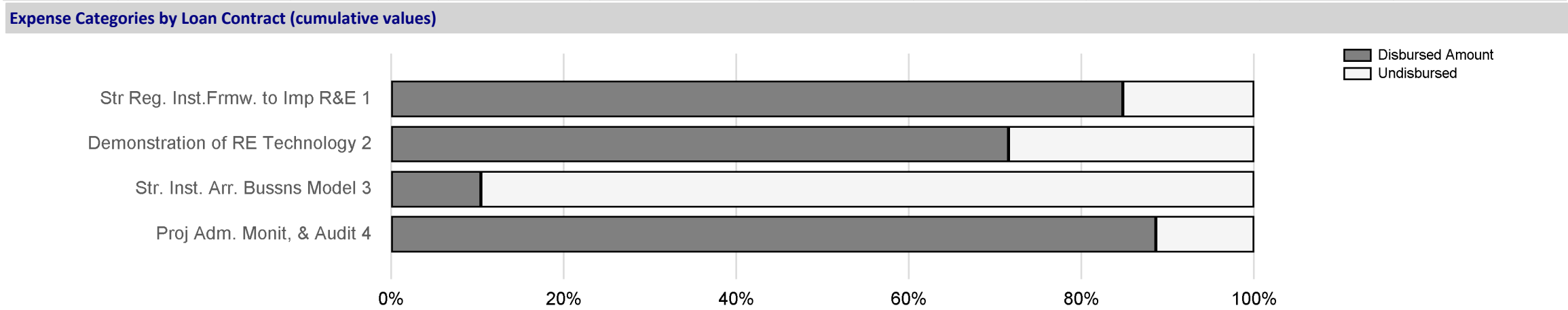


PMR Public Report

Operation Number	SU-G1001	Chief of Operations Validation Date	05/03/23
Year- PMR Cycle	Second period Jan-Dec 2022	Division Chief Validation Date	05/03/23
Last Update	05/03/23	Country Representative Validation Date	05/15/23
PMR Validation Stage	Validated by Representative		

Basic Data			
Operation Profile			
Operation Name	Development of Renewable Energy, Energy Efficiency and Electrification	Loan Number	GRT/FM-13774-SU
Executing Agency	MINISTRY OF NATURAL RESOURCES AND ENERGY, MINISTRY OF NATURAL RESOURCES	Sector/Subsector	ENERGY-RURAL ELECTRIFICATION
Team Leader	BALLON LOPEZ, SERGIO ENRIQUE	Overall Stage	Fully Disbursed
Operation Type	Investment Grants	Country	Suriname
Lending Instrument		Convergence related Operation(s)	
Borrower			
Environmental and Social Safeguards			
Impacts Category	C	Was/Were the objective(s) of this operation reformulated?	NO
Safeguard Performance Rating		Date of approval	
Safeguard Performance Rating - Rationale			

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
SU-G1001	4,400,000	4,400,000	3,300,000	0	7,700,000	4,400,000	4,400,000	100.00%	-
Aggregated	4,400,000	4,400,000	3,300,000	0	7,700,000	4,400,000	4,400,000	0.00%	-



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: Greenhouse gases emissions reduction

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement	EOP 2024	
1.1	Annual amount of avoided greenhouse gases	tons CO2 equivalent per year)	0	2011		P	8,110
						A	-

Details

Means of Verification: project evaluation, GOS climate change (ATM) and sector reports (MNH)

Observations: Indicator is conform GEF-5 CCM 3.

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: Increase in Suriname electricity coverage

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement	EOP 2024	
2.1	Population with access to electricity.	Percentage	85	2011		P	90
						A	85

Details

Means of Verification: Sector statistics

Observations: Percentage of the population with access to electricity

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: A conducive regulatory and institutional framework to implement RE/EE technologies in Suriname has been established.

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year		2019	2022	EOP 2024
1.1	Enhancements to the legal and technical regulatory framework including RE and EE technologies in Suriname, have been proposed and approved.	# legal and technical regulatory proposals	0	2011	P	-	-	1
					A	-	-	-

Details

Means of Verification: Sector framework

Observations: Currently the promotion of RE and EE is not incorporated in the regulatory framework of Suriname and there is no strategy to developthese types of technologies.

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

Specific Development Objectives Nbr. 2: Selected RET pilots have been implemented for on-grid electricity supply and for rural electrification in the Hinterlands

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year		2019	2022	EOP 2024
2.0	Rural electricity operating costs (US\$/KWh)	US\$/kWh	0.63	2013	P	-	-	.41
					A	-	-	.63

Details

Means of Verification: Final evaluation report

Observations: Total Operating costs of the Solar Mini Grid in US\$/Total Electricity produced in KWh

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

	Indicator	Unit of Measure	Baseline	Baseline Year		2019	2022	EOP 2024
2.1	Rural end-users supplied with sustainable electricity service from installed RETs	# persons	0	2011	P	-	-	10,280
					A	-	-	-

Details

Means of Verification: Final evaluation

Observations: Based on 200W installed capacity per rural end-user (1,540kW hydro and 516kW PV).

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

Specific Development Objectives Nbr. 3: Adequate business models and stakeholder skills to successfully implement RETs in Suriname, have been established.

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year		2019	2022	EOP 2024
3.1	Number of on-grid RET projects with technical, social and financial sustainability demonstrated	# projects	0	2011	P	-	-	1
					A	-	-	-

Details

Means of Verification: Final evaluation

Observations: One or more RET projects developed. At least one project constructed and selling electric energy to the grid.

