



MiDA NEWS



The official newsletter for Ghana's Compact II

Vol. 3 Issue 2



POWER SUPPLY TO POKUASE AND SURROUNDING COMMUNITIES TO IMPROVE WITH CONSTRUCTION OF BULK SUPPLY POINT (BSP)



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- MiDA: Status Report on The Ghana Power Compact as at June 2019

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Pokuase BSP to improve Power supply to Pokuase and Surrounding Communities

The US\$498.2 million Ghana Power Compact, funded by the United States Government through its Agency, the Millennium Challenge Corporation (MCC), is supporting the construction of a Bulk Supply Point (BSP) in Pokuase to improve the quality of power supplied to the northern parts of Accra.

Madam Akosua Frema Osei-Opare, the Chief of Staff at the Office of the President, on behalf of President Nana Addo Dankwa Akufo-Addo, cut the sod on Tuesday April 30, 2019, for the commencement of work on the US\$33.5 million Project. Ambassador Stephanie Sullivan, United States Ambassador to Ghana, Mr. John Peter Amewu, Minister for Energy, Mr. Anthony Welcher, MCC Vice President for Compact Operations and Professor Yaa Ntiemoa-Baidu, MiDA Board Chair, joined the Chief of Staff to break the ground.

Madam Osei-Opare read the Keynote Address on behalf of the President of Ghana, who acknowledged that the Pokuase BSP supported the Government's vision of industrializing Ghana and "represents a major milestone in our country's quest to develop a very robust, resilient and reliable electric power supply system that is comparable to top quality networks around the world." The President thanked the people of the United States of America for their support to improve electricity supply in Ghana.

The 330kV Pokuase BSP, the fourth Bulk Supply Point in Accra designated as A4BSP, and its associated 33kV and 11kV interconnecting lines will address power supply challenges, such as frequent outages and low voltages, resulting from increased power demand in Accra and the sur-



Madam Akosua Frema
Osei Opare,
Chief of Staff

rounding towns. On completion, the quality of power supply and reliability in Pokuase, Kwabenya, Legon, Nsawam and its environs will improve significantly. The Project will also lead to a significant reduction in technical losses in GRIDCo's transmission system and in overall power distribution, thereby contributing to improved financial viability of the utilities.

Mr. Anthony Welcher, in his Statement, said the US Government through the MCC was proud to be supporting Ghana's efforts aimed at reducing poverty, by strengthening the Country's power sector. He explained that the MCC was committed to joining forces with the Government, the private sector and civil society to unlock Ghana's economic growth and people potential. Mr. Welcher urged all stakeholders in the Compact to stay committed to ensure that implementation of the Projects under the Program progresses steadily.

The Pokuase BSP will be the first 330kV Bulk Supply Point in Accra and the largest in Ghana. The Project will be developed under the existing 330kV Aboadze-Volta-Lome Transmission line at Pokuase. The BSP shall have a total capacity of 580MVA, comprising four 330/34.5kV 145MVA Power transformers.

On his part, Mr. John Amewu said energy formed the bedrock of the Government's transformation agenda for the country. He also expressed high hopes that the Contractor would deliver the Project on time and to the expected specifications.

The Contractor for the Project is Messrs Elecnor S.A. of Spain with SMEC International PTY Ltd. as the Project Engineers.

