



Operation Number: **SU-L1009**  
 Year- PMR Cycle: **First period Jan-Jun 2016**  
 Last Update: **10/17/2016**  
 PMR Validation Stage: **Validated by Chief of Operations**

Chief of Operations validation date: **10/18/2016**  
 Division Chief validation date:  
 Country Representative validation date:

Inter-American Development Bank - IDB  
 Office of Strategic Planning and Development Effectiveness

## Operation Profile

### Basic Data

Operation name:	Support to Improve Sustainability of the Electricity Service	Loan Number:	3059/OC-SU
Executing Agency (EA):	ENERGIEBEDRIJ VEN SURINAME		
Team Leader:	Echeverría Echeverría, Carlos Bladimir	Sector/Subsector:	EN
Operation Type:	Loan Operation	Overall Stage:	Disbursing (From eligibility until all the Operations are closed)
Lending Instrument:	Investment Loan	Country:	SURINAME
Borrower:	REPUBLIC OF SURINAME	Convergence related Operation(s):	

### Total Cost and Source

	Original IDB	Current Active IDB	Local Counterpart	Co-Financing/Country	Total operation cost - Original Estimate
SU-L1009	\$30,000,000.00	\$30,000,000.00	\$0.00		\$30,000,000.00

### Available Funds (US\$)

	Current IDB	Disb. Amount to Date	% Disbursed	Undisbursed Balance
SU-L1009	\$30,000,000.00	\$17,226,754.71	57.42%	\$12,773,245.29

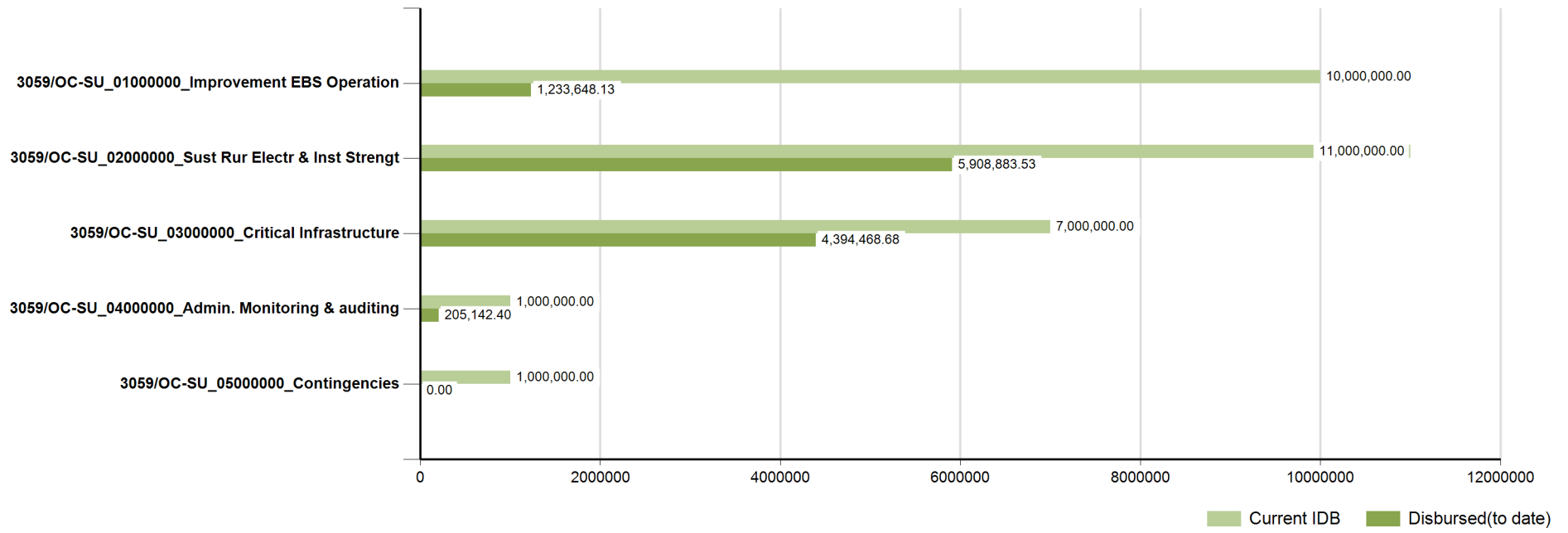
### Environmental and Social Safeguards

Main Operation	
Impacts Category:	C
Safeguard Performance Rating:	
Safeguard Performance Rating - Rationale:	

