



Ghana: Energy Development and Access Project (P074191)

AFRICA | Ghana | Energy & Extractives Global Practice |
IBRD/IDA | Specific Investment Loan | FY 2008 | Seq No: 15 | ARCHIVED on 30-Jun-2016 | ISR24276 |

Implementing Agencies: Electricity Company of Ghana, VRA (TF090542)

Key Dates

Key Project Dates

Bank Approval Date:26-Jul-2007

Effectiveness Date:06-Dec-2007

Planned Mid Term Review Date:--

Actual Mid-Term Review Date:19-Feb-2010

Original Closing Date:30-Nov-2012

Revised Closing Date:31-Jul-2017

Project Development Objectives

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Project Development Objective (from Project Appraisal Document)

To improve the operational efficiency of the electricity distribution system and increase the population s access to electricity.

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

No

Ghana Rural Energy Accesss (P070970)

Global Environmental Objective (from Project Appraisal Document)

The global environmental objective of the project is to support transition to a low-carbon economy through the reduction of greenhouse gas emissions (GHG) in line with the United Nations Framework Convention on Climate Change and its Kyoto Protocol, to which Ghana is a Party (GEF OP 5 and 6).

Has the Global Environmental Objective been changed since Board Approval of the Project Objective?

No

Components

Name

Revenue collection Improvement:(Cost \$55.00 M)

Management and planning enhancement:(Cost \$5.00 M)

Sector & Institutional Development:(Cost \$14.00 M)



Electricity Distribution Improvement:(Cost \$94.00 M)

Electricity Access & Renewable Energy:(Cost \$101.00 M)

Overall Ratings

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

Implementation Status and Key Decisions

Component B: Distribution System Improvement

About 18,200 of new split-type prepayment meters have been installed in Ashanti East region and all additional 71,000 meters have been delivered to ECG warehouse.

After the roll out of the ECG Customer Management System (CMS) at beginning of the year, two technical glitches were found in February 2016 but both have been resolved: (i) There were reports of software glitch in the handheld meter reading devices, which was resolved and the resulting billing anomalies fully addressed by March 2016, and (ii) Online billing, a part of the scope of the CMS functionalities, but faced problems due to lack of capacity and reliability of communication system – offline billing is being applied without any negative effect in the execution of the revenue cycle.

There has been accusations of improper billing due to the CMS, which received media and parliamentary attention in May 2016. The issue seem to have been triggered by consumers who got high electricity bills due to the following compounding factors: a) Tariff increase, (b) Increased electricity supply/consumption, (c) Irregular billing that include several billing cycles. Though there are no outstanding technical issues of CMS that impact billing accuracy, preliminary data indicate a drop in collection rate indicates that this perception could potentially lead to revenue issues for ECG. ECG has taken proactive measures, including hiring of consultants on utility commercial operations and directive to be issued by the Managing Director to ensure full compliance with corporate guidelines on billing, to address organizational issues that will allow them to fully utilize the CMS capabilities.

Component C: The mini-grid pilot investments

The only remaining part of the project's renewable energy components have seen some slippages, but all are expected to be commissioned by end June 2016.

Second Additional Financing

The Minister of Finance has now drafted and signed a cabinet memo on signing of the Second Additional Financing for GEDAP, approved by the World Bank Board in April 2015. The Government is planning to submit the financing agreement for cabinet approval by end June 2016, and to the Parliament by end July 2016.







Risks

Systematic Operations Risk-rating Tool

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

Results

Project Development Objective Indicators

► Direct project beneficiaries (Number, Core)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	1300000.00	1350000.00	1380000.00	1950000.00
Date	01-Apr-2007	30-Jun-2015	31-Dec-2015	31-Jul-2017

▲ Female beneficiaries (Percentage, Core Supplement)



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	51.00	51.00	51.00	51.00

► ECG Performance Verification Index (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	68.90%	73.5%	74.02%	90%
Date	01-Apr-2007	31-Dec-2014	31-Dec-2015	31-Jul-2017

Overall Comments

Global Environmental Objective Indicators

► Tonnes of CO2 Avoided through the adoption of Renewable Energy (Amount(USD), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	24898.00	36395.28	250000.00
Date	27-Apr-2014	01-Apr-2015	31-Dec-2015	31-Jul-2017

Overall Comments

Intermediate Results Indicators

► Average annual hours of unplanned power outages per consumer in ECG system (Hours, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	200.00	130.00	90.00	90.00
Date	01-Apr-2007	31-Dec-2014	31-Dec-2015	31-Jul-2017



▶ Annual ratio of ECG revenues over its costs (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.95	--	1.14	>1
Date	31-Dec-2011	31-Dec-2013	31-Dec-2014	31-Jul-2017

▶ Electricity losses per year in the project area (Percentage, Core)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	26.00	24.10	22.27	20.00
Date	01-Apr-2007	01-Dec-2014	31-Dec-2015	31-Jul-2017

▲ Total net injected generation (Megawatt hour(MWh), Core Supplement)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	8370000.00	8370000.00	7549600.00	11570000.00

▲ Electricity losses per year in the project area- Technical (Percentage, Core Supplement)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	10.20	10.20	10.20	10.20



▲ Electricity losses per year in the project area- Non-Technical (Percentage, Core Supplement)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	13.90	13.90	12.07	9.80

▶ Billed revenue (GWh) in the targeted consumer segments (above 600 units/month) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	3592.00	3592.00	3489.21	5851.00
Date	31-Dec-2014	31-Dec-2014	31-Dec-2015	31-Jul-2017

▶ ECG annual accounts receivable (excluding government agencies and departments and the Ghana Water Company Ltd) equivalent to number of days of annual sales (Text, Custom)



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	150 days	156 days	132 days	90 days
Date	01-Apr-2007	31-Dec-2014	31-Dec-2015	31-Jul-2017

Overall Comments

The load shedding program during 2015 has led to the intermediate indicators for power generation (Total Net Injected Generation, Billed Revenue) to decrease. With Karpower and Ameri having been commissioned by beginning of 2016, we expect that these indicators would recover substantially.

