



## Kiribati Adaptation Phase III (LDCF) (P112615)

EAST ASIA AND PACIFIC | Kiribati | Social, Urban, Rural and Resilience Global Practice Global Practice |  
Global Environment Project | Investment Project Financing | FY 2012 | Seq No: 12 | ARCHIVED on 27-Apr-2018 | ISR31093 |

Implementing Agencies: Office Te Beretitenti/Office of the President, Office Te Beretitenti/Office of the President

## Key Dates

### Key Project Dates

Bank Approval Date:15-Sep-2011

Effectiveness Date:12-Mar-2012

Planned Mid Term Review Date:20-Oct-2014

Actual Mid-Term Review Date:30-Oct-2014

Original Closing Date:31-Dec-2018

Revised Closing Date:31-Dec-2018

## Global Development Objectives

Global Environmental Objective (from Project Appraisal Document)

To improve the resilience of Kiribati to the impacts of climate change on freshwater supply and coastal infrastructure.

Has the Global Environmental Objective been changed since Board Approval of the Project Objective?

No

## Components

Name

Component C1 – Improve water resource use and management:(Cost \$4.40 M)

Component C2 – Increase coastal resilience:(Cost \$2.80 M)

Component C3 - Strengthen the Capacity to Manage the Effects of Climate Change and Natural Hazards:(Cost \$2.10 M)

Component C4 – Project Management, Monitoring & Evaluation:(Cost \$1.50 M)

## Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	● Moderately Satisfactory	● Satisfactory
Overall Implementation Progress (IP)	● Satisfactory	● Satisfactory
Overall Risk Rating	● Moderate	● Moderate

## Implementation Status and Key Decisions



**Progress toward achieving the Project Development Objective (PDO).** Significant progress has been made on achieving the PDO *to improve the resilience of Kiribati to the impacts of climate change on freshwater supply and coastal infrastructure.*

- In February 2018, Pilot Water Improvement Zones were fully commissioned and inaugurated in Tanaea (41 households or 254 people) and Eita-Tebikenikoora (180 households or 1,214 people), **providing 24/7 pressurized water supply and exceeding the end-of-project targets of 180 households and 1,400 people provided with access to improved water sources (urban).** Cabinet approved the tiered tariffs for water supply on January 30, 2018. The final Pilot Water Improvement Zone in Nanikai is scheduled for completion and commissioning by June 29, 2018, providing 24/7 pressurized water supply to an additional 195 households or 1,350 people.
- By February 2018, leak detection and repairs in the PUB water transmission main, ground and elevated tanks **eliminated 645 cu.m./day losses (out of total network losses of 648 cu.m./day), representing 339% of the project target to eliminate 190 cu.m of losses day.** Ongoing tank repairs are expected to add to this loss reduction, and the Leak Detection Unit within the Public Utilities Board will support the resilience of the water supply beyond project closing.
- Seven completed rainwater harvesting systems are providing **4.7 m3 of potable water per day** toward the Project target of **5.1 m3 per day above the baseline.** The systems have operated satisfactorily since completion, with part of the last year being a period of drought. In addition, under the Resilience Fund, community rainwater harvesting tanks with distribution systems have been constructed by 43 communities on 12 islands, contributing a further 920 m3 storage capacity. The final system on North Buota will add another **0.8 m3 per day**, which will exceed the end-of-project target when commissioned in April 2018.
- The final groundwater infiltration gallery at Tabonibara (7 cu.m./day yield) was fully commissioned and inaugurated on February 24, 2018. Together with the completed groundwater infiltration galleries in Notoue (9 cu.m./day yield) and at the Immaculate Heart College (6 cu.m./day yield), **a total of 22 m3 per day are being supplied, exceeding the project target of 21 m3 per day.** Operation & Maintenance training of village-based committees is ongoing, to ensure the sustainability of this freshwater supply. With proper maintenance, groundwater galleries have been shown to be resilient to 60 continuous months of drought, and the infrastructure system has a design life of 200 years.
- Three completed shoreline protection works on South Tarawa, combined with the mangrove planting activities that has been completed in 9 outer islands, have resulted in **1.37 kilometers of coastline protected, exceeding the Project target of 1.2 kilometers.** Community-based mangrove management plans are being implemented to ensure the sustainability of the coastal protection measures, and the seawalls are part of the Ministry of Infrastructure's coastal asset management system.
- *Resilience Fund.* Round 1 (36 community adaptation grants on 12 islands in the Gilberts Group) is 97% completed. Round 2 construction is ongoing in 11 communities (43 rainwater tanks), and both rounds are scheduled for completion by the end of April 2018. Within the constraints of available funds, 18 of the 82 applications received have been approved under Round 3 (Line and Phoenix Islands), with a planned completion date of early July 2018. **To-date, 46 community-led resilience sub-projects have been completed, i.e. 71% completed vis-à-vis the target of 80 percent.**
- *Office of the President's Building extension:* The building was completed on-schedule in November 2017, and is used by the National Policy and National Disaster Management Units of the Office of the President.

