



## Energy for Rural Transformation III (P133312)

EASTERN AND SOUTHERN AFRICA | Uganda | Energy & Extractives Global Practice |  
IBRD/IDA | Investment Project Financing | FY 2015 | Seq No: 16 | ARCHIVED on 05-May-2023 | ISR55908 |

Implementing Agencies: Republic of Uganda

**Key Dates****Key Project Dates**

Bank Approval Date: 05-Jun-2015

Effectiveness Date: 31-Mar-2016

Planned Mid Term Review Date: 15-Feb-2019

Actual Mid-Term Review Date: 15-Feb-2019

Original Closing Date: 31-Dec-2020

Revised Closing Date: 30-Jun-2023

**Project Development Objectives**

Project Development Objective (from Project Appraisal Document)

The Project Development Objective is to increase access to electricity in rural areas of Uganda.

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

No

**Components Table**

Name

On-grid Energy Access:(Cost \$144.60 M)

Off-grid Energy Access:(Cost \$25.00 M)

Institutional Strengthening and Impacts Monitoring:(Cost \$5.60 M)

Contingency:(Cost \$1.20 M)

**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 World Bank Board approved the Energy for Rural Transformation III (ERT-3) on June 5, 2015, and the project subsequently became effective on March 31, 2016. Project implementation has made good progress, with all key sub-projects under implementation, including grid distribution extension and intensification projects, and the installation of solar energy packages in health centers, water supply schemes, and post-primary education centers. The Project was restructured in November 2022 to extend the project closing date until June 30, 2023. The project will close on June 30, 2023, and the project rating for achieving the project development objectives will be rated moderately unsatisfactory.



## Risks

### Systematic Operations Risk-rating Tool

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

## Results

### PDO Indicators by Objectives / Outcomes

To increase access to electricity in rural areas of Uganda				
▶ Direct project beneficiaries (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	8,759,189.00	8,789,674.00	7,600,000.00
Date	01-Jan-2015	30-Sep-2022	31-Mar-2023	30-Jun-2023
Comments:	Results overachieved due to larger than expected number of household connections to the grid, and institutional solar packages in health centers and water supply schemes.			
☐ Female beneficiaries (Percentage, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	50.00	50.00	50.00	50.00
▶ People provided with access to electricity by household connections (Number, Corporate)				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	0.00	939,953.00	940,678.00	878,333.00
Date	01-Jan-2015	30-Sep-2022	31-Mar-2023	30-Jun-2023
Comments:	Overachieved due to larger than expected number of household connections to the grid. Please note that the Target result was estimated using 5.7 people per household as per the UBOS report on ERT survey in 2012 (see page 14 in the PAD). While the UBOS National Household Survey 2016-2017 has reduced the average household size to 4.7 people per household, the Actual results for the ERT-3 project were still estimated using the same household size as in the PAD, that is, 5.7 people per household.			
<input type="checkbox"/> People provided with access to electricity by hhold connections-Grid (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	923,791.00	923,791.00	850,000.00
Date	01-Jan-2015	30-Sep-2022	31-Mar-2023	30-Jun-2023
<input type="checkbox"/> Ppl provided with elec. by hhold conn.–Offgrid/minigrd–Only renewable sources (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	16,161.00	16,887.00	28,333.00
Date	01-Jan-2015	30-Sep-2022	31-Mar-2023	30-Jun-2023
<input checked="" type="checkbox"/> CO2 emissions reduced/avoided as a result of the project (Metric ton, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	84,769.00	127,205.00	120,000.00
Date	14-May-2015	30-Sep-2022	31-Mar-2023	30-Jun-2023
Comments:	Identified errors in the previous calculation of actual CO2 emission reduced/avoided. The basis for the revised calculations is as follows: 1) CO2 emissions reduced/avoided from grid connections - applied emission factor 0.77 tCO2/year based on information from the PAD (range 0.51 to 0.83 tCO2/year - see page 69 in the PAD); 2) CO2 emissions reduced/avoided from off-grid connections - applied emission factor 0.14 tCO2/household per year (see page 69 in the PAD); 3) CO2 emissions reduced/avoided from off-grid institutional solar in health centers, schools, and water supply schemes. Applied emission factors based on information from the PAD (see page 122), with the following emission factors for health (1.73 tCO2/kWp per year), water (1.34 tCO2/kWp per year), and education (1.54 tCO2/kWp per year).			

