



GHANA POWER COMPACT

Reducing Poverty through Economic Growth

HIGHLIGHTS OF ACTIVITIES

(2016 - 2022)



GHANA-USA COOPERATION



Collaborating to reduce Poverty through Economic Growth





Nana Addo Dankwa Akufo-Addo

**President of the Republic of Ghana and Commander-in-Chief
of the Ghana Armed Forces**

GHANA POWER COMPACT PROGRAM (2016-2022)

SUMMARY SHEET

ORIGINAL COMPACT FUNDS: US\$535.6 million

REVISED COMPACT FUNDS: US\$347 million

GOAL: Reduce poverty through economic growth in Ghana

OBJECTIVES: (a) increase private sector investment and the productivity and profitability of micro, small, medium and large-scale businesses;

(b) increase employment opportunities for men and women; and

(c) raise earning potential from self-employment and improved social outcomes for men and women.

THEME: Powering Ghana for Accelerated and Sustainable Growth

SIGNATURE DATE: August 5, 2014

ENTRY INTO FORCE: September 6, 2016

ORIGINAL END DATE: September 6, 2021

EXTENSION (FIRST AMENDMENT): June 17, 2021

FINAL END DATE: June 6, 2022

COMPACT CLOSURE DATE: October 4, 2022

ACCOUNTABLE ENTITY: Millennium Development Authority (MiDA)

MAJOR BENEFICIARIES: Electricity Consumers in Accra East and Accra West Regions of ECG and NEDCo's Tamale distribution area

IMPLEMENTING ENTITIES: Electricity Company of Ghana Ltd, Ghana Grid Company Ltd, Northern Electricity Distribution Company Ltd, Ghana Standards Authority, Energy Commission, Public Utilities Regulatory Commission, Attorney General and Ministry of Justice, Ministry of Energy, Ministry of Gender, Children, and Social Protection, the Lands Commission, Environmental Protection Agency, and National Development Planning Commission

On August 5, 2014, The Republic of Ghana signed a second Compact Program with the United States Government, acting through its Development Agency, the Millennium Challenge Corporation (MCC) in Washington D.C. The Program, referred to as the Ghana Power Compact or Compact II, was designed to address various bottlenecks in Ghana's power sector that contributed to the perennial power challenges the country had experienced since the 1980s.

At the time of Compact signing, Ghana had been grappling with a four-year power crisis; its worst power crisis since its independence. The situation had resulted in the collapse of businesses (especially micro and small), job losses and a downturn in Ghana's economic growth, which before the crisis was touted as the fastest growing economy globally.

Ghana met the following eligibility conditions in order to benefit from the Compact Program These are:

- a. (i) just and democratic governance, (ii) economic freedom, and (iii) investments in its people,
- b. the opportunity to reduce poverty and generate economic growth in the country

GHANA POWER COMPACT PROGRAM (2016-2022)

The successful implementation of the Agricultural Transformation Program under Ghana's first Compact, Compact I, also provided good grounds for the country to have another opportunity for a second Program; this time targeted at addressing the root causes of the unreliable, poor quality and unavailable power supply to businesses and for domestic use.

The five-year Ghana Power Compact Program, since Entering into Force on September 6, 2016 invested US\$347.2 million to improve Ghana's electricity infrastructure and introduce reforms to the power sector to provide more reliable and affordable electricity to Ghana's businesses and households. It benefitted from a nine-month extension to mitigate the negative impact of the COVID-19 pandemic on the implementation timeline.

The Power Compact Program originally consisted of six Projects and was de-scoped following an MCC-MiDA Mid-Term Review of the Program in February 2019. The review also resulted in the reduction of the initial US\$535.6 million Program funding to the US\$347.2 million which includes US\$7.5 million for Program Administrative costs during the 9 months Compact Term extension and US\$31.0 million, as Counterpart funds from the Government of Ghana.

Four Projects, listed in the proceeding pages, make up the Compact Program, each targeted at contributing towards addressing the root causes of Ghana's power challenges and working collectively to assist in propelling the country's economic growth. The broad objectives of the Compact are:

- i) to increase private sector involvement and the productivity and profitability of micro, small, medium and large businesses;
- ii) increase employment opportunities for men and women;
- iii) raise the earning potential from self-employment and improved social outcomes for men and women.

