



Kenya Green and Resilient Expansion of Energy (GREEN) Program Phase 2 Project (P180465)

EASTERN AND SOUTHERN AFRICA | Kenya | IBRD/IDA | Investment Project Financing (IPF) | FY 2024 | Seq No: 3 | Archived on 26-Nov-2024 | ISR02306

Implementing Agencies: Kenya Electricity Generating Company PLC (KenGen), Kenya Electricity Transmission Company Limited (KETRACO), Ministry of Energy & Petroleum (MoEP)

1. OBJECTIVE**1.1 Development Objective**

Original Development Objective (Approved as part of Approval package on 26-Dec-2023)

To facilitate increased import of renewable energy and increased capacity of Kenya system to absorb intermittent renewable energy.

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

No

2. COMPONENTS

Name

Component A: Installation of System Stabilization Equipment:(Cost 84,000,000.00)

Component B: Construction of a 400kV substation at Kimuka :(Cost 29,000,000.00)

Component C: Battery Energy Storage Systems :(Cost 78,500,000.00)

Component D: Technical Assistance, Capacity Building and Project Management:(Cost 10,500,000.00)

3. OVERALL RATINGS

Name	Previous	Current
Progress towards achievement of PDO	● Moderately Satisfactory	● Moderately Satisfactory
Overall Implementation Progress (IP)	● Moderately Satisfactory	● Moderately Satisfactory
Overall Risk Rating	● Moderate	● Moderate



4. KEY ISSUES & STATUS

4.1 Implementation Status and Key Decisions

Phase II project of the Kenya Green and Resilient Expansion of Energy (GREEN) Multiphase Programmatic Approach (MPA) Program was approved on December 26, 2023. The Financing Agreements were signed on March 14, 2024. The project is working towards achieving effectiveness conditions.

4.2 MPA Program Development Objective

Original MPA Program Development Objective (Approved as part of (Seq.) package on)

Current MPA Program Development Objective (Approved as part of (Seq.) package on)

4.3 Multiphase Programmatic Approach (MPA) Status (Public Disclosure)

Phase I of the Kenya Green and Resilient Expansion of Energy (GREEN) Multiphase Programmatic Approach (MPA) Program was approved by the Board on June 15, 2023 and the financing agreements signed on December 15, 2023. The program became effective on March 14, 2024.

5. SYSTEMATIC OPERATIONS RISK-RATING TOOL

Risk Category	Rating at Approval Approval Package - 27 Dec 2023	Last Approved Rating ISR Seq. 02 - 02 Oct 2024	Proposed Rating
Political and Governance	● Moderate	● Moderate	● Moderate
Macroeconomic	● Substantial	● Substantial	● Substantial
Sector Strategies and Policies	● Moderate	● Moderate	● Moderate
Technical Design of Project or Program	● Moderate	● Moderate	● Moderate
Institutional Capacity for Implementation and Sustainability	● Substantial	● Substantial	● Substantial
Fiduciary	● Substantial	● Substantial	● Substantial



Environment and Social	● Moderate	● Moderate	● Moderate
Stakeholders	● Moderate	● Moderate	● Moderate
Overall	● Moderate	● Moderate	● Moderate



6. RESULTS

6.1 PDO Indicators by PDO Outcomes

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Indicator Name	Baseline		Actual (Current)		Closing Period	
	Value	Month/Year	Value	Date	Value	Month/Year
Reduced renewable energy curtailment (Gigawatt-hour (GWh))	Comments on achieving targets		Project yet to be effective			
Increased capacity of the Kenya System to transfer power from the Ethiopia-Kenya Interconnector (Text)	Comments on achieving targets		Project yet to be effective			

6.2 Intermediate Results Indicators by Components

Not Categorized						
Indicator Name	Baseline		Actual (Current)		Closing Period	
	Value	Month/Year	Value	Date	Value	Month/Year
400 KV Substation Constructed at Kimuka (Number)	Comments on achieving targets		Project yet to be effective. Bidding documents are at advanced stage.			
Number of STATCOMs installed at Suswa and Rabai (Number)	Comments on achieving targets		Project yet to be effective. Bidding documents are at advanced stage.			
BESS regulatory frameworks prepared and adopted (Yes/No)	Comments on achieving targets		Project yet to be effective			
	Comments on achieving targets		Project yet to be effective			



Installed Capacity of Battery Energy Storage System (Megawatt hour(MWh))		
MVAR of Reactive power added into the System - Rabai (Capacities) (Number)	Comments on achieving targets	Project yet to be effective. Bidding documents are at advanced stage.
Increased share of overall female employment in KETRACO (Percentage)	Comments on achieving targets	Project yet to be effective
Increased share of female in managerial positions in KETRACO (Percentage)	Comments on achieving targets	Project yet to be effective
Increased share of overall female staff in employment in KenGen (Percentage)	Comments on achieving targets	Project yet to be effective
Increased share of female in managerial positions in KenGen (Percentage)	Comments on achieving targets	Project yet to be effective
MVAR of Reactive power added into the System - Rabai (Dynamic) (Number)	Comments on achieving targets	Project yet to be effective. Bidding documents are at advanced stage.
Detailed feasibility study for BESS (Yes/No)	Comments on achieving targets	Procurement of consultants ongoing at REOI stage
MVAR of Reactive power added into the System - Suswa(Dynamic) (Number)	Comments on achieving targets	Project yet to be effective. Bidding documents are at advanced stage.
Transaction advisors appointed to organize a competitive bidding process for privately developed solar energy (Yes/No)	Comments on achieving targets	Project yet to be effective

