

PMR Public Report

Operation Number	BA-X1003	Chief of Operations Validation Date	04/09/21
Year- PMR Cycle	Second period Jan-Dec 2020	Division Chief Validation Date	04/25/21
Last Update	04/07/21	Country Representative Validation Date	05/07/21
PMR Validation Stage	Validated by Representative		

Basic Data

Operation Profile

Operation Name	Support for the Public Sector Smart Energy Program	Loan Number	ATN/EX-13316-BA
Executing Agency	MINISTRY OF ENERGY AND WATER RESOURCES (MEWR)	Sector/Subsector	ENERGY-ENERGY EFFICIENCY AND RENEWABLE ENERGY IN END USE
Team Leader	PRADO, VERONICA	Overall Stage	Disbursing (From eligibility until all the Operations are closed)
Operation Type	Investment Grants	Country	Barbados
Lending Instrument		Convergence related Operation(s)	BA-L1025
Borrower			

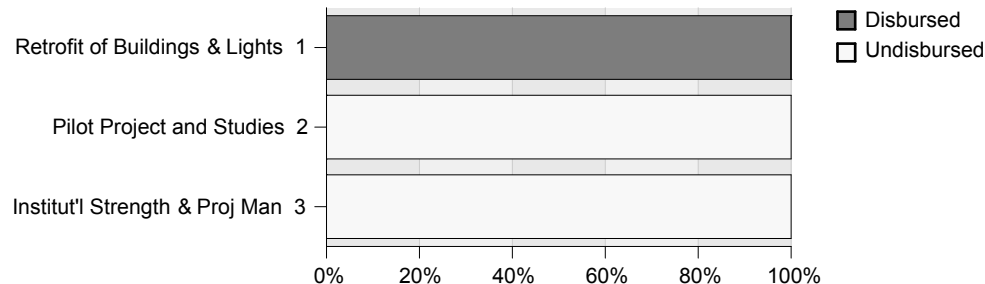
Environmental and Social Safeguards

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

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-L1025	17,000,000	17,000,000	0	7,664,000	24,664,000	17,000,000	13,864,863.92	81.56%	3,135,136.08
BA-X1003	0	7,029,515	0	0	5,810,000	7,029,515	5,476,630.76	77.91%	1,552,884.24
Aggregated	17,000,000	24,029,515	0	7,664,000	30,474,000	24,029,515	19,341,494.68	80.49%	4,688,020.32

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: PSSE Financial savings cumulative to date (real 2012 US\$).

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement		Target
1.1	PSSE Financial savings cumulative to date (real 2012 US\$).	US\$	0.00	2012	2021	P	11,284,963.00
						A	

Details

Means of verification: Power consumption Information provided by the Government and by the utility (BL&P)

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

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

General Development Objectives Nbr. 2: Avoided CO2 emissions by the PSSE Program (cumulative to date).

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement		Target
2.1	Avoided CO2 emissions by the PSSE Program (cumulative to date).	tCO2	0.00	2012	2021	P	32,528.00
						A	

Details

Means of verification: Reports prepared by Government of Barbados - Energy Division

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

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

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Specific Development Objectives

Specific Development Objectives Nbr. 1: RE capacity installed in government buildings

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year		2018	2020	2021	EOP 2021
1.1	Electricity Generated from Solar PV Systems (MWh/year, MWh to date generated).	MWh	0.00	2012	P				6,073.00
					A				
Details									
Means of verification: Reports prepared by Government of Barbados- Energy Division									
Observations: Assuming an output of 1,700/kW/year for solar PV. Note: this includes the 50kW PV system installed for charging the Electric Vehicles in Component 2.									
Pro-Gender		No			Pro-Ethnicity		No		

Specific Development Objectives Nbr. 2: Energy saving with EE technologies in public lighting and buildings

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year		2018	2020	2021	EOP 2021
2.1	Electricity Saved through retrofits (energy efficient public lights and energy efficient equipment in public buildings) (MWh/year, MWh to date saved).	MWh	0.00	2012	P				28,608.00
					A				
Details									
Means of verification: Reports prepared by Government of Barbados Energy Division									
Pro-Gender		No			Pro-Ethnicity		No		

Specific Development Objectives Nbr. 3: Fossil Fuels Saved from the implementation of the pilot projects (barrels of oil equivalent).

