



Sierra Leone Energy Sector Utility Reform Project (P120304)

AFRICA WEST | Sierra Leone | Energy & Extractives Global Practice |
IBRD/IDA | Investment Project Financing | FY 2014 | Seq No: 16 | ARCHIVED on 20-Nov-2021 | ISR47525 |

Implementing Agencies: Ministry of Finance and Economic Development, Government of Sierra Leone, Ministry of Energy, Electricity Distribution and Supply Authority (EDSA), Government of Sierra Leone

Key Dates**Key Project Dates**

Bank Approval Date: 18-Dec-2013	Effectiveness Date: 15-Dec-2014
Planned Mid Term Review Date: 13-Jun-2016	Actual Mid-Term Review Date: 16-Sep-2016
Original Closing Date: 31-Dec-2018	Revised Closing Date: 31-Dec-2022

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The Project Development Objective is to improve the operational performance of the national electricity distribution utility.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

Components Table

Name

Component 1: Distribution Utility Capacity Enhancement and Performance Improvement:(Cost \$18.00 M)
Component 2: Improvement of Electricity Supply in Urban Areas:(Cost \$65.00 M)
Component 3: Sector Planning Assistance, Project Implementation Support and Monitoring and Evaluation:(Cost \$8.00 M)
Component 4: COVID-19 response component:(Cost \$17.00 M)
Component 5: Contingent Emergency Response Component (CERC)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	<input type="checkbox"/> Satisfactory	<input type="checkbox"/> Satisfactory
Overall Implementation Progress (IP)	<input type="checkbox"/> Satisfactory	<input type="checkbox"/> Satisfactory
Overall Risk Rating	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate

Implementation Status and Key Decisions

Overall progress: Overall the implementation of the project is on track and the remaining activities will be completed by its closing date of December 31, 2022. It is expected that PDO will be achieved.

The reliability of the distribution network has improved substantially resulting in improvement on key performance indicators of PDO. The distribution network quality has improved and there has been a significant progress on key performance indicators. The distribution capacity of the 33 kV and 11 kV network increased from 40 MW in 2016 to 78 MW in the second semester of 2021. The Aggregate Technical, Commercial and Collection (ATC) losses have increased to 48% as of August 2021 compared to 46% in September 2020. EDSA informed that actions are ongoing against illegal abstraction, wrong tariff allocation and poor collection from customers with post-paid meters. The implementation by EDSA



of its loss reduction action plan and the grid loss verification activity launched by EDSA and the MoE together with the implementation of IMS will have significant effect on reduce ATC by the closing date of the project in Dec 22. Total number of customers of EDSA stands at 214,563 compared to 185,000 in 2018. EDSA is installing new 20,000 prepaid meters funded by World Bank that will enhance the replacement of faulty meters and start the implementation of the revenue protection plan.

Risks

Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	--	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Macroeconomic	--	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial
Sector Strategies and Policies	--	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Technical Design of Project or Program	--	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Institutional Capacity for Implementation and Sustainability	--	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Fiduciary	--	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial
Environment and Social	--	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial
Stakeholders	--	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Other	--	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Overall	--	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate

Results

PDO Indicators by Objectives / Outcomes

Improve Operational Performance of EDSA				
► Aggregate Technical, Commercial and Collection (ATC&C) Losses of EDSA (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	51.00	48.00	48.00	30.00
Date	30-Dec-2016	31-Mar-2021	31-Oct-2021	30-Dec-2022
Comments:	The combined effect of system loss reduction and collection improvement has reduced the ATC&C losses from about 51 percent in 2016 to 46 percent in September 2020 with a slight increase to 48% in March 2021.			



