The World BankElectricity Network Reinforcement and Expansion Project (ENREP) (P119893)

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AFRICA EAST | Ethiopia | Energy & Extractives Global Practice |

IBRD/IDA | Investment Project Financing | FY 2012 | Seq No: 16 | ARCHIVED on 17-Jun-2021 | ISR47040 |

Implementing Agencies: Development Bank of Ethiopia, Ethiopia Electric Power, Federal Democratic Republic of Ethiopia

Key Dates

Key Project Dates

Bank Approval Date: 29-May-2012 Effectiveness Date: 04-Jan-2013

Planned Mid Term Review Date: 23-Mar-2015 Actual Mid-Term Review Date: 23-Mar-2015

Original Closing Date: 31-Dec-2017 Revised Closing Date: 31-Dec-2021

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The Development Objectives of the Electricity Network Reinforcement and Expansion Project are to improve reliability of the electricity network and to increase access to electricity services in Ethiopia.

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

No

Public Disclosure Authorized

Components Table

Name

Reinforcement and Expansion of Electricity Network: (Cost \$197.00 M)

Access Scale-Up:(Cost \$154.00 M)

Market Development for Renewable Energy and Energy Efficient Products:(Cost \$59.00 M)

Modernization Support:(Cost \$68.00 M)

Overall Ratings

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

Implementation Status and Key Decisions

Overall, the Project faces challenges on timely completion due to lengthy procurement processes, safeguard issues and COVID-19 related delays. Progress in the implementation of each component is detailed below:

Component 1: Reinforcement and expansion of electricity networks (US\$100 million original credit, US\$90 million AF, total US\$190 million). The transmission strengthening project (Contract H) with the scope of installing a second 230 kV circuit on the existing system is completed - but awaits remedial work to install and string five additional towers. The ongoing construction of three single circuit 230 kV lines and substations is also

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progressing well, except in the case of Metu-Masha transmission line, where work has been stalled due to deficiencies in safeguard documentation. EEP is appointing consultants to help address deficiencies in the safeguard documents.

Component 2: Access scale up (US\$50 million original credit, US\$70 million AF, total US\$120 million). This component had earlier suffered major delays, due to EEU's difficulties in procuring and supervising contracts. All contracts are now in place and works on the three lots for the Six-Town Project have commenced in January and February 2020. However, the progress of physical activities impacted with delays due to land acquisition challenges the project encountered. Earlier, the eight-town project, for the upgrading and expansion of medium voltage (MV) and low voltage (LV) distribution networks was completed (only minor corrections are now taking place). Contracts for 150,000 new connections in cities covered under the eight-town and six-town contracts are in the equipment and material manufacturing stage.

Component 3: Market development for renewable energy and energy efficient products (US\$20 million original credit, US\$20 million AF, US\$5 million TF0A2302, total US\$45 million). The credit line is now fully subscribed, and 1,375,752 solar lanterns and solar home systems have been procured.

Component 4: Modernization support (US\$10 million original credit, US\$20 million AF, total US\$30 million). The component finances, among others, a new enterprise resource planning (ERP) system for EEU, whose implementation is completed as of end of October 2019. There are no major decisions pending in the context of the implementation of this project, except for the issue of the Metu-Masha transmission line as stated above.

Risks

Systematic Operations Risk-rating Tool

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

Results

PDO Indicators by Objectives / Outcomes

Increase access to electricity services in Ethiopia							
▶ Direct project beneficiaries (Number, Custom)							
	Baseline	Actual (Previous)	Actual (Current)	End Target			
Value	0.00	5,259,145.00	5,259,145.00	7,552,700.00			
Date	30-Jun-2011	29-Nov-2019	15-Jun-2021	31-Dec-2021			

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Comments:	This number is based on the number of households having access to modern energy services.						
□Female beneficiari	ies (Percentage, Custom Suppler	ment)					
	Baseline	Actual (Previous)	Actual (Current)	End Target			
Value	0.00	50.00	50.00 50.00				
►Access: Number of	HHs connected to the grid (Numl	per, Custom)					
	Baseline	Actual (Previous)	Actual (Current)	End Target			
Value	0.00	0.00	0.00	150,000.00			
Date	30-Jun-2011	29-Nov-2019	15-Jun-2021	31-Dec-2021			
Comments:	The 150,000 conne	ctions project has not yet been	launched. Offers are being	evaluated.			
➤ Access: Number of	HHs with access to modern ener	gy services (off-grid) (Number,	Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target			
Value	0.00	1,141,829.00	1,375,752.00	1,500,000.00			
Date	30-Jun-2011	29-Nov-2019	15-Jun-2021	31-Dec-2021			
Comments:		imber of solar products imported to increase significantly in the		by private companies. This			