Groundbreaking Ceremony: Pokuase BSP



MCC Vice President
Anthony Welcher



Professor Yaa Ntiama-Baidu,
MiDA Board Chair



John Peter Amewu,
Minister for Energy



Ms Gertrude Ankrah,
MCE of Ga North



MiDA Board Chair in a handshake with
Ambassador Sullivan



Officials from MiDA and GRIDCo greeting Traditional Leaders



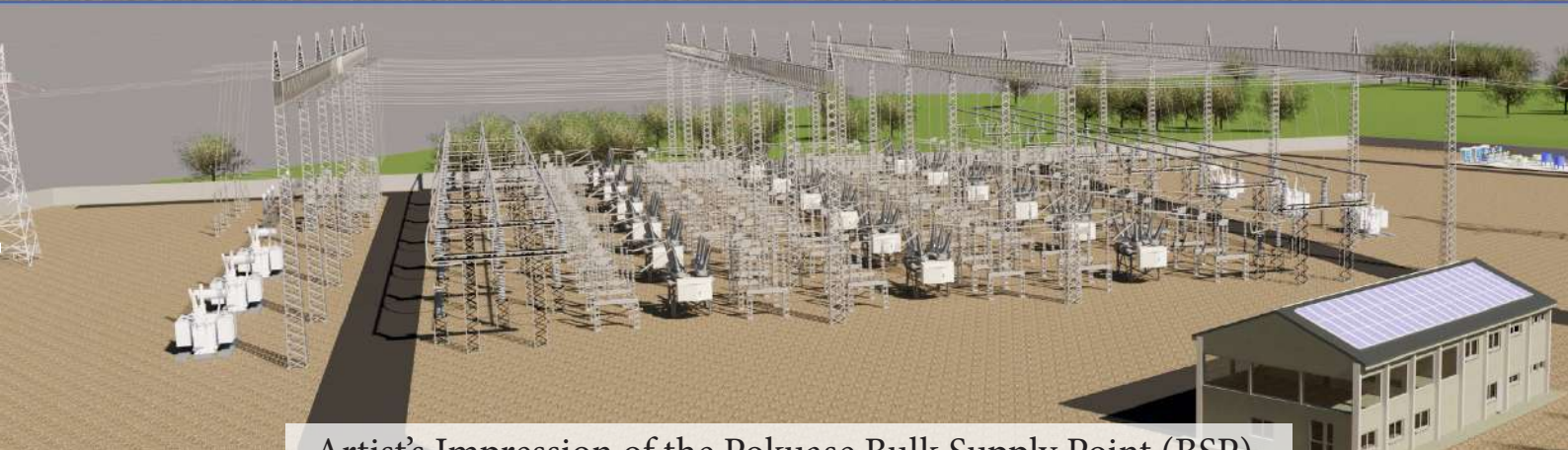
Contractor explaining the BSP Project with the aid of an Artist's impression

Groundbreaking Ceremony: Pokuase BSP



American Ambassador, MCC Vice President and MiDA Board Chair with residents of Pokuase

Groundbreaking Ceremony: Pokuase BSP



Artist's Impression of the Pokuase Bulk Supply Point (BSP)





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MiDA supports 200 Young Women on its Internship and Mentoring Programme



The Gender and Social Inclusion Unit of the Millennium Development Authority (MiDA) has placed 200 young women pursuing science, technology, engineering and mathematics (STEM) with Energy Sector Institutions, to gain practical experience. The students are drawn from 30 Tertiary Educational Institutions in Ghana.

The 2nd cohort of Interns would be assigned Supervisors in those Organizations for two months and would be taken through routine workplace ethics and responsibilities.

The Supervisors are expected to mentor the Interns to attain standards required in Energy Sector Organizations and to ensure their possible employment in the Power Sector.

The initiative, known as the Ghana Power Compact Internship and Mentoring Programme, is being implemented by MiDA, with funding from the Millennium Challenge Corporation, under the Modernising Utility Operations of the Ghana Power Compact II.

The beneficiaries would be placed in 22 Energy

Sector Firms and Mentoring Institutions in the public and private sectors, including the Power Distribution Services of Ghana, Volta River Authority, Ghana National Petroleum Corporation, Ghana Standards Authority, Sunon Asogli, Tropical Cable, Enclave Power, Ghana National Gas Company and Bulk Oil Storage and Transp. Co. Ltd.

Addressing the beneficiaries at a Placement Ceremony for the second cohort of the Internship and Mentoring Programme in Accra, Dr Cherub Antwi-Nsiah, the Director of the Gender and Social Inclusion Unit, MiDA, said 50 young women benefitted from the Programme during the Pilot Scheme, in 2018. She added that the beneficiaries would be given stipends and group insurance cover to safeguard their safety at the workplace.

Dr Antwi-Nsiah noted that the Internship Programme would boost their confidence, aid them to gain practical and leadership skills as well as sharpen their communication skills to achieve their career goals.

MiDA supports 200 young women on its Internship and Mentoring Programme

Mr William Amuna, the Technical Controller at MiDA, encouraged the beneficiaries to embrace teamwork, be disciplined and time-conscious in order to become "Women of Substance".

