

PMR Operational Report

Operation Number	RG-L1071	Chief of Operations Validation Date	10/18/18
Year- PMR Cycle	First period Jan-Jun 2018	Division Chief Validation Date	
Last Update	10/15/18	Country Representative Validation Date	
PMR Validation Stage	Validated by Chief of Operations		

Basic Data

Operation Profile

Operation Name	Sustainable Energy Facility (SEF) for the Eastern Caribbean	Loan Number	3561/OC-RG
Executing Agency	CARIBBEAN DEVELOPMENT BANK	Sector/Subsector	EN-INT - ENERGY-ENERGY INTEGRATION
Team Leader	GISCHLER BLANCO, CHRISTIAAN	Overall Stage	Disbursing (From eligibility until all the Operations are closed)
Operation Type	Loan Operation	Country	REGIONAL
Lending Instrument	Investment Loan	Convergence related Operation(s)	RG-G1004, RG-G1009
Borrower	CARIBBEAN DEVELOPMENT BANK		

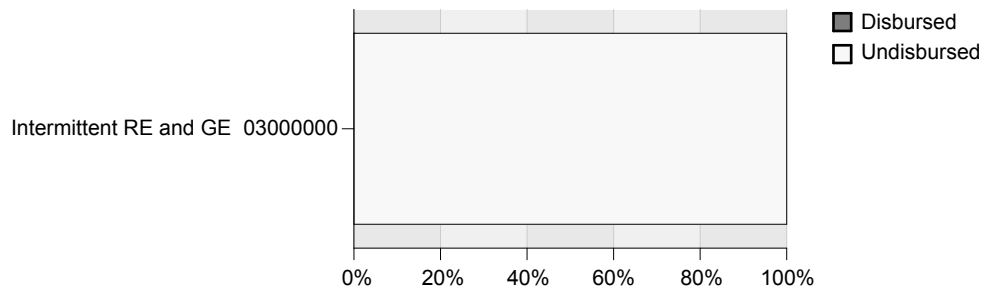
Environmental and Social Safeguards

Impacts Category	B13	Was/Were the objective(s) of this operation reformulated?	NO
Safeguard Performance Rating		Date of approval	
Safeguard Performance Rating - Rationale			

Financial Data

Item	Total Cost and Source					Available Funds (US\$)			
	Original IDB	Current IDB	Local Counterpart	Co-Financing / Country	Total Original Cost	Current IDB	Disb. Amount to Date	% Disb	Undisbursed Amount
RG-G1004	3,013,698	3,013,698	0	0	3,013,698	3,013,698	346,000	11.48%	2,667,698
RG-G1009	19,050,000	19,050,000	0	0	19,050,000	19,050,000	0	0.00%	19,050,000
RG-L1071	20,000,000	20,000,000	29,435,000	0	49,435,000	20,000,000	4,721,000	23.60%	15,279,000
Aggregated	42,063,698	42,063,698	29,435,000	0	71,498,698	42,063,698	5,067,000	12.05%	36,996,698

Expense Categories by Loan Contract (cumulative values)



Please note that the Overall Stage represents the stage of the operation at the time of this report's publication, which might not necessarily match the stage of the operation during the PMR Cycle to which the report pertains. Please also 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.

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IMPACTS

Impact Nbr. 0: Define impact statement

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year		2023	EOP 2023
0.0	Average electricity tariff for customers in ECC	US\$/KWh	0.33	2015	P		0.30
					P(a)		0.30
					A		

Details

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

Pro-Gender No **Pro-Ethnicity** No

Indicator		Unit of Measure	Baseline	Baseline Year		2023	EOP 2023
0.1	Regional penetration of indigenous renewable energy sources for power generation within the ECC	%	0.00	2016	P		30.00
					P(a)		30.00
					A		

Details

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

Pro-Gender No **Pro-Ethnicity** No

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OUTCOMES

Outcome 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	0.00	2016	P	4.00	6.00	11.30	11.30	11.30	11.30	11.30	66.50
					P(a)	4.00	6.00	11.30	11.30	11.30	11.30	11.30	62.50
					A								0.00
Details													
Means of verification: Report from CDB based on utility sales reports													
Pro-Gender		No		Pro-Ethnicity		No							

Outcome 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	0.00	2016	P	6.50	9.70	18.30	18.30	18.30	18.30	18.30	107.70
					P(a)	6.50	9.70	18.30	18.30	18.30	18.30	18.30	101.20
					A								0.00
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)													
Pro-Gender		No			Pro-Ethnicity			No					

