

Operation Number: F

RG-L1071

First period Jan-Jun 2016

Year- PMR Cycle: Last Update:

10/20/2016

PMR Validation Stage: Validated by Chief of Operations

Chief of Operations validation date:

Division Chief validation date:

Country Representative validation date:

Inter-American Development Bank - IDB Office of Strategic Planning and Development Effectiveness

Operation Profile

Basic Data

Operation name:	Sustainable Energy Facility (SEF) for the Eastern Caribbean	Loan Number:	3561/OC-RG
Executing Agency (EA):	CARIBBEAN DEVELOPMENT BANK		
Team Leader:	Gischler Blanco, Christiaan	Sector/Subsector:	ENERGY INTEGRATION
Operation Type:	Loan Operation	Overall Stage:	Disbursing (From eligibility until all the Operations are closed)
Lending Instrument:	Investment Loan	Country:	REGIONAL
Borrower:	CARIBBEAN DEVELOPMENT BANK	Convergence related Operation(s):	

Total Cost and Source

Available Funds (US\$)

10/21/2016

	Original IDB	Current Active IDB	Local Counterpart	Co-Financing/Country	Total operation cost - Original Estimate		Current IDB	Disb. Amount to Date	% Disbursed	Undisbursed Balance
RG-L1071	\$20,000,000.00	\$20,000,000.00	\$29,435,000.00		\$49,435,000.00	RG-L1071	\$20,000,000.00	\$0.00	0.00%	\$20,000,000.00

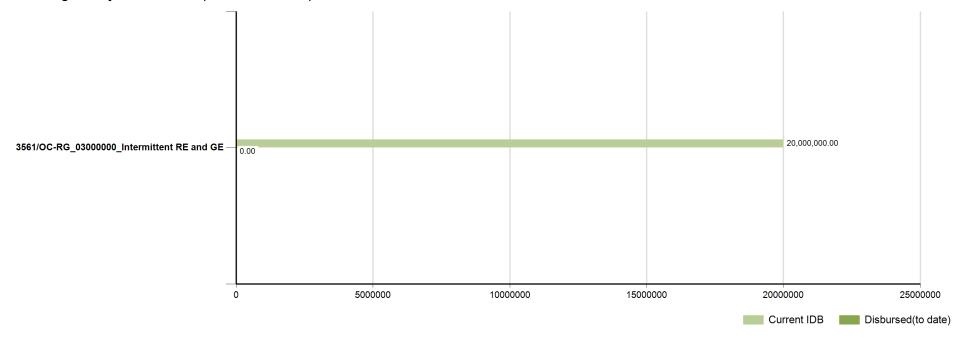
Environmental and Social Safeguards

	Main Operation
Impacts Category:	B13
Safeguard Performance Rating:	
Safeguard Performance Rating - Rationale:	

Reformulation Information

	Main Operation
Was/Were the objective(s) of this operation reformulated?	NO
Date of approval:	

Expense Categories by Loan Contract (cumulative values)



Results Matrix

Impacts

Impact:	0 Define impa	ct statement								
Observation:										
Indic	ators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations		2023	ЕОР
0.0 Average elec						Measures the		Р		0.30
customers in EC	С					average electricity tariff		P(a)		0.30
			US\$/KWh	0.33	2015	in the 6 ECC		Α		
						covered by the program.				
0.1 Regional per						Measures the		Р		30.00
indigenous renev						average electricity tariff		P(a)		30.00
within the ECC	urces for power generation hin the ECC	%	0.00	2016	in the 6 ECC		Α			
						covered by the program.				

RF - Contribution

RF - Alignment

RF - Strategic Alignment

RF - Strategic Alignment during Execution

SI - Sector Indicator

CI - Country Indicator

PG - Pro-Gender PE - Pro-Ethnicity

Outcomes

Outco 1 Reduction in electricity consumption from public lighting sectors with EE projects financed by the program

Observ

ation:

Indicators	Flags*	Unit of Measure	Baseline	Baselin e Year	Means of verificatio	Observ ations		2017	2018	2019	2020	2021	2022	2023	EOP
1.0 Electricity saved by EE		GWh/year	0.00	2016	Report from CDB		P P(a)	4.00 4.00	6.00 6.00	11.30 11.30	11.30 11.30	11.30 11.30	11.30 11.30	11.30 11.30	66.50 66.50
applications, measures & programs		Gwnyear	0.00	2016	based on utility sales reports		Α								0.00

Outco me:

Outco 2 Reduction in imports of fossil fuels for electricity generation in ECC due to EE projects financed at any stage by the program.