Dr Afisah Zakariah, the Chief Director of the Ministry of Gender, Children and Social Protection, in an Address, said STEM Courses were the backbone of every country's economy and lauded MiDA for the initiative. She was of the conviction that the Programme would have positive impact on the beneficiaries to enable them to fit well into their work environment.

She said when women were adequately educated and empowered; it improved their economic wellbeing and positively impacted the Society and, therefore, encouraged them to be resilient and build a career path through the Programme. She said that the Government had invested GHS 88 million in equipment at the Regional STEM Centres and GBP 76 million at the basic education level for teaching of science and mathematics, while about 4,000 girls were awarded scholarships to pursue science related courses at second cycle educational institutions.

Dr Zakariah said the Affirmative Action Bill would soon be passed into law to empower

women to achieve their goals, saying; "The Bill is about empowering women and not to fight men and is intended to ensure team work, so that women will partner their spouses and be a blessing to the society".

Professor Isabella Quakyi, a Fellow of the Ghana Academy of Arts and Sciences, pledged to mentor the beneficiaries and encouraged them to take the Programme seriously because their expertise would be needed in the future to tackle the world's challenges. She urged them to operate at the highest level of integrity, honesty, reliability and understand the workplace politics and diplomacy in order to achieve their goals in life.

The Ghana Power Compact II, which would end on September 6, 2021, seeks to improve electricity supply across the country and minimise wastage.

An amount of US\$498.2 million grant has been released by the Millennium Challenge Corporation under the auspices of the United States Government to Ghana Government. Projects under the Compact are being implemented through the Millennium Development Authority.

Source: GNA



STEM Interns

Stakeholders' Meeting Discusses Test Laboratory

Stakeholders comprising the Ghana Standards Authority (GSA), Energy Commission (EC), Power Distribution Services (PDS) Ghana Ltd, local manufacturers of electric and electronic appliances, importers and contractors have met in Accra, over two days, to deliberate on requirements for the setting up of an Electronics and Appliance Test Laboratory for the GSA. The Workshop, organized by MiDA, provided an opportunity for MiDA, the Compact Implementing and Accountable Entity to engage with the stakeholders in defining the needs of the laboratory, and how MiDA can best support these.

The Meeting discussed, among others, the GSA's Standards and Labels (S&L) process and practice, current energy performance standards and activities requiring testing, laboratory capacities

and capabilities in Ghana, challenges and lessons learned so far in testing. An International Consultant, My Ton, who is supporting the process, shared experiences and practices from some Energy Performance Testing Labs across the globe and best practices to be followed in establishing a world standard Testing laboratory.

In his welcome remarks, Mr. Matthew Armah Program Management Controller at MiDA emphasized the importance of ensuring that the activities outlined under the EEDSM Project are delivered ahead of the Compact completion date (i.e. September 6, 2021). He said, while funding is available to implement the various Projects under the Compact II Program, there is not much time left for implementation.



Stakeholders' Meeting Discusses Test Laboratory

Mr. Charles Amoako, GSA's Deputy Director General (Conformity Assessment), informed the Meeting that GSA has developed Standards for all products listed under Lots 1, 2 and 3 (*see table below*), while those for Lot 4 are nearing completion. He urged all Stakeholders to be committed to ensuring the enforcement of the standards when they are passed into law, to enhance the efficient use of energy in the country. He also shared his optimism on the Meeting's ability to identify the need for the establishment of a world class test laboratory for the Authority.

The Ghana Power Compact, through its Energy Efficiency and Demand Side Management (EEDSM) Project, is supporting the GSA and the EC, to respectively, develop and enforce energy efficiency standards and labels for 20 selected energy consuming electronic appliances and products. The establishment of an Electronics Appliance Test Laboratory will support the GSA's on going activities with Standards and Labels (S&L), Measurement, Verification and

Enforcement (MVE).

A Technical Committee, whose members were also present at the Meeting, have in the past two years been working on developing new Standards where needed, as well as procure and upgrade existing ones for Parliamentary approval and enactment into law.

The EEDSM Project consists of policies and investments that represent a cost-effective means of bridging the gap between electricity demand and availability. The Project is designed on the principle that energy savings, through efficient energy use can be a means of power generation. The development of Standards and Labels activity is one of four activities, which collectively contribute to achieve the objectives of the Project. The others are Improved Energy Auditing Activity, Education and Public Information Activity and the Demand Side Management Infrastructure Activity.

