

# PMR Public Report

<b>Operation Number</b>	SU-G1001	<b>Chief of Operations Validation Date</b>	10/20/21
<b>Year- PMR Cycle</b>	First period Jan-Jun 2021	<b>Division Chief Validation Date</b>	
<b>Last Update</b>	12/21/21	<b>Country Representative Validation Date</b>	
<b>PMR Validation Stage</b>	Validated by Chief of Operations		

## Basic Data

### Operation Profile

<b>Operation Name</b>	Development of Renewable Energy, Energy Efficiency and Electrification	<b>Loan Number</b>	GRT/FM-13774-SU
<b>Executing Agency</b>	MINISTRY OF NATURAL RESOURCES, MINISTRY OF NATURAL RESOURCES AND ENERGY	<b>Sector/Subsector</b>	ENERGY-RURAL ELECTRIFICATION
<b>Team Leader</b>	ABADAL COLOMINA, JORDI	<b>Overall Stage</b>	Disbursing (From eligibility until all the Operations are closed)
<b>Operation Type</b>	Investment Grants	<b>Country</b>	Suriname
<b>Lending Instrument</b>		<b>Convergence related Operation(s)</b>	
<b>Borrower</b>			

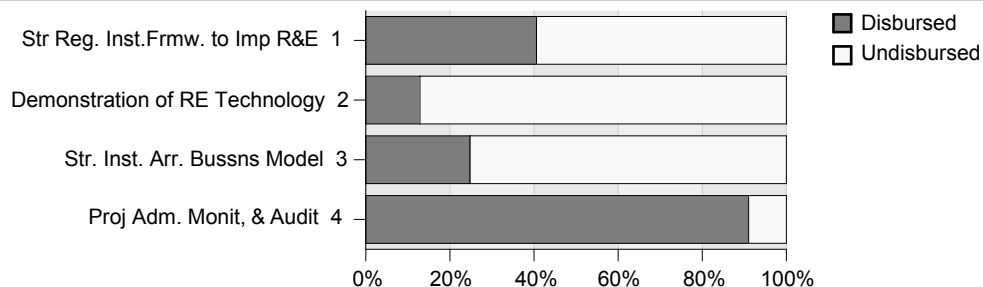
## Environmental and Social Safeguards

<b>Impacts Category</b>	C	<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
SU-G1001	0	4,400,000	3,300,000	0	7,700,000	4,400,000	1,835,577.37	41.72%	2,564,422.63
Aggregated	0	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.

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### 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		Target
1.1	Annual amount of avoided greenhouse gases	tons CO2 equivalent per year)	0.00	2011	-	P	8,110.00
						A	0.00

#### Details

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

**Observations:** Indicator is conform GEF-5 CCM 3.

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

**General Development Objectives Nbr. 2:** Increase in Suriname electricity coverage

**Observation:**

	Indicator	Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement		Target
2.1	Population with access to electricity.	Percentage	85.00	2011	-	P	90.00
						A	85.00

#### Details

**Means of verification:** a

**Observations:** a

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

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### 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	EOP 2022
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	0.00	2011	P		1.00
					A		0.00

#### 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 develop these types of technologies.

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

**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	EOP 2022
2.0	Rural electricity operating costs (US\$/KWh)	US\$/KWh	0.63	2013	P		0.41
					A		0.63

#### Details

**Means of verification:** e

**Observations:** e

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

Indicator		Unit of Measure	Baseline	Baseline Year		2019	EOP 2022
2.1	Rural end-users supplied with sustainable electricity service from installed RETs	# persons	0.00	2011	P		10,280.00
					A		0.00

#### Details

**Means of verification:** Final evaluation

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

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

**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	EOP 2022
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### RESULTS MATRIX

#### Specific Development Objectives

3.1	Number of on-grid RET projects with technical, social and financial sustainability demonstrated	# projects	0.00	2011	P		1.00
					A		0.00
<b>Details</b>							
<b>Means of verification:</b> Final evaluation							
<b>Observations:</b> One or more RET projects developed. At least one project constructed and selling electric energy to the grid.							
<b>Pro-Gender</b>		No			<b>Pro-Ethnicity</b>		No
Indicator	Unit of Measure	Baseline	Baseline Year		2019	EOP 2022	
3.2	Number of rural electrification projects with technical, social and financial sustainability demonstrated	# projects	0.00	2011	P		3.00
					A		0.00
<b>Details</b>							
<b>Means of verification:</b> Final evaluation report							
<b>Observations:</b> For: (1) community-based and (2) individual PV systems; and (3) small hydro power.							
<b>Pro-Gender</b>		No			<b>Pro-Ethnicity</b>		No