## Risks

### Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	--	● Moderate	● Moderate
Macroeconomic	--	● Moderate	● Moderate
Sector Strategies and Policies	--	● Low	● Low
Technical Design of Project or Program	--	● Moderate	● Moderate
Institutional Capacity for Implementation and Sustainability	--	● Substantial	● Substantial
Fiduciary	--	● Substantial	● Moderate
Environment and Social	--	● Moderate	● Moderate



Stakeholders	--	● Moderate	● Moderate
Other	--	--	--
Overall	● Moderate	● Moderate	● Moderate

## Results

### Global Environmental Objective Indicators

#### ► Volume of potable water saved through reduced leakage (kiloliters per day)(Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	N/A	605.00	645.00	190.00
Date	23-Aug-2011	27-Sep-2017	28-Feb-2018	31-Dec-2018

#### Comments

By February 2018, leak detection and repairs in the PUB water transmission main, ground and elevated tanks **eliminated 645 cu.m./day losses (out of total network losses of 648 cu.m./day).**

#### ► Volume of potable water provided from new rainwater harvesting systems (kiloliters per day)(Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	1.00	5.70	5.70	6.10
Date	23-Aug-2011	27-Sep-2017	24-Feb-2018	31-Dec-2018

#### Comments

The North Buota rainwater harvesting systems will add another 0.8 m3 per day when built and commissioned (scheduled for completion in April 2018), exceeding the target.



► Volume of potable water provided from new groundwater sources (kiloliters per day)(Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	6.00	6.00	22.00	21.00
Date	23-Aug-2011	02-Nov-2015	24-Feb-2018	31-Dec-2018

► Length of coastline protected(Kilometers, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.50	1.29	1.37	1.20
Date	23-Aug-2011	27-Sep-2017	06-Nov-2017	31-Dec-2018

► People provided with access to improved water sources(Number, Corporate)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	5,000.00	--	11,430.00	11,000.00
Date	31-Jul-2017	--	18-Apr-2018	31-Dec-2018

▲ People provided with access to improved water sources - Female (RMS requirement)(Number, Corporate Supplement)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	2,500.00	--	5,820.00	6,000.00


**▲ People provided with access to improved water sources - rural (Number, Corporate Supplement)**

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	3,600.00	--	8,435.00	8,400.00

**▲ People provided with access to improved water sources - urban (Number, Corporate Supplement)**

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	1,400.00	--	2,995.00	2,600.00

Overall Comments

**Intermediate Results Indicators**
**▶ Number of groundwater abstraction systems installed and operating in North Tarawa. (Number, Custom)**

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	1.00	2.00	3.00	3.00
Date	23-Aug-2011	27-Sep-2017	24-Feb-2018	31-Dec-2018



► The frequency of water supply of households has increased to more than four hours per day (number of households) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	221.00	180.00
Date	23-Aug-2011	19-Jun-2015	27-Feb-2018	31-Dec-2018

Comments

221 households now have access to pressurized water 24 hours a day.

