

# PMR Public Report

<b>Operation Number</b>	RG-L1112	<b>Chief of Operations Validation Date</b>	10/21/21
<b>Year- PMR Cycle</b>	First period Jan-Jun 2021	<b>Division Chief Validation Date</b>	
<b>Last Update</b>	10/06/21	<b>Country Representative Validation Date</b>	
<b>PMR Validation Stage</b>	Validated by Chief of Operations		

## Basic Data

### Operation Profile

<b>Operation Name</b>	Sustainable Energy Facility (SEF) for the Eastern Caribbean EXPANDED - (SEF EXPANDED)	<b>Loan Number</b>	4712/GN-RG
<b>Executing Agency</b>	CARIBBEAN DEVELOPMENT BANK	<b>Sector/Subsector</b>	ENERGY-ENERGY INSTITUTIONAL STRENGTHENING AND CAPACITY BUILDING
<b>Team Leader</b>	GISCHLER BLANCO, CHRISTIAAN	<b>Overall Stage</b>	Disbursing (From eligibility until all the Operations are closed)
<b>Operation Type</b>	Loan Operation	<b>Country</b>	Regional
<b>Lending Instrument</b>	Investment Loan	<b>Convergence related Operation(s)</b>	RG-G1013
<b>Borrower</b>	CARIBBEAN DEVELOPMENT BANK		

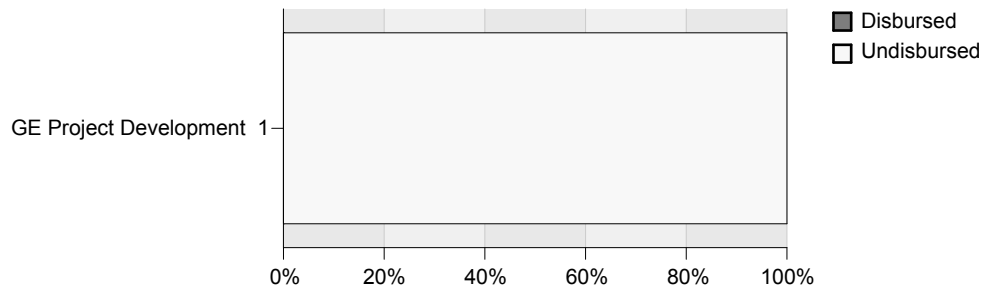
## Environmental and Social Safeguards

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

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-G1013	0	20,000,000	0	0	20,000,000	20,000,000	2,000,000	10.00%	18,000,000
RG-L1112	60,000,000	60,000,000	0	0	60,000,000	60,000,000	0	0.00%	60,000,000
<b>Aggregated</b>	<b>60,000,000</b>	<b>80,000,000</b>	<b>0</b>	<b>0</b>	<b>80,000,000</b>	<b>80,000,000</b>	<b>2,000,000</b>	<b>2.50%</b>	<b>78,000,000</b>

## 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.

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### RESULTS MATRIX

#### General Development Objectives

**General Development Objectives Nbr. 1:** Financing from other sources (e.g. commercial banks, private equity) leveraged by this program

**Observation:**

	Indicator	Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement		Target
1.0	Financing from other sources leveraged by this program	US\$ millions	15.00	2015	2026	P	535.00
						A	

#### Details

**Means of verification:** Execution reports showing information on private finance finally leveraged in projects under the programme.

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

The General Development  
bjective indicator target is  
expected to be observed by  
the operation's "Fully  
Justified" date  
in Convergence (CO)

**General Development Objectives Nbr. 2:** Imports of fossil fuels for electricity generation avoided by geothermal projects in the ECC

**Observation:**

	Indicator	Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement		Target
2.0	Imports of fossil fuels for electricity generation avoided by geothermal projects in the ECC	Thousand barrels of oil	0.00	2015	2026	P	722.00
						A	

#### Details

**Means of verification:** PCR

**Observations:** Reports on annual electricity produced by power plants under this project and consumption avoided by energy efficiency measures

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

The General Development  
bjective indicator target is  
expected to be observed by  
the operation's "Fully  
Justified" date  
in Convergence (CO)

## PMR Public Report

### RESULTS MATRIX

#### General Development Objectives

**General Development Objectives Nbr. 3:** Greenhouse Gas (GHG) emissions avoided by geothermal projects in the ECC

**Observation:**

	Indicator	Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement		Target
3.0	GHG emissions avoided by geothermal projects in the ECC	ktCO2e/yr	0.00	2015	2026	P	313.40
						A	

#### Details

**Means of verification:** PCR

**Observations:** calculation based on energy generated or saved by geothermal power and heat generation

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

The General Development  
bjective indicator target is  
expected to be observed by  
the operation's "Fully  
Justified" date  
in Convergence (CO)

**General Development Objectives Nbr. 4:** Regional penetration of indigenous RE sources for power generation within the ECC

**Observation:**

	Indicator	Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement		Target
4.0	Regional penetration of indigenous RE sources for power generation within the ECC	%	10.00	2015	2026	P	0.30
						A	

#### Details

**Means of verification:** PCR

**Observations:** increased demand on non conventional renewable energy as a consequence of the programme

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

The General Development  
bjective indicator target is  
expected to be observed by  
the operation's "Fully  
Justified" date  
in Convergence (CO)

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### RESULTS MATRIX

#### General Development Objectives

**General Development Objectives Nbr. 5:** Average electricity tariff for customers in ECC

**Observation:**

	Indicator	Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement		Target
5.0	Average electricity tariff for customers in ECC	US\$/KWh	0.33	2015	2026	P	0.30
						A	