In accordance with the terms of the The Millennium Development Act, 2006 (702, 709 & 897 as amended), MiDA was authorised to oversee, manage and implement the Programs under the Ghana Power Compact.



Former Finance Minister, Seth Terkper in a hand shake with Former MCC CEO Dana J. Hyde after signing The Ghana Power Compact on Aug. 5, 2014. Looking on are Former President, John Dramani Mahama and Former US Secretary of State, John Kerry

ECG FINANCIAL AND OPERATIONAL TURNAROUND(EFOT) PROJECT

COST
US\$
230,270,853

The ECG Financial and Operational Turnaround (EFOT) Project's objective was to improve the quality and reliability of electricity through reduced outages and cost-effective service delivery by ECG, reduce aggregate technical, commercial and collections losses, and to ensure ECG can serve as a creditworthy and credible off-taker under power purchase agreements. The Project Objective was to be achieved by reducing implicit subsidies (created by losses, underpricing and under-billing) and ensuring cost-recovery and reinvestment in the distribution sub-sector, through introduction of PSP in the governance and management of ECG, and through infrastructure and foundational investments designed to reduce losses and improve service quality. There were five Activities under the Project.

The EFOT Project consisted of the Activities following:

1. Private Sector Participation (PSP Activity, to provide support for the design and execution of an Acceptable ECG PSP Transaction.
2. Modernizing ECG Utility Operations Activity, to introduce modern tools to ECG, build the capacity of ECG's Staff to use the tools, and provide a robust communication network for ECG.
3. Reduction in Commercial Losses and Improvement of Revenue Collection Rates Activity, to address commercial and collection losses.
4. Technical Loss Reduction Activity, to lower thermal losses for the primary and secondary distribution systems in the ECG Target Regions.
5. Outage Reduction Activity, to improve service and increase sales.

MiDA PROVIDES ECG WITH 12 VEHICLES TO IMPROVE LOSS CONTROL OPERATIONS

The Millennium Development Authority (MiDA), under the Ghana Power Compact Program's ECG Financial and Operational Turnaround (EFOT) Project, handed over 12 brand new Pick-Up vehicles procured at the cost of US\$480,000 to ECG to support the Utility Distributor's operations. The 4x4 cross-country vehicles, to help reduce commercial losses, comprised 10 double cabin pick-ups each fitted with a toolbox in the bucket and two others without a toolbox.

Each year, ECG loses a significant amount of revenue from thefts such as illegal connections, meter tampering and other irregularities,

which cause inaccurate counts of the energy used by a consumer. The provision of the vehicles to the ECG Loss Control Unit is intended to support the organization's Loss Control Program by augmenting regular patrols.

Mr. Martin Eson-Benjamin, Chief Executive Officer (CEO) of MiDA, handed over the vehicles to Ing. Samuel Boakye-Appiah, then Managing Director of ECG.

FACTS

MiDA CEO Martin Eson-Benjamin presented keys to the vehicles to former ECG MD Ing. Samuel Boakye-Appiah on March 23, 2018

Cost of Vehicles : US\$480,000

Funding

United States Government through the Millennium Challenge Corporation (MCC)



The 12 (4x4) Vehicles. Insert - MiDA CEO Martin Eson-Benjamin (R) presents keys to the pick up vehicles to Ing Samuel Boakye-Appiah (L), former MD-ECG

LOW VOLTAGE (LV) BIFURCATION & NETWORK IMPROVEMENT PROJECT IN SIX ECG DISTRICTS

RESIDENTS OF 53 TOWNS AND COMMUNITIES EXPERIENCE IMPROVED POWER QUALITY AND REDUCED OUTAGES

Residents of 53 towns and communities located in six ECG Districts (i.e., Achimota, Dansoman, Akuapem-Mampong, Legon, Kwabenya and Kaneshie Districts) are experiencing improved power quality and a significant reduction in outages. This is as a result of the completion of works to upgrade the electricity distributor’s low voltage network in several areas of the project districts.