Observ ation:

Indicators	Flags*	Unit of Measure	Baseline	Baselin e Year	Means of verificatio n	Observ ations		2017	2018	2019	2020	2021	2022	2023	EOP
2.0 Reduction in imports of fossil fuels for electricity						Estimati on based on	P P(a) A	6.50 6.50	9.70 9.70	18.30 18.30	18.30 18.30	18.30 18.30	18.30 18.30	18.30 18.30	107.70 107.70 0.00
generation Outco 3 Gree		Thousand barrels of oil	0.00	2016	Executing Agency (EA)	efficienc y levels and number of retrofitte d lamps; to be provided by the Executin g Agency (EA) based on informati on from governm ents and utilities in ECC. Final calculati ons to be checked with the utilities and the governm ents in the ECC (ex-post CBA)									

Observ ation:

Indicators	Flags*	Unit of Measure	Baseline	Baselin e Year	verificatio	Observ ations		2017	2018	2019	2020	2021	2022	2023	EOP
3.0 GHG emissions avoided due to EE projects	riags*	Measure ktCO2e/yr	0.00	e Year 2016	IDB methodolo gy	ations IDB estimati ons made following IDB methodo logy, based on number of lamps installed , efficienc y levels of lamps, and an average conversi on factor (ex-post CBA)	P P(a) A	3.00	4.50 4.50	8.60 8.60	8.60 8.60	8.60 8.60	8.60 8.60	8.60 8.60	50.40 50.40

me:

Outco 4 ECC with legal and regulatory frameworks that enable Geothermal Energy (GE) development

Observ

ation:

Indicators	Flags*	Unit of Measure	Baseline	Baselin e Year	Means of verification	Observ ations		2017	2018	2019	2020	2021	2022	2023	ЕОР
4.0 # countries							Р		1.00	1.00					3.00
that have GE		# countries	1.00	2015	Report		P(a)		1.00	1.00					3.00
legal and regulatory	# countries 1.00	2015	from CDB		Α										
frameworks															

me:

Outco 5 Women trained in construction, operation and/or maintenance of RE and EE infrastructure and projects

Observ ation:

Indicators	Flags*	Unit of Measure	Baseline	Baselin e Year	Means of verificatio n	Observ ations		2017	2018	2019	2020	2021	2022	2023	EOP
5.0 Women trained in the field of SE out of the total number of people trained using Program resources		%	0.00	2016	Report	Reports from the CDB based on informati on from governm ents and private project sponsor s. Measure d as an average of individu al GE sub-projects at the	P P(a) A								25.00 25.00
						end of the program									

me:

Outco 6 GHG emissions avoided by geothermal projects financed at any stage by the program

Observ ation:

Indicators	Flags*	Unit of Measure	Baseline	Baselin e Year	Means of verification	Observ ations	2017	2018	2019	2020	2021	2022	2023	EOP
6.0 GHG emissions avoided due to RE projects		ktCO2e/yr	0.00	2016	IDB	IDB estimati ons made following IDB methodo logy, based on installed capacity, electricit y generati on, and	P P(a) A			310.20 310.20	310.20 310.20	310.20 310.20	310.20 310.20	1,240.90 1,240.90
						an average conversi on factor (ex-post CBA).								

me:

Outco 7 Reduction in imports of fossil fuels for electricity generation in ECC with geothermal projects financed at any stage by the program

Observ

ation:

Indicators	Flags*	Unit of Measure	Baseline	Baselin e Year	Means of verification	Observ ations	2017	2018	2019	2020	2021	2022	2023	EOP
7.0 Reduction in imports of fossil fuels for electricity generation		Thousand barrels of oil	0.00	2016	IDB estimations	IDB estimations based on estimate d 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).	P P(a) A			662.00 662.00	662.00 662.00	662.00 662.00	662.00 662.00	2,648.00 2,648.00

me:

Outco 8 Geothermal power generation capacity installed in projects facilitated or financed at some stage by the program