▶ Average duration of outages per year at the MV level in the project area (Hours, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	117.00	6.82	17.54	45.00
Date	30-Dec-2016	31-Mar-2021	31-Aug-2021	30-Dec-2022
Comments:	The Average duration of outages per year at the MV level in the project area has improved significantly from 117 (baseline) to 23.82 in June 2020 to 6.84 in March 2021			
▶ Average interruption frequency per year at the MV level in the project area (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	183.00	4.00	10.84	75.00
Date	30-Dec-2016	31-Mar-2021	31-Aug-2021	30-Dec-2022
Comments:	Average number of interruptions of service per year. The baseline is calculated based on the observed average of one interruption every two days. The previous actual is modified and baseline and target corrected. The Baseline is 183 and actual as end of March 2021 is 4.00.			
▶ The distribution capacity of the 33 kv and 11 kv network increased (Megawatt, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	40.00	78.00	78.00	130.00
Date	30-Nov-2016	31-Mar-2021	31-Aug-2021	30-Dec-2022
Comments:	The total distribution capacity of EDSA in Freetown increased from about 40 MW in 2016 to about 78 MW as of March 2021. Six (06) substations were rehabilitated and commissioned under ESURP. No additional capacity since September 2020 time of the last ISR.			
▶ People provided with new or improved electricity service (Number, Corporate)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	534,000.00	534,000.00	625,480.00
Date	30-Nov-2016	31-Mar-2021	31-Aug-2021	30-Dec-2022
Comments:	On the number of people benefitting from the project, the network related interruption times and hours per interruption have reduced significantly, so all people supplied with electricity have benefited. This was reinforced with the commissioning of the 06 newly refurbished substations. About 60% of EDSA customers in Freetown benefit from improved electricity.			
□ People provided with new or improved electricity service - Female (Number, Corporate Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	272,340.00	272,340.00	318,995.00



Intermediate Results Indicators by Components

Component 1: Distribution Utility Capacity Enhancement and Performance Improvement				
▶ Contractor for utility operation and management appointed (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	01-Aug-2013	31-Mar-2021	31-Mar-2021	31-Aug-2020
▶ New Management Information System (MIS) installed (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	31-Jan-2019	31-Mar-2021	31-Aug-2021	30-Jun-2021
Comments:	The process of implementing the IMS is ongoing. The Bid Evaluation was cleared by the Bank as end of August 2021. The IMS will be implemented before the closure of the project in Dec 2022.			
Component 2: Improvement of Electricity Supply in Urban Areas				
▶ Substations constructed and rehabilitated under the Project (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	6.00	6.00	10.00
Date	01-Aug-2013	31-Mar-2021	31-Aug-2021	30-Dec-2022
▶ Distribution lines (33kV, 11kV and LV) constructed or rehabilitated under the project (Kilometers, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	271.00	271.00	600.00
Date	01-Aug-2013	31-Mar-2021	31-Aug-2021	30-Dec-2022
Comments:	Construction activities under the two contracts financed by ESURP commenced in June 2019. The Lot2 is completed as today. As for Lot1 related to MV/LV works, the implementation rate is 97.5% as end of April 2021. The contract will closed by end of My 2021.			
□ Distribution lines rehabilitated under the project (Kilometers, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	0.00	254.00	254.00	350.00
Date	01-Aug-2013	30-Sep-2020	31-Aug-2021	30-Dec-2022
► Energy Meters Replaced and Installed (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	20,000.00	20,000.00	50,000.00
Date	20-May-2019	14-May-2021	31-Aug-2021	30-Dec-2022
Comments:	EDSA has replaced and installed around 28,000 meters for customers in Freetown from 2017 until now. The 20,000 meters under ESURP financing was delivered and are under installation.			

Component 3: Sector Planning Assistance, Project Implementation Support and Monitoring and Evaluation				
► Reports of Contractor's performance submitted every year to the Steering Committee (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1.00	1.00	2.00
Date	01-Aug-2013	31-Mar-2021	31-Aug-2021	30-Sep-2020
Comments:	The supervising engineer for the MC resigned in June 2018 and no supervising engineer's report were submitted to the Steering Committee since then. The supervising engineer's performance was considered unsatisfactory, the engineer has not been replaced. MC's performance has been assessed by MOE based on EDSA staff feedback. The MC contract ended in March 2020.			
► Grievances resolved within the stipulated period of time (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	84.00	84.00	90.00
Date	20-May-2019	31-Mar-2021	31-Aug-2021	30-Dec-2022
Comments:	This is linked to the GRM. There were 10 complaints thus far registered by the project and solved			
► Beneficiary feedback surveys undertaken (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1.00
Date	20-May-2019	31-Mar-2021	31-Aug-2021	30-Dec-2022
Comments:	This is going to be a one-time survey to be conducted before the closing date of the project. Survey will be undertaken at the end of 2021			



► Number of Staff Trained (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	494.00	494.00	50.00
Date	31-Dec-2014	31-Mar-2021	31-Aug-2021	30-Dec-2022