List of Products for Standards and Labels Programme

LOT 1	LOT 2	LOT 3	Lot 4
1. Refrigerators-(Upgrade/Revision) 2. Air conditioners-(Upgrade/Revision) 3. Ceiling Fans & Regulators 4. Television Sets 5. Satellite Decoders/TV Signal Box 6. Lighting-(Domestic/Commercial Lighting/Street Lighting)	1. Solar Panels 2. Solar Batteries 3. Solar Inverters 4. Electric motors 5. Electric Water Heater	1. Microwave 2. Washing Machine 3. Computers 4. Blender 5. Standing fans	1. Distribution Transformer 2. Pre-paid Energy Meter 3. Rice cooker 4. Kettle



A cross-section of stakeholders at the meeting

MCC Veep ends Ghana Visit with tour of GRIDCO and Akosombo Dam

On May 1, 2019 Mr Anthony Welcher, MCC's Vice President in Charge of Compact Operations visited the Offices of the Ghana Grid Company, (GRIDCo) and the VRA's Akosombo Hydro Dam Station as part of his four-day visit to Ghana. While in Ghana, Mr. Welcher also visited the Makola Market and the Accra West Regional Office of the Power Distribution Services (PDS) Ghana Ltd.

He was accompanied to GRIDCo by Mr Kenny Miller and Mrs Liz Feleke, MCC Resident Country Director and Deputy Resident Country Director respectively, Officials of MiDA led by Martin Eson-Benjamin (CEO), Ing. William Amuna (Technical Advisor and former CEO of GRIDCo), Matthew Armah (Programme Management Controller), Kofi Boadi (Communication and Outreach Officer) and Frank Botchway (Communication and Web Officer).

The MCC Vice President who was in Ghana to familiarize himself with Compact Implementation activities on April 30 2019 joined the Chief of Staff, Office of the President, Madam Frema Osei Opare, Minister for Energy John Peter Amewu and the US Ambassador to Ghana, Ambassador Stephanie S. Sullivan to break the ground at a Ceremony organized to commemorate the start of work on the 330kV Pokuase Bulk Supply Point (BSP).

The CEO of GRIDCo, Dr Jonathan Amoako-Baah, welcomed the Visiting Team and thanked MCC for offering to build another BSP in Kasoa. Dr



MCC Vice President Anthony Welcher, signing the Visitors Book

Amoako-Baah introduced GRIDCo's operations to Mr. Welcher, explaining that his outfit is aiming at becoming one of the best Utility Companies in the world and also working at achieving near to zero power outages. The Meeting also discussed GRIDCo's needs and possible areas the MCC could consider supporting. Dr Amoako-Baah also took Mr. Welcher and the Visiting Team to the Transmission Control Room as well as to other facilities at the GRIDCo Office in Tema

At Akosombo, the Visiting Team was received by Ing. Emmanuel Dankwa Osafo, (Deputy CEO -Engineering and Operations). Ing Osafo shared information on VRA's history as a power utility company and its Strategic Plans for the future.

A Presentation on the Hydro Dam was given by Ing. Charles deBordes, (Director, Hydro Generation), following which Mr. Welcher and the Visiting Team took a tour on the Dam.



MiDA: General Procurement Notice No. 13

The procurement program for the period 1st July 2019 to 30th June 2020

Total estimated value US\$ 155,539,704

Status as at September 12 2019

Procurement of Goods in:	Status
Component 1: ECG Financial And Operational Turnaround (EFOT): Activity 1.5 – Outage Reduction Activity - which include:	
* (REVISION) Procurement of Electrical Test Equipment	Yet to be undertaken
* (REVISION) Procurement of Assorted Work Equipment for Lifting, Working at height equipment, Climbing Equipment	Yet to be undertaken
* (REVISION) Procurement of Powered & Hand Tools	Yet to be undertaken
* (REVISION) Procurement of Personal Protective Equipment	Yet to be undertaken
Component 6: Energy Efficiency & Demand Side Management Project: Activity 6.2 Improved Energy Auditing - which include:	
* Procurement of Mobile Test Labs	Yet to be undertaken
Component 8: Programme Administration & Oversight: Activity 8.1 - MiDA Administration - which include:	
* Vehicle Accessories	Contract Awarded
* Office Equipment	Yet to be undertaken
* Computers	Contract Awarded
* Furniture and Fittings	Yet to be undertaken
Procurement of Works in:	Status
Component 1: ECG Financial And Operational Turnaround (EFOT): Activity 1.3 –Reduction in Commercial Losses And Improvement of Revenue Collection Rates Activity- which include:	
* Installation of AMR meters at Critical Nodes	Yet to be undertaken

