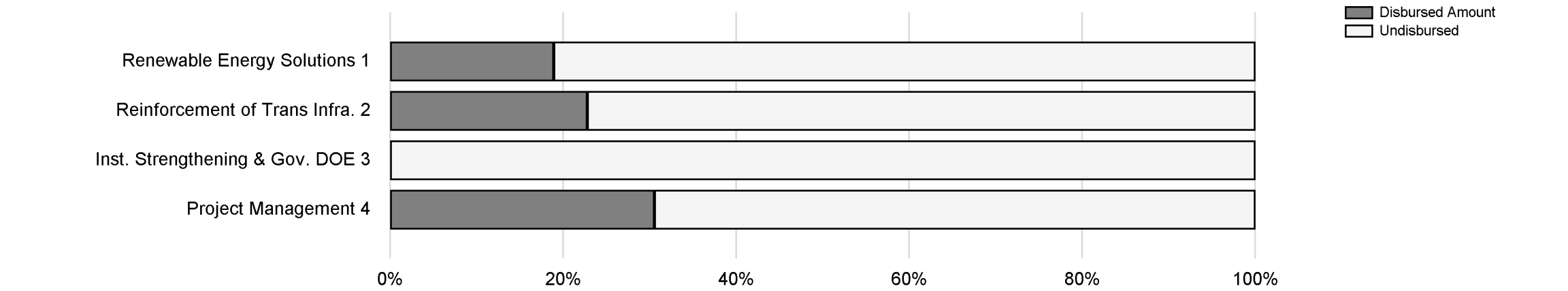


PMR Public Report

Operation Number	GY-L1066	Chief of Operations Validation Date	03/31/22
Year- PMR Cycle	Second period Jan-Dec 2021	Division Chief Validation Date	04/26/22
Last Update	03/25/22	Country Representative Validation Date	04/28/22
PMR Validation Stage	Validated by Representative		
Basic Data			
Operation Profile			
Operation Name	Energy Matrix Diversification and Institutional Strengthening of the Department of Energy (EMISDE)	Loan Number	4676/BL-GY, 4676/BL-GY-1, 4676/BL-GY-2
Executing Agency	GUYANA ENERGY AGENCY (GEA), GUYANA POWER AND LIGHT, INC.	Sector/Subsector	ENERGY-ENERGY EFFICIENCY AND RENEWABLE ENERGY IN END USE
Team Leader	MASSON, MALAIKA EBONY ANIETIA	Overall Stage	Disbursing (From eligibility until all the Operations are closed)
Operation Type	Loan Operation	Country	Guyana
Lending Instrument	Investment Loan	Convergence related Operation(s)	
Borrower	COOPERATIVE REPUBLIC OF GUYANA		
Environmental and Social Safeguards			
Impacts Category	B	Was/Were the objective(s) of this operation reformulated?	NO
Safeguard Performance Rating	Partially Satisfactory	Date of approval	
Safeguard Performance Rating - Rationale	Though the GEA has indicated that an E&S specialist is onboard and has demonstrated a willingness to address unresolved E&S issues, there is still lack of capacity to carry out effective E&S monitoring and supervision, particularly social aspects related to meaningful consultation. The Mahdia ESA has also been delayed as a result of these limitations. As such, a Corrective Action Plan (CAP) has been developed with ESG's assistance. No supervision/ monitoring reports have been formally submitted to the bank to confirm compliance with the Revegetation Plan at the Bartica site as required under the loan agreement.		

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-L1066	21,160,000	21,160,000	0	0	21,160,000	21,160,000	7,407,914.42	35.01%	13,752,085.58
Aggregated	21,160,000	21,160,000	0	0	21,160,000	21,160,000	7,407,914.42	35.01%	13,752,085.58
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.

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	EOP 2023	
1.0	Indicator #1 – US\$ for electricity production per kilowatt hour	US\$/KWh	0.5	2017	2023	P	.15
						A	.5

Details

Means of Verification: Report of Executing Agency

Observations:

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					
Indicator				Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement	EOP 2023	
1.1	Indicator #2 – Tons of CO2 equivalent reduced per year in the townships of Bartica, Mahdia and Lethem			tCO2e/yr	0	2017	2023	P	3,147
								A	-
Details									

Observations:

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			
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	EOP 2023
2.0	Indicator #3 – Electricity not supplied due to system failures	MWh	3591	2017	2023	P	2,714
						A	5,387.45
Details							

Observations:

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. 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	2017	P	-	-	15	27	-	27
					A	-	-	-	-	-	-

Details

Means of Verification: Report of Executing Agency

Observations:

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

	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	2018	P	-	-	100	100	-	200
					A	-	-	-	-	-	-

Details

Means of Verification: Report of Executing Agency

Observations:

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

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	2017	P	-	6	4	1	-	1
					A	-	2	-	-	-	-

Details

Means of Verification: Report of Executing Agency

Observations:

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

	Indicator	Unit of Measure	Baseline	Baseline Year		2019	2020	2021	2022	2023	EOP 2023
2.2	Indicator #4 – % of Voltage variation	%	5	2017	P	5	5	1.06	1.06	1.06	1.06
					A	2.8	1.56	1.35	-	-	-

Details

Means of Verification: Report of Executing Agency

Observations:

