



Electricity Sector Support Project (P125565)

WESTERN AND CENTRAL AFRICA | Senegal | Energy & Extractives Global Practice |
IBRD/IDA | Investment Project Financing | FY 2013 | Seq No: 21 | ARCHIVED on 28-Jun-2022 | ISR52214 |

Implementing Agencies: Ministry of Energy and Mining, Republic of Senegal, SENELEC

Key Dates**Key Project Dates**

Bank Approval Date: 26-Jul-2012

Effectiveness Date: 01-Jan-2013

Planned Mid Term Review Date: 08-Jan-2015

Actual Mid-Term Review Date: 08-Jan-2015

Original Closing Date: 30-Sep-2016

Revised Closing Date: 30-Jun-2022

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The project development objectives are to contribute to (i) reducing SENELEC's technical and commercial losses; and (ii) improving the reliability of electricity services in selected areas focusing primarily on Greater Dakar.

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

Yes

Board Approved Revised Project Development Objective (If project is formally restructured)

The project development objectives are to contribute to (i) reducing SENELEC's technical and commercial losses; and (ii) improving the access to and reliability of electricity services.

Components Table

Name
Component 1: Upgrading and modernization of the Transmission and Distribution Network:(Cost \$159.30 M)
Component 2. Improve SENELEC's commercial performance:(Cost \$72.90 M)
Component 3. Long term strategic outlook:(Cost \$13.10 M)
Component 4. Project implementation, Communication and Monitoring and Evaluation:(Cost \$16.10 M)

Overall Ratings

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

Implementation Status and Key Decisions

The progress of component 1 is estimated at 99% against 97% in March 2022. A field supervision mission took place in February 2022 in the regions of Zighinchor, Sédhiou, Kolda, Tambacounda and Kedougou. High socio-economic impacts of the project were noted, especially in the villages of Dabo and Velingara where densification works finalized in May 2021. Both the (i) improvement of electricity services and the (ii) increase



of connections to the grid, have generated the following impacts: increase of productive uses of electricity (allowing income generating activities), improvement of service quality in health centers, improvement of learning conditions, improvement of security, etc. Densification works in Dakar, as well as grid extension and densification activities in the Kolda region respectively concluded in February and March 2022. These projects allowed the connection of new households to the grid and the improvement of the reliability of the grid (e.g. reduction of voltage drops). Thanks to the construction of new medium voltage backbones connecting isolated centers, Senelec is also planning to decommission secondary power plants in the Kolda region that are using expensive and highly emissive diesel fuel. Concerning component 2, about 29% of targeted vulnerable households have been connected; works are finalized in 8% of market shops to secure electrical installations; and works started to secure electrical installations of households in difficult neighborhoods, with a progress rate of 14%. Senelec is implementing an action plan to accelerate the implementation rate.

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"/> Moderate	<input type="checkbox"/> Moderate
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"/> Moderate	<input type="checkbox"/> Moderate
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

Reduce SENELEC's technical and commercial losses				
► Overall SENELEC recovery rate (total energy billed divided by total energy dispatched) (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	79.00	81.00	81.30	83.50
Date	01-Jan-2013	31-Jan-2022	29-Apr-2022	31-Mar-2022



► Bill collection rate (residential, commercial, industrial, and municipalities) (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	98.00	108.00	98.00
Date	01-Jan-2013	31-Jan-2022	29-Apr-2022	31-Mar-2022
Improve access to and reliability of electricity services				
► Un-served energy (total) per year on the interconnected system (Gigawatt-hour (GWh), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	40.00	13.20	11.95	13.06
Date	31-Dec-2013	31-Jan-2022	29-Apr-2022	31-Mar-2022
► System Average Interruption Frequency Index (SAIFI) in Greater Dakar (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	50.44	11.62	10.00	8.50
Date	31-Dec-2016	31-Jan-2022	29-Apr-2022	31-Mar-2022
► System Average Interruption Duration Index (SAIDI) in Greater Dakar (Hours, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	95.38	7.53	6.70	5.67
Date	31-Dec-2016	31-Jan-2022	29-Apr-2022	31-Mar-2022
► Average response time to customer complaints related to blackouts and malfunctions (LV) (Hours, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	8.00	0.72	0.75	2.00
Date	31-Dec-2015	31-Jan-2022	29-Apr-2022	31-Mar-2022
► Low-income households provided with access to electricity under the project (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1,600.00	1,600.00	37,500.00
Date	01-Jan-2013	31-Jan-2022	29-Apr-2022	31-Mar-2022



▶ Direct project beneficiaries (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	6,024,300.00	12,391,568.00	12,795,320.00	13,212,061.00
Date	01-Jul-2012	31-Jan-2022	29-Apr-2022	31-Mar-2022
□ Female beneficiaries (Percentage, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	50.14	50.14	50.14	50.14

Intermediate Results Indicators by Components

Component 1: Upgrading and modernization of the Transmission and Distribution Network				
▶ Transmission and distribution lines constructed or rehabilitated under the project (Kilometers, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1,348.00	1,613.00	2,278.50
Date	01-Jan-2013	31-Jan-2022	29-Apr-2022	31-Mar-2022
▶ Transmission and distribution lines constructed or rehabilitated in Southern Senegal under the project (Kilometers, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	354.00	354.00	873.00
Date	01-Jan-2020	31-Jan-2022	29-Apr-2022	31-Mar-2022
▶ Total installed capacity of power transformers installed in Southern Senegal under the project. (Kilovolt-Ampere(KVA), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	23,600.00	23,600.00	47,350.00
Date	01-Jan-2013	31-Jan-2022	29-Apr-2022	31-Mar-2022

