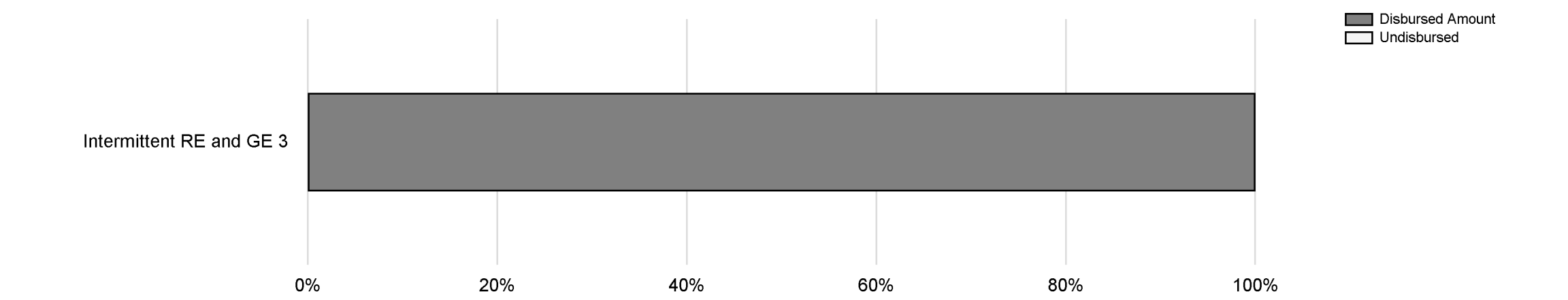


PMR Public Report

Operation Number	RG-G1009	Chief of Operations Validation Date	04/07/22
Year- PMR Cycle	Second period Jan-Dec 2021	Division Chief Validation Date	04/26/22
Last Update	03/25/22	Country Representative Validation Date	04/26/22
PMR Validation Stage	Validated by Representative		
Basic Data			
Operation Profile			
Operation Name	Sustainable Energy Facility (SEF) for the Eastern Caribbean	Loan Number	GRT/TC-15205-RG
Executing Agency	CARIBBEAN DEVELOPMENT BANK	Sector/Subsector	ENERGY-ENERGY INTEGRATION
Team Leader	GISCHLER BLANCO, CHRISTIAAN	Overall Stage	Fully Disbursed
Operation Type	Investment Grants	Country	Regional
Lending Instrument		Convergence related Operation(s)	RG-G1004, RG-L1071
Borrower			
Environmental and Social Safeguards			
Impacts Category	B13	Was/Were the objective(s) of this operation reformulated?	NO
Safeguard Performance Rating	Partially Satisfactory	Date of approval	
Safeguard Performance Rating - Rationale	While CDB staff are experienced in environmental and social risk management, there is limited geothermal experience. In the case of St. Vincent subproject in decommissioning, the social aspects of the program have been well implemented, albeit slowly, however environmental monitoring had not been fully implemented despite the fact that drilling had been completed. The effort in ensuring the projects within this cohort of operations correct noncompliance issues, as well as project preparation, the majority of projects under this cohort of operations is under preparation, have in many instances been led by IDB rather than CDB. According to the ROP, CDB should take the lead and submit to IDB, rather than vice versa Furthermore, CDB E&S specialists are unable to maintain the pace required in some of the projects, possibly due to lack of sufficient human resources, resulting in delayed reviews of E&S documents in preparation.		

Financial Data									
	Total Cost and Source					Available Funds (US\$)			
Operations	Original IDB	Current IDB	Local Counterpart	Co-Financing / Country	Total Original Cost	Current IDB	Disb. Amount to Date	% Disbursed	Undisbursed Amount
RG-G1004	3,013,698	3,013,698	0	0	3,013,698	3,013,698	1,855,705.99	61.58%	1,157,992.01
RG-G1009	19,050,000	19,050,000	0	0	19,050,000	19,050,000	19,050,000	100.00%	-
RG-L1071	20,000,000	20,000,000	29,435,000	0	49,435,000	20,000,000	8,016,000	40.08%	11,984,000
Aggregated	42,063,698	42,063,698	29,435,000	0	71,498,698	42,063,698	28,921,705.99	68.76%	13,141,992.01
Expense Categories by Loan Contract (cumulative values)									



Please note that inactive indicators and outputs are not displayed; totals in the actual cost table may not match the sum of the cost of the outputs displayed, due to the cost of inactive outputs.

