



Angola - Electricity Sector Improvement and Access Project (P166805)

EASTERN AND SOUTHERN AFRICA | Angola | Energy & Extractives Global Practice |
IBRD/IDA | Investment Project Financing | FY 2021 | Seq No: 5 | ARCHIVED on 29-Jun-2023 | ISR56712 |

Implementing Agencies: Empresa Nacional de Distribuicao de Electricidade - ENDE, Empresa Publica de Producao de Electricidade - PRODEL, Instituto Regulador dos Serviços de Electricidade e de Águas, Ministerio da Energia e Aguas, Rede Nacional de Transporte de Electricidade - RNT, Republic of Angola

Key Dates

Key Project Dates

Bank Approval Date: 18-Feb-2021

Effectiveness Date: 25-Feb-2022

Planned Mid Term Review Date: 16-Nov-2023

Actual Mid-Term Review Date:

Original Closing Date: 30-Sep-2026

Revised Closing Date: 30-Sep-2026

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The Project Development Objective is to improve the operational performance of the electricity sector utilities and increase electricity access in selected cities in the Republic of Angola.

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

No

Components Table

Name

Electricity access expansion and improvement of revenue collection:(Cost \$250.00 M)

Electricity service improvement:(Cost \$124.00 M)

Improvement of PRODEL's capacity and strengthening sustainable management of generation plants:(Cost \$28.00 M)

Project management support:(Cost \$15.00 M)

Contingent emergency response

Overall Ratings

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

Implementation Status and Key Decisions

The project was approved by the World Bank Board of Directors on February 18, 2021. The project was declared effective on February 25, 2022. Implementation is underway albeit with delays. The project is on track to meet the development objectives but will need to pick up implementation pace.



Risks

Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	☐ Substantial	☐ Substantial	☐ Substantial
Macroeconomic	☐ High	☐ Substantial	☐ Substantial
Sector Strategies and Policies	☐ Substantial	☐ Substantial	☐ Substantial
Technical Design of Project or Program	☐ Substantial	☐ Substantial	☐ Substantial
Institutional Capacity for Implementation and Sustainability	☐ High	☐ High	☐ High
Fiduciary	☐ Substantial	☐ Substantial	☐ Substantial
Environment and Social	☐ Substantial	☐ Substantial	☐ Substantial
Stakeholders	☐ Substantial	☐ Substantial	☐ Substantial
Other	--	--	--
Overall	☐ Substantial	☐ Substantial	☐ Substantial

Results

PDO Indicators by Objectives / Outcomes

Improving the operational performance of the electricity sector				
▶ Reduction of total system losses (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	39.00	39.00	39.00	29.00
Date	18-Feb-2021	16-Dec-2022	23-Jun-2023	30-Sep-2026
Comments:	This indicator measures the difference between the energy injected in the national grid and the energy sold to the end customer. Given the grid energy mix, reduced system losses will result in reduced carbon dioxide emissions. The RPP for ENDE (component 1) is expected to have a positive impact on this indicator.			
▶ Reduction of duration of outages at the transmission system level, SAIDI (Minutes, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	483.00	483.00	483.00	230.00



Date	18-Feb-2021	16-Dec-2022	23-Jun-2023	30-Sep-2026
Comments:	This indicator measures the average outage duration per customer (minutes/year). The SCADA system for RNT (component 2) is expected to have a positive impact on this indicator.			

Increase electricity access in selected cities in Angola				
▶ People provided with new or improved electricity service (Number, Corporate)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1,002,150.00
Date	18-Feb-2021	16-Dec-2022	23-Jun-2023	30-Sep-2026
□ People provided with new or improved electricity service - Female (Number, Corporate Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	521,118.00
□ People provided with access to electricity under the project by household connections (grid or off-grid). (Number, Corporate Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	196,500.00
Date	16-Jul-2020	16-Dec-2022	23-Jun-2023	16-Jul-2025

Intermediate Results Indicators by Components

Electricity access expansion and improvement of revenue collection				
▶ Distribution lines constructed or rehabilitated under the project (Kilometers, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	4,800.00
Date	18-Feb-2021	16-Dec-2022	23-Jun-2023	30-Sep-2026
Comments:	This indicator measures the km of distribution lines constructed or rehabilitated under component 1.1.			
▶ Medium and low voltage transformers constructed under the project (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	730.00
Date	18-Feb-2021	16-Dec-2022	23-Jun-2023	30-Sep-2026



Comments:	This indicator measures the number of medium and low voltage transformers constructed under component 1.1.			
▶ Smart meters installed to customers under a revenue protection program (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	15,000.00
Date	18-Feb-2021	16-Dec-2022	23-Jun-2023	30-Sep-2026
Comments:	This indicator measures the number of smart meters installed under component 1.2.			
▶ Female-headed households provided with new or improved electricity services (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	22.00
Date	18-Feb-2021	16-Dec-2022	23-Jun-2023	30-Sep-2026
Comments:	ENDE will monitor the percentage of female-headed households which are provided with new or improved electricity services. According to World Bank data, Angola has 34.5 percent of female-headed households, and around 22 percent female-headed households in the province of Luanda. https://data.worldbank.org/indicator/SP.HOU.FEMA.ZS			
▶ PCU published reports on beneficiary feedback, including gender disaggregated data (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	18-Feb-2021	16-Dec-2022	23-Jun-2023	30-Sep-2026
Comments:	PCU has published reports on beneficiary feedback, including gender disaggregated data, and how it has been incorporated into the project.			

