

PMR Public Report

Operation Number	SU-G1001	Chief of Operations Validation Date	03/28/22
Year- PMR Cycle	Second period Jan-Dec 2021	Division Chief Validation Date	04/24/22
Last Update	03/28/22	Country Representative Validation Date	04/25/22
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, MINISTRY OF NATURAL RESOURCES AND ENERGY	Sector/Subsector	ENERGY-RURAL ELECTRIFICATION
Team Leader	ABADAL COLOMINA, JORDI	Overall Stage	Disbursing (From eligibility until all the Operations are closed)
Operation Type	Investment Grants	Country	Suriname
Lending Instrument		Convergence related Operation(s)	
Borrower			

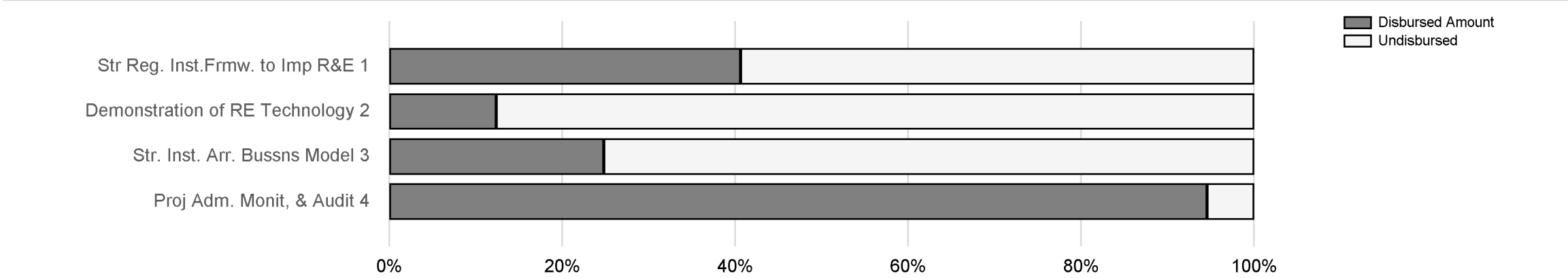
Environmental and Social Safeguards

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	1,835,577.37	41.72%	2,564,422.63
Aggregated	4,400,000	4,400,000	3,300,000	0	7,700,000	4,400,000	1,835,577.37	41.72%	2,564,422.63

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: Greenhouse gases emissions reduction

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement	EOP 2023	
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 2023
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 2023
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 2023
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 2023
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 2023
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				
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Indicator		Unit of Measure	Baseline	Baseline Year		2019	2022	EOP 2023
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		2021	EOP 2023	2021	EOP 2023
1.01	Country Wind Map of Suriname Developed	# wind maps	P	-	1	-	30,000
			P (a)	-	1	-	342,070
			A	-	-	76,299	76,299
1.02	Wind measuring stations installed	# units	P	-	6	-	270,000
			P (a)	6	6	241,425	606,670.15
			A	6	6	82,893	448,138.15
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		2021	EOP 2023	2021	EOP 2023
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	1,036,731	1,242,058
			A	-	-	331,808	662,867

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		2021	EOP 2023	2021	EOP 2023
3.01	Sustainable ownership business and operational models for RET systems in rural areas developed	# models	P	-	3	-	588,000
			P (a)	-	2	50,000	167,075
			A	-	1	-	57,075
3.02	Awareness raising programmes about RETs and EETs have been developed.	# programs	P	-	3	-	145,000
			P (a)	-	4	25,000	38,810
			A	1	3	-	13,810
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)	-	3	2,500	47,727
			A	-	2	101	45,227

Other Cost				
	In-kind contribution to the Program	P		3,200,000
		P (a)	25,000	446,129.98
		A	24,849	445,978.98
	Project Management (GEF)	P		200,000
		P (a)	70,934	508,702.6
		A	56,921	447,394.6
	Project Management (MIF) + Admin.	P		339,889
		P (a)		58,021.72
		A		58,021.72
Total Cost				
	Total Cost	P		9,395,187
		P (a)	1,451,596	3,633,611.44
		A	572,878	2,430,904.44

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 Physical EOP P(a) value - caused by a change in the Physical P(a).	RAIJANTG	3/23/2022
	Country Wind Map of Suriname Developed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	RAIJANTG	3/23/2022
	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	3/23/2022
	Rural solar-PV projects installed (kW)	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	RAIJANTG	3/23/2022
	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	3/23/2022

RISKS AND PLANNED RESPONSES

Risk ID	Risk Status		Risk Taxonomy
2	Inactive		Political Environment
	Response Actions		
	2.1	Management Strategy	Status
		MITIGATE	INACTIVE

Risk ID	Risk Status		Risk Taxonomy
4	Active		Political Environment
	Response Actions		
	4.1	Management Strategy	Status
		MITIGATE	INACTIVE
	4.2	Management Strategy	Status
		AVOID	INACTIVE

Risk ID	Risk Status		Risk Taxonomy
6	Active		Human Resources
	Response Actions		
	6.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
8	Active		Human Resources
	Response Actions		
	8.1	Management Strategy	Status
		MITIGATE	INACTIVE
	8.2	Management Strategy	Status
		MITIGATE	ACTIVE
	8.3	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
9	Inactive		Economic and Financial Environment
	Response Actions		
	9.0	Management Strategy	Status
		-	

Risk ID	Risk Status		Risk Taxonomy
12	Inactive		Legal Environment
	Response Actions		
	12.0	Management Strategy	Status
		-	

Risk ID	Risk Status		Risk Taxonomy
14	Inactive		Goods, and Services
	Response Actions		
	14.0	Management Strategy	Status
		-	

Risk ID	Risk Status		Risk Taxonomy		
16	Active		Planning		
	Response Actions				
	16.1	Management Strategy		Status	
		AVOID		ACTIVE	



IMPLEMENTATION STATUS AND LEARNING

Lesson Learned - Categories