



Operation Number: **BA-L1025**
Year- PMR Cycle: **First period Jan-Jun 2016**
Last Update: **10/6/2016**
PMR Validation Stage: **Validated by Chief of Operations**

Chief of Operations validation date: **10/08/2016**
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:	Public Sector Smart Energy (PSSE) Program	Loan Number:	2748/OC-BA
Executing Agency (EA):	Division of Energy and Telecommunication s		
Team Leader:	Gischler Blanco,Christiaan	Sector/Subsector:	ENERGY EFFICIENCY AND RENEWABLE ENERGY IN END USE
Operation Type:	Loan Operation	Overall Stage:	Disbursing (From eligibility until all the Operations are closed)
Lending Instrument:	Investment Loan	Country:	BARBADOS
Borrower:	BARBADOS	Convergence related Operation(s):	

Total Cost and Source

	Original IDB	Current Active IDB	Local Counterpart	Co-Financing/Country	Total operation cost - Original Estimate
BA-L1025	\$17,000,000.00	\$17,000,000.00	\$0.00		\$24,664,000.00

Available Funds (US\$)

	Current IDB	Disb. Amount to Date	% Disbursed	Undisbursed Balance
BA-L1025	\$17,000,000.00	\$617,030.32	3.63%	\$16,382,969.68