### Reformulation Information

Main Operation	
Was/Were the objective(s) of this operation reformulated?	NO
Date of approval:	

### Expense Categories by Loan Contract (cumulative values)



## Results Matrix

### Impacts

<b>Impact:</b>	1 Increase in electrification coverage							
<b>Observation:</b>	Based on Country Strategy 2011-2015							
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	EOP	
1.1 Percentage of the population with access to electricity.		Percentage	85.00	2013	Sector statistics		P	90.00
							P(a)	90.00
							A	85.00
<b>Impact:</b>	2 Improvements in the sustainability of rural electrification supply							
<b>Observation:</b>	Based on Country Strategy 2011-2015							
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	EOP	
2.1 Percentage of cost recovery for electricity supply in interior locations		Percentage	0.00	2013	Sector statistics		P	30.00
							P(a)	30.00
							A	0.00

-  RF - Contribution     
  RF - Alignment     
  RF - Strategic Alignment     
  RF - Strategic Alignment during Execution
-  SI - Sector Indicator     
  CI - Country Indicator     
  PG - Pro-Gender     
  PE - Pro-Ethnicity

### Outcomes

<b>Outcome:</b>	1 Strengthening in EBS's operational procedures and corporate performance							
<b>Observation:</b>								
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	EOP	
1.1 Operational GIS and SCADA systems in use by EBS business units		System	0.00	2013	Field visits and EBS technical reports		P	2.00
							P(a)	2.00
							A	0.00
<b>Outcome:</b>	2 Rural areas with access to secured and sustainable energy supply							
<b>Observation:</b>								
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	EOP	
2.1 Annual electricity sales by EBS in the targeted rural electrification areas (Powakka)		MWh/yr	521.00	2013	Aggregated metering data; project reports; final evaluation	Based on estimates provided by EBS	P	4,852.00
							P(a)	4,852.00
							A	521.00

2.2 Annual electricity sales by EBS in the targeted rural electrification areas (Atjoni)		MWh/yr	750.00	2013	Aggregated metering data; project reports; final evaluation	Based on estimates provided by EBS	<b>P</b>	1,500.00
							<b>P(a)</b>	1,500.00
							<b>A</b>	750.00

**Outcome:** 3 A more reliable energy supply system

**Observation:**

Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	EOP	
3.2 System Average Interruption Duration Index (SAIDI)		Index	17.50	2013	EPAR operator (EBS) data and reports		<b>P</b>	16.20
							<b>P(a)</b>	16.20
							<b>A</b>	17.50