Observ

Indicators	Flags*	Unit of Measure	Baseline	Baselin e Year	verilleallo	Observ ations	2017	2018	2019	2020	2021	2022	2023	EOP
8.0 MW of geothermal capacity		Measure	0.00	e Year 2016	Report from CDB.	Estimations of expected installed capacity based on quality of resource confirmed once exploration wells	P P(a) A						55.00 55.00	55.00 55.00

Outco Poutco 9 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

Indicators	Flags*	Unit of Measure	Baseline	Baselin e Year	Means of verificatio n	Observ ations		2017	2018	2019	2020	2021	2022	2023	EOP
0.0 Number of GE projects nanced that noved to the				2016	Reports from the CDB	Report from CDB with	P P(a)		1.00	1.00	1.00	1.00			4.00 4.00
moved to the following stage of development		Number of GE projects	0.00			informati on from ECC and private project sponsor s									
Outco 10 Wo	men partici	oate in cons	sultation pro	cesses r	elated to GI	E projects	;								
Observ															
Indicators	Flags*	Unit of Measure	Baseline	Baselin e Year	Means of verification	Observ ations		2017	2018	2019	2020	2021	2022	2023	EOP
10.0 % of women who participate in consultations		_			Reports	Reports from the CDB based	P P(a) A								45.00 45.00
						on informati on from governm ents and private project sponsor s									
	%	0.00	2016	from the CDB	(Measur ed as an average of individu al GE sub-projects at the										
						end of the program									

PG - Pro-Gender

PE - Pro-Ethnicity

CI - Country Indicator

SI - Sector Indicator

Outputs: Annual Physical and Financial Progress

Component I - Energy Efficiency	Physical Progress				Financial Pi	ogress		
Outputs	Unit of Measure		2016	EOP		2016	EOP	
Funding operations provided for EE	Number of funding	Р	1.00	3.00	Р		13,000,000.00	
projects	operations	P(a)	1.00	3.00	P(a)		13,000,000.00	
	approved by CDB's Board	Α	0.00	0.00	Α		0.00	
Component II - Reg. framework, inst. capacity building	strengthening and	Physical Progress				Financial Progress		
Outputs	Unit of Measure		2016	EOP		2016	EOP	
Studies to support energy policy	Number of studies	Р		3.00	Р		1,942,828.53	
reform, regulation and implementation	completed	P(a)		3.00	P(a)		1,942,828.53	
of renewable energy and energy efficiency projects in the ECC		Α		0.00	Α		0.00	
Training and capacity building	Number of	Р		8.00	Р		1,032,640.80	
interventions for the EA, SPVs, and/or	interventions	P(a)		8.00	P(a)		1,032,640.80	
government employees	completed	Α		0.00	Α		0.00	
Component III - Intermittent RE and C	SE .	Physical Progress				Financial Progress		
Outputs	Unit of Measure		2016	EOP		2016	EOP	
Funding operations for GE projects	Number of funding operations approved by CDB's Board	Р	1.00	3.00	Р		44,050,000.00	
		P(a)	1.00	3.00	P(a)		44,050,000.00	
		Α	0.00	0.00	Α		0.00	
Number of loans for transmission and	Number of loans	Р		1.00	Р		10,000,000.00	
distribution projects	approved by CDB's	P(a)		1.00	P(a)		10,000,000.00	
	Board	Α		0.00	Α		0.00	
Funding operations for intermittent RE	Number of funding	Р		1.00	Р		1,024,720.66	
projects	operations approved by CDB's	P(a)		1.00	P(a)		1,024,720.66	
	Board Board	Α		0.00	Α		0.00	
Other Cost					2	016	Cost	
Project Management			Р		\$28,701.60	\$143,508.0		
			P(a)		\$28,701.60	\$143,508.0		
			Α			\$0.0		
Monitoring and evaluation RG-L1071			Р	\$24,375.00		\$305,000.0		
			P(a)		\$24,375.00	\$305,000.		
				Α			\$0.0	
Total Cost					2	016	Total Cost	
				Р		\$53,076.60	\$71,498,697.99	
				P(a)		\$53,076.60	\$71,498,697.99	
				A				

Changes to the Matrix

No information related to this operation.

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.