PMR Public Report

Operation Number	GY-G1007	Chief of Operations Validation Date	04/14/23						
Year- PMR Cycle	Second period Jan-Dec 2022	Division Chief Validation Date	04/24/23						
Last Update	03/27/23	Country Representative Validation Date	05/12/23						
PMR Validation Stage	Validated by Representative								
Basic Data									
Operation Profile									
Operation Name	Guyana Utility Scale Solar Photovoltaic Program (Guysol)	Loan Number	GRT/NG-19288-GY						
Executing Agency	GUYANA POWER AND LIGHT, INC.	Sector/Subsector	ENERGY-ENERGY EFFICIENCY AND RENEWABLE ENERGY IN END USE						
Team Leader	MASSON, MALAIKA EBONY ANIETIA	Overall Stage	Effective/Pending Eligibility						
Operation Type	Investment Grants	Country	Guyana						
Lending Instrument		Convergence related Operation(s)							
Borrower	COOPERATIVE REPUBLIC OF GUYANA								
Environmental and Social Sa	afeguards								
Impacts Category	В	Was/Were the objective(s) of this operation reformulated?	NO						
Safeguard Performance Rating	Satisfactory	Date of approval							
Safeguard Performance Rating - Rationale	Given that the operation is still awaiting the subsidiary account (MOF-GPL) to be approved by Cabinet and then the opening of the operation's account, the Bank and the PEU on November 16th and 17th, 2022 participated in a planning Workshop for the operation to update and validate the execution plan for the complete operation. The PEU is moving along with preparation of RFPs for the 8 solar farms, preparation for ESG/disaster risks and capacity building for GPL in anticipation of eligibility.								

Financial Data

			Total Cost and Source		Available Funds (US\$)						
Operations	Original IDB	Current IDB	Local Counterpart	Co-Financing / Country	Total Original Cost	Current IDB	Disb. Amount to Date	% Disbursed	Undisbursed Amount		
GY-G1007	83,300,000	83,300,000	0	0	83,300,000	83,300,000	-	0.00%	83,300,000		
Aggregated	83,300,000	83,300,000	0	0	83,300,000	83,300,000	-	0.00%	83,300,000		

Expense Categories by Loan Contract (cumulative values)

No Data Available

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.

RESULTS MATRIX

General Development Objectives

General Development Objectives Nbr. 1: General development objective: to support the diversification of Guyana's energy matrix towards the use of climate-resilient renewable energy sources in the electricity generation matrix

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement		EOP 2027
1.0	Utility-scale solar PV generation in the electricity matrix	% Share of RE	0	2021	2026	Р	19
		capacity in the system				A	-
Details							

Means of Verification: Report from the Executing Agency

Observations: This refers to areas of influence of the program and utility owned systems. (DBIS system, Essequibo Coast Isolated System, and Linden).

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

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

RESULTS MATRIX

Specific Development Objectives

Specific Development Objectives Nbr. 0: Avoid CO2 emissions with the development of solar PV generation plants

Observation: The Bartica system emission factor was used for Linden emission factors due to similarity.2 The end of project is the cumulative CO2 emissions avoided.

	Indicator	Unit of Measure	Baseline	Baseline Year		2022	2023	2024	2025	2026	2027	EOP 2027
0.0	CO2 emissions avoided	Tons of CO2	0	2021	Р	-	-	-	37,695	37,582	-	75,277
					А	-	-	-	-	-	-	-
Detaile												

Details

Means of Verification: Report from the Executing Agency

Observations: The Bartica system emission factor was used for Linden emission factors due to similarity.2 The end of project is the cumulative CO2 emissions avoided.

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

Specific Development Objectives Nbr. 1: Lower the cost of electricity generation

Observation: This is avoided average cost of the three systems. Compares the LCOE from solar versus Baseline.

	Indicator	Unit of Measure	Baseline	Baseline Year		2022	2023	2024	2025	2026	2027	EOP 2027
1.0	Avoided cost of generation	US\$ Million	0	2021	Р	-	-	-	3.58	1.95	-	5.53
					А	-	-	-	-	-	-	-
Dotaile												

Means of Verification: Report from the Executing Agency

Observations: This is avoided average cost of the three systems. Compares the LCOE from solar versus Baseline.

