource development in Pacific island countries by strengthening the regional training centre in Fiji.



Fiji Electricity Authority as a regional training center to assist in the development of human resources in the region.



## 2. Meteorological Services

### 【Past and on-going project】

- To enhance the capacity of meteorological observations and weather forecasting and human resource development for Pacific Island Countries (Fiji Meteorological Service (FMS) and other National Meteorological Services (NMSs))
  - 1) 「Regional Meteorology Training for Pacific Island Countries」 (2010-2013)
  - 2) 「Project for Reinforcing Meteorological Training Function of Fiji Meteorological Service」 (2014-2018)
  - 3) 「Third Country Training - Sustained Activity of FMS for Developing Capacities for Meteorological Services in the South Pacific」 (2022-2025)

### 【Upcoming project】

- Capacity Development for **Improvement of Meteorological Forecasting and Warning** and for **Establishment of Regional Center for the Pacific**.
  - Observation and Forecasting
  - Information Dissemination and Awareness
  - Regional Training Centre
  - Regional Instrument Centre



### 【FMS is a Regional Hub in the Pacific】

- 1995: WMO – Regional Specialized Meteorological Centre for Tropical Cyclone Programme
- Future: WMO – Regional Training Centre  
Regional Instrument Centre







Thank you