Reliability: System	Average Interruption Frequency I	ndex. SAIFI, in the project area	s. (Number, Custom)	
. tomaomity. Gyotom.			o. (a	
	Baseline	Actual (Previous)	Actual (Current)	End Target
alue	178.00	101.00	101.00	89.00
ate	31-Dec-2015	29-Nov-2019	15-Jun-2021	31-Dec-2021
omments:	This is for the system	m as a whole (measured by EE	P).	
□SAIFI - Project Are	ea 1 (7 towns) (Number, Custom	Breakdown)		
□SAIFI - Project Are	ea 1 (7 towns) (Number, Custom Baseline	Breakdown) Actual (Previous)	Actual (Current)	End Target
,		,	Actual (Current)	End Target 98.00
Value	Baseline	Actual (Previous)		
Value Date	Baseline 196.00	Actual (Previous) 100.00 29-Nov-2019	100.00	98.00
Value Date	Baseline 196.00 31-Dec-2015	Actual (Previous) 100.00 29-Nov-2019	100.00	98.00

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Date 31-Dec-2015 29-Nov-2019 15-Jun-2021 31-Dec-2021
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Intermediate Results Indicators by Components

N Dallahill Out	Access to Laterania Com Daniella	day CAIDI in the continut	(Harris Orieta ii)	
► Reliability: Syster	n Average Interruption Duration Inc	dex, SAIDI, in the project areas	(Hours, Custom)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	258.00	150.00	150.00	129.00
Date	28-Jan-2016	29-Nov-2019	15-Jun-2021	31-Dec-2021
□Project Area 1 (7 towns) (Hours, Custom Breakdov	vn)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	224.00	221.00	221.00	112.00
Date	28-Jan-2016	29-Nov-2019	15-Jun-2021	31-Dec-2021
□Project Area 2 (6 towns) (Hours, Custom Breakdov	vn)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	298.00	298.00	298.00	149.00
Date	28-Jan-2016	29-Nov-2019	15-Jun-2021	31-Dec-2021
► Segments of trans	smission lines constructed, upgrad	ed or rehabilitated (km) (Kilome	eters, Custom)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	458.00	458.00	609.00
Date	30-Jun-2011	29-Nov-2019	15-Jun-2021	31-Dec-2021
►Number of Substa	ations constructed or upgraded und	der the project (Number, Custon	n)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	25.00	25.00	30.00
Date	30-Jun-2011	29-Nov-2019	15-Jun-2021	31-Dec-2021
►Time to complete	EEP entity audit report (Months, C	Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target

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Date	01-Mar-2012	29-Nov-2019	15-Jun-2021	31-Dec-2021					
►Number of EEP reta	ined procurement staff (Number,	Custom)							
	Baseline	Actual (Previous)	Actual (Current)	End Target					
Value	1.00	1.00	1.00	4.00					
Date	30-Jun-2011	31-Dec-2021							
► Number of EEP/EEU Staff Trained (Number, Custom)									
	Baseline	Actual (Previous)	Actual (Current)	End Target					
Value	0.00	80.00	80.00	90.00					
Date	30-Jun-2011	29-Nov-2019	15-Jun-2021	31-Dec-2021					
Access Scale-Up									
►Total Energy Sales i	n the project areas (Gigawatt-ho	ur (GWh), Custom)							
	Baseline	Actual (Previous)	Actual (Current)	End Target					
Value	0.00	1,564.00	1,564.00	2,240.00					
Date	30-Jun-2011	29-Nov-2019	15-Jun-2021	31-Dec-2021					
► Segments of distribu	ution lines constructed, upgraded	or rehabilitated (Kilometers, C	ustom)						
	Baseline	Actual (Previous)	Actual (Current)	End Target					
Value	0.00	1,260.10	1,260.10	3,338.00					
Date	28-Jan-2016	29-Nov-2019	15-Jun-2021	31-Dec-2021					
Market Development fo	or Renewable Energy and Energy	/ Efficient Products							
►Number of biogas pl	ants installed (Number, Custom)								
	Baseline	Actual (Previous)	Actual (Current)	End Target					
Value	0.00	8,624.00	8,625.00	10,000.00					
Date	30-Jun-2011	29-Nov-2019	15-Jun-2021	31-Dec-2021					
Comments:	As of March 31, 201	8							
► Number of Solar Lar	nterns Procured (Number, Custor	m)							
	Baseline	Actual (Previous)	Actual (Current)	End Target					
Value	0.00	1,056,472.00	1,169,912.00	1,300,000.00					

