



Belize Energy Resilience for Climate Adaptation (GEF/SCCF) (P149522)

LATIN AMERICA AND CARIBBEAN | Belize | Energy & Extractives Global Practice |
Global Environment Project | Investment Project Financing | FY 2017 | Seq No: 12 | ARCHIVED on 31-May-2023 | ISR55595 |

Implementing Agencies: Belize Electricity Limited (BEL), Government of Belize

Key Dates

Key Project Dates

Bank Approval Date: 12-Sep-2016

Effectiveness Date: 06-Dec-2016

Planned Mid Term Review Date: 12-Feb-2021

Actual Mid-Term Review Date: 25-Jan-2021

Original Closing Date: 31-Jul-2020

Revised Closing Date: 30-Nov-2024

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The development objective of the proposed Energy Resilience for Climate Adaptation Project is to demonstrate solutions that enhance the resilience of the energy system to adverse weather and climate change impacts. This will be collectively achieved by implementing a wide-ranging and complementary set of activities that include pilot initiatives, infrastructure hardening, and analytical and planning efforts.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

Components Table

Name

Component 1: Long-Term Planning and Capacity Building for Adaptation:(Cost \$2.79 M)

Component 2: Demonstration Measures to Enhance Resilience of Energy Sector:(Cost \$8.44 M)

Component 3: Project Implementation Support and Information Dissemination for Knowledge Sharing:(Cost \$0.59 M)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	□ Moderately Satisfactory	□ Moderately Satisfactory
Overall Implementation Progress (IP)	□ Moderately Unsatisfactory	□ Moderately Unsatisfactory
Overall Risk Rating	□ Substantial	□ Substantial

Implementation Status and Key Decisions

There has been limited progress in the project. It is critical for the implementing agency to strengthen the project management and coordination with the concerned stakeholders to ensure that the project will achieve the Project Development Objectives within the project closing date.



Risks

Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	<input type="checkbox"/> Moderate	<input type="checkbox"/> Low	<input type="checkbox"/> Low
Macroeconomic	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Sector Strategies and Policies	<input type="checkbox"/> Moderate	<input type="checkbox"/> Low	<input type="checkbox"/> Low
Technical Design of Project or Program	<input type="checkbox"/> Moderate	<input type="checkbox"/> Low	<input type="checkbox"/> Low
Institutional Capacity for Implementation and Sustainability	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial
Fiduciary	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Environment and Social	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Stakeholders	<input type="checkbox"/> Moderate	<input type="checkbox"/> Low	<input type="checkbox"/> Low
Other	--	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial
Overall	<input type="checkbox"/> Moderate	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial

Results

PDO Indicators by Objectives / Outcomes

Demonstrate solutions that enhance resilience of the energy system to adverse weather and climate				
► Methodologies and procedures to incorporate climate resilience in long-term planning of energy infrastructure and systems developed and adopted (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	01-Nov-2016	07-Sep-2022	07-Sep-2022	31-May-2024
Comments:	The long term planning capacity has been strengthened with adequate hardware and software infrastructure. The on-job training is underway. Data collection for the planning is under progress and will be completed on time.			
► Transmission network segmented and protected against cascading line faults (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	01-Nov-2016	07-Sep-2022	07-Sep-2022	30-Nov-2024
□ Generation sources available for dispatch despite line faults (Number, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	5.00	5.00	5.00	7.00



□ Consumers with enhanced security of electricity supply (reduced outages) due to weather events (Number, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	274,000.00
□ Electricity consumers with enhanced security of electricity supply (reduced outages) despite weather events, of which, those are women (Number, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	139,192.00
□ Generation capacity available for dispatch despite line faults (Megawatt, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	82.50	82.50	82.50	110.00
► Weak transmission sections in the system reinforced to be more resilient (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	160.00
Date	01-Nov-2016	07-Sep-2022	07-Sep-2022	30-Nov-2024
Comments:	Measures how many new poles have successfully been installed in the weakest sections of the transmission line, resulting in increased resilience in the most vulnerable sections. The consultant to support the procurement of the pilot activities for strengthening of selected existing transmission lines was appointed. However the procurement process for the equipment and installation services has not been initiated.			

Intermediate Results Indicators by Components

Component 1: Long-Term Planning and Capacity Building for Adaptation				
► Training sessions on energy sector long-term planning conducted (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	4.00	4.00	8.00
Date	01-Nov-2016	07-Sep-2022	07-Sep-2022	29-Dec-2023
Comments:	The capacity of Ministry of Public Utilities, Energy and Logistics has been strengthened with adequate software and hardware infrastructure. The on-the job training of the key personnel is under progress.			
► Weather monitoring stations are installed and functioning (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	35.00
Date	01-Nov-2016	07-Sep-2022	07-Sep-2022	30-Jun-2023
Comments:	Hydrological model for the key river system has been completed and functional. Procurement for the weather stations to collect real time data is near complete but installations of these stations are pending.			