### Intermediate Results Indicators by Components

On-grid Energy Access				
<input checked="" type="checkbox"/> Total length of distribution lines constructed under the project (Kilometers, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	0.00	268.00	268.00	1,543.00
Date	01-Jan-2015	30-Sep-2022	31-Mar-2023	30-Jun-2023
Comments:	Construction of distribution lines underachieved target due to delays with RAP implementation.			
<b>► Number of on-grid household connections made under the project (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	163,022.00	163,022.00	150,000.00
Date	01-Jan-2015	30-Sep-2022	31-Mar-2023	30-Jun-2023
Comments:	Number of actual grid connections exceeded target			

<b>Off-grid Energy Access</b>				
<b>► Number of rural health centers with solar PV systems installed (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	329.00	329.00	276.00
Date	01-Jan-2015	30-Sep-2022	31-Mar-2023	30-Jun-2023
Comments:	Number of rural health centers that were electrified with solar PV systems is larger than expected, because the average costing to electrify health center was lower than anticipated, therefore a larger number of health centers could be electrified using the available resources.			
<b>► Total installed capacity of solar PV systems installed at rural health centers (Text, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0 kWp	250 kWp	250 kWp	250 kWp
Date	01-Jan-2015	30-Sep-2022	31-Mar-2023	30-Jun-2023
<b>► Number of rural schools with solar PV systems installed (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	33.00	75.00	89.00
Date	01-Jan-2015	30-Sep-2022	31-Mar-2023	30-Jun-2023
Comments:	The End Target for this indicator was reduced to consider 89 post-primary schools (original estimate was to electrify 100 post-primary schools) with an expected installed capacity of 114 kWp (original estimate was 169 kWp). The PDO indicator for CO2 emissions reduced/avoided is unaffected by this change and will actually be exceeded.			
<b>► Total installed capacity of solar PV systems installed at rural schools (Text, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	0 kWp	42 kWp	98 kWp	114 kWp
Date	01-Jan-2015	30-Sep-2022	31-Mar-2023	30-Jun-2023
Comments:	The End Target for this indicator was reduced to consider 89 post-primary schools (original estimate was to electrify 100 post-primary schools) with an expected installed capacity of 114 kWp (original estimate was 169 kWp). The PDO indicator for CO2 emissions reduced/avoided is unaffected by this change and will actually be exceeded.			
<b>► Total installed capacity of solar PV systems installed at rural water pumping stations (Text, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0 kWp	458 kWp	458 kWp	452 kWp
Date	01-Jan-2015	30-Sep-2022	31-Mar-2023	30-Jun-2023
<b>► Number of off-grid solar system connections made to households and enterprises under the project (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	3,431.00	3,633.00	5,000.00
Date	01-Jan-2015	30-Sep-2022	31-Mar-2023	30-Jun-2023
Comments:	Number of off-grid connections did not achieve the target, as it took the PFIs longer than anticipated to utilize (delays to on-lend the funds to the final beneficiaries for the purchase of solar systems) the funding received under the UECCC-managed facility. The disbursements from UECCC to PFIs has been on target, but the actual impact in terms of off-grid connections using solar systems will be below target.			
<b>► National standards for Solar Home Systems adopted by UNBS (Yes/No, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	01-Jan-2015	30-Sep-2022	31-Mar-2023	30-Jun-2023
<b>► National standards for Pico PV Systems adopted by UNBS (Yes/No, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	01-Jan-2015	30-Sep-2022	31-Mar-2023	30-Jun-2023
<b>► Number of rural water pumping stations with solar PV systems installed (number) (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	27.00	27.00	26.00
Date	01-Jan-2015	30-Sep-2022	31-Mar-2023	30-Jun-2023
<b>► Amount of credit and guarantee extended to Participating Financial Institutions (cumulative) (Text, Custom)</b>				



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0 US\$ million	3.7 US\$ million	3.7 US\$ million	3.8 US\$ million
Date	01-Jan-2015	30-Sep-2022	31-Mar-2023	30-Jun-2023
<b>► Amount of credit and guarantee extended to project beneficiaries by Participating Financial Institutions (cumulative US\$ million equivalent) (Text, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0US\$ million	0.8 US\$ million	0.8 US\$ million	1.3 US\$ million
Date	01-Jan-2015	30-Sep-2022	31-Mar-2023	30-Jun-2023
Comments:	Underachieved due to delays from the PFIs to on-lend funds to final beneficiaries. It is noted that some of these funds will be on-lent to final beneficiaries after the closing date of the Project.			

Institutional Strengthening and Impacts Monitoring				
<b>► Completion of the baseline survey report for ERT-3 (Yes/No, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	12-Feb-2019	30-Sep-2022	31-Mar-2023	30-Jun-2023
Comments:	This indicator will measure the establishment of a baseline for the impact measurement under ERT-3			
<b>► Increase in certified wiremen for household connections (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1,751.00	2,751.00	1,850.00
Date	12-Feb-2019	30-Sep-2022	31-Mar-2023	30-Jun-2023
Comments:	The number of certified wiremen for household connections was larger than anticipated due to the mobilization of additional GOU counterpart financing toward this activity, which contributed to the certification of an additional 1,000 certified wiremen.			