#### Details

**Means of verification:** Reports from national utilities

<b>Pro-Gender</b>	No	<b>Pro-Ethnicity</b>	No
<p>The General Development objective indicator target is expected to be observed by the operation's "Fully Justified" date in Convergence (CO)</p>			

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### RESULTS MATRIX

#### Specific Development Objectives

Specific Development Objectives Nbr. 1: Component 1. GE Project Development

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year		2019	2020	2021	2022	2023	2024	2025	2026	2027	EOP 2027
1.0	Geothermal power generation capacity installed in projects facilitated or financed at some stage by the program.	MW	0.00	2015	P										60.00
					A										
Details															
Means of verification: PCR and SAPR from PEU															
Pro-Gender		No				Pro-Ethnicity				No					

Indicator		Unit of Measure	Baseline	Baseline Year		2019	2020	2021	2022	2023	2024	2025	2026	2027	EOP 2027
1.2	Geothermal projects financed by the program with a power plant in construction or operation.	Number of GE projects	0.00	2015	P										5.00
					A										
Details															
Means of verification: PCR and SAPR from PEU															
Pro-Gender		No	Pro-Ethnicity			No									

Specific Development Objectives Nbr. 2: Component 2. Technical Assistance: Regulatory Framework, Institutional Strengthening and Capacity Building

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year		2019	2020	2021	2022	2023	2024	2025	2026	2027	EOP 2027
2.0	ECC with legal and regulatory frameworks that enable Geothermal Energy (GE) development implemented.	Number of countries	1.00	2015	P	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00		3.00
					A										
Details															
Means of verification: PCR and SAPR from PEU															
Pro-Gender		No				Pro-Ethnicity				No					

Indicator		Unit of Measure	Baseline	Baseline Year		2019	2020	2021	2022	2023	2024	2025	2026	2027	EOP 2027
2.2	Specialized advisory services provided to ECC to structure GE sub-projects and reach financial closing for the construction of power plants.	Number of countries	0.00	2019	P	0.00	0.00	0.00	1.00	2.00	0.00	0.00	0.00		3.00
					A										
Details															
Means of verification: PCR and SAPR from PEU															
Pro-Gender		No				Pro-Ethnicity				No					

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### RESULTS MATRIX

#### Specific Development Objectives

Indicator		Unit of Measure	Baseline	Baseline Year		2019	2020	2021	2022	2023	2024	2025	2026	2027	EOP 2027
2.3	Public institutions responsible for energy in the ECC trained in GE technical, financial, or regulatory aspects.	Number of institutions	0.00	2019	P	0.00	0.00	0.00	10.00	20.00	0.00	0.00	30.00		3.00
					A										
Details															
Means of verification: PCR and SAPR from PEU															
Pro-Gender		No				Pro-Ethnicity			No						
Indicator		Unit of Measure	Baseline	Baseline Year		2019	2020	2021	2022	2023	2024	2025	2026	2027	EOP 2027
2.4	Women trained in construction, operation and/or maintenance of Renewable Energy (RE) infrastructure and projects.	% of all persons trained	0.00	2019	P	0.00	0.00	0.00	13.00	22.00	0.00	0.00	35.00		35.00
					A										
Details															
Means of verification: PCR and SAPR from PEU															
Pro-Gender		No				Pro-Ethnicity			No						

## RESULTS MATRIX

## OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

## Component Nbr. 1 Component 1. GE Project Development

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2021	EOP 2027	2021	EOP 2027
1.1	Contingent Recovery Grants (CRG) provided to geothermal projects to complete exploratory drilling activities.	Number of CRG approved by CDB's Board	P	1	2	8,000,000	16,000,000
			P(a)	1	2	8,000,000	16,000,000
			A	0	0	0	0
1.2	Loans provided to geothermal projects at any stage of development with resources from the program.	Number of loans approved by CDB's Board	P	1	3	30,000,000	60,000,000
			P(a)	0	3	0	60,000,000
			A	0	0	0	0

## Component Nbr. 2 Component 2. Technical Assistance: Regulatory Framework, Institutional Strengthening and Capacity Building

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2021	EOP 2027	2021	EOP 2027
2.1	Technical assistance grants provided to governments in ECC with resources from the program.	Number of countries	P	1	5	350,000	1,750,000
			P(a)	1	5	350,000	1,750,000
			A	0	0	0	0
2.2	Specialized advisory services contracts awarded to strengthen CDB's capacity to implement the program.	Number of countries	P	1	6	375,000	2,250,000
			P(a)	1	6	375,000	2,250,000
			A	0	0	0	0

## Total Cost

	Total Cost	P			38,725,000	80,000,000
		P(a)			8,725,000	80,000,000
		A			0	0

**CHANGES TO THE MATRIX**

No information available for this section



## RISKS AND PLANNED RESPONSES

Risk ID	Risk Status		Risk Taxonomy
1	Active		Technical Design
	Response actions		
	1.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
2	Active		Institutional Environment
	Response actions		
	2.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
3	Active		Environmental and Social Safeguards
	Response actions		
	3.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
4	Active		Technical Design
	Response actions		
	4.0	Management Strategy	Status
		-	

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

## RISKS AND PLANNED RESPONSES

Risk ID	Risk Status		Risk Taxonomy
6	Active		Environmental and Social Safeguards
	Response actions		
	6.0	Management Strategy	Status
		-	
Risk ID	Risk Status		Risk Taxonomy
7	Active		Technical Design
	Response actions		
	7.0	Management Strategy	Status
		-	
Risk ID	Risk Status		Risk Taxonomy
8	Active		Institutional Environment
	Response actions		
	8.0	Management Strategy	Status
		-	

# PMR Public Report

## IMPLEMENTATION STATUS AND LEARNING

### Lesson Learned - Categories

Others - Dimensions Related to Public Processes/ Actors