Component 1: ECG Financial And Operational Turnaround (EFOT): Activity 1.4 – Technical Losses Reduction - which include:	
* Supply and Installation of the Primary Substations (Phase 1) Interconnecting Links	Evaluation ongoing
* Supply and Installation of Primary Substations (Phase 2) (Dunkonah, Katamanso and Oyarifa)	Yet to be undertaken
* Supply and Installation of the Primary Substations (Phase 2) Interconnecting Circuits	Yet to be undertaken
* Supply and installation of Kasoa BSP and interconnecting circuits	Evaluation ongoing
* (REVISION) Construction of 16 Unit 3-Bed Flats for PAPs at Kanda	Yet to be undertaken
Component 6: Energy Efficiency & Demand Side Management Project: Activity 6.1 – Development And Enforcement of Standards & Labels - which include:	
* Procurement of AC Test Laboratory	Yet to be undertaken
* Procurement of Additional Test Laboratories	Yet to be undertaken
* Procurement of AC Test Facility Containment Building	Yet to be undertaken
Procurement of Consulting Services in:	Status
Component 1: ECG Financial And Operational Turnaround (EFOT): Activity 1.2 – Modernization Utility Operations Activity - which include:	
* Consultancy for Sexual Harassment Awareness Creation	Yet to be undertaken
Component 3: Regulatory Strengthening & Capacity Building Project: Activity 3.1 - Sector Performance Monitoring Capacity Building - which include:	
* Consultancy Services for Capacity Building in Respect of CAPSCAN Outcome	Yet to be undertaken

MiDA's Procurement program for the period 1st July 2019 to 30th June 2020

Component 4: Access Project: Activity 4.2 – Institutional Partnership and Collaboration - which include:	
* Consultancy Services for Institutional Assessment and Engagement for Sustainability	
Component 7: Monitoring and Evaluation Project: Activity 7.1 – Monitoring and Evaluation - which include:	
* (REVISION) Consultancy Services for Enterprise Survey	
* (REVISION) Consultancy Services for Mid-Term and Final Evaluation	

Component 8: Programme Administration & Oversight: Activity 8.1 – MiDA Administration - which include:	
* Consultancy Services for Technical Advisors to support Attorney-General's Office	
Procurement of IT Services in:	Status
Component 1: ECG Financial and Operational Turnaround Project: Activity 1.2 - Modernization Utility Operations - which include:	
* Services of a Supplier for the Enterprise Resource Planning (ERP) Implementation	



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STATUS REPORT ON THE GHANA POWER COMPACT AS AT JUNE 2019

INTRODUCTION

After a rather challenging start, the US\$ 536 million Project Activities envisaged under the Millennium Challenge Compact Program are progressing steadily. As at June 2019, MiDA had committed US\$133m (25%) and disbursed US\$62.7m (12%) of Compact Funds.

In 2019 MiDA expects to spend an estimated US\$170,306,453 million on the procurement of goods, works and services, thus making room for strides in Compact implementation in the third Compact year.

COMPACT PROJECTS

A. ECG Financial and Operational Turnaround (EFOT) Project

The ECG Financial and Operational Turnaround Project pursues a two-pronged approach:

- i. strengthening the governance and management of ECG by bringing in an Acceptable Concessionaire; and
- ii. infrastructure and foundational investments designed to reduce technical, commercial and collection losses and improve service quality. The Project consists of five activities namely Private Sector Participation Activity, Modernizing Utility Operations Activity, Reduction in Commercial Losses and Improvement of Revenue Collection Rates Activity, Technical Loss Reduction Activity and Outage Reduction Activity.

The Key Objectives:

- To make investments that ensure that ECG runs on sound commercial principles, becomes creditworthy and serve as a credible off-taker under purchased Power Agreements.

- To ensure that ECG is able to recover its costs and invest in maintenance and expansion without requiring regular financial support from the Government.

The following provide a Status Report on the respective activities under the EFOT Project.

