

# PMR Public Report

<b>Operation Number</b>	BA-L1043	<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>	10/01/21	<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 Investment Program (SMART FUND II)	<b>Loan Number</b>	4865/OC-BA
<b>Executing Agency</b>	MINISTRY OF ENERGY AND WATER RESOURCES (MEWR)	<b>Sector/Subsector</b>	ENERGY
<b>Team Leader</b>	PRADO, VERONICA RODRIGUES DO	<b>Overall Stage</b>	Disbursing (From eligibility until all the Operations are closed)
<b>Operation Type</b>	Loan Operation	<b>Country</b>	Barbados
<b>Lending Instrument</b>	Investment Loan	<b>Convergence related Operation(s)</b>	BA-G1002
<b>Borrower</b>	BARBADOS		

## Environmental and Social Safeguards

<b>Impacts Category</b>	B	<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>	Based on the current stage of the operation, the EA complied with all requirements, and it is preparing with IDB support the next steps (pilot studies) to ensure compliance with IDB Policies. The PEU contracted authorized Contractor/Subcontractor to perform the management of the hazardous waste of the retrofit buildings and Air Condition replacements. Evidence of manifest of final disposal and reports are pending to be provided by the PEU to verify the information, and this has driven the performance rating to Partially Satisfactory.		

## 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
BA-G1002	0	15,463,142	0	0	15,463,142	15,463,142	0	0.00%	15,463,142
BA-L1043	30,000,000	30,000,000	0	0	30,000,000	30,000,000	0	0.00%	30,000,000
Aggregated	30,000,000	45,463,142	0	0	45,463,142	45,463,142	0	0.00%	45,463,142

## Expense Categories by Loan Contract (cumulative values)

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### RESULTS MATRIX

#### General Development Objectives

**General Development Objectives Nbr. 0:** To reduce Barbados' dependency on imported fossil fuels through the increased use of RE and EE technologies.

**Observation:** In terms of Frequency of Measurement, the Indicator will be verified at the end of Project execution (6 years) through the PEU Report

	Indicator	Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement		Target
0.0	Decrease in imported fossil fuels for electricity generation	# of barrel of oil	0.00	2018	2026	P	60,155.00
						A	

#### Details

**Means of verification:** PEU Report

**Observations:** This indicator will be calculated based on the annual electricity from grid avoided, with 10,200 kj/kWh, and 6,311,532 kj/barrel of oil. See M&E Plan

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

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

	Indicator	Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement		Target
0.1	Increase in RE generation installed	% MW	0.00	2018	2026	P	41.30
						A	

#### Details

**Means of verification:** PEU Report

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

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

## PMR Public Report

### RESULTS MATRIX

#### Specific Development Objectives

Specific Development Objectives Nbr. 0: Reduce Electricity Consumption by Implementing RE and EE Measures

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year		2021	2022	2023	2024	2025	2026	EOP 2026
0.1	Increase in Electricity saved due to EE measures (SMEs)	MWh	0.00	2018	P							8,505.00
					A							
Details												
Means of verification: PEU Report												
Pro-Gender		No	Pro-Ethnicity				No					
Indicator		Unit of Measure	Baseline	Baseline Year		2021	2022	2023	2024	2025	2026	EOP 2026
0.2	Increase in Electricity saved due to AC rebates	MWh	0.00	2018	P							1,034.00
					A							
Details												
Means of verification: PEU Report												
Pro-Gender		No	Pro-Ethnicity				No					
Indicator		Unit of Measure	Baseline	Baseline Year		2021	2022	2023	2024	2025	2026	EOP 2026
0.3	Increase in Electricity saved due to EE measures (Public Buildings)	MWh	0.00	2018	P							8,820.00
					A							
Details												
Means of verification: PEU Report												
Pro-Gender		No	Pro-Ethnicity				No					
Indicator		Unit of Measure	Baseline	Baseline Year		2021	2022	2023	2024	2025	2026	EOP 2026
0.3	Expansion of RE installed capacity (associated to SMEs)	MW	0.00	2018	P	0.00	0.07	0.18	0.32	0.46	0.62	0.62
					A							
Details												
Means of verification: PEU Report												
Pro-Gender		No	Pro-Ethnicity				No					
Indicator		Unit of Measure	Baseline	Baseline Year		2021	2022	2023	2024	2025	2026	EOP 2026

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### RESULTS MATRIX

#### Specific Development Objectives

0.4	Expansion of RE installed capacity (associated to Public Buildings and Electric Mobility)	MW	0.00	2018	P	0.00	0.00	2.43	6.49	8.52	10.55	10.55
					A							
Details												
Means of verification: PEU Report												
Pro-Gender		No		Pro-Ethnicity		No						

**Specific Development Objectives Nbr. 1:** Reduce GHG emissions from liquid fossil fuels used for Power Generation and Transport

**Observation:**

Indicator		Unit of Measure	Baseline	Baseline Year		2021	2022	2023	2024	2025	2026	EOP 2026
1.0	Increment in Electricity generated from RE sources (associated to SMEs)	MWh	0.00	2018	P							1,393.00
					A							
Details												
Means of verification: PEU Report												
Pro-Gender		No			Pro-Ethnicity			No				

Indicator		Unit of Measure	Baseline	Baseline Year		2021	2022	2023	2024	2025	2026	EOP 2026
1.1	Increment in electricity generated from RE sources (associated to Public Buildings and Electric Mobility)	MWh	0.00	2018	P							17,470.50
					A							
Details												
Means of verification: PEU Report												
Pro-Gender		No	Pro-Ethnicity		No							