## Performance-Based Conditions

### Data on Financial Performance

#### Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
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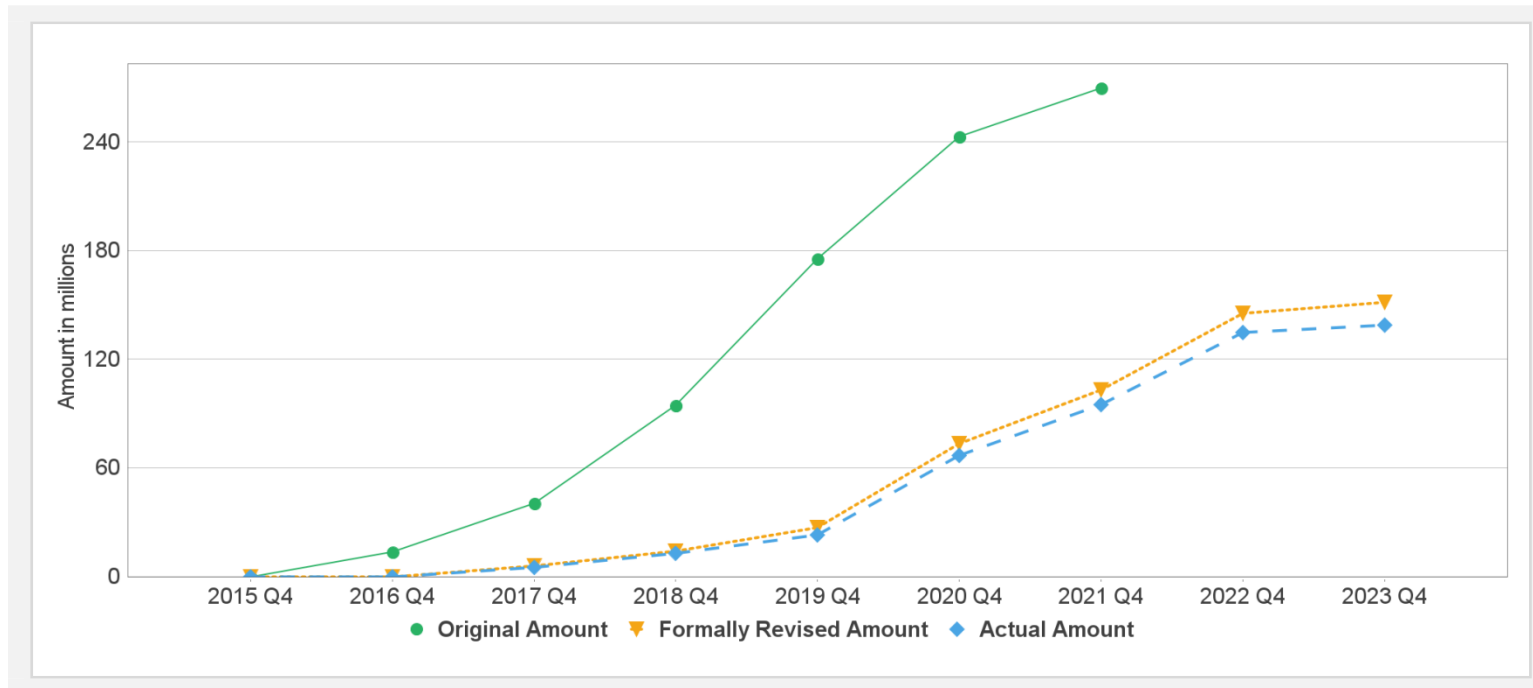


P133312	IDA-56530	Effective	USD	135.00	135.00	0.00	130.78	4.87	<div style="width: 96%;"></div>	96%
P146876	TF-A0294	Closed	USD	8.20	8.20	0.00	8.20	0.00	<div style="width: 100%;"></div>	100%
P159112	TF-A4118	Effective	USD	4.99	4.99	0.00	0.00	4.99	<div style="width: 0%;"></div>	0%

### Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P133312	IDA-56530	Effective	05-Jun-2015	16-Dec-2015	31-Mar-2016	31-Dec-2020	30-Jun-2023
P146876	TF-A0294	Closed	05-Jun-2015	16-Dec-2015	31-Mar-2016	31-Dec-2020	30-Nov-2022
P159112	TF-A4118	Effective	30-Dec-2016	30-Dec-2016	30-Dec-2016	31-Oct-2025	31-Oct-2025

### Cumulative Disbursements



### Restructuring History

Level 2 Approved on 12-Jun-2020 ,Level 2 Approved on 14-Oct-2021 ,Level 2 Approved on 25-Nov-2022

### Related Project(s)

P146876-UG GEF Energy for Rural Transformation III ,P159112-Uganda Rural Electrification ,P178776-Uganda Rural Electricity AF