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

Specific Development Objectives Nbr. 2: Improve the operation and management of the isolated systems of Essequibo Coast and Linden, and develop local skills for services related to solar PV generation systems

Observation: Performance indicators such as System Average Interruption Duration Index (SAIDI) and System Average Interruption Frequency Index (SAIFI)

	Indicator	Unit of Measure	Baseline	Baseline Year		2022	2023	2024	2025	2026	2027	EOP 2027
2.0	Electrical System performance indicators made available and in use for Linden	# Indicators	0	2021	Р	-	-	-	4	-	-	4
	and Essequibo				А	-	-	-	-	-	-	-
B (11												

Details

Means of Verification: Executing agency report

Observations: Performance indicators such as System Average Interruption Duration Index (SAIDI) and System Average Interruption Frequency Index (SAIFI)

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator						
	1									
	Indicator				Unit of Measure	Baseline	Baseline Year		2022	2
2.3	Women em	ployed in Solar P	V		% of women employed	0	2021	Р	-	
								A	-	
Details										

Means of Verification: Executing agency report

Observations: Participants from the certification and apprenticeship program The indicator considers that women trained will start working the following year after finishing the program. Each program consists of 25 women trained.

Evaluation Methodology: -

Pro-Gender	Yes	Pro-Ethnicity	No	CRF indicator

023	2024	2025	2026	2027	EOP 2027
-	35	35	-	-	70
-	-	-	-	-	-

OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

Component Nbr. 1 Component 1: Utility scale solar PV solutions in the matrix

				PHYSICAL	PROGRESS	FINANCIAL	PROGRESS
	Output	Unit of Measure		2022	EOP 2027	2022	EOP 2027
	PV farms capacity Installed	MW	Р	-	33	-	72,450,000
1.01			P (a)	-	-	-	-
			А	-	-	-	-

Component Nbr. 2 Component 2: Operation efficiency and reliability of the systems in the isolated systems

				PHYSICAL	PROGRESS	FINAN
	Output	Unit of Measure		2022	EOP 2027	2022
	Program for women certified in solar PV installation implemented	# programs	Р	-	2	
2.01			P (a)	-	-	
			А	-	-	
	Apprenticeship program designed and implemented for diversity and inclusion of people with disabilities	# Apprenticeship	Р	-	2	
2.02			P (a)	-	1	
			А	-	-	
	Automated monitoring and control system installed	# systems	Р	-	2	
2.03			P (a)	-	-	
			А	-	-	
	Substation upgraded with remote control system	# substations	Р	-	2	
2.04			P (a)	-	-	
			А	-	-	
	Disaster Risk Management Plan finalized	# Plans	Р	-	1	
2.05			P (a)	-	-	
			٨	-	_	

Other Cost			
Other costs (PEU management)	Р	121,236.23	3,400,000.01
	P (a)		0
	А		0
IDB Administrative Fee	Р		1,600,000
	P (a)		0
	А		0
Total Cost			
Total Cost	Р	121,236.23	83,300,000.06
	P (a)	0	0
	А	0	0

NCIAL PROGRESS

	EOP 2027
-	520,000
-	-
-	-
-	300,000.05
-	-
-	-
-	2,500,000
-	-
-	-
-	2,500,000
-	-
-	-
-	30,000
-	-
-	-

No information available for this section

RISKS AND PLANNED RESPONSES

Risk ID		Risk Taxonomy			
		Active	Technical Design		
1	Response Actions				
	1	Management Strategy	Status		

Risk ID	Risk Status		Risk Taxonomy
		Active	Planning
	Response Actions		
2	2	Management Strategy	Status

Risk ID		Risk Taxonomy			
		Active	Environmental and Social Safeguards		
	Response Actions				
3	3	Management Strategy	Status		

Risk ID	Risk Status		Risk Taxonomy			
4		Active	Human Resources			
	Response Actions					
	4	Management Strategy	Status			

Risk ID	Risk Status		Risk Taxonomy
		Active	Systems
5	Response Actions		
	5	Management Strategy	Status

Risk ID	F	Risk Status		Risk Taxonomy
		Active		Systems
6	Response Actions			
			Management Strategy	Status
	6			
21.1.12				
RISK ID	•	Risk Status		Risk Taxonomy
		Active		Social Environment
_	Response Actions			
1			Management Strategy	Status
	7			
Risk ID	F	Risk Status		Risk Taxonomy
		Active		Environmental and Social Safeguards
	Response Actions			
8			Management Strategy	Status
-	8			
	5			
Risk ID	F	Risk Status		Risk Taxonomy
		Active		Technical Design
	Response Actions			
9			Management Strategy	Status
	9			
Biek ID	-	Diele Cteture		Disk Toyonomy
KISK ID		NISK Status		
		ACTIVE		Institutional Environment
10	Response Actions			
10	_		Management Strategy	Status
	10			
Risk ID	F	Risk Status		Risk Taxonomy
		Active		Systems
				- /
	Response Actions			
11			Management Strategy	Status
	11			

Risk ID		Risk Status	Risk Taxonomy
		Active	Systems
	Response Actions		
12		Management Strategy	Status
	12		
Pick ID		Pick Status	Pick Taxonomy
KISK ID		RISK Status	RISK TAXOHOMY
		Active	Human Resources
13	Response Actions		
	13	Management Strategy	Status

Lesson Learned - Categories

Acquisitions and Procurement - Bidding Stage