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30-Jun-2011	29-Nov-2019	15-Jun-2021	31-Dec-2021	
ome Systems Procured (Number	, Custom)			
Baseline	Actual (Previous)	Actual (Current)	End Target	
0.00	84,766.00	205,840.00	200,000.00	
30-Jun-2011	29-Nov-2019	15-Jun-2021	31-Dec-2021	
As of March 31, 20	18			
avings lamps imported and distr	ibuted (Number, Custom)			
Baseline	Actual (Previous)	Actual (Current)	End Target	
245,424.00	806,428.00	806,428.00	500,000.00	
28-Jan-2016	29-Nov-2019	15-Jun-2021	31-Dec-2021	
cookstoves distributed (Number,	Custom)			
Baseline	Actual (Previous)	Actual (Current)	End Target	
0.00	138.00 138.00		500.00	
30-Jun-2011	29-Nov-2019	15-Jun-2021	31-Dec-2021	
ns given to HHs (Amount(USD),	Custom)			
Baseline	Actual (Previous)	Actual (Current)	End Target	
0.00	10,579,164.55	12,976,526.67	11,000,000.00	
30-Jun-2011	29-Nov-2019	15-Jun-2021	31-Dec-2021	
30-Jun-2011 ans given to female applicants (9			31-Dec-2021	
			31-Dec-2021 End Target	
ans given to female applicants (9	%) (Amount(USD), Custom Brea	akdown)		
ans given to female applicants (9	%) (Amount(USD), Custom Brea	akdown) Actual (Current)	End Target	
ans given to female applicants (9 Baseline 28.66	%) (Amount(USD), Custom Brea Actual (Previous) 56.00	Actual (Current) 56.00	End Target 50.00	
ans given to female applicants (9 Baseline 28.66 28-Jan-2016	%) (Amount(USD), Custom Brea Actual (Previous) 56.00	Actual (Current) 56.00	End Target 50.00	
ans given to female applicants (9 Baseline 28.66 28-Jan-2016 ven to HHs (Number, Custom)	%) (Amount(USD), Custom Brea Actual (Previous) 56.00 29-Nov-2019	Actual (Current) 56.00 15-Jun-2021	End Target 50.00 31-Dec-2021	
ans given to female applicants (9 Baseline 28.66 28-Jan-2016 ven to HHs (Number, Custom) Baseline	%) (Amount(USD), Custom Brea Actual (Previous) 56.00 29-Nov-2019 Actual (Previous)	Actual (Current) 56.00 15-Jun-2021 Actual (Current)	End Target 50.00 31-Dec-2021 End Target	
ans given to female applicants (9 Baseline 28.66 28-Jan-2016 ven to HHs (Number, Custom) Baseline 0.00	Actual (Previous) 56.00 29-Nov-2019 Actual (Previous) 211,909.00 29-Nov-2019	Actual (Current) 56.00 15-Jun-2021 Actual (Current) 217,691.00	End Target 50.00 31-Dec-2021 End Target 200,000.00	
•	Baseline 0.00 30-Jun-2011 As of March 31, 20 Baseline 245,424.00 28-Jan-2016 Cookstoves distributed (Number, Baseline 0.00 30-Jun-2011 Baseline 0.00 Baseline 0.00 Baseline 0.00 Baseline	Baseline Actual (Previous) 0.00 84,766.00 30-Jun-2011 29-Nov-2019 As of March 31, 2018 avings lamps imported and distributed (Number, Custom) Baseline Actual (Previous) 245,424.00 806,428.00 28-Jan-2016 29-Nov-2019 cookstoves distributed (Number, Custom) Baseline Actual (Previous) 0.00 138.00 30-Jun-2011 29-Nov-2019 as given to HHs (Amount(USD), Custom) Baseline Actual (Previous)	Baseline Actual (Previous) Actual (Current) 0.00 84,766.00 205,840.00 30-Jun-2011 29-Nov-2019 15-Jun-2021 As of March 31, 2018 avings lamps imported and distributed (Number, Custom) Baseline Actual (Previous) Actual (Current) 245,424.00 806,428.00 806,428.00 28-Jan-2016 29-Nov-2019 15-Jun-2021 cookstoves distributed (Number, Custom) Baseline Actual (Previous) Actual (Current) 0.00 138.00 138.00 30-Jun-2011 29-Nov-2019 15-Jun-2021 as given to HHs (Amount(USD), Custom) Baseline Actual (Previous) Actual (Current) Actual (Current) Actual (Previous) Actual (Current) Actual (Previous) Actual (Previous)	