Almost 600,000 residents, comprising businesses and homes in the six districts benefitted from the Low Voltage (LV) Bifurcation & Network Improvement Project. Prior to the inception of the project, residents commonly experienced low and fluctuating voltages, which manifested in dim lights and damaged electrical appliances. They also suffered frequent power outages caused by overloading in transformers and conductors that served these communities. For ECG, having long and undersized conductors in these areas led to high technical losses, frequent and long downtime and high operations and maintenance costs.



An upgraded low voltage line in Dansoman District



One of several Transformers and Ring Main Units installed in Akuapem Mampong District

FACTS

Total Project Cost : US\$ 28,058,298

Project Start Date : August 2019

Project End Date : June 2022

Funding

US Government through the Millennium Challenge Corporation (MCC)

Contractors

- Best & Crompton Engineering Ghana Ltd.
- MBH Power Limited
- Power Factor Limited

Project Manager

SMEC International Pty Ltd

600,000 Estimated Customers to benefit

Installed the following:

- 382 Distribution Transformers,
- 47 Ring Main Units;
- 484 Distribution Pillars;
- 15,935 Wooden Poles;
- 6,485 Stay Equipment;
- 787 km of Medium Voltage Lines;
- 2,683 km of Low Voltage Lines.

Benefits

- Low Voltage Bifurcation and Network Improvements in 6 No. Districts in ECG’s Accra East and West Regions, namely:
 - Kaneshie
 - Legon - Lot 1 & 2
 - Dansoman
 - Achimota
 - Akuapem Mampong
 - Kwabenya – Lot 1 & 2
- Reduced technical losses in ECG Distribution System, ultimately contributing to improved financial performance.

METER MANAGEMENT SYSTEM (MMS) FOR ECG

The Millennium Development Authority (MiDA) has installed a Meter Management System (MMS), which cost US\$15,892,800 for the Electricity Company of Ghana (ECG) with MiDA contributing an amount of US\$11,189,901.

The System was procured with funds provided by the Millennium Challenge Corporation (MCC) under the US\$350 million co-funded second Compact Program with Ghana.

The MMS System is designed to enable the integration of ECG's Smart Pre-paid Metering Platforms and enhance customer experience. The System comprises a number of Metering Softwares, 17 Servers, 40 Point-of-Sale devices, UPSs, laptops and printers.

The state-of-the-art Meter Management System, supplied and installed by Messrs. Siemens SA, has full redundancy, involving a backup that will enable the System to run uninterrupted. It has a Primary Site and a Disaster Recovery Site, with an online real time automatic backup capability. The days when customers could not buy Pre-paid Credit because a Pre-paid Metering Server has failed, will soon be behind ECG.

The System will also contribute significantly to improving ECG's

revenue mobilization efforts and will give customers greater flexibility in paying for electricity, as it will enable customers to buy any amount of Pre-paid Credit wherever they may be in Ghana.

The MMS Project was implemented under the Ghana Power Compact's Reduction in Commercial Losses and Improvement of Revenue Collection Activity; a component of the broader ECG Financial and Operational Turnaround (EFOT) Project.



Ing. Sariel Etwire (ECG Project Manager, Meter Management System - MMS) explaining system to Hon. Andrew Egyapa Mercer, Deputy Energy Minister (5th left) and others after MMS inauguration



Hon. Andrew Egyapa Mercer, ECG Board, Management and Staff, with MiDA Management, MCC Resident Country Director and Contractor (Siemens) after MMS Inauguration.

FACTS

Inaugurated on September 22, 2021 by Hon. Andrew Kofi Egyapa Mercer (MP), Dep. Minister for Energy on behalf of Hon. Dr Matthew Opoku Prempeh (MP), Energy Minister

Contract Price : US\$15,892,800

Project Start Date : 26/04/2019

Project End Date : 30/08/2021

Funding

Millennium Challenge Corporation and Government of Ghana

Contractor

Siemens Pty Ltd, S.A.