Performance-Based Conditions

Data on Financial Performance

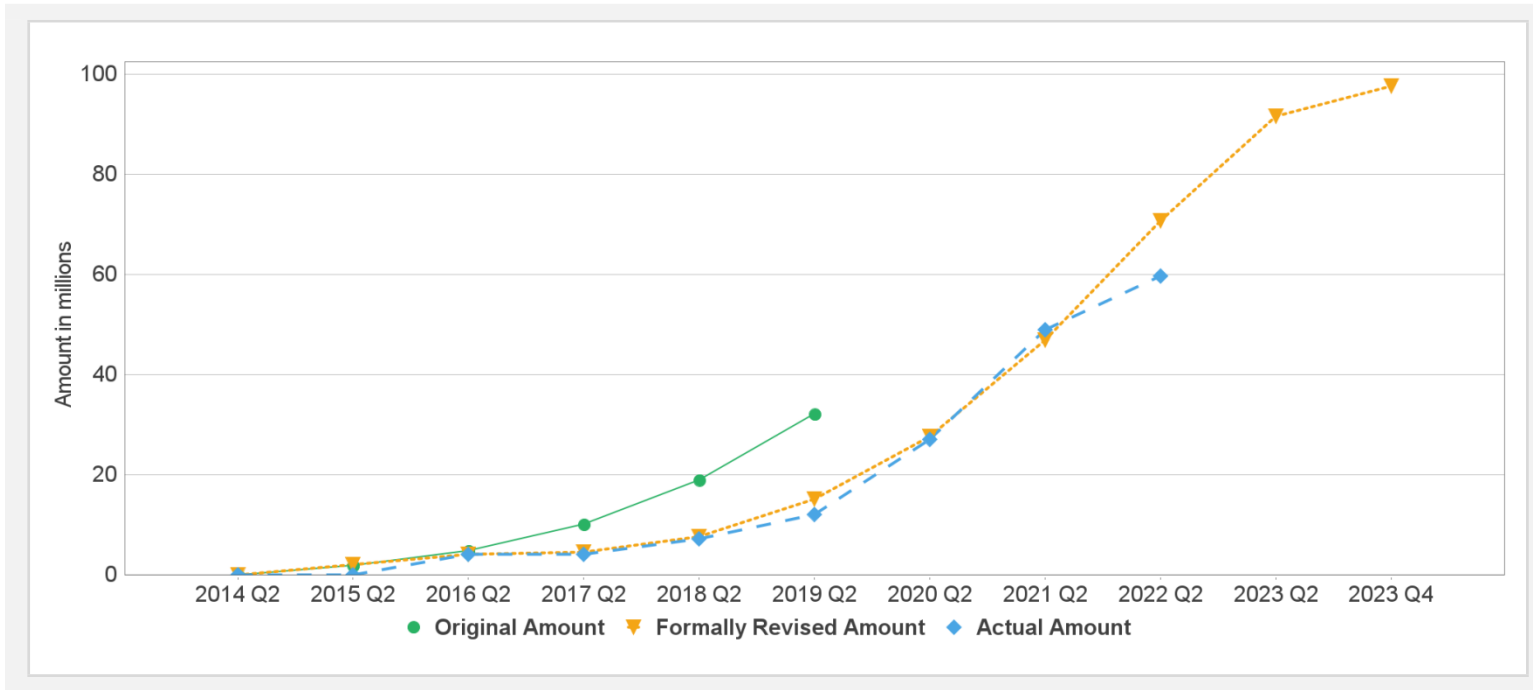
Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P120304	IDA-53330	Effective	USD	40.00	40.00	0.00	35.77	0.67	98%
P120304	IDA-64110	Effective	USD	50.00	50.00	0.00	23.86	27.08	47%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P120304	IDA-53330	Effective	18-Dec-2013	17-Jan-2014	15-Dec-2014	31-Dec-2018	31-Dec-2022
P120304	IDA-64110	Effective	17-May-2019	17-Jun-2019	14-Oct-2019	31-Dec-2022	31-Dec-2022

Cumulative Disbursements



PBC Disbursement

PBC ID	PBC Type	Description	Coc	PBC Amount	Achievement Status	Disbursed amount in Coc	Disbursement % for PBC
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Restructuring History

Level 2 Approved on 07-Apr-2015 ,Level 2 Approved on 22-Jun-2017 ,Level 2 Approved on 09-Jun-2020 ,Level Approved on 22-Jun-2020

Related Project(s)

P166390-Sierra Leone Energy Sector Utility Reform Project Additional Financing