

# PMR Public Report

<b>Operation Number</b>	GY-G1007	<b>Chief of Operations Validation Date</b>	11/18/22
<b>Year- PMR Cycle</b>	First period Jan-Jun 2022	<b>Division Chief Validation Date</b>	
<b>Last Update</b>	11/18/22	<b>Country Representative Validation Date</b>	
<b>PMR Validation Stage</b>	Completed by Team Leader		

## Basic Data

### Operation Profile

<b>Operation Name</b>	Guyana Utility Scale Solar Photovoltaic Program (Guysol)	<b>Loan Number</b>	GRT/NG-19288-GY
<b>Executing Agency</b>	GUYANA POWER AND LIGHT, INC.	<b>Sector/Subsector</b>	ENERGY-ENERGY EFFICIENCY AND RENEWABLE ENERGY IN END USE
<b>Team Leader</b>	MASSON, MALAIKA EBONY ANIETIA	<b>Overall Stage</b>	Approved/Pending Signature
<b>Operation Type</b>	Investment Grants	<b>Country</b>	Guyana
<b>Lending Instrument</b>		<b>Convergence related Operation(s)</b>	
<b>Borrower</b>	COOPERATIVE REPUBLIC OF GUYANA		

## 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>		<b>Date of approval</b>	
<b>Safeguard Performance Rating - Rationale</b>			

## Financial Data

Operations	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	% 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 capacity in the system	0	2021	2026	P	19
						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.<sup>2</sup> The end of project is the cumulative CO2 emissions avoided.

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

**Details**

**Means of Verification:** Report from the Executing Agency

**Observations:** The Bartica system emission factor was used for Linden emission factors due to similarity.<sup>2</sup> 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	EOP 2027
1.0	Avoided cost of generation	US\$ Million	0	2021	P	-	-	-	3.58	1.95	5.53
					A	-	-	-	-	-	-

**Details**

**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	EOP 2027
2.0	Electrical System performance indicators made available and in use for Linden and Essequibo	# Indicators	0	2021	P	-	-	-	4	-	4
					A	-	-	-	-	-	-

**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	

	Indicator	Unit of Measure	Baseline	Baseline Year		2022	2023	2024	2025	2026	EOP 2027
2.3	Women employed in Solar PV	% of women employed	0	2021	P	-	-	35	35	-	70
					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	



**RESULTS MATRIX**

**OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS**

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

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

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

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2022	EOP 2027	2022	EOP 2027
2.01	Program for women certified in solar PV installation implemented	# programs	P	-	2	-	520,000
			P (a)	-	-	-	-
			A	-	-	-	-
2.02	Apprenticeship program designed and implemented for diversity and inclusion of people with disabilities	# Apprenticeship	P	-	2	-	300,000.05
			P (a)	-	1	-	-
			A	-	-	-	-
2.03	Automated monitoring and control system installed	# systems	P	-	2	-	2,500,000
			P (a)	-	-	-	-
			A	-	-	-	-
2.04	Substation upgraded with remote control system	# substations	P	-	2	-	2,500,000
			P (a)	-	-	-	-
			A	-	-	-	-
2.05	Disaster Risk Management Plan finalized	# Plans	P	-	1	-	30,000
			P (a)	-	-	-	-
			A	-	-	-	-

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

No information available for this section

**RISKS AND PLANNED RESPONSES**

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

Risk ID	Risk Status	Risk Taxonomy	
2	Active	Technical Design	
	Response Actions		
	2.0	Management Strategy	Status
		-	

Risk ID	Risk Status	Risk Taxonomy	
3	Active	Institutional Environment	
	Response Actions		
	3.0	Management Strategy	Status
		-	

Risk ID	Risk Status	Risk Taxonomy	
4	Active	Systems	
	Response Actions		
	4.0	Management Strategy	Status
		-	

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

Risk ID	Risk Status	Risk Taxonomy	
6	Active	Planning	
	Response Actions		
	6.0	Management Strategy	Status
		-	

Risk ID	Risk Status	Risk Taxonomy	
7	Active	Systems	
	Response Actions		
	7.0	Management Strategy	Status
		-	

Risk ID	Risk Status	Risk Taxonomy	
8	Active	Environmental and Social Safeguards	
	Response Actions		
	8.0	Management Strategy	Status
		-	

Risk ID	Risk Status	Risk Taxonomy	
9	Active	Environmental and Social Safeguards	
	Response Actions		
	9.0	Management Strategy	Status
		-	

Risk ID	Risk Status	Risk Taxonomy	
10	Active	Social Environment	
	Response Actions		
	10.0	Management Strategy	Status
		-	

Risk ID	Risk Status	Risk Taxonomy	
11	Active	Systems	
	Response Actions		
	11.0	Management Strategy	Status
		-	



Risk ID	Risk Status	Risk Taxonomy	
12	Active	Human Resources	
	Response Actions		
	12.0	Management Strategy	Status
		-	

Risk ID	Risk Status	Risk Taxonomy	
13	Active	Human Resources	
	Response Actions		
	13.0	Management Strategy	Status
		-	

**IMPLEMENTATION STATUS AND LEARNING**

**Lesson Learned - Categories**

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