1. Private Sector Participation Activity

The Compact funds provided support for the design and execution of an Acceptable ECG PSP Transaction. Funds were disbursed towards Transaction Advisory services, targeted communications strategy, outreach, and consultations to gain support of stakeholders; Consultation with management and employees of ECG to gain support for PSP; and Consultancy to design the institutional set-up for the Acceptable ECG PSP Transaction.

- On March 1, 2019 the PDS took over the management and operations of ECG's power distribution business. A total of US\$580 million of investments is envisaged in the first 5 years under the management of PDS Ghana Ltd.
- Ahead of the transfer, the Conditions Precedent (CP) Committee was set up comprising 23 members to work on the stipulated 45 conditions. At transfer on March 1st 2019, 29 CP's had been fulfilled leaving 16 which the parties agreed to convert into Conditions Subsequent (CS). Since March 1st 2019, a CS Committee which was formed prior to the transfer has been working with Stakeholders to fulfill the 16 Conditions.

2. Modernizing Utility Operations Activity

The Compact Programme is making investments towards modernizing ECG by introducing contemporary tools to the organization, building the capacity

Status Report on the Ghana Power Compact-June 2019

of ECG's staff to use the tools, and providing a robust communication network for ECG.

Status of Activity interventions

a. **Installation of GIS System:** The US\$10 million GIS System will facilitate the record and storage of basic data that includes distribution asset management, distribution system attributes and characteristics, customer locations and characteristics for planning purposes. The contract was signed in July 2017 with Hexagon, and the project is expected to be completed in December 2019 in Accra and May 2020 in Tema.

- MiDA has successfully piloted, together with ECG, a Geographic Information System (GIS) System in Kwabenya. MiDA intends scaling up the Project to cover Accra East and Accra West Districts of ECG this year 2019, and have already sent our Officers and some ECG staff on training for this. When completed, the GIS system will capture all assets of ECG (Accra East and West) onto the System to facilitate audits, maintenance, replacements etc.

- An outcome, among the several benefits of this Activity, is that there would be a reduction in the time it takes ECG to detect and respond to faults. It would also help ECG identify or locate all customers drawing power from its network in these areas.

b. **Data Centre:** Construction of the ECG Data Center, compatible with current standards, will help ECG better manage its network.

- Construction works will commence in July 2019 and will be completed within the Compact period.

c. **Enterprise Resource Planning (ERP):** The ERP System is to promote Integration with existing Enter-

prise Applications for the purpose of facilitating the flow of information between business functions within ECG and managing connections to external stakeholders (consumers). This will support management in facilitating the flow of information internally and externally thereby improving decision making across all business areas.

- Installation of the ERP system will commence by Quarter 3 (October) 2019.

3. Commercial Loss Reduction

Commercial losses represent energy not billed to the customer due to irregularities causing inaccurate count of the energy used by a consumer. Collection inefficiency is another type of loss that occurs when the energy registered, as used by a consumer, is not paid for. The interventions include:

a. **Meter Management System (MMS):** The objective of the MMS is to provide a centralized system that allows customers to purchase credits from online

points, and vendors in any part of the country. Additionally customer information and data will be readily accessible.

- The MMS is to be operational by September 2019 and will be fully installed by September 2020. The project activity is to be undertaken by Siemens Propriety Ltd of South Africa.

b. **Automated Meters (AMI):** The intervention is to provide metering facilities at Regional and District boundaries of PDS's operational areas within Accra East and Accra West in order to reduce Commercial losses.

- The Project is expected to commence in the 1st Quarter of 2020 and be completed by March 2021.

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4. Technical Loss Reduction

Technical losses represent the energy lost in the electrical distribution lines and equipment. The interventions under this Activity will result in lowering thermal losses for the primary and secondary distribution systems in the ECG Target Regions. The Compact is making investments towards reducing the Technical losses in the power distribution sector. ECG's losses for Accra Region alone, as recorded for March 2017, stands at 8.40 percent. The current World Bank Benchmark for developing nations is 6.29 percent. The following activities are expected to contribute in significantly reducing the technical losses to a target of 7.05 percent in the Accra Region. This is only possible because of the amount of investments the Compact is contributing to power distribution.

a. Pokuase BSP Interconnecting Circuits (ICC):

Installation of bulk supply points with feeders to existing primary substations will ease overloading based on the current demand forecast and avoid rolling brownouts.

