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: 10 | ARCHIVED on 14-Feb-2022 | ISR49667 |

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

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: 31-May-2022

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 enhancethe 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

Public Disclosure Authorized

Components To

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 Unsatisfactory	■ Moderately Unsatisfactory	
Overall Implementation Progress (IP)	☐ Moderately Unsatisfactory	■ Moderately Unsatisfactory	
Overall Risk Rating	Substantial	Substantial	

Implementation Status and Key Decisions

Overall the project implementation has been delayed. The project has contributed to long-term planning and capacity development for adaptation. The project implementation for activities related to demonstrating measures to enhance resilience of energy sector continues to be delayed. Several key activities for transmission network segmentation and strengthening against extreme climate conditions will not be completed within the current closing date. The Project Management Unit has been working on a time bound action plan for the remaining activities.

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Risks

Systematic Operations Risk-rating Tool

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

Results

PDO Indicators by Objectives / Outcomes

► Methodologies and pro adopted (Yes/No, Custon		e resilience in long-term plannir	ng of energy infrastructure a	and systems developed an
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	01-Nov-2016	03-Jun-2021	25-Jan-2022	31-May-2022
Comments:		ning capacity has been strength on-job training is underway. Dat		
Comments.	be completed on time	, ,		g is under progress and wil
	be completed on tim	, ,		g is under progress and will
	be completed on tim	ne.		End Target
►Transmission network	be completed on times	ne. inst cascading line faults (Yes/l	No, Custom)	
	be completed on times segmented and protected againg Baseline	ne. inst cascading line faults (Yes/l Actual (Previous)	No, Custom) Actual (Current)	End Target

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	all BEL residential of Procurement of equ	in it is available for dispatch to ope customers, including e) female luipment and installation service sults has been underway.	peneficiaries.	•
□Generation sour	ces available for dispatch despite l	line faults (Number, Custom Su	pplement)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	5.00	5.00	5.00	7.00
□Consumers with	enhanced security of electricity su	apply (reduced outages) due to	weather events (Number, C	ustom Supplement)
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	274,000.00
Value □Generation capa	0.00	0.00 line faults (Megawatt, Custom S	0.00 Supplement)	139,192.00
·	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	82.50	82.50	82.50	110.00
► Weak transmissio	n sections in the system reinforced	d to be more resilient (Number,	Custom)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
/alue	0.00	0.00	0.00	160.00
Date	01-Nov-2016	03-Jun-2021	25-Jan-2022	31-May-2022
Comments:	transmission line, re The consultant to s	ny new poles have successfully esulting in increased resilience upport the procurement of the pwas appointed. However the procen initiated.	in the most vulnerable secti filot activities for strengthen	ons. ing of selected existing

Overall Comments

The first result indicator is in progress of meeting the target. However, the second and third indicators on pilot transmission network improvement will need additional time to complete the on-going procurement and contract implementation of all pending activities to achieve the end targets.

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)

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	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	4.00	4.00	8.00
Date	01-Nov-2016	03-Jun-2021	31-May-2022	
Comments:		istry of Public Utilities, Energy a are infrastructure. The on-the jo		
► Weather monitor station	ons are installed and functionin	g (Number, Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	6.00	6.00	6.00	35.00
Date	01-Nov-2016	03-Jun-2021	25-Jan-2022	31-Mar-2022
Comments:		for the key river system has be collect real time data is near co		
Component 2: Demonstra	ation Measures to Enhance Re	silience of Energy Sector		
► Appropriate technolog	ies identified to be used for tra	nsmission line design for differe	ent terrain types (Yes/No, C	ustom)
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	01-Nov-2016	03-Jun-2021	25-Jan-2022	31-Dec-2021
Comments:	A study to identify a sections/network is BEL management.	nd evaluate various technology near completion. The draft repo	material options to strengorts with proposed options a	then the transmission line are under discussion with
►Vegetable manageme	nt plan for transmission and di	stribution lines informed with in	dustry good practice (Yes/N	lo, Custom)
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	Yes	Yes
Date	01-Nov-2016	03-Jun-2021	25-Jan-2022	31-Dec-2021
Comments:	The study on vegeta options to consider	ation management practices ha for implementation.	ve been successfully comp	leted to provide BEL with
► Comprehensive emerg	gency preparedness and recov	ery plan adopted (Yes/No, Cus	stom)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
		No	No	Yes
Value	No	NO		
Value Date	No 09-Jul-2020	03-Jun-2021	25-Jan-2022	31-Jan-2022

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)

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	Baseline	Actual (Previous)	Actual (Current)	End Target			
Value	0.00	1.00	1.00	1.00			
Date	01-Nov-2016	03-Jun-2021	25-Jan-2022	31-May-2022			
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	% Г	isbursed
P149522	TF-A2887	Effective	USD	5.62	5.62	0.00	2.01	3.61		36%
P149522	TF-A2888	Effective	USD	2.38	2.38	0.00	1.40	0.98		59%
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	31-May-2022
P149522	TF-A2888	Effective	12-Sep-2016	22-Sep-2016	06-Dec-2016	31-Jul-2020	31-May-2022

Cumulative Disbursements

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Restructuring History

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

Related Project(s)

There are no related projects.

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