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

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	2017	P	-	-	1	-	-	1
					A	-	-	-	-	-	-

Details

Means of Verification: Report of Executing Agency

Observations:

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

	Indicator	Unit of Measure	Baseline	Baseline Year		2019	2020	2021	2022	2023	EOP 2023
3.2	Indicator #7 – Procedures for PSA	number	0	2017	P	-	-	-	1	-	1
					A	-	-	-	-	-	-

Details

Means of Verification: Report of Executing Agency

Observations:

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

RESULTS MATRIX

OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

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

				PHYSICAL PROGRESS		FINANCIAL PROGRESS	
	Output	Unit of Measure		2021	EOP 2023	2021	EOP 2023
1.01	Output #1 – Installed capacity of solar PV farms	MW	P	1.5	3.15	6,260,000	8,310,000
			P (a)	1.5	1.65	4,448,000	8,310,000
			A	-	-	2,030,656.15	2,752,275.28
1.02	Output #2 – Pilot Project of Smart metering and digitalization implemented	Number	P	-	1	-	140,000
			P (a)	-	1	-	140,000
			A	-	-	-	-
1.03	Output #3 – Women’s economic empowerment programs focused on productive use of electricity implemented	Number	P	1	2	60,000	150,000
			P (a)	1	1	60,000	150,000
			A	-	-	-	-

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

				PHYSICAL PROGRESS		FINANCIAL PROGRESS	
	Output	Unit of Measure		2021	EOP 2023	2021	EOP 2023
2.01	Output #4 – Transmission line from Kingston to Sophia constructed	Number	P	1	1	2,638,200	2,650,000
			P (a)	-	1	1,289,100	2,650,000
			A	-	-	1,219,500	1,265,600
2.02	Output #5 – Reinforcement of New Sophia sub-station	Number	P	1	1	2,210,000	3,250,000
			P (a)	-	1	96,400	3,262,200
			A	-	-	7,300	13,800
2.03	Output #6 – Drafting of technical standards for storing, disposition & treatment of equipment	Number	P	-	1	9,492	50,000
			P (a)	-	1	-	40,600
			A	-	1	-	40,600
2.04	Output #7 – Development of staff diversity diagnostic and gender inclusion policy proposal for GPL	Number	P	-	1	3,365	50,000
			P (a)	-	1	-	47,200
			A	-	1	-	47,200

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

				PHYSICAL PROGRESS		FINANCIAL PROGRESS	
	Output	Unit of Measure		2021	EOP 2023	2021	EOP 2023
3.01	Output #8 – A Regulatory framework for the O&G sector is proposed.	Number	P	-	1	-	250,000
			P (a)	-	1	-	250,000
			A	-	-	-	-
3.02	Output #9 – PSA contract administration procedures created.	Number	P	-	1	-	1,000,000
			P (a)	-	1	-	1,000,000
			A	-	-	-	-
3.03	Output #10 – O&G Management Strengthening program executed	Number	P	-	1	-	2,000,000
			P (a)	-	1	-	2,000,000
			A	-	-	-	-
3.04	Output #11 – DE Staff teams trained	Number	P	-	4	-	1,250,000
			P (a)	-	4	-	1,250,000
			A	-	-	-	-

Other Cost				
	Project Management GPL	P	127,000	482,000
		P (a)	122,200	482,000
		A	67,600	202,534
	Project Management GEA	P	362,667	1,268,000
		P (a)	178,000	1,268,000
		A	116,555	336,798.94
	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	11,670,724	21,160,000
		P (a)	6,193,700	21,160,000
		A	3,441,611.15	4,658,808.22

CHANGES TO THE MATRIX					
Section	Name	Type of Change	Sub type	Modified By	Entered in 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	3/24/2022
	Output #5 – Reinforcement of New Sophia sub-station	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	LERONEW	3/25/2022

RISKS AND PLANNED RESPONSES

Risk ID	Risk Status		Risk Taxonomy
2	Active		Institutional Environment
	Response Actions		
	2.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
4	Active		Legal Environment
	Response Actions		
	4.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy		
5	Active		Environmental and Social Safeguards		
	Response Actions				
	5.1	Management Strategy		Status	
		MITIGATE		ACTIVE	

Risk ID	Risk Status		Risk Taxonomy
8	Active		Institutional Environment
	Response Actions		
	8.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy		
10	Inactive		Institutional Environment		
	Response Actions				
	10.1	Management Strategy		Status	
		MITIGATE		INACTIVE	

Risk ID	Risk Status		Risk Taxonomy
12	Inactive		Political Environment
	Response Actions		
	12.1	Management Strategy	Status
		MITIGATE	INACTIVE

Risk ID	Risk Status		Risk Taxonomy
14	Active		Institutional Environment
	Response Actions		
	14.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
16	Active		Institutional Environment
	Response Actions		
	16.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
18	Active		Environmental and Social Safeguards
	Response Actions		
	18.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
20	Active		Environmental and Social Safeguards
	Response Actions		
	20.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
22	Active		Institutional Environment
	Response Actions		
	22.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
23	Active		Economic and Financial Environment
	Response Actions		
	23.1	Management Strategy	Status
		MITIGATE	ACTIVE

IMPLEMENTATION STATUS AND LEARNING

Lesson Learned - Categories
Project Design