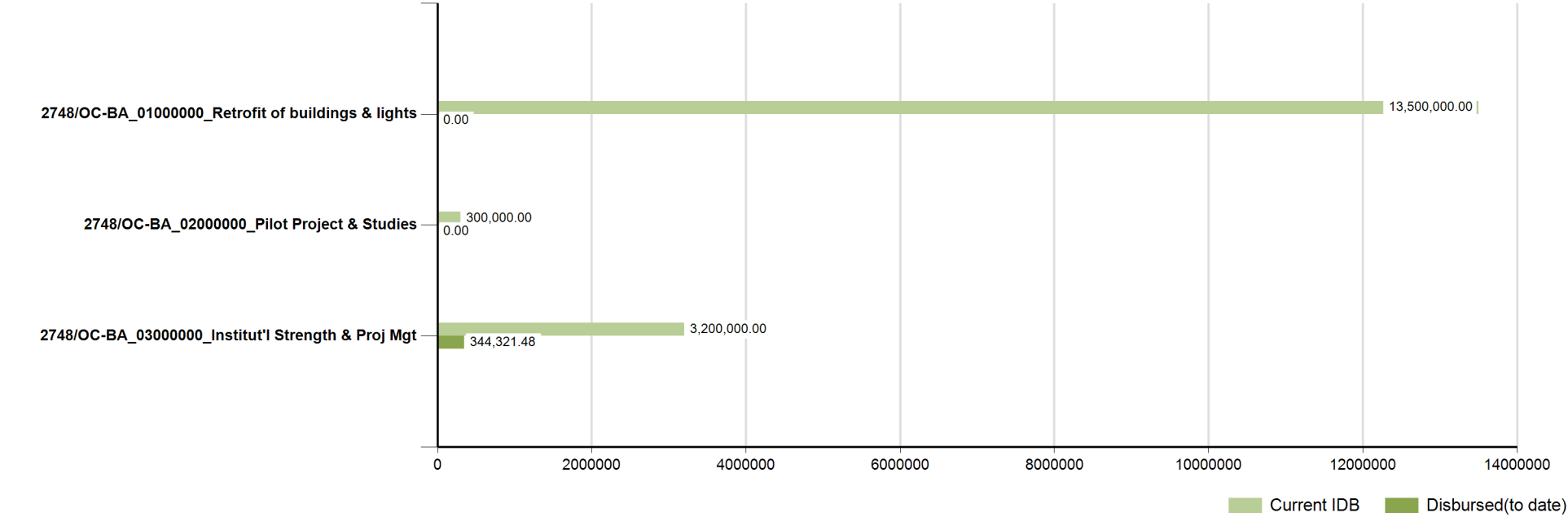
Environmental and Social Safeguards

Main Operation	
Impacts Category:	C
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:	1 PSSE Financial savings cumulative to date (real 2012 US\$).								
Observation:	Financial savings from the reduction in electricity purchased from BL&P by the GOBA, as well as the sale of electricity produced by the solar PV systems to BL&P, and reduction in fuel purchased for the GOBA vehicle fleet.								
Indicators		Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	EOP	
1.1 PSSE Financial savings cumulative to date (real 2012 US\$).			US\$	0.00	2012	Power consumption Information provided by the Government and by the utility (BL&P)		P	11,284,963.00
								P(a)	11,284,963.00
								A	
Impact:	2 Avoided CO2 emissions by the PSSE Program (cumulative to date).								
Observation:									
Indicators		Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	EOP	
2.1 Avoided CO2 emissions by the PSSE Program (cumulative to date).			tCO2	0.00	2012	Reports prepared by Government of Barbados - Energy Division		P	32,528.00
								P(a)	32,528.00
								A	

-  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

Outcome:	1 RE capacity installed in government buildings
Observation:	

Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	EOP	
							P	6,073.00
1.1 Electricity Generated from Solar PV Systems (MWh/year, MWh to date generated).		MWh	0.00	2012	Reports prepared by Government of Barbados-Energy Division	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.	P(a)	6,073.00
	A							

Outcome:	2 Energy saving with EE technologies in public lighting and buildings
Observation:	

Observation:								
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	EOP	
							P	80.00
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	Reports prepared by Government of Barbados - Energy Division		P(a)	80.00
							A	

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Outputs: Annual Physical and Financial Progress

RE and EE in public buildings		Physical Progress			Financial Progress		
Outputs	Unit of Measure		2016	EOP		2016	EOP
Streetlight installation completed	%	P	40.00	85.00	P	3,283,000.00	9,977,800.00
		P(a)	0.00	85.00	P(a)	55,705.46	9,977,800.00
		A	0.00	0.00	A	0.00	21,877.00
Number of public buildings retrofitted with EE	Buildings	P	3.00	12.00	P	2,767,000.00	4,150,000.00
		P(a)	0.00	12.00	P(a)	340,769.00	4,150,000.00
		A	0.00	0.00	A	0.00	0.00
PV in Public Buildings Installed	kW	P	300.00	1,190.00	P	1,833,000.00	5,500,000.00
		P(a)	952.00	1,190.00	P(a)	4,935,079.00	5,500,000.00
		A	0.00	0.00	A	4,907.00	15,668.00
Pilot projects		Physical Progress			Financial Progress		
Outputs	Unit of Measure		2016	EOP		2016	EOP
Public Electric Vehicles with Solar PV installed and pilot completed	Electric vehicles	P	3.00	8.00	P	150,000.00	300,000.00
		P(a)	2.00	8.00	P(a)	99,192.00	300,000.00
		A	2.00	2.00	A	0.00	0.00
Ocean studies completed	Studies	P	0.00	1.00	P	920,000.00	1,000,000.00
		P(a)	0.00	1.00	P(a)		1,000,000.00
		A	0.00	0.00	A	2,985.00	15,043.00
capacity building		Physical Progress			Financial Progress		
Outputs	Unit of Measure		2016	EOP		2016	EOP
Capacity Building training/activities completed	numbr of people	P		0.00	P	503,000.00	1,395,000.00
		P(a)	25.00	100.00	P(a)	20,000.00	1,395,000.00
		A	0.00	0.00	A	0.00	46,451.00
Public awareness events completed	number of people	P	20.00	100.00	P	0.00	305,000.00
		P(a)	5.00	100.00	P(a)	0.00	305,000.00
		A	0.00	0.00	A	0.00	0.00
Monitoring and evaluation activities completed	activities	P	1.00	4.00	P	210,000.00	500,000.00
		P(a)	0.00	7.00	P(a)	349,229.00	500,000.00
		A	0.00	0.00	A	0.00	0.00
Number of Jobs created in ETD for implementing the PSSE Program	Positions	P		4.00	P	210,000.00	1,153,000.00
		P(a)	1.00	8.00	P(a)	230,428.00	1,153,000.00
		A	0.00	7.00	A	91,659.00	633,449.00
Other Cost					2016		Cost
Administrative fees expended				P			\$383,200.00
				P(a)	\$0.00		\$383,200.00
				A	\$0.00		\$0.00
Total Cost					2016		Total Cost
				P	\$9,876,000.00		\$24,664,000.00
				P(a)	\$6,030,402.46		\$24,664,000.00
				A	\$99,551.00		\$732,488.00

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.