- The value of this project activity is estimated at US\$33m. The contract was signed in February 2019 and the Project is being undertaken by Elecnor SpA of Spain with SMEC as the Project Engineer. The project is expected to commence in November 2019 and is estimated to be completed by January 2021.

b. **Kasoa BSP:** Installation of the Kasoa BSP is expected to address increased demand and voltage supply reliability issues for power supply to Kasoa and its environs. Bids are expected to be issued by June 2019, and the contract signed by the 1st Quarter of 2020. The Project is estimated to be completed by July 2021.

c. **Primary Sub-Stations:** This is to help reduce technical losses and avoid extended outages caused by failures or maximum capacity reached at geo-

graphically adjacent substations.

Four Primary Substations will be constructed at the following areas: Kotobabi, Korle-Gonno, University of Ghana Teaching Hospital and Kanda.

- Construction of the Primary Substations will commence in the 4th Quarter of the year (2019).
- The three other Primary substations will commence in the 2nd Quarter of 2020

d. **LV Bifurcation:** The objective of the project is to improve the quality of power supply to the beneficiary areas.

- The construction works will commence in July 2019. Works are expected to be undertaken in the under listed areas:

1. Achimota, Kaneshie and Dansoman
2. Mampong and Dodowa
3. Kwabenya and Legon
4. Teshie, Roman Ridge and Makola

When completed customers will see improved voltages, reduced outages and improved reliability of power supply.

5. Outage Reduction Activity

Outages cause PDS to lose money from unrealized electricity sales and undermine consumer confidence in the utility's ability to provide reliable service. The Activity seeks to improve service and increase sales.

The interventions under this Activity are:

a. **Outage Management System (OMS)** The objective of the Outage Management System is to help ECG in easily identifying and responding to outages in the districts.



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- The Bidding documents were published in May 2019, and installation of the OMS is expected to commence in November 2019.

B. NEDCo Financial and Operational Turnaround (NFOT) Project

The implementation of the NEDCo Project Activity is to be curtailed due to the impasse with staff groups of NEDCo over the proposed Management Contract Private Sector Participation Option.

The AgDevCo Project Activity planned to supply power to the Babator Irrigation Hub, is being appraised to be considered for implementation as a separate project

C. Energy Efficiency and Demand Side Management Project

The Constraints Analysis, done during Compact development by MCC's due diligence Consultants; Tetratex, documents that in Ghana the demand for electricity is outstripping supply, which creates a gap in power availability and also undermines the reliability of the system. Energy efficiency and demand side management policies and investments represent a cost-effective means to bridge this gap, serving, in effect, as sources of supply.

The key objective for this Project is to ensure energy efficiency and conservation in the use of the available capacity. The Compact is making investments into reducing Electricity Demand through various reform measures that promote energy efficiency.

The Energy Efficiency and Demand Side Management Project is organized into four Activities, each described below.

1. Development of Standards and Labels

Energy efficiency standards and labelling will be

developed to provide information on the energy efficiency performance of selected energy consuming appliances and products available on the market to help remove low-quality energy wasting products from sale and consumer households. In addition, the standards and labelling that do exist could benefit greatly from technical updates and enforcement support. Informative labels will help consumers to make informed decisions about purchasing higher quality products that may have a higher cost up front, but have a lower impact on household utility bills and thereby save money in the long run.

- Reviewed and adopted standards for 19 out of 20 energy consuming appliances. Legislative Instruments (LI's) expected to be laid in 2019.
- Six standards for Refrigerators, Air conditioners, Lighting, Solar Panels, inverters and Batteries will be revised.
- Additionally 14 standards will be adopted for other appliances bringing the total of 20 standards and labels.
- A Field Metering and Monitoring Studies (FMMS) Consultant is conducting a pilot listing of households towards the development of a database prior to the 1000 household survey to determine the baseline energy consumption of energy usage and profile.
- The FMMS activity seeks to generate knowledge about household appliance ownership and use vis-à-vis energy consumption patterns for the purpose of assessing the impact of existing S & L programs and inform the policy and regulation making process associated with the adoption of new and the revision of existing S & Ls.
- The drafting of Legislative Instruments (LI's) Consultant is drafting revisions to existing LI's and developing draft LI's for new products under the Standard and Labels Program.
- This activity will involve the development of LI's for energy efficiency minimum standards and labelling in the form of subsidiary Legislation to

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be enacted by Parliamentary process as regulations for enforcement.