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Value	34.45	60.00	60.00	50.00	
Date	29-Jan-2016	29-Nov-2019	15-Jun-2021	31-Dec-2021	
Date	29-Jan-2010	29-NOV-2019	19-Juli-2021	31-Dec-2021	
►NPL Ratio of HH L	oan Portfolio (Percentage, Custo	m)			
	Baseline	Actual (Previous)	Actual (Current)	End Target	
Value	0.00	0.00 0.00		5.00	
Date	30-Jun-2011	29-Nov-2019	15-Jun-2021	31-Dec-2021	
►Number of Partner	MFIs (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target	
Value	0.00 14.00 14.00		14.00	25.00	
Date	30-Jun-2011	29-Nov-2019	15-Jun-2021	31-Dec-2021	
►Woreda covered b	y credit line (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target	
Value	0.00	135.00	135.00	150.00	
Date	30-Jun-2011	29-Nov-2019	15-Jun-2021	31-Dec-2021	
► Total amount of loa	ans given to PSEs (Amount(USD), Custom)			
	Baseline	Actual (Previous)	Actual (Current)	End Target	
Value	0.00	19,075,377.43	24,228,371.39	29,000,000.00	
Date	30-Jun-2011	29-Nov-2019	15-Jun-2021	31-Dec-2021	
Comments:	As of March 31, 20	018			
►Number of loans g	iven to PSEs (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target	
Value	0.00	29.00	33.00	30.00	
Date	30-Jun-2011	29-Nov-2019	15-Jun-2021	31-Dec-2021	
Comments:	As of March 31, 20	018			
►NPL Ratio of the P	SE Loan Portfolio (Percentage, 0	Custom)			
	Baseline	Actual (Previous)	Actual (Current)	End Target	
Value	0.00	0.00	8.50	5.00	
	30-Jun-2011				

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Modernization Support				
► Number of gender infor	rmed awareness events held ((Number, Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	7.00	7.00	9.00
Date	30-Jun-2011	29-Nov-2019	15-Jun-2021	31-Dec-2021
►EEP publishes annual	report on citizen engagement	(Yes/No, Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	28-Jan-2016	29-Nov-2019	15-Jun-2021	31-Dec-2021
Comments:	FEU published a rer	port on gender and citizen enga	gement	

Performance-Based Conditions

Data on Financial Performance

Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P119893	IDA-51260	Effective	USD	200.00	200.00	0.00	182.84	0.84	100%
P119893	IDA-58140	Effective	USD	200.00	200.00	0.00	80.83	121.31	40%
P119893	TF-A2302	Closed	USD	5.00	4.90	0.10	4.90	0.00	100%
P153864	TF-A2909	Effective	USD	11.11	11.11	0.00	0.39	10.71	3.5%
P153425	TF-A2910	Effective	USD	9.08	9.08	0.00	0.00	9.08	0%

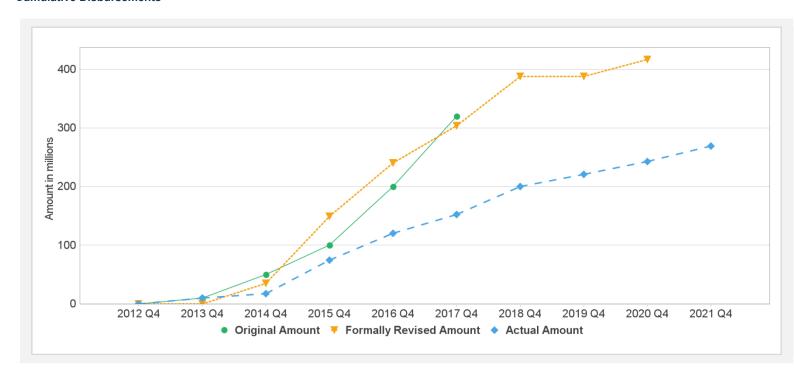
Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P119893	IDA-51260	Effective	29-May-2012	12-Jun-2012	04-Jan-2013	31-Dec-2017	31-Dec-2021
P119893	IDA-58140	Effective	27-May-2016	15-Jun-2016	31-Aug-2016	30-Jun-2019	31-Dec-2021
P119893	TF-A2302	Closed	27-May-2016	15-Jun-2016	31-Aug-2016	31-Aug-2017	30-Apr-2019
P153864	TF-A2909	Effective	27-Jun-2016	14-Jul-2016	14-Jul-2016	31-Oct-2025	31-Oct-2025

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P153425	TF-A2910	Effective	14-Jul-2016	14-Jul-2016	14-Jul-2016	31-Oct-2025	31-Oct-2025

Cumulative Disbursements



Restructuring History

Level 2 Approved on 26-Aug-2014 ,Level 2 Approved on 22-Aug-2017 ,Level 2 Approved on 24-Aug-2018 ,Level 2 Approved on 31-May-2019

Related Project(s)

 $P153425\text{-}ET\ Clean\ Cooking\ Energy\ Program\ ,} P153864\text{-}ETHIOPIA\ OFF}{\sim}GRID\ RENEWABLE\ ENERGY\ PROGRAMME\ OF\ ACTIVITIES\ ,} P155563\text{-}ENREP\ ADDITIONAL\ FINANCING$

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