Data on Financial Performance

Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	Disbursed
P074191	IDA-43560	Effective	USD	90.00	90.00	0.00	90.69	0.62	 101%
P074191	IDA-47300	Effective	USD	70.00	70.00	0.00	65.33	3.08	 93%
P147878	IDA-56290	Not	USD	60.00	60.00	0.00	0.00	60.05	0%

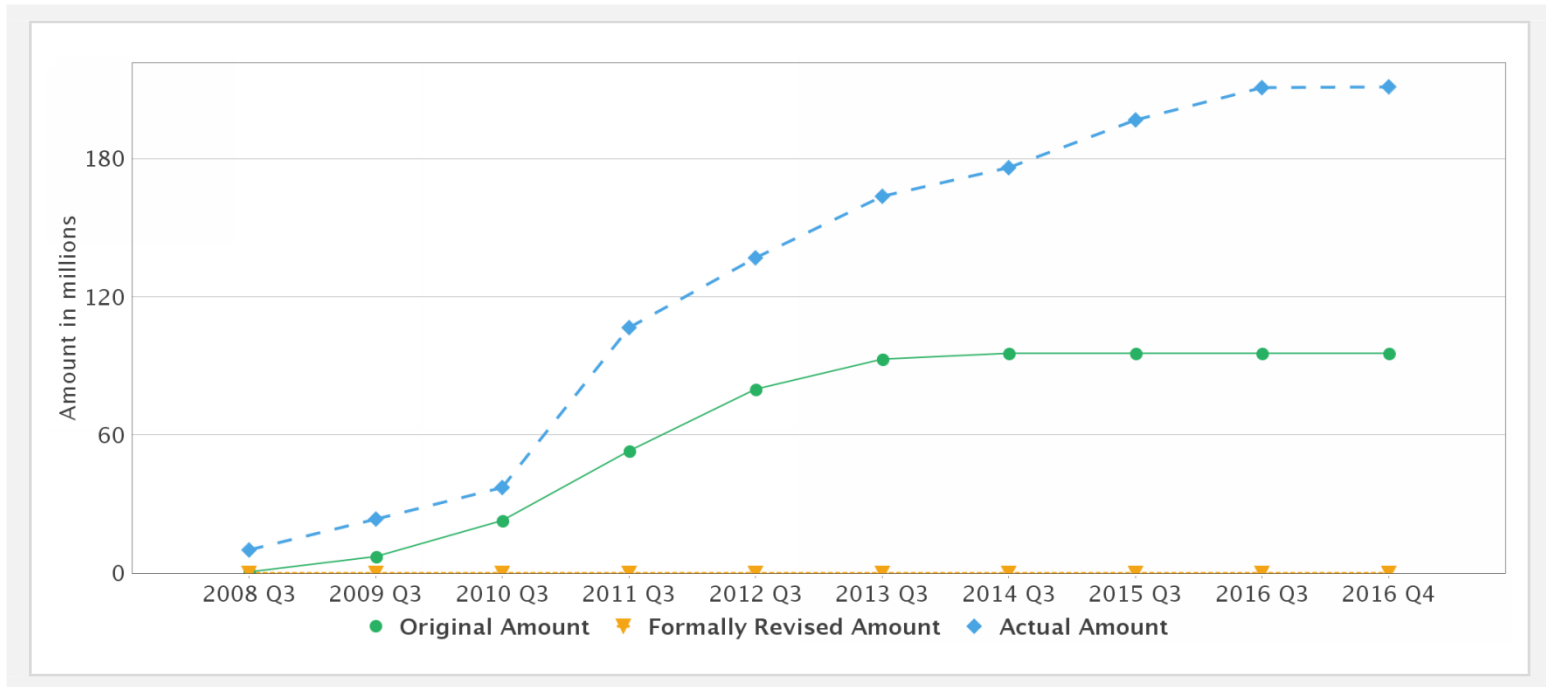


		Effective									
P074191	TF-90450	Closed	USD	50.00	49.82	0.18	49.82	0.00		100%	
P070970	TF-90542	Closed	USD	5.50	5.49	0.01	5.49	0.00		100%	

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P074191	IDA-43560	Effective	26-Jul-2007	08-Aug-2007	06-Dec-2007	30-Nov-2012	31-Jul-2017
P074191	IDA-47300	Effective	29-Jun-2010	08-Sep-2010	06-Dec-2010	30-Nov-2013	31-Jul-2017
P147878	IDA-56290	Not Effective	30-Apr-2015	--	--	31-Jul-2017	31-Jul-2017
P074191	TF-90450	Closed	08-Aug-2007	08-Aug-2007	06-Dec-2007	30-Nov-2012	30-Nov-2012
P070970	TF-90542	Closed	08-Aug-2007	08-Aug-2007	08-Aug-2007	30-Nov-2012	31-Mar-2015

Cumulative Disbursements



Restructuring History

Level 1 Approved on 30-Nov-2012 ,Level 2 Approved on 18-Mar-2016

Related Project(s)



P070970-Ghana Rural Energy Accesss ,P120016-Addtional Financing for the Ghana Energy Development and Access Project (GEDAP)
,P147878-Additional Financing for Energy Development and Access Project