2. Demand Side Management Infrastructure Activity

This Activity involves undertaking a pilot solar programme and getting the public to use solar systems for addressing the high lighting loads, as well as installation of energy efficient street lighting to replace existing high energy consuming street lights. The project will significantly reduce peak demand, ensure adequate supply for all and reduce investments in expensive additional generation facilities.

Increase in customer knowledge and use of energy efficiency products will result in savings for households and businesses. Ghanaians should expect improved security and safety as well as brighter communities along the roads, and a reduction in energy wastage with the installation of LED lamps which have a minimum of a 5 year life span.

The interventions under this activity are:

- **Street Lighting:**
 - The Project will commence in the 3rd Quarter of 2019 and will be implemented in the Ceremonial Roads in Accra East and West Districts of PDS, and other major roads in Kasoa, Teshie Nungua and the Tetteh Quarshie to Mamfe (35km) stretch.
- **Race to Retrofit :**
 - Four Buildings in Korle- Bu and University of Ghana, as well as the Ministries of Health and Education, Adabraka Polyclinic and Dept. of Urban roads will each be retrofitted with LED lights, A/Cs ceiling fans and refrigerators.

3. Education and Public Information Activity

This will sensitize the public about energy efficiency and conservation through behavioral change.

- This activity is yet to commence.

D. Regulatory Strengthening and Capacity Building Project

This is aimed at improving the regulatory and policy environment, and consists of two main activities:

1. Regulatory Partnership Program

This is a sub-activity under the Regulatory Strengthening & Capacity Building Project. The partnership program is expected to facilitate partnership arrangements with qualified organizations comprised of state, national or international regulatory practitioners and technical experts.

2. Sector Performance Monitoring Capacity Building Activity

This Activity will provide capacity building to sector agencies such as PURC, Energy Commission and the Ministry of Energy to enable them perform improved monitoring and supervision of the Utilities.

The objective of the partnership(s) is to enhance the capacity of both the Public Utilities Regulatory Commission (PURC) and the Energy Commission (EC) based on a skills gap analysis and needs assessment, focusing on regulatory strengthening at the commissioner and key staff levels. The program will ensure information sharing with regulators and experts through partnership activities that will help identify best practices in regulation as well as areas for improvement within the PURC and EC regulatory structures.

The Consultant will submit their Inception Report and a report on Program Inception and Capacity & Skills Gap Analysis by the end of June, 2019 for review.

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The Consultant is expected to submit a report for Organization and Structuring of Partnership in the 3rd quarter of 2019.

3. Tariff Review Activity

This activity seeks to review and restructure the tariff to ensure a rigorous and responsive regulatory environment as well as strengthening ratemaking and other regulatory processes through tariff studies, the Contractor for the activity is The National Association of Regulatory Utilities Commission (NARUC).

E. Access Project

The Project is designed to provide safe, quality and reliable electricity in some selected markets, economic enclaves and social institutions such as Schools and health facilities. The project upon completion is expected to increase the number of new connections in the identified targeted areas by reducing barriers to obtaining legal connections leading to an increased economic growth.

- Design work is ongoing to bring power to markets and economic enclaves in Greater Accra and in Tamale. A total of six markets and two economic enclaves will benefit from this Project.

CONCLUSION

MiDA's achievements to date have been supported by strategic and timely interventions of Government, including the following:-

- The restructuring of the components of the ECG PSP Concession, the Term of the Concession and the protection of ECG Staff at all levels.
- Strong advocacy by key public sector stakeholders, including the Presidency, and various Ministers of State.

A 12-month General Procurement Notice was issued on 1st April 2019. This spans the period 1st April 2019 to March 2020, and covers the procurements of an estimated US\$170,306,453 worth of goods, works and services, representing 32% of total Compact Funds.

As at June 2019, MiDA has committed an amount of US\$133m and disbursed US\$62.7m. The 5 year Compact which Entered-into-Force on September 6 2016 is now past the Mid-term milestone with 27 months left to commit US\$402m and US\$473m to disburse before Compact close on September 6, 2021.



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