Electricity service improvement				
▶ Upgraded National Dispatch Center (SCADA) operational installed under the project (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	18-Feb-2021	16-Dec-2022	23-Jun-2023	30-Sep-2026
Comments:	This indicator measures the installation and commissioning of the SCADA system under component 2.			
▶ Increase in installed capacity in transmission substations (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	0.00	0.00	0.00	160.00
Date	18-Feb-2021	16-Dec-2022	23-Jun-2023	30-Sep-2026
Comments:	This indicators measures the increase in installed capacity in transmission substations in MVA as a results of the upgrading interventions under component 2.			
► Transmission substations upgraded under the project (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	2.00
Date	18-Feb-2021	16-Dec-2022	23-Jun-2023	30-Sep-2026
Comments:	This indicator measures the number of transmission substations upgraded under component 2.			
► Business processes reengineering and upgrades of existing information systems for management of corporate resources (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	18-Feb-2021	16-Dec-2022	23-Jun-2023	30-Sep-2026
Comments:	This indicator measures the implementation of business process reengineering and upgrades of the systems as certified by an Independent Verification Agency (IVA).			

Improvement of PRODEL's capacity and strengthening sustainable management of generation plants				
► Upgrade of PRODEL's ERP completed (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	18-Feb-2021	16-Dec-2022	23-Jun-2023	30-Sep-2026
Comments:	This indicator measures the the implementation of the upgrades of ERP "MINIMAL" existing at PRODEL as certified by an IVA.			
► Number of meters installed and operational to monitor PRODEL's generation and billing (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	150.00
Date	18-Feb-2021	16-Dec-2022	23-Jun-2023	30-Sep-2026
Comments:	This indicator measure the number of smart-meters installed at border point to control the energy flow to RNT and financed under component 3.2.			
► Percentage of registered grievances related to service delivery resolved (Percentage, Custom)				



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	100.00
Date	18-Feb-2021	16-Dec-2022	23-Jun-2023	30-Sep-2026
Comments:	This indicator will measure the percentage of complaints received through the GRM system established by the PCU that are addressed.			

Performance-Based Conditions

Data on Financial Performance

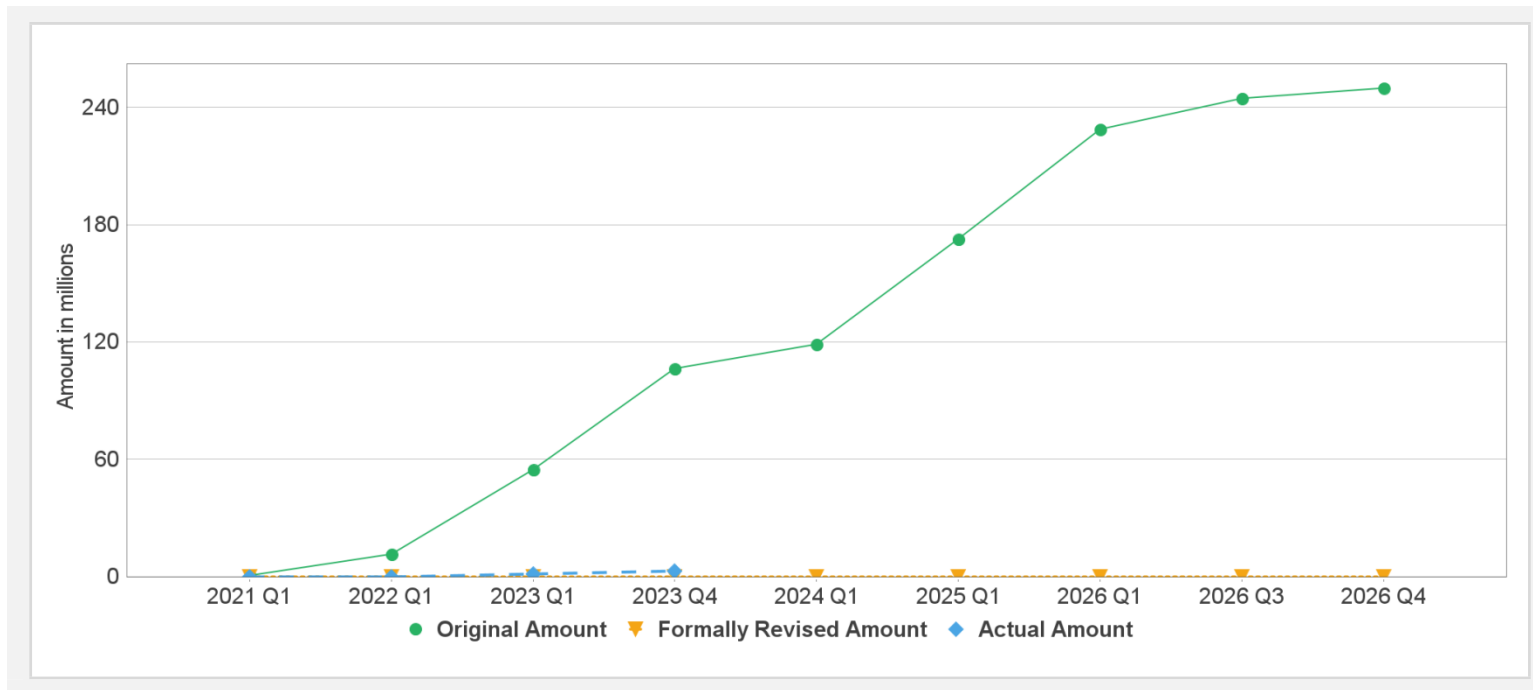
Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P166805	IBRD-92040	Effective	USD	250.00	250.00	0.00	3.37	246.63	1.3%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P166805	IBRD-92040	Effective	18-Feb-2021	13-Jul-2021	25-Feb-2022	30-Sep-2026	30-Sep-2026

Cumulative Disbursements





Restructuring History

There has been no restructuring to date.

Related Project(s)

There are no related projects.
