



Rwanda - Energy Access and Quality Improvement Project (P172594)

EASTERN AND SOUTHERN AFRICA | Rwanda | Energy & Extractives Global Practice |
IBRD/IDA | Investment Project Financing | FY 2021 | Seq No: 4 | ARCHIVED on 29-Jun-2022 | ISR51671 |

Implementing Agencies: Development Bank of Rwanda, Energy Development Corporation Limited, Republic of Rwanda

Key Dates**Key Project Dates**

Bank Approval Date: 17-Sep-2020

Effectiveness Date: 29-Mar-2021

Planned Mid Term Review Date: 31-Mar-2023

Actual Mid-Term Review Date:

Original Closing Date: 31-Dec-2026

Revised Closing Date: 31-Dec-2026

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

Improve access to modern energy for households, enterprises, and public institutions and enhance the efficiency of electricity services in the Republic of Rwanda.

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

No

Components Table

Name

Increasing Access to Grid Electricity:(Cost \$90.00 M)

Enhancing the Efficiency of Electricity Service:(Cost \$30.00 M)

Increasing Access to Off-Grid Electricity and Clean Cooking Solutions:(Cost \$32.00 M)

Technical Assistance, Institutional Capacity Building and Implementation Support:(Cost \$8.00 M)

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

Implementation Status and Key Decisions

Rwanda Energy Access and Quality Improvement Project (EAQIP) was approved by the Board on September 17, 2020 and became effective on March 29, 2021. EAQIP is fourteen months into implementation and progress towards achievement of the PDO remains satisfactory.



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	<input type="checkbox"/> Moderate
Macroeconomic	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial
Sector Strategies and Policies	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Technical Design of Project or Program	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial
Institutional Capacity for Implementation and Sustainability	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial	<input type="checkbox"/> Moderate
Fiduciary	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Environment and Social	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial
Stakeholders	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Other	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial
Overall	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial

Results

PDO Indicators by Objectives / Outcomes

Improved access to modern energy for households, enterprises, and public institutions				
▶ People provided with new or improved electricity service (Number, Corporate)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1,634,000.00
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
▶ Enterprises provided with new or improved electricity service (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	17,000.00
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
Comments:	Enterprises provided with new or improved access to electricity.			
▶ Public institutions (clinics, schools, and administrative centers) provided with new or improved electricity service. (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	0.00	0.00	0.00	51.00
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
Comments:	Clinics, schools, and administrative centers provided with new or improved access to electricity.			
► People provided with new or improved access to clean cooking solutions (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	2,150,000.00
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
Comments:	People provided with new or improved solutions access to clean cooking.			
► Reduction of net CO2 emissions through off-grid electrification and clean cooking solutions (Metric ton, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1,400,000.00
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
Comments:	This indicator captures the CO2 emission reduction as a result of providing solar power based off-grid electricity solutions and efficient clean cooking solutions.			

Enhanced efficiency of electricity service				
► Reduced voltage fluctuations in Rwanda's backbone transmission lines. (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	50.00
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
Comments:	Reduction in voltage fluctuations of +/- 10% in Rwanda's backbone transmission lines.			
► Generation capacity of energy constructed or rehabilitated (Megawatt, Corporate)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	11.25
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
□ Hydropower generation capacity rehabilitated under the project (Megawatt, Corporate Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	11.25



Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
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Intermediate Results Indicators by Components

Increasing access to grid electricity				
▶ Households provided with new or improved access to grid electricity (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	230,000.00
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
Comments:	Households provided with new or improved access to grid electricity.			
□ of which: female-headed households (Percentage, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	24.80
▶ Kilometers of MV lines constructed under the project (Kilometers, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	2,250.00
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
Comments:	This indicator outlines the number of kilometers of 30kV and 15kV lines constructed under the project, in aid of grid-connections of households, trade centres and public institutions.			
▶ Kilometers of LV lines constructed under the project (Kilometers, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	4,088.00
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
Comments:	This indicator outlines the number of kilometers of LV lines constructed under the project, in aid of grid-connections of households, trade centres and public institutions.			
▶ Distribution transformers installed (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1,355.00
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026



Comments:	This indicator outlines the number of transformers installed under the project, in aid of grid-connections of households, trade centres and public institutions.			
► Share of female workers under contracts financed by Component 1 (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	10.00
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
Comments:	This indicator evaluates if the contractors undertaking the project work are employing a minimum specified percentage of female workers on the project work.			

Enhancing the Efficiency of Electricity Service				
► EUCL is able to measure the system losses in the main transmission and distribution network using smart meters. (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
Comments:	This indicator indicates an improvement in EUCL's ability to monitor system losses across the network.			
► Substations equipped with static VAR compensators (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	2.00
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
Comments:	Substations equipped with static VAR compensators			
► Power stations with generation governing systems installed (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	2.00
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
Comments:	Power stations with generation governing systems installed			
► Distribution transformers fitted with smart meters (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	3,000.00



Date	30-Sep-2020	01-Dec-2021	15-Dec-2021	31-Dec-2026
Comments:	This indicator reports the numbers of smart meters installed on network transformers under the project. The baseline is zero			
► Industrial/Commercial customers fitted with smart meters by the project (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	4,000.00
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
Comments:	This indicator reports the numbers of smart meters installed on utility customer premises under the project. The baseline is zero			
► Share of female workers under contracts financed by Component 2 (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	10.00
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
Comments:	This indicator evaluates if the contractors undertaking the project work are employing a minimum specified percentage of female workers on the project work.			