RESULTS MATRIX

General Development Objectives

General Development Objectives Nbr. 0: Define impact statement

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement	EOP 2023	
0.0	Average electricity tariff for customers in ECC	US\$/KWh	0.33	2015	2026	P	.3
						A	-

Details

Means of Verification: Measures the average electricity tariff in the 6 ECC covered by the program.

Observations:

The General Development Objective indicator target is expected to be observed by the operation's "Fully Justified" date in Convergence (CO): No

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator			

Indicator		Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement	EOP 2023	
0.1	Regional penetration of indigenous renewable energy sources for power generation within the ECC	%	0	2016	2026	P	30
						A	-

Details

Means of Verification: Measures the average electricity tariff in the 6 ECC covered by the program.

Observations:

The General Development Objective indicator target is expected to be observed by the operation's "Fully Justified" date in Convergence (CO): No

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator			

RESULTS MATRIX

Specific Development Objectives

Specific Development Objectives Nbr. 0: Reduction in electricity consumption from public lighting sectors with EE projects financed by the program

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year		2017	2018	2019	2020	2021	2022	2023	EOP 2023
0.0	Electricity saved by EE applications, measures & programs	GWh/year	0	2016	P	4	6	11.3	11.3	11.3	11.3	11.3	66.5
					A	-	3	3.5	-	15.3	-	-	21.8

Details

Means of Verification: Report from CDB based on utility sales reports

Observations:

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

Specific Development Objectives Nbr. 1: Reduction in imports of fossil fuels for electricity generation in ECC due to EE projects financed at any stage by the program.

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year		2017	2018	2019	2020	2021	2022	2023	EOP 2023
1.0	Reduction in imports of fossil fuels for electricity generation	Thousand barrels of oil	0	2016	P	6.5	9.7	18.3	18.3	18.3	18.3	18.3	107.7
					A	-	4.9	6	-	24.3	-	-	35.2

Details

Means of Verification: Executing Agency (EA)

Observations: Estimation based on efficiency levels and number of retrofitted lamps; to be provided by the Executing Agency (EA) based on information from governments and utilities in ECC. Final calculations to be checked with the utilities and the governments in the ECC (ex-post CBA)

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

Specific Development Objectives Nbr. 11: GEF Performance Ratings

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year		2017	2018	2019	2020	2021	2022	2023	EOP 2023
11.0	Rating of Likelihood of Achieving Project Global Environmental Objective (DO) (Scale: 1 - 6, where 1 = Highly Satisfactory [HS] and 6 = Highly Unsatisfactory [HU])	#	0	2015	P	-	-	-	-	-	-	-	-
					A	1	1	1	-	1	-	-	-

Details

Means of Verification: SAPR from CDB

Observations: The Team Leader will establish the corresponding ranking based on the SAPR

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

	Indicator	Unit of Measure	Baseline	Baseline Year		2017	2018	2019	2020	2021	2022	2023	EOP 2023
11.2	Rating of Implementation Progress (IP) (Scale: 1 - 6, where 1 = Highly Satisfactory [HS] and 6 = Highly Unsatisfactory [HU])	#	0	2015	P	-	-	-	-	-	-	-	-
					A	1	1	1	-	1	-	-	-

Details

Means of Verification: SAPR from CDB

Observations: The Team Leader will establish the corresponding ranking based on the SAPR

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	
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Specific Development Objectives Nbr. 5: GHG emissions avoided by geothermal projects financed at any stage by the program

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year		2017	2018	2019	2020	2021	2022	2023	EOP 2023
5.0	GHG emissions avoided due to RE projects	ktCO2e/yr	0	2016	P	-	-	-	310.2	310.2	310.2	310.2	1,240.9
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: IDB estimations

Observations: IDB estimations made following IDB methodology, based on installed capacity, electricity generation, and an average conversion factor (ex-post CBA).

