

# PMR Operational Report

<b>Operation Number</b>	GY-L1066	<b>Chief of Operations Validation Date</b>	04/27/20
<b>Year- PMR Cycle</b>	Second period Jan-Dec 2019	<b>Division Chief Validation Date</b>	04/28/20
<b>Last Update</b>	04/27/20	<b>Country Representative Validation Date</b>	04/30/20
<b>PMR Validation Stage</b>	Validated by Representative		

## Basic Data

### Operation Profile

<b>Operation Name</b>	Energy Matrix Diversification and Institutional Strengthening of the Department of Energy (EMISDE)	<b>Loan Number</b>	4676/BL-GY, 4676/BL-GY-1, 4676/BL-GY-2
<b>Executing Agency</b>	GUYANA POWER AND LIGHT, INC., Guyana Energy Agency (GEA)	<b>Sector/Subsector</b>	EN-EEC - ENERGY-ENERGY EFFICIENCY AND RENEWABLE ENERGY IN END USE
<b>Team Leader</b>	SOLOGUREN BLANCO, JAIME	<b>Overall Stage</b>	Disbursing (From eligibility until all the Operations are closed)
<b>Operation Type</b>	Loan Operation	<b>Country</b>	Guyana
<b>Lending Instrument</b>	Investment Loan	<b>Convergence related Operation(s)</b>	
<b>Borrower</b>	COOPERATIVE REPUBLIC OF GUYANA		

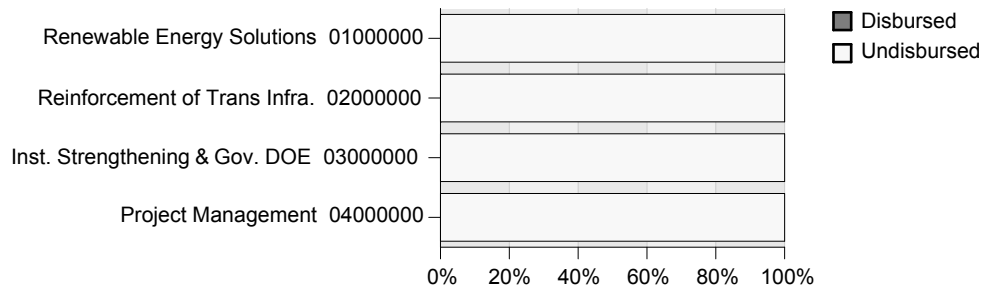
## Environmental and Social Safeguards

<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

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
GY-L1066	21,160,000	21,160,000	0	0	21,160,000	21,160,000	415,754	1.96%	20,744,246
<b>Aggregated</b>	<b>21,160,000</b>	<b>21,160,000</b>	<b>0</b>	<b>0</b>	<b>21,160,000</b>	<b>21,160,000</b>	<b>415,754</b>	<b>1.96%</b>	<b>20,744,246</b>

## 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.

## PMR Operational Report

### RESULTS MATRIX

#### IMPACTS

**Impact Nbr. 1: EXPECTED IMPACT #1 – TO DIVERSIFY THE ENERGY MATRIX**

**Observation:**

Indicator		Unit of Measure	Baseline	Baseline Year		2019	2020	2021	2022	2023	EOP 2023
1.0	Indicator #1 – US\$ for electricity production per kilowatt hour	US\$/kWh	0.50	2017	P	0.50				0.15	0.15
					P(a)	0.50				0.15	0.15
					A	0.50					

#### Details

**Means of verification:** Report of Executing Agency

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

Indicator		Unit of Measure	Baseline	Baseline Year		2019	2020	2021	2022	2023	EOP 2023
1.1	Indicator #2 – Tons of CO2 equivalent reduced per year in the townships of Bartica, Mahdia and Lethem	tCO2e/yr	0.00	2017	P			1,391.00	3,147.00	3,147.00	3,147.00
					P(a)			1,391.00	3,147.00	3,147.00	3,147.00
					A						

#### Details

**Means of verification:** Report of Executing Agency

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

**Impact Nbr. 2: EXPECTED IMPACT #2 – IMPROVE RELIABILITY OF POWER SUPPLY SYSTEM**

**Observation:**

Indicator		Unit of Measure	Baseline	Baseline Year		2019	2020	2021	2022	2023	EOP 2023
2.0	Indicator #3 – Electricity not supplied due to system failures	MWh	3,591.00	2017	P	4,328.20	3,591.00	3,154.00	2,714.00	2,714.00	2,714.00
					P(a)	4,328.20	3,591.00	3,154.00	2,714.00	2,714.00	2,714.00
					A	4,328.20					

#### Details

**Means of verification:** Report of Executing Agency

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

## PMR Operational Report

### RESULTS MATRIX

#### OUTCOMES

**Outcome Nbr. 1:** OUTCOME # 1: Renewable energy solutions are introduced for the hinterland

**Observation:**

Indicator		Unit of Measure	Baseline	Baseline Year		2019	2020	2021	2022	2023	EOP 2023
1.1	Indicator #1: Share of electricity produced with Solar PV technology is introduced in the three townships	%	0.00	2017	P			15.00	27.00		27.00
					P(a)			15.00	27.00		27.00
					A						
Details											
Means of verification: Report of Executing Agency											
Pro-Gender		No	Pro-Ethnicity				No				