► Rehabilitation of distribution network to eliminate leakage (meters) (Meter(m), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	3,400.00	3,000.00
Date	23-Aug-2011	02-Nov-2015	27-Feb-2018	31-Dec-2018

Comments

Rehabilitation of the distribution network is scheduled for completion in June 2018.

► Reduction in non-revenue water through provision of consumer water meters (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	221.00	180.00
Date	23-Aug-2011	02-Nov-2015	27-Feb-2018	31-Dec-2018



► Baseline health statistics (eg. reported diarrhea cases) disseminated to communities through WASH training (number of communities in each six month interval) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	6.00	6.00	6.00
Date	23-Aug-2011	27-Sep-2017	16-Mar-2018	31-Dec-2018

► Number of water utilities that the project is supporting (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1.00	1.00	1.00
Date	23-Aug-2011	27-Sep-2017	08-Mar-2018	31-Dec-2018

► Coastline asset condition assessment is completed and documented for all major non-government assets along the South Tarawa coastline (percentage of shoreline) (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Nil	100.00	100.00	100.00
Date	23-Aug-2011	27-Sep-2017	08-Mar-2018	31-Dec-2018

► Government coastal asset management condition assessment are maintained (percentage of shoreline) (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Nil	100.00	100.00	100.00
Date	23-Aug-2011	27-Sep-2017	08-Mar-2018	31-Dec-2018



► National Key Performance Indicators on Climate Change Adaptation and Disaster Risk Management are developed, applied and reported. (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Nil	KPIs are developed	KPIs are developed	KPIs are fully reported publically
Date	23-Aug-2011	27-Sep-2017	16-Mar-2018	31-Dec-2018

Comments

Key Performance Indicators on Climate Change Adaptation and Disaster Risk Reduction were developed under the Kiribati Joint Implementation Plan for Climate Change and Disaster Risk Management (KJIP). The KJIP is being implemented through 12 strategies, with clearly defined results, performance indicators and prioritized actions outlined in the action matrix.

► Functional plans (under the Disaster Management Plan) relevant to public health and potable water are established and operational (number) (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Nil	2 Sector Plans Operating	2 Sector Plans Operating	Sector Plans Operating (3)
Date	23-Aug-2011	27-Sep-2017	16-Mar-2018	31-Dec-2018

► Population, for which Locally Managed Adaptation Plans are developed, finalized and being implemented. (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	12.52	12.52	33.00
Date	23-Aug-2011	27-Sep-2017	16-Mar-2018	31-Dec-2018

► Community-led resilience sub-projects completed (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	35.00	--	71.00	80.00
Date	31-Jul-2017	--	31-Mar-2018	31-Dec-2018





► The Office of the President's building extension to house government services for disaster risk management and climate change adaptation is built and used (Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	N	--	Y	Y
Date	31-Jul-2017	--	17-Jan-2018	31-Dec-2018