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

Specific Development Objectives Nbr. 6: Reduction in imports of fossil fuels for electricity generation in ECC with geothermal projects financed at any stage by the program

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year		2017	2018	2019	2020	2021	2022	2023	EOP 2023
6.0	Reduction in imports of fossil fuels for electricity generation	Thousand barrels of oil	0	2016	P	-	-	-	662	662	662	662	2,648
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: IDB estimations

Observations: IDB estimations based on estimated installed capacity and electricity generation to be provided in EA reports based on information from governments and utilities in ECC. Final calculations to be checked with the utilities and the governments in the ECC (ex-post CBA).

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

Specific Development Objectives Nbr. 7: Geothermal power generation capacity installed in projects facilitated or financed at some stage by the program

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year		2017	2018	2019	2020	2021	2022	2023	EOP 2023
7.0	MW of geothermal capacity	MW	0	2016	P	-	-	-	-	-	-	55	55
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: Report from CDB.

Observations: Estimations of expected installed capacity based on quality of resource confirmed once exploration wells are drilled

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	2.22 Installed power generation capacity from renewable sources (MW) (C)

Specific Development Objectives Nbr. 8: Geothermal projects financed at any stage by the program that moved on from early exploration to production drilling or from early exploration or production drilling to construction of plants and/or electricity generation

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year		2017	2018	2019	2020	2021	2022	2023	EOP 2023
8.0	Number of GE projects financed that moved to the following stage of development	Number of GE projects	0	2016	P	-	1	1	1	1	-	-	4
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: Reports from the CDB

Observations: Report from CDB with information from ECC and private project sponsors

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

Specific Development Objectives Nbr. 9: Women participate in consultation processes related to GE projects

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year		2017	2018	2019	2020	2021	2022	2023	EOP 2023
9.0	% of women who participate in consultations	%	0	2016	P	-	-	-	-	-	-	-	45
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: Reports from the CDB

Observations: Reports from the CDB based on information from governments and private project sponsors (Measured as an average of individual GE sub-projects at the end of the program).

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

RESULTS MATRIX

OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

Component Nbr. 1 Component I - Energy Efficiency

				PHYSICAL PROGRESS		FINANCIAL PROGRESS	
	Output	Unit of Measure		2021	EOP 2023	2021	EOP 2023
1.01	Funding operations provided for EE projects	Number of funding operations approved by CDB's Board	P	-	3	-	13,000,000
			P (a)	1	4	1,300,000	16,250,000
			A	-	4	1,030,000	9,880,000

Component Nbr. 2 Component II - Reg. framework, inst. strengthening and capacity building

				PHYSICAL PROGRESS		FINANCIAL PROGRESS	
	Output	Unit of Measure		2021	EOP 2023	2021	EOP 2023
2.01	Studies to support energy policy reform, regulation and implementation of renewable energy and energy efficiency projects in the ECC	Number of studies completed	P	-	3	-	1,942,828.53
			P (a)	1	3	200,000	641,000
			A	-	3	-	485,180
2.02	Training and capacity building interventions for the EA, SPVs, and/or government employees	Number of interventions completed	P	-	8	-	1,032,640.8
			P (a)	1	8	108,820	1,292,000
			A	-	8	423,000	1,238,000

Component Nbr. 3 Component III - Intermittent RE and GE

				PHYSICAL PROGRESS		FINANCIAL PROGRESS	
	Output	Unit of Measure		2021	EOP 2023	2021	EOP 2023
3.01	Funding operations for GE projects	Number of funding operations approved by CDB's Board	P	-	3	6,866,911.76	44,050,000
			P (a)	1	6	2,000,000	35,490,998
			A	-	2	-	22,710,998
3.02	Number of loans for transmission and distribution projects	Number of loans approved by CDB's Board	P	-	1	-	10,000,000
			P (a)	-	2	-	8,016,000
			A	-	1	-	8,016,000
3.03	Funding operations for intermittent RE projects	Number of funding operations approved by CDB's Board	P	-	1	-	1,024,720.66
			P (a)	-	2	200,000	1,173,000
			A	-	2	233,000	918,000