Indicator		Unit of Measure	Baseline	Baseline Year		2019	2020	2021	2022	2023	EOP 2023
1.2	Indicator #2: Women beneficiaries of economic empowerment initiatives	Number	0.00	2018	P			100.00	100.00		200.00
					P(a)			100.00	100.00		200.00
					A						
Details											
Means of verification: Report of Executing Agency											
Pro-Gender		No		Pro-Ethnicity				No			

**Outcome Nbr. 2:** OUTCOME # 2: Reinforced transmission infrastructure in the DBIS system is in operation

**Observation:**

Indicator		Unit of Measure	Baseline	Baseline Year		2019	2020	2021	2022	2023	EOP 2023
2.1	Indicator #3 – Controlled and monitored electricity service outages	number per year	6.00	2017	P		6.00	4.00	1.00		1.00
					P(a)		6.00	4.00	1.00		1.00
					A						
Details											
Means of verification: Report of Executing Agency											
Pro-Gender		No	Pro-Ethnicity				No				

Indicator		Unit of Measure	Baseline	Baseline Year		2019	2020	2021	2022	2023	EOP 2023
2.2	Indicator #4 – % of Voltage variation	%	5.00	2017	P	5.00	5.00	1.06	1.06	1.06	1.06
					P(a)	5.00	5.00	1.06	1.06	1.06	1.06

## PMR Operational Report

### RESULTS MATRIX

#### OUTCOMES

2.2	Indicator #4 – % of Voltage variation	%	5.00	2017	A	2.80					
Details											
Means of verification: Report of Executing Agency											
Pro-Gender		No			Pro-Ethnicity		No				

**Outcome Nbr. 3:** OUTCOME # 3: Strengthened Oil and Gas Sector Framework

**Observation:**

Indicator		Unit of Measure	Baseline	Baseline Year		2019	2020	2021	2022	2023	EOP 2023
3.1	Indicator #6 – Framework	Number	0.00	2017	P			1.00			1.00
					P(a)			1.00			1.00
					A						
Details											
Means of verification: Report of Executing Agency											
Pro-Gender		No	Pro-Ethnicity				No				

Indicator		Unit of Measure	Baseline	Baseline Year		2019	2020	2021	2022	2023	EOP 2023
3.2	Indicator #7 – Procedures for PSA	Number	0.00	2017	P				1.00		1.00
					P(a)				1.00		1.00
					A						
Details											
Means of verification: Report of Executing Agency											
Pro-Gender		No			Pro-Ethnicity			No			

## RESULTS MATRIX

## OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

## Component Nbr. 1 Component # 1 – Renewable energy solutions for the hinterland

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2019	EOP 2023	2019	EOP 2023
1.1	Output #1 – Installed capacity of solar PV farms	MW	P	0	3.15	21,212	8,310,000
			P(a)	0	3.15	21,212	8,310,000
			A	0	0	21,212	21,212
1.2	Output #2 – Pilot Project of Smart metering and digitalization implemented	Number	P	0	1	0	140,000
			P(a)	0	1	0	140,000
			A	0	0	0	0
1.3	Output #3 – Women's economic empowerment programs focused on productive use of electricity implemented	Number	P	0	2	0	150,000
			P(a)	0	2	0	150,000
			A	0	0	0	0

## Component Nbr. 2 Component # 2 – Reinforcement of transmission infrastructure

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2019	EOP 2023	2019	EOP 2023
2.1	Output #4 – Transmission line from Kingston to Sophia constructed	Number	P	0	1	11,800	2,650,000
			P(a)	0	1	11,800	2,650,000
			A	0	0	11,800	11,800
2.2	Output #5 – Reinforcement of New Sophia sub-station	Number	P	0	1	2,200	3,250,000
			P(a)	0	1	2,200	3,250,000
			A	0	0	2,200	2,200
2.3	Output #6 – Drafting of technical standards for storing, disposition & treatment of equipment	number	P	1	1	8,100	50,000
			P(a)	1	1	8,100	50,000
			A	1	1	8,100	8,100
2.4	Output #7 – Development of staff diversity diagnostic and gender inclusion policy proposal for GPL	Number	P	1	1	14,000	50,000
			P(a)	1	1	14,000	50,000
			A	1	1	14,000	14,000

## Component Nbr. 3 Component # 3 – Institutional Strengthening and Governance of the Department of Energy

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2019	EOP 2023	2019	EOP 2023
3.1	Output #8 – A Regulatory framework for the O&G sector is proposed.	Number	P	0	1	0	250,000
			P(a)	0	1	0	250,000
			A	0	0	0	0
3.2	Output #9 – PSA contract administration procedures created.	Number	P	0	1	0	1,000,000
			P(a)	0	1	0	1,000,000
			A	0	0	0	0
3.3	Output #10 – O&G Management Strengthening program executed	Number	P	0	1	0	2,000,000
			P(a)	0	1	0	2,000,000
			A	0	0	0	0
3.4	Output #11 – DE Staff teams trained	Number	P	0	4	0	1,250,000
			P(a)	0	4	0	1,250,000
			A	0	0	0	0

## Other Cost

	Project Management	P			107,722	1,750,000
		P(a)			107,722	1,750,000
		A			107,722	107,722

RESULTS MATRIX

OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

	Contingencies	P			0	310,000
		P(a)			0	310,000
		A			0	0

Total Cost

	Total Cost	P			165,034	21,160,000
		P(a)			165,034	21,160,000
		A			165,034	165,034

### CHANGES TO THE MATRIX

No information available for this section

### IMPLEMENTATION STATUS AND LEARNING

No information available for this section