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

	Indicator	Unit of Measure	Baseline	Baseline Year		2019	2022	EOP 2024
3.2	Number of rural electrification projects with technical, social and financial sustainability demonstrated	# projects	0	2011	P	-	-	3
					A	-	-	-
Details								

Means of Verification: Final evaluation report

Observations: For: (1) community-based and (2) individual PV systems; and (3) small hydro power.

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

RESULTS MATRIX

OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

Component Nbr. 1 Strengthening of regulatory and institutional framework to implement RE and EE technologies

				PHYSICAL PROGRESS		FINANCIAL PROGRESS	
	Output	Unit of Measure		2022	EOP 2024	2022	EOP 2024
1.01	Country Wind Map of Suriname Developed	# wind maps	P	-	1	-	30,000
			P (a)	1	1	265,771	342,070
			A	1	1	120,210.37	196,509.37
1.02	Wind measuring stations installed	# units	P	-	6	-	270,000
			P (a)	-	6	-	606,670.15
			A	-	6	151,492.76	599,630.91
1.03	Socio-economic information, has been updated to assess the opportunities for RE and EE investments	# studies	P	-	1	-	130,000
			P (a)	-	1	-	79,317.99
			A	-	1	-	79,317.99

Component Nbr. 2 Demonstration of RE technologies for interconnected grids and for rural electrification

				PHYSICAL PROGRESS		FINANCIAL PROGRESS	
	Output	Unit of Measure		2022	EOP 2024	2022	EOP 2024
2.01	Feasibility and detailed engineering studies prepared	# studies	P	-	4	-	400,000
			P (a)	-	3	-	96,759
			A	-	3	-	96,759
2.02	Rural solar-PV projects installed (kW)	kW	P	-	16	-	700,000
			P (a)	250	250	579,191	2,056,084.56
			A	250	250	1,331,286.02	1,994,153.02

Component Nbr. 3 Strengthening of institutional arrangements, business models and stakeholder skills for the sustainable operation of RE and promotion of EE technologies in Suriname

				PHYSICAL PROGRESS		FINANCIAL PROGRESS	
	Output	Unit of Measure		2022	EOP 2024	2022	EOP 2024
3.01	Sustainable ownership business and operational models for RET systems in rural areas developed	# models	P	-	3	-	588,000
			P (a)	1	2	110,000	67,276
			A	1	2	10,201	67,276
3.02	Awareness raising programmes about RETs and EETs have been developed.	# programs	P	-	3	-	145,000
			P (a)	1	4	25,000	68,968
			A	-	3	35,158	48,968
3.03	Promotional events have been held to disseminate the impacts and benefits of RETs and EETs in Suriname, and additional investments leveraged.	# events	P	-	3	-	90,000
			P (a)	1	3	2,500	70,000
			A	1	3	10,168	55,395

Other Cost				
	In-kind contribution to the Program	P		3,200,000
		P (a)		446,129.98
		A		445,978.98
	Project Management (GEF)	P		200,000
		P (a)	61,308	508,702.6
		A	47,918	495,312.6
	Project Management (MIF) + Admin.	P		339,889
		P (a)		58,021.72
		A		58,021.72
Total Cost				
	Total Cost	P	0	9,392,889
		P (a)	1,043,770	4,400,000
		A	1,706,434.15	4,137,322.59

CHANGES TO THE MATRIX					
Section	Name	Type of Change	Sub type	Modified By	Entered in System
Output	Awareness raising programmes about RETs and EETs have been developed.	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	RAIJANTG	4/26/2023
	Promotional events have been held to disseminate the impacts and benefits of RETs and EETs in Suriname, and additional investments leveraged.	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	RAIJANTG	4/26/2023
	Rural solar-PV projects installed (kW)	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	RAIJANTG	4/26/2023
	Sustainable ownership business and operational models for RET systems in rural areas developed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	RAIJANTG	4/26/2023

RISKS AND PLANNED RESPONSES

Risk ID	Risk Status		Risk Taxonomy
1	Inactive		Political Environment
	Response Actions		
	1.01	Management Strategy	Status
		MITIGATE	INACTIVE
	1.02	Management Strategy	Status
		AVOID	INACTIVE

Risk ID	Risk Status		Risk Taxonomy
2	Inactive		Planning
	Response Actions		
	2.01	Management Strategy	Status
		AVOID	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
3	Inactive		Political Environment
	Response Actions		
	3.01	Management Strategy	Status
		MITIGATE	INACTIVE

Risk ID	Risk Status		Risk Taxonomy
4	Inactive		Economic and Financial Environment
	Response Actions		
	4	Management Strategy	Status

Risk ID	Risk Status		Risk Taxonomy
5	Inactive		Human Resources
	Response Actions		
	5.01	Management Strategy	Status
		MITIGATE	ACTIVE
	5.02	Management Strategy	Status
		MITIGATE	INACTIVE
	5.03	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
6	Inactive		Human Resources
	Response Actions		
	6.01	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
7	Inactive		Legal Environment
	Response Actions		
	7	Management Strategy	Status

Risk ID	Risk Status		Risk Taxonomy
8	Inactive		Goods, and Services
	Response Actions		
	8	Management Strategy	Status

IMPLEMENTATION STATUS AND LEARNING

Lesson Learned - Categories
Stakeholder Priorities