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year		2018	2020	2021	EOP 2021
3.1	Fossil Fuels Saved from the implementation of the pilot projects (barrels of oil equivalent).	barrels of oil	0.00	2012	P				240.00
					A				

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Specific Development Objectives

Details			
Means of verification: Reports prepared by Government of Barbados - Energy Division			
Pro-Gender	No	Pro-Ethnicity	No

Specific Development Objectives Nbr. 4: public awareness increased in public sector for RE and EE

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year		2018	2020	2021	EOP 2021
4.1	Percentage of survey respondents participating at events that report high awareness and support of sustainable energy practices (Number of respondents that answered ?high awareness and support of sustainable energy?/ Total number of survey res	%	0.00	2012	P				80.00
					A				
Details									
Means of verification: Reports prepared by Government of Barbados - Energy Division									
Pro-Gender		No	Pro-Ethnicity		No				

RESULTS MATRIX

OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

Component Nbr. 1 RE and EE in public buildings

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2020	EOP 2021	2020	EOP 2021
1.1	Streetlight installation completed	%	P		85		9,977,800
			P(a)	34	85	122,667	7,573,085.05
			A	32	83	0	7,450,418.05
1.2	Number of public buildings retrofitted with EE	Buildings	P		12		4,150,000
			P(a)	0	14	0	2,916,049
			A	0	0	0	0
1.3	PV in Public Buildings Installed	kW	P		1,190		5,500,000
			P(a)	615	3,995	1,324,540	6,732,633.49
			A	173	2,773	1,137,505	5,767,824.49

Component Nbr. 2 Pilot projects

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2020	EOP 2021	2020	EOP 2021
2.1	Public Electric Vehicles with Solar PV installed and pilot completed	Electric vehicles	P		8		300,000
			P(a)	0	8	368,372	1,210,488.4
			A	2	10	344,103	767,394.4
2.2	Ocean studies completed	Studies	P		1		1,000,000
			P(a)	0	1	848,405	977,484.09
			A	0	0	155,418	254,026.09

Component Nbr. 3 capacity building

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2020	EOP 2021	2020	EOP 2021
3.1	Capacity Building training/activities completed	numbr of people	P		0		1,395,000
			P(a)	0	33	690,123	1,435,184.21
			A	0	13	348,108	499,849.2
3.2	Public awareness events completed	number of people	P		100		305,000
			P(a)	0	317	444,108	288,922.44
			A	67	267	159,900	173,810
3.3	Monitoring and evaluation activities completed	activities	P		4		500,000
			P(a)	2	6	67,815	477,879
			A	2	4	32,571	338,415
3.4	Number of Jobs created in ETD for implementing the PSSE Program	Positions	P		4		1,153,000
			P(a)	0	9	141,447	1,814,278.89
			A	0	9	337,948	1,680,026.74

Other Cost

	Administrative fees expended	P				383,200
		P(a)			383,200	383,200
		A			0	0

Total Cost

	Total Cost	P				24,664,000
		P(a)			4,390,677	23,809,204.57
		A			2,515,553	16,931,763.97

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CHANGES TO THE MATRIX

Section	Name	Type of Change	Subtype	Modified By	Entered in the System
Output	Capacity Building training/activities completed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	ROCHELLEF	03/24/2021
	Number of Jobs created in ETD for implementing the PSSE Program	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	ROCHELLEF	03/24/2021
	Number of public buildings retrofitted with EE	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	ROCHELLEF	03/16/2021
	Ocean studies completed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	ROCHELLEF	03/24/2021
	PV in Public Buildings Installed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	ROCHELLEF	03/24/2021
	Public Electric Vehicles with Solar PV installed and pilot completed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	ROCHELLEF	03/24/2021
	Public awareness events completed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	ROCHELLEF	03/24/2021
			Modify Physical EOP P(a) value - caused by a change in the Physical P(a).	ROCHELLEF	03/16/2021

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IMPLEMENTATION STATUS AND LEARNING

Lesson Learned - Categories

Others - Organizational and Managerial Dimensions