#### Overall Comments

### Data on Financial Performance

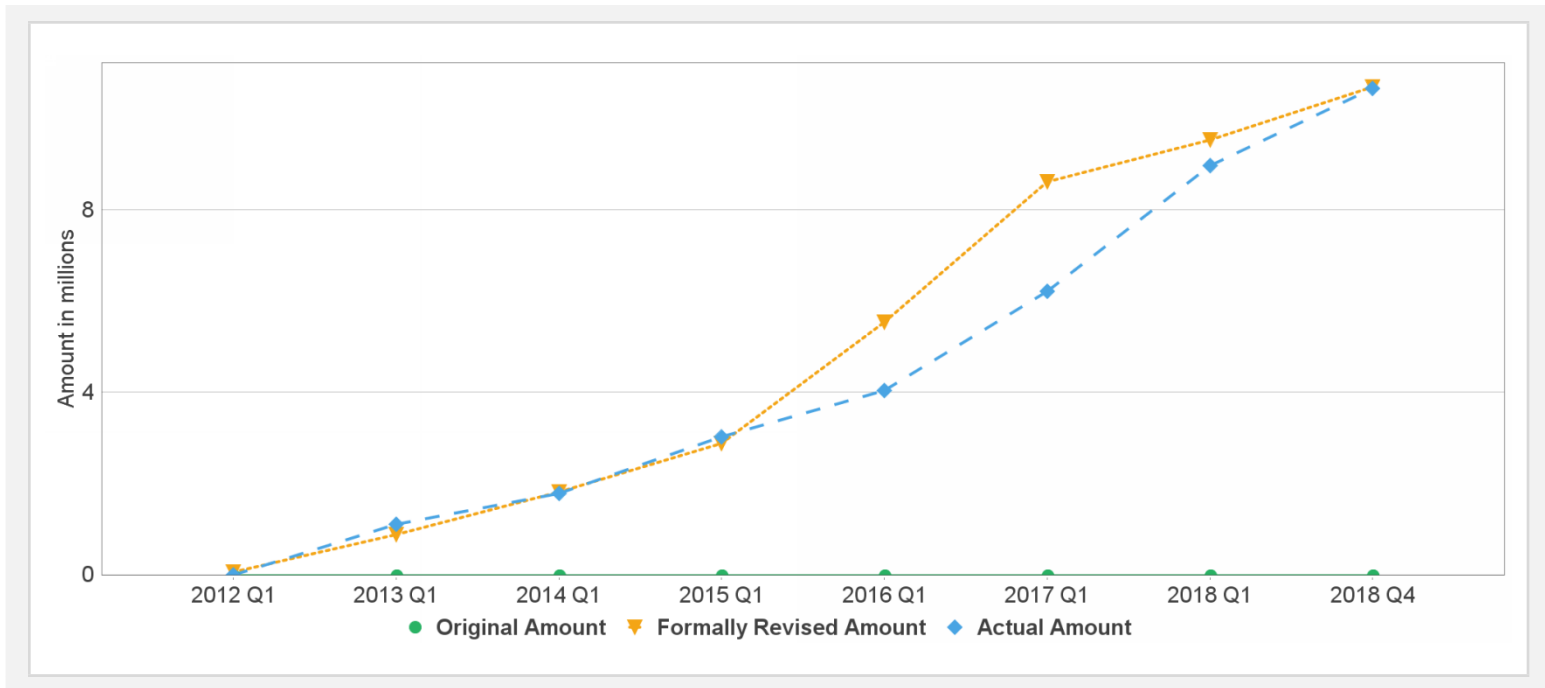
#### Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	Disbursed
P112615	TF-10875	Effective	USD	3.00	3.00	0.00	2.92	0.08	 97%
P112615	TF-11351	Effective	USD	5.38	5.38	0.00	5.04	0.34	 94%
P112615	TF-11448	Closed	USD	1.80	1.80	0.00	1.80	0.00	 100%
P112615	TF-11818	Closed	USD	0.90	0.90	0.00	0.90	0.00	 100%
P112615	TF-A5560	Effective	USD	0.49	0.49	0.00	0.00	0.49	0%

#### Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P112615	TF-10875	Effective	14-Oct-2011	14-Oct-2011	12-Mar-2012	31-Aug-2016	31-Dec-2018
P112615	TF-11351	Effective	15-Dec-2011	15-Dec-2011	12-Mar-2012	31-Aug-2016	31-Dec-2018
P112615	TF-11448	Closed	25-Jan-2012	02-Mar-2012	12-Mar-2012	31-Aug-2016	31-Aug-2017
P112615	TF-11818	Closed	17-Feb-2012	02-Mar-2012	12-Mar-2012	30-Jun-2016	30-Jun-2017
P112615	TF-A5560	Effective	03-Aug-2017	15-Oct-2017	15-Oct-2017	31-Dec-2018	31-Dec-2018

### Cumulative Disbursements



## Restructuring History

Level 2 Approved on 11-Jan-2016

## Related Project(s)

P163153- Kiribati Adaptation Program Phase III - Additional Financing