Indicator		Unit of Measure	Baseline	Baseline Year		2021	2022	2023	2024	2025	2026	EOP 2026
1.2	Annual GHG Emissions avoided by the Program	tons CO2 eq.	0.00	2018	P	0.00	0.00	694.00	11,965.00	20,530.00	31,004.00	31,004.00
					A							
Details												
Means of verification: PEU Report												
Pro-Gender		No	Pro-Ethnicity		No							

**Specific Development Objectives Nbr. 2:** Increase Institutional Capacity for the Management of RE and EE programs

**Observation:**

Indicator		Unit of Measure	Baseline	Baseline Year		2021	2022	2023	2024	2025	2026	EOP 2026
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### RESULTS MATRIX

#### Specific Development Objectives

2.0	Local financial institutions lending for EE/RE projects	# institutions	0.00	2018	P							2.00
					A							
Details												
Means of verification: PEU Report												
Pro-Gender		No			Pro-Ethnicity			No				
Indicator		Unit of Measure	Baseline	Baseline Year		2021	2022	2023	2024	2025	2026	EOP 2026
2.2	Implementation of a plan for deployment of electric mobility	# plans	0.00	2018	P							1.00
					A							
Details												
Means of verification: PEU Report												
Pro-Gender		No			Pro-Ethnicity			No				
Indicator		Unit of Measure	Baseline	Baseline Year		2021	2022	2023	2024	2025	2026	EOP 2026
2.3	Young people empowered and trained to work on EE and RE	# persons	0.00	2018	P							80.00
					A							
Details												
Means of verification: PEU Report												
Pro-Gender		No			Pro-Ethnicity			No				
Indicator		Unit of Measure	Baseline	Baseline Year		2021	2022	2023	2024	2025	2026	EOP 2026
2.3	Private Sector funds to invest in RE and EE technologies (leverage)	US\$(000)	0.00	2018	P	0.00	0.00	92.00	276.00	369.00	461.00	461.00
					A							
Details												
Means of verification: PEU Report												
Pro-Gender		No			Pro-Ethnicity			No				

## RESULTS MATRIX

## OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

## Component Nbr. 1 Promoting EE and RE in Small and Medium Enterprises (SMEs)

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2021	EOP 2026	2021	EOP 2026
1.1	Pre-investment studies completed	# studies & pilots	P	5	80	48,942.17	783,074.74
			P(a)	5	80	48,942.17	783,074.74
			A	0	0	0	0
1.2	Credit line used in EE and RE projects	# loans	P	0	47	0	11,830,747.4
			P(a)	0	47	0	11,830,747.4
			A	0	0	0	0
1.3	A/C Rebate Facility completed	# rebates	P	0	1,000	0	500,000
			P(a)	0	1,000	0	500,000
			A	0	0	0	0

## Component Nbr. 2 Promoting EE and RE in Public Sector

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2021	EOP 2026	2021	EOP 2026
2.1	Pre-investment studies for Government programs EE and RE programs completed	# studies	P	0	40	14,636.36	800,000
			P(a)	0	40	14,636.36	800,000
			A	0	0	0	0
2.2	RE and EE retrofits in public buildings functioning	# retrofits	P	0	100	0	23,247,672.66
			P(a)	0	100	0	23,247,672.66
			A	0	0	0	0
2.3	Public buses with charging station systems implemented	# vehicles	P	0	10	2,022,499.99	3,300,000
			P(a)	0	10	2,022,499.99	3,300,000
			A	0	0	0	0
2.4	Public vehicles with charging station system implemented	# vehicles	P	0	10	0	1,032,298.96
			P(a)	0	10	0	1,032,298.96
			A	0	0	0	0

## Component Nbr. 3 Capacity Building and Institutional Support

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2021	EOP 2026	2021	EOP 2026
3.1	Communication campaigns to promote the use of EE and RE technologies in SMEs and public buildings completed	# campaigns	P	2	7	50,000	440,000
			P(a)	2	7	50,000	440,000
			A	0	0	0	0
3.2	Certifications and training program in EE & RE implemented	# persons	P	0	100	4,545.46	100,000
			P(a)	0	100	4,545.46	100,000
			A	0	0	0	0
3.3	Information system on gender for the sector implemented	# programs	P	0	1	0	100,000
			P(a)	0	1	0	100,000
			A	0	0	0	0
3.4	Young Apprentice Program created and implemented	# programs	P	0	1	0	100,000
			P(a)	0	1	0	100,000
			A	0	0	0	0
3.5	Comprehensive Studies on sustainable energy and energy transition in Barbados completed	# studies	P	0	4	200,000	646,149.48
			P(a)	0	4	200,000	646,149.48
			A	0	0	0	0

Other Cost

	Project Management and other Cost	P			443,416.2	2,280,000
		P(a)			443,416.2	2,280,000
		A			12,690	12,690
	Fees	P			303,198.86	303,198.86
		P(a)			303,198.86	303,198.86
		A			0	0

Total Cost

	Total Cost	P			3,087,239.04	45,463,142.1
		P(a)			3,087,239.04	45,463,142.1
		A			12,690	12,690

**CHANGES TO THE MATRIX**

No information available for this section



## RISKS AND PLANNED RESPONSES

Risk ID	Risk Status		Risk Taxonomy
1	Active		Internal Processes
	Response actions		
	1.1	Management Strategy	Status
		MITIGATE	ACTIVE
Risk ID	Risk Status		Risk Taxonomy
2	Active		Internal Processes
	Response actions		
	2.1	Management Strategy	Status
		MITIGATE	ACTIVE
Risk ID	Risk Status		Risk Taxonomy
3	Active		Goods, and Services
	Response actions		
	3.0	Management Strategy	Status
		-	

# PMR Public Report

## IMPLEMENTATION STATUS AND LEARNING

### Lesson Learned - Categories

Project Management Capacity