

# PMR Public Report

<b>Operation Number</b>	GY-L1066	<b>Chief of Operations Validation Date</b>	04/12/21
<b>Year- PMR Cycle</b>	Second period Jan-Dec 2020	<b>Division Chief Validation Date</b>	05/03/21
<b>Last Update</b>	04/07/21	<b>Country Representative Validation Date</b>	05/12/21
<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 ENERGY AGENCY (GEA), GUYANA POWER AND LIGHT, INC.	<b>Sector/Subsector</b>	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		

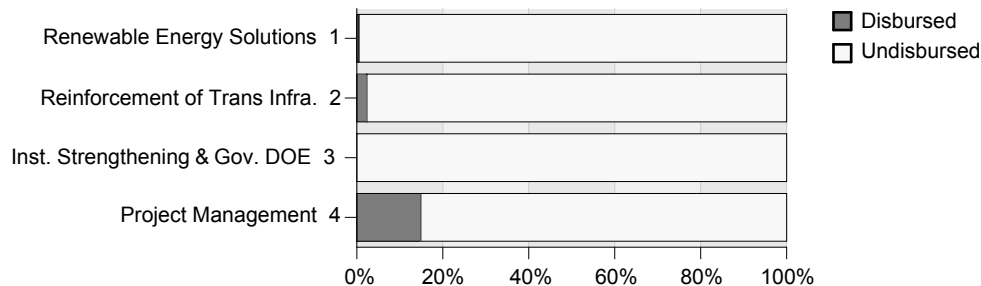
## Environmental and Social Safeguards

<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	1,132,228.94	5.35%	20,027,771.06
<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>1,132,228.94</b>	<b>5.35%</b>	<b>20,027,771.06</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.

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### RESULTS MATRIX

#### General Development Objectives

**General Development Objectives Nbr. 1: EXPECTED IMPACT #1 – TO DIVERSIFY THE ENERGY MATRIX**

**Observation:**

	Indicator	Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement		Target
1.0	Indicator #1 – US\$ for electricity production per kilowatt hour	US\$/kWh	0.50	2017	2018	P	0.15
						A	0.50

#### Details

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

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

The General Development  
bjective indicator target is  
expected to be observed by  
the operation's "Fully  
Justified" date  
in Convergence (CO)

	Indicator	Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement		Target
1.1	Indicator #2 – Tons of CO2 equivalent reduced per year in the townships of Bartica, Mahdia and Lethem	tCO2e/yr	0.00	2017	2018	P	3,147.00
						A	0.00

#### Details

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

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

The General Development  
bjective indicator target is  
expected to be observed by  
the operation's "Fully  
Justified" date  
in Convergence (CO)

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### RESULTS MATRIX

#### General Development Objectives

**General Development Objectives Nbr. 2:** EXPECTED IMPACT #2 – IMPROVE RELIABILITY OF POWER SUPPLY SYSTEM

**Observation:**

	Indicator	Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement		Target
2.0	Indicator #3 – Electricity not supplied due to system failures	MWh	3,591.00	2017	2018	P	2,714.00
						A	1,118.68

#### Details

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

<b>Pro-Gender</b>	No	<b>Pro-Ethnicity</b>	No
<p>The General Development objective indicator target is expected to be observed by the operation's "Fully Justified" date in Convergence (CO)</p>			

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### RESULTS MATRIX

#### Specific Development Objectives

**Specific Development Objectives 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
					A	0.00	0.00	0.00			0.00

#### Details

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

<b>Pro-Gender</b>	No	<b>Pro-Ethnicity</b>	No
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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
					A	0.00	0.00	0.00			0.00

#### Details

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

<b>Pro-Gender</b>	No	<b>Pro-Ethnicity</b>	No
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**Specific Development Objectives 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
					A	0.00	2.00	0.00			

#### Details

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

<b>Pro-Gender</b>	No	<b>Pro-Ethnicity</b>	No
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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
					A	2.80	1.56	0.00			

#### Details

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

<b>Pro-Gender</b>	No	<b>Pro-Ethnicity</b>	No
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### RESULTS MATRIX

#### Specific Development Objectives

Specific Development Objectives 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
					A	0.00	0.00	0.00			
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
					A	0.00	0.00	0.00			
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	
				2020	EOP 2023	2020	EOP 2023
1.1	Output #1 – Installed capacity of solar PV farms	MW	P	0	3.15	500,000	8,310,000
			P(a)	0	3.15	37,710	8,310,000
			A	0	0	562,134.13	583,346.13
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	
				2020	EOP 2023	2020	EOP 2023
2.1	Output #4 – Transmission line from Kingston to Sophia constructed	Number	P	0	1	0	2,650,000
			P(a)	0	1	34,300	2,662,199.06
			A	0	0	34,300	46,100
2.2	Output #5 – Reinforcement of New Sophia sub-station	Number	P	0	1	0	3,250,000
			P(a)	0	1	11,600	3,250,000
			A	0	0	4,300	6,500
2.3	Output #6 – Drafting of technical standards for storing, disposition & treatment of equipment	number	P	0	1	32,408	50,000
			P(a)	0	1	32,408	40,600
			A	0	1	32,500	40,600
2.4	Output #7 – Development of staff diversity diagnostic and gender inclusion policy proposal for GPL	Number	P	0	1	32,635	50,000
			P(a)	0	1	32,635	47,200
			A	0	1	33,200	47,200

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

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2020	EOP 2023	2020	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 GPL	P			92,000	482,000
		P(a)			90,500	482,000
		A			86,700	122,100

**RESULTS MATRIX****OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS**

	Project Management GEA	P			332,667	1,268,000
		P(a)			145,000	1,268,000.94
		A			123,849.94	196,171.94
	Contingencies GPL	P				155,000
		P(a)				155,000
		A				0
	Contingencies GEA	P				155,000
		P(a)				155,000
		A				0

**Total Cost**

	Total Cost	P			989,710	21,160,000
		P(a)			384,153	21,160,000
		A			876,984.07	1,042,018.07

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## CHANGES TO THE MATRIX

Section	Name	Type of Change	Subtype	Modified By	Entered in the System
Output	Output #4 – Transmission line from Kingston to Sophia constructed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	LERONEW	04/06/2021



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## IMPLEMENTATION STATUS AND LEARNING

### Lesson Learned - Categories

Project Design