**RESULTS MATRIX**

**OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS**

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

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2021	EOP 2022	2021	EOP 2022
1.1	Country Wind Map of Suriname Developed	# wind maps	P		1		30,000
			P(a)	0	1	0	192,130
			A	0	0	0	0
1.2	Wind measuring stations installed	# units	P		6		270,000
			P(a)	6	6	241,425	606,670.15
			A	6	6	4,586	369,831.15
1.3	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**

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2021	EOP 2022	2021	EOP 2022
2.1	Feasibility and detailed engineering studies prepared	# studies	P		4		400,000
			P(a)		3		96,759
			A		3		96,759
2.2	Rural solar-PV projects installed (kW)	kW	P		16		700,000
			P(a)	0	250	1,036,731	1,867,790
			A	0	0	321,370	652,429

**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**

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2021	EOP 2022	2021	EOP 2022
3.1	Sustainable ownership business and operational models for RET systems in rural areas developed	# models	P		3		588,000
			P(a)		2	50,000	257,075
			A		1	0	57,075
3.2	Awareness raising programmes about RETs and EETs have been developed.	# programs	P		3		145,000
			P(a)	0	3	25,000	63,810
			A	0	2	0	13,810
3.3	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)	0	3	2,500	50,126
			A	0	2	0	45,126

**Other Cost**

In-kind contribution to the Program	P				3,200,000
	P(a)			25,000	446,129.98
	A			14,444	435,573.98
Project Management (GEF)	P				200,000
	P(a)			70,934	522,715.6
	A			21,426	411,899.6
Project Management (MIF) + Admin.	P				339,889
	P(a)				58,021.72
	A				58,021.72

**Total Cost**

Total Cost	P				9,392,889
	P(a)			1,451,590	4,240,545.44

**RESULTS MATRIX**

**OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS**

	Total Cost	A			361,826	2,219,843.44
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**CHANGES TO THE MATRIX**

No information available for this section

## RISKS AND PLANNED RESPONSES

Risk ID	Risk Status	Risk Taxonomy	
1	Inactive	Political Environment	
	<b>Response actions</b>		
	1.1	<b>Management Strategy</b>	<b>Status</b>
		MITIGATE	INACTIVE

Risk ID	Risk Status	Risk Taxonomy	
2	Active	Political Environment	
	<b>Response actions</b>		
	2.1	<b>Management Strategy</b>	<b>Status</b>
		AVOID	INACTIVE
	2.2	<b>Management Strategy</b>	<b>Status</b>
		MITIGATE	INACTIVE

Risk ID	Risk Status	Risk Taxonomy
3	Active	Human Resources
	<b>Response actions</b>	
	3.1	MITIGATE

Risk ID	Risk Status	Risk Taxonomy	
4	Active	Human Resources	
	<b>Response actions</b>		
	4.1	<b>Management Strategy</b>	<b>Status</b>
		MITIGATE	ACTIVE
	4.2	<b>Management Strategy</b>	<b>Status</b>
		MITIGATE	ACTIVE
	4.3	<b>Management Strategy</b>	<b>Status</b>
		MITIGATE	INACTIVE



## RISKS AND PLANNED RESPONSES

Risk ID	Risk Status	Risk Taxonomy	
5	Inactive	Economic and Financial Environment	
	<b>Response actions</b>		
	5.0	<b>Management Strategy</b>	<b>Status</b>
		-	
6	Inactive	Legal Environment	
	<b>Response actions</b>		
	6.0	<b>Management Strategy</b>	<b>Status</b>
		-	
7	Inactive	Goods, and Services	
	<b>Response actions</b>		
	7.0	<b>Management Strategy</b>	<b>Status</b>
		-	
8	Active	Planning	
	<b>Response actions</b>		
	8.1	<b>Management Strategy</b>	<b>Status</b>
		AVOID	ACTIVE

# PMR Public Report

## IMPLEMENTATION STATUS AND LEARNING

### Lesson Learned - Categories

Cost and Budgetary Aspects