Other Cost

	Project Management	P		143,508
		P (a)	47,836	0
		A	0	0
	Monitoring and evaluation RG-L1071	P	24,375	305,000
		P (a)	0	200,000
		A	9,000	59,000

Total Cost

	Total Cost	P	6,891,286.76	71,498,697.99
		P (a)	3,856,656	63,062,998
		A	1,695,000	43,307,178

CHANGES TO THE MATRIX					
Section	Name	Type of Change	Sub type	Modified By	Entered in System
Output	Funding operations for GE projects	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	ROCHELLEF	3/16/2022
			Modify Physical EOP P(a) value - caused by a change in the Physical P(a).	ROCHELLEF	3/16/2022
	Funding operations for intermittent RE projects	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	ROCHELLEF	3/22/2022
	Funding operations provided for EE projects	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	ROCHELLEF	3/16/2022
	Number of loans for transmission and distribution projects	Modify Output	Modify Physical EOP P(a) value - caused by a change in the Physical P(a).	ROCHELLEF	3/16/2022
	Studies to support energy policy reform, regulation and implementation of renewable energy and energy efficiency projects in the ECC	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	ROCHELLEF	3/16/2022
	Training and capacity building interventions for the EA, SPVs, and/or government employees	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	ROCHELLEF	3/16/2022

RISKS AND PLANNED RESPONSES

Risk ID	Risk Status		Risk Taxonomy
3	Active		Technical Design
	Response Actions		
	3.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
4	Active		Technical Design
	Response Actions		
	4.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy		
5	Active		Political Environment		
	Response Actions				
	5.0	Management Strategy		Status	
		-			

Risk ID	Risk Status		Risk Taxonomy		
6	Active		Political Environment		
	Response Actions				
	6.0	Management Strategy		Status	
		-			

Risk ID	Risk Status		Risk Taxonomy
10	Active		Economic and Financial Environment
	Response Actions		
	10.0	Management Strategy	Status
		-	

Risk ID	Risk Status		Risk Taxonomy
12	Active		Economic and Financial Environment
	Response Actions		
	12.0	Management Strategy	Status
		-	

Risk ID	Risk Status		Risk Taxonomy
15	Active		Technical Design
	Response Actions		
	15.0	Management Strategy	Status
		-	

Risk ID	Risk Status		Risk Taxonomy
16	Active		Technical Design
	Response Actions		
	16.0	Management Strategy	Status
		-	

Risk ID	Risk Status		Risk Taxonomy
18	Active		Technical Design
	Response Actions		
	18.0	Management Strategy	Status
		-	

Risk ID	Risk Status		Risk Taxonomy
19	Active		Technical Design
	Response Actions		
	19.0	Management Strategy	Status
		-	

Risk ID	Risk Status		Risk Taxonomy
22	Active		Institutional Environment
	Response Actions		
	22.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
24	Active		Institutional Environment
	Response Actions		
	24.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy		
25	Active		Institutional Environment		
	Response Actions				
	25.0	Management Strategy		Status	
		-			

Risk ID	Risk Status		Risk Taxonomy		
28	Active		Institutional Environment		
	Response Actions				
	28.0	Management Strategy		Status	
		-			

Risk ID	Risk Status		Risk Taxonomy
30	Active		Environmental and Social Safeguards
	Response Actions		
	30.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
32	Active		Environmental and Social Safeguards
	Response Actions		
	32.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
33	Active		Legal Environment
	Response Actions		
	33.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
34	Active		Legal Environment
	Response Actions		
	34.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
35	Active		Legal Environment
	Response Actions		
	35.0	Management Strategy	Status
		-	

Risk ID	Risk Status		Risk Taxonomy
36	Active		Legal Environment
	Response Actions		
	36.0	Management Strategy	Status
		-	

IMPLEMENTATION STATUS AND LEARNING

Lesson Learned - Categories
Intra/Inter Coordination