Component 2. Improve SENELEC's commercial performance				
▶ Number of residential pre-payment meters installed under the Project (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	262,039.00	262,039.00	262,039.00



Date	01-Jan-2013	31-Jan-2022	29-Apr-2022	31-Mar-2022
► Medium and high power customers (above 17kV) with smart meters (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	100.00	100.00	100.00
Date	01-Jan-2013	31-Jan-2022	29-Apr-2022	31-Mar-2022

Component 3. Long term strategic outlook				
► Latest SENELEC generation master plan updated and adopted (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	01-Jan-2013	31-Jan-2022	29-Apr-2022	31-Mar-2022
► Recommendations from SENELEC's accounting separation implemented, including institutional and organizational audit and physical assets audit (Text, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	01-Jan-2013	31-Jan-2022	29-Apr-2022	31-Mar-2022
► Distribution masterplan developed and adopted (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	01-Jan-2020	31-Jan-2022	29-Apr-2022	31-Mar-2022

Performance-Based Conditions

Data on Financial Performance

Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P125565	IDA-51450	Closed	USD	85.00	84.99	0.01	79.41	0.00	100%

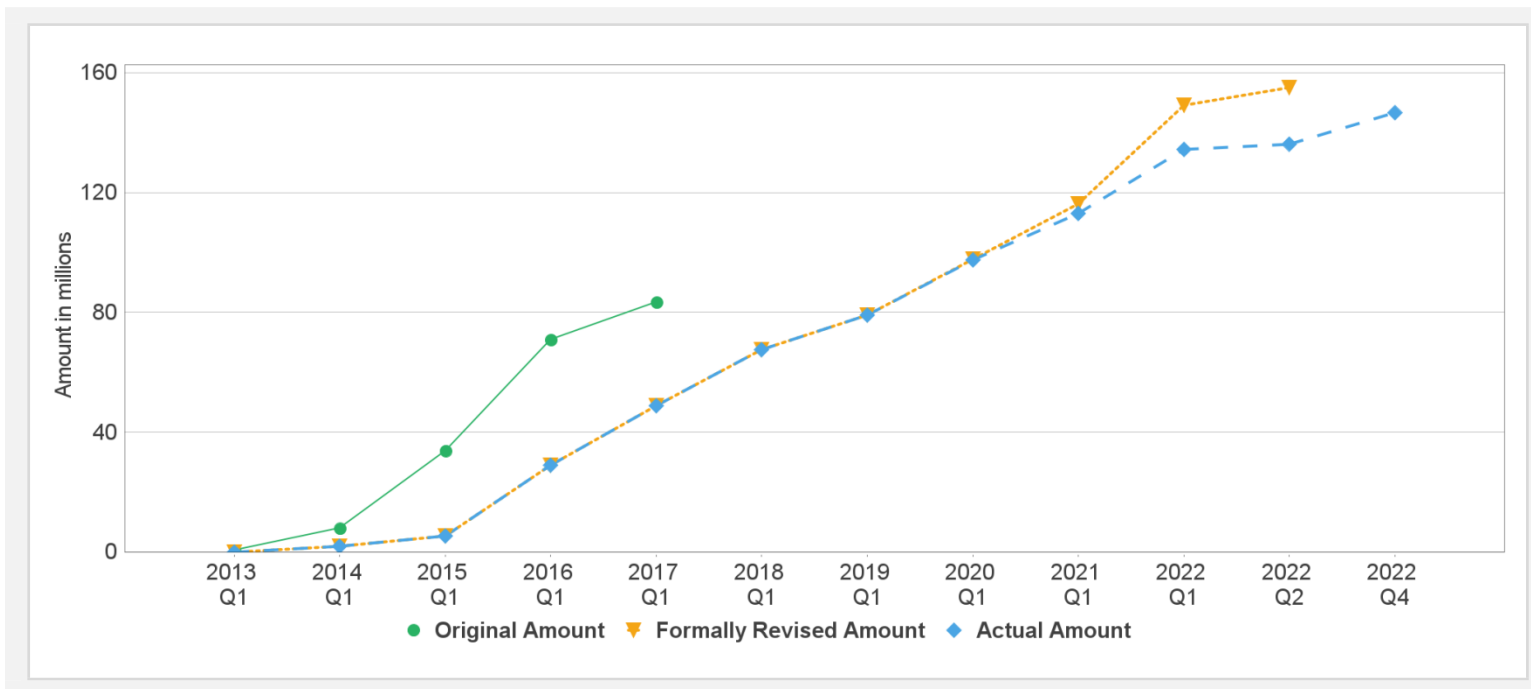


P125565	IDA-58920	Effective	USD	70.00	70.00	0.00	67.13	4.44	<div style="width: 94%; height: 15px; background-color: #4CAF50;"></div>	94%
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Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P125565	IDA-51450	Closed	26-Jul-2012	03-Aug-2012	01-Jan-2013	30-Sep-2016	31-Oct-2020
P125565	IDA-58920	Effective	28-Jul-2016	31-Aug-2016	24-Jan-2017	31-Oct-2020	30-Jun-2022

Cumulative Disbursements



Restructuring History

Level 2 Approved on 07-Aug-2018 ,Level 2 Approved on 01-Oct-2020 ,Level 2 Approved on 17-Mar-2022

Related Project(s)

P158655-Additional Financing to the Senegal Electricity Sector Support Project