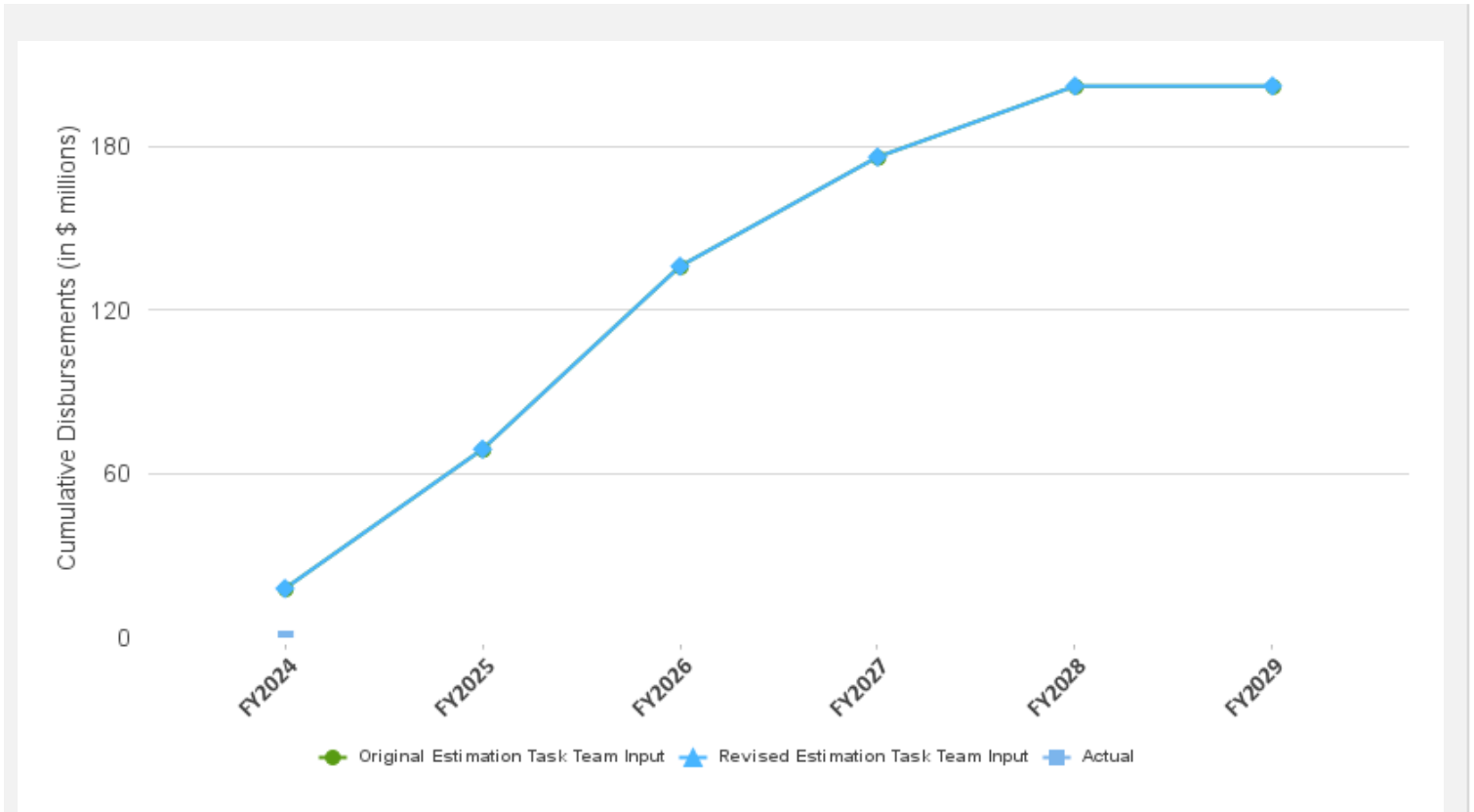


Complaints from the Grievance Redress Mechanism (GRM) addressed (Percentage)	Comments on achieving targets	Project yet to be effective
MVA _r of Reactive power added into the System - Suswa (Reactive) (Number)	Comments on achieving targets	Project yet to be effective. Bidding documents are at advanced stage.
Competitive bidding process for privately developed BESS launched (Yes/No)	Comments on achieving targets	Project yet to be effective
Prefeasibility studies for utility scale solar completed (Number)	Comments on achieving targets	Project yet to be effective



7. DATA ON FINANCIAL PERFORMANCE

7.1 Cumulative Disbursements



7.2 Disbursements (by loan)

Loan/Credit/TF	Status	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed	Historical Disbursed
IDA-74910	Not Effective	153.50	152.42	0.00	0.00	152.42	0%	153.50
TF-C3892	Not Effective	45.00	45.00	0.00	0.00	45.00	0%	45.00

7.3 Key Dates (by loan)

Loan/Credit/TF	Status	Approval	Signing	Effectiveness	Orig. Closing	Rev. Closing
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IDA-74910	Not Effective	26-Dec-2023	14-Mar-2024	30-Jun-2029	30-Jun-2029
TF-C3892	Not Effective	26-Dec-2023	14-Mar-2024	30-Jun-2029	30-Jun-2029

8. KEY DATES

Key Events	Planned	Actual
Approval	21-Dec-2023	27-Dec-2023
Effectiveness	09-Dec-2024	
Mid-Term Review No. 01	30-Jun-2025	
Operation Closing/Cancellation	30-Jun-2029	

9. RESTRUCTURING HISTORY

10. ASSOCIATED OPERATION(S)

There are no associated operations