-  RF - Contribution
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Component 1. Improvement of EBS' Operations		Physical Progress		Financial Progress			
Outputs	Unit of Measure	2016	EOP	2016	EOP		
Integrated SCADA system designed	System	P		1.00	P		1,423,388.00
		P(a)	1.00	1.00	P(a)	1,852,500.00	1,852,500.00
		A	1.00	1.00	A	0.00	0.00
Integrated SCADA system procured and implemented	System	P		1.00	P	2,194,475.40	4,876,612.00
		P(a)		1.00	P(a)	0.00	4,447,500.00
		A	0.00	0.00	A	0.00	0.00
Enterprise Resource Planning (ERP) system designed and specified	System	P		1.00	P		500,000.00
		P(a)		1.00	P(a)	92,464.00	164,745.69
		A	0.00	1.00	A	18,328.40	90,610.09
Geographical Information System (GIS) designed	System	P		1.00	P		450,000.00
		P(a)		0.00	P(a)		120,852.22
		A	0.00	1.00	A	35,972.08	251,336.43
Geographical Information System (GIS) procured and implemented	System	P		1.00	P	820,000.00	2,750,000.00
		P(a)		1.00	P(a)	531,238.00	3,414,402.09
		A	0.00	0.00	A	80,849.77	946,810.66
Component II. Sustainable Rural Electrification and Institutional Strengthening.		Physical Progress		Financial Progress			
Outputs	Unit of Measure	2016	EOP	2016	EOP		
Substation Paranam (S/S P) upgraded	Substation	P		1.00	P		2,145,000.00
		P(a)	1.00	1.00	P(a)	292,831.48	1,843,799.96
		A	0.00	0.00	A	406,021.99	1,956,990.47
Substation Powakka (S/S POW) procured and implemented	Substation	P		1.00	P		2,671,500.00
		P(a)		0.00	P(a)	870,735.77	3,121,436.70
		A	0.00	1.00	A	570,217.02	2,820,917.95
Transmission and distribution systems in target area Powakka-Ayo-Redi Doti-Casipoera procured and installed	System	P		1.00	P		2,412,796.00
		P(a)	1.00	1.00	P(a)	1,723,792.25	2,383,671.59
		A	0.00	0.00	A	455,067.48	1,114,946.82
Households in target area (Powakka) contracting 24/h electricity from EBS using prepaid meters	Household	P	869.00	1,797.00	P		237,204.00
		P(a)	600.00	1,797.00	P(a)	450,000.00	450,000.00
		A	0.00	0.00	A	65,486.27	65,486.27
Power Station Atjoni (P/S Atjoni) habilitated for hybrid power supply by EBS	Power Station	P	1.00	1.00	P		378,500.00
		P(a)	1.00	1.00	P(a)	312,428.61	696,144.75
		A	0.00	0.00	A	152,126.52	535,842.66
RET-based generating capacity systems procured and installed in Atjoni (kW)	kW	P	500.00	500.00	P	1,750,000.00	2,620,000.00
		P(a)	500.00	500.00	P(a)	1,877,537.00	2,429,947.00
		A	0.00	0.00	A	0.00	20,846.34
Households in target area (Atjoni) contracting electricity 24/h from EBS using prepaid meters	Household	P	494.00	494.00	P		535,000.00
		P(a)	400.00	494.00	P(a)	75,000.00	75,000.00
		A	0.00	0.00	A	65,486.27	65,486.27
Component III. Critical Infrastructure.		Physical Progress		Financial Progress			
Outputs	Unit of Measure	2016	EOP	2016	EOP		
Upgrade EBS Substation S/S C procured and commissioned	Substation	P		1.00	P		2,300,000.00
		P(a)	1.00	1.00	P(a)	951,857.15	3,685,892.38
		A	0.00	0.00	A	0.00	2,734,035.23
Upgrade EBS Substation S/S D procured and commissioned	Substation	P		1.00	P	85,000.00	4,700,000.00
		P(a)		1.00	P(a)	636,744.30	3,314,107.62
		A	0.00	0.00	A	218,269.35	1,649,918.17

<b>Other Cost</b>		<b>2016</b>	<b>Cost</b>
Administration, monitoring, auditing	<b>P</b>	\$500,000.00	\$1,000,000.00
	<b>P(a)</b>	\$160,000.00	\$1,000,000.00
	<b>A</b>	\$86,384.86	\$248,703.86
Contingencies	<b>P</b>	\$150,000.00	\$1,000,000.00
	<b>P(a)</b>		\$1,000,000.00
	<b>A</b>	\$0.00	\$0.00
<b>Total Cost</b>		<b>2016</b>	<b>Total Cost</b>
	<b>P</b>	\$5,499,475.40	\$30,000,000.00
	<b>P(a)</b>	\$9,827,128.56	\$30,094,512.13
	<b>A</b>	\$2,154,210.01	\$12,501,931.22

### Changes to the Matrix

No information related to this operation.

Please note that the Overall Stage represents the stage of the operation at the time of this report's publication, which might not necessarily match the stage of the operation during the PMR Cycle to which the report pertains.