Component 2: Demonstration Measures to Enhance Resilience of Energy Sector				
► Appropriate technologies identified to be used for transmission line design for different terrain types (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	01-Nov-2016	07-Sep-2022	07-Sep-2022	30-Dec-2022
Comments:	A study to identify and evaluate various technology material options to strengthen the transmission line sections/network is near completion. The draft reports with proposed options are under discussion with BEL management.			
► Vegetable management plan for transmission and distribution lines informed with industry good practice (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	01-Nov-2016	07-Sep-2022	07-Sep-2022	30-May-2022
Comments:	The study on vegetation management practices have been successfully completed to provide BEL with options to consider for implementation.			
► Comprehensive emergency preparedness and recovery plan adopted (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	09-Jul-2020	07-Sep-2022	07-Sep-2022	30-May-2022
Comments:	The study to develop the Emergency Preparedness and Recovery Plan is near complete. The draft report and the training development plan are under finalization.			
Component 3: Project Implementation Support and Information Dissemination for Knowledge Sharing				
► Regional stakeholder and citizen engagement conferences held to evaluate and disseminate lessons learned and results achieved in project for enhancing energy resilience (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1.00	1.00	1.00
Date	01-Nov-2016	07-Sep-2022	07-Sep-2022	30-Nov-2024
Comments:	The planned activity is not yet carried out pending results of activities under Component 1 and 2.			

Performance-Based Conditions

Data on Financial Performance

Disbursements (by loan)

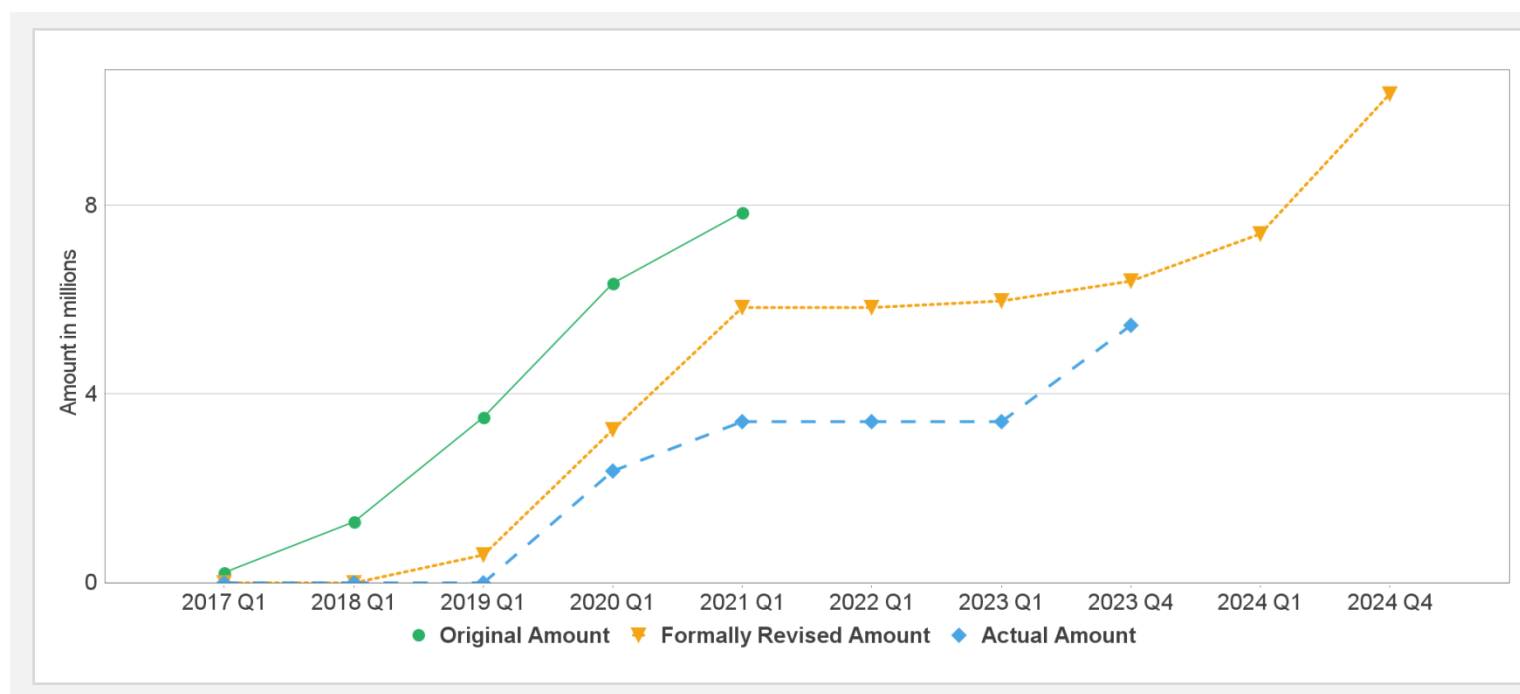


Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P149522	TF-A2887	Effective	USD	5.62	5.62	0.00	3.07	2.55	55%
P149522	TF-A2888	Effective	USD	2.38	2.38	0.00	2.38	0.00	100%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P149522	TF-A2887	Effective	12-Sep-2016	22-Sep-2016	06-Dec-2016	31-Jul-2020	30-Nov-2024
P149522	TF-A2888	Effective	12-Sep-2016	22-Sep-2016	06-Dec-2016	31-Jul-2020	30-Nov-2024

Cumulative Disbursements



Restructuring History

Level 2 Approved on 20-Dec-2018 ,Level 2 Approved on 29-Jul-2020 ,Level 2 Approved on 31-Jul-2020 ,Level 2 Approved on 31-May-2022

Related Project(s)

There are no related projects.