Outcome Nbr. 2: Greenhouse Gas (GHG) emissions avoided by 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
2.0	GHG emissions avoided due to EE projects	ktCO2e/yr	0.00	2016	P	3.00	4.50	8.60	8.60	8.60	8.60	8.60	50.40
					P(a)	3.00	4.50	8.60	8.60	8.60	8.60	50.40	
					A								
Details													
Means of verification: IDB methodology													
Observations: IDB estimations made following IDB methodology, based on number of lamps installed, efficiency levels of lamps, and an average conversion factor (ex-post CBA)													
Pro-Gender		No			Pro-Ethnicity			No					

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Outcome Nbr. 3: ECC with legal and regulatory frameworks that enable Geothermal Energy (GE) development

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year		2017	2018	2019	2020	2021	2022	2023	EOP 2023
3.0	# countries that have GE legal and regulatory frameworks	# countries	1.00	2015	P		1.00	1.00					3.00
					P(a)		1.00	1.00				3.00	
					A								
Details													
Means of verification: Report from CDB													
Pro-Gender		No	Pro-Ethnicity		No								

Outcome Nbr. 4: Women trained in construction, operation and/or maintenance of RE and EE infrastructure and projects

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year		2017	2018	2019	2020	2021	2022	2023	EOP 2023
4.0	Women trained in the field of SE out of the total number of people trained using Program resources	%	0.00	2016	P								25.00
					P(a)							25.00	
					A								
Details													
Means of verification: Report from 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													
Pro-Gender		No	Pro-Ethnicity		No								

Outcome 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	0.00	2016	P				310.20	310.20	310.20	310.20	1,240.90
					P(a)				310.20	310.20	310.20	310.20	1,240.90
					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).													
Pro-Gender		No			Pro-Ethnicity			No					

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OUTCOMES

Outcome 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	0.00	2016	P				662.00	662.00	662.00	662.00	2,648.00
					P(a)				662.00	662.00	662.00	662.00	2,648.00
					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).													
Pro-Gender		No			Pro-Ethnicity			No					

Outcome 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	0.00	2016	P							55.00	55.00
					P(a)						55.00	55.00	
					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													
Pro-Gender		No		Pro-Ethnicity		No							

Outcome 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	0.00	2016	P		1.00	1.00	1.00	1.00			4.00
					P(a)		1.00	1.00	1.00	1.00			4.00
					A								
Details													
Means of verification: Reports from the CDB													

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OUTCOMES

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

Pro-Gender	No	Pro-Ethnicity	No
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Outcome 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	%	0.00	2016	P								45.00
					P(a)								45.00
					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).

Pro-Gender	No	Pro-Ethnicity	No
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RESULTS MATRIX

OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

Component Nbr. 1 Component I - Energy Efficiency

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2018	EOP 2023	2018	EOP 2023
1.1	Funding operations provided for EE projects	Number of funding operations a	P	1	3	7,440,000	13,000,000
			P(a)	1	6	4,305,000	26,122,000
			A	0	3	1,400,000	1,400,000

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

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2018	EOP 2023	2018	EOP 2023
2.1	Studies to support energy policy reform, regulation and implementation of renewable energy and energy efficiency projects in the ECC	Number of studies completed	P	1	3	647,609.51	1,942,828.53
			P(a)	1	3	300,000	2,360,479
			A	1	2		165,000
2.2	Training and capacity building interventions for the EA, SPVs, and/or government employees	Number of interventions comple	P	2	8	258,160.2	1,032,640.8
			P(a)	1	6	150,000	805,020
			A	2	3	67,000	92,000

Component Nbr. 3 Component III - Intermittent RE and GE

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2018	EOP 2023	2018	EOP 2023
3.1	Funding operations for GE projects	Number of funding operations a	P		3	9,275,000	44,050,000
			P(a)	0	3	5,300,000	38,192,000
			A	0	1	5,658,000	5,658,000
3.2	Number of loans for transmission and distribution projects	Number of loans approved by CD	P		1		10,000,000
			P(a)	1	1	3,516,000	8,016,000
			A	1	1		0
3.3	Funding operations for intermittent RE projects	Number of funding operations a	P		1	512,360.33	1,024,720.66
			P(a)	0	1	130,000	1,078,000
			A	0	1		0

Other Cost

Project Management		P			28,701.6	143,508
		P(a)			53,077	232,356
		A				0
Monitoring and evaluation RG-L1071		P			64,375	305,000
		P(a)			40,000	110,000
		A				0

Total Cost

Total Cost		P			18,226,206.64	71,498,697.99
		P(a)			13,794,077	76,915,855
		A			7,125,000	7,315,000

CHANGES TO THE MATRIX

No information available for this section