Increasing Access to Off-Grid Electricity and Clean Cooking Solutions				
► Households provided with new or improved access to off-grid electricity (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	150,000.00
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
Comments:	Households provided with new or improved access to off-grid electricity.			
□ of which: female-headed households (Percentage, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	0.00
► Households provided with new or improved access to clean cooking solutions (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	500,000.00
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
Comments:	Households provided with new or improved solutions access to clean cooking			



□ of which: female-headed households (Percentage, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	25.00
▶ Amount of private investment mobilized (Amount(USD), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	19,000,000.00
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
Comments:	Amount of private investment mobilized			
▶ Policies and regulations adopted by the government to support clean cooking market development (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1.00
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
Comments:	Policies and regulations adopted by the governments to support clean cooking market development.			
▶ Share of female workers in enterprises financed by Component 3 (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	10.00
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
Comments:	This indicator evaluates if the off-grid solar home system providers and clean cooking service providers participating in the RBF employ a minimum specified percentage of female workers.			

Technical Assistance, Institutional Capacity Building and Implementation Support				
▶ Impact evaluation studies conducted for the project (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
▶ REG publishes its annual customer satisfaction survey results (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	No	No	No	Yes
Date	30-Jun-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
► Grievances received addressed (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	100.00
Date	30-Sep-2020	01-Dec-2021	15-Mar-2022	31-Dec-2026
Comments:	A project Grievance Redress Mechanism (GRM) is set up; all grievances received are recorded and resolved.			

Performance-Based Conditions

Data on Financial Performance

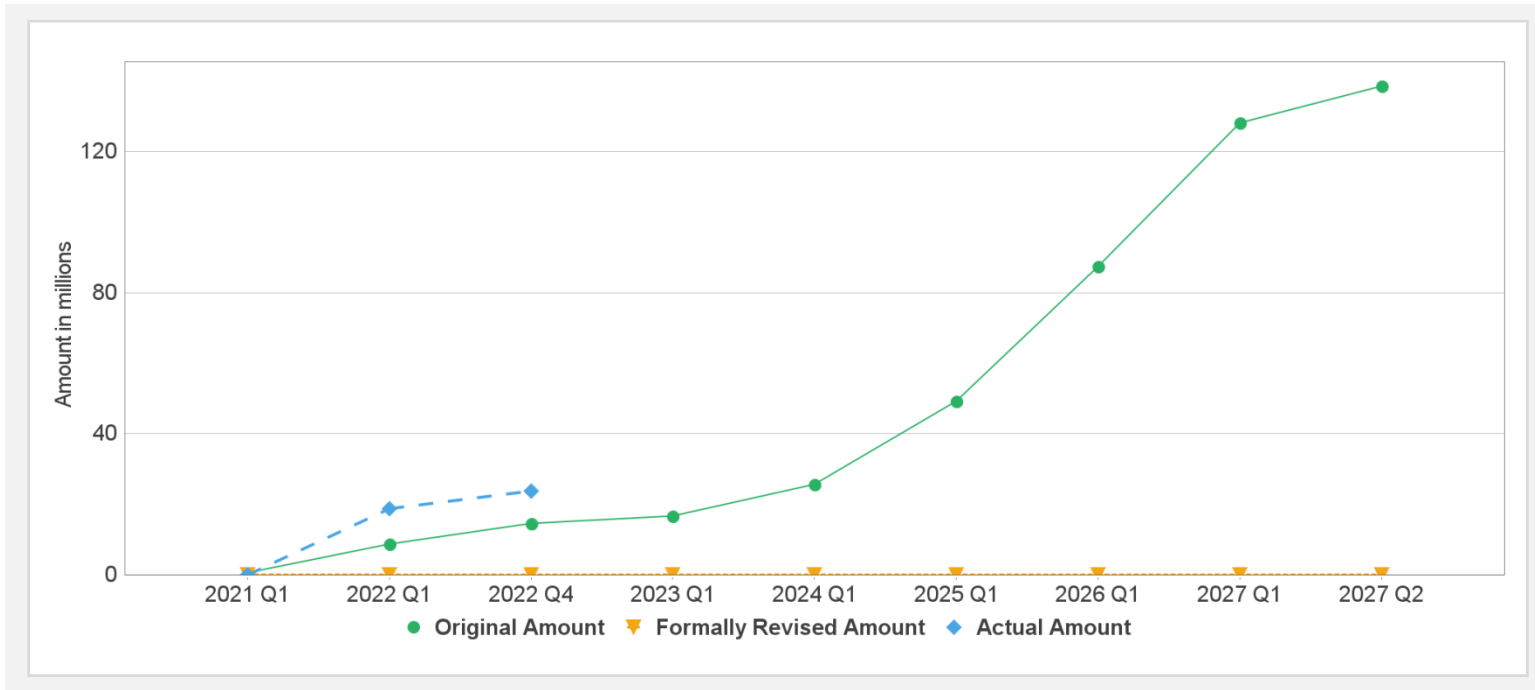
Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P172594	IDA-67760	Effective	USD	75.00	75.00	0.00	9.37	64.09	13%
P172594	IDA-D7210	Effective	USD	75.00	75.00	0.00	13.85	60.33	19%
P172594	TF-B3589	Effective	USD	10.00	10.00	0.00	0.43	9.57	4.3%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P172594	IDA-67760	Effective	17-Sep-2020	24-Sep-2020	29-Mar-2021	31-Dec-2026	31-Dec-2026
P172594	IDA-D7210	Effective	17-Sep-2020	24-Sep-2020	29-Mar-2021	31-Dec-2026	31-Dec-2026
P172594	TF-B3589	Effective	17-Sep-2020	24-Sep-2020	29-Mar-2021	30-Jun-2023	30-Jun-2023

Cumulative Disbursements



Restructuring History

There has been no restructuring to date.

Related Project(s)

P176707-Additional Financing for the Energy Access and Quality Improvement Project