Project Manager

SMEC International Pty Ltd

System Capacity

3 million Meters (expandable to 5 million)

No. of Control Centers

2 Regional Control Centers (expandable to 10)

Redundancy (uptime) : 99.5%

Benefits include

- Pre-paid credit purchase anywhere
- A centralized system leading to reduction in operation and maintenance cost
- Redundancy Systems to increase availability
- User-friendly customer web portal giving customers access to consumption and billing data
- Universal system for multiple meter integration
- Automatically detect and report on electricity theft/illegal connections
- Facilitates Revenue Protection
- Automation causing reduction in operational cost

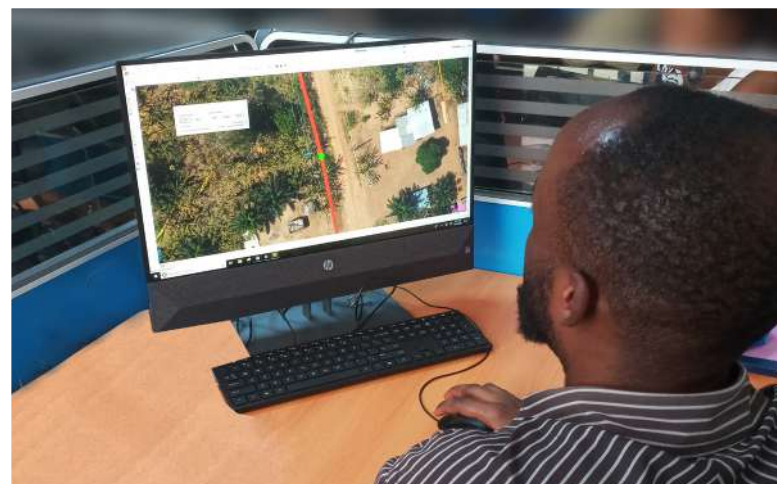
UTILITY GEOGRAPHIC INFORMATION SYSTEM (GIS) FOR THE ELECTRICITY COMPANY OF GHANA (ECG)

The Ghana Power Compact Program funded the installation of a Utility Geographic Information System (GIS) for the Electricity Company of Ghana (ECG) at a cost of US\$8.5M. The Project was part of the Modernizing Utility Operations Activity, one of four project activities making up the ECG Financial and Operational Turnaround Project (EFOT). The Utility GIS Project Activity comprised procurement and installation of system software, server hardware, field hardware, and services for data migration and field validation of assets (such as primary and secondary substations, power lines, poles, underground cables, transformers, switches and customer service wires).

The Utility GIS provides a digital platform and tools for ECG to plan, manage and efficiently operate its network to meet global utility management standards. ECG's customer experience will improve through enhanced power supply reliability, better supply quality and reduced service turnaround time. The Utility GIS also provides ECG with the foundation for a more efficient revenue collection, losses reduction and outage reduction.

ECG currently relies on manual and stand-alone computerized systems to locate and identify assets and customers in the field and to design, construct and operate its network for planning and

service delivery purposes. This approach to service delivery and operations is time consuming and inefficient. It results in less than optimal service delivery and operational and system losses. The System helps ECG to better manage its assets and improve its business processes, thus leading to improved customer experience and technical and financial performance. The Utility GIS is available in 14 ECG districts across Accra East and West.



Utility GIS in use by an ECG Staff



Representatives of ECG Board, Management and Staff led by Board Chair Keli Gadzekpo (in printed fabric), and other representatives of the MiDA Board, Management and Staff, MCC Resident Country Director, Project Engineer (SMEC) and Contractor (Hexagon) after Utility GIS Inauguration

FACTS

Inaugurated on March 30, 2022 by Mr. Solomon Adjetey, Director of Power, Ministry of Energy on behalf of Hon. Dr Matthew Opoku Prempeh (MP), Energy Minister.

Total Project Cost : US\$8.5M

Project Start Date : August 6th 2017

Project End Date : March 30th 2021

Funding

United States Government through the Millennium Challenge Corporation (MCC)

Contractor

Intergraph SG&I Deutschland GmbH (Hexagon)

Consultants

Dr. Robert Sarfi and Dr. Dawie Van Vuuren

Project Manager

SMEC International Pty Ltd

Total Districts

All 14 districts in Accra East and West

Key Benefits:

- Enable ECG to plan and design distribution networks.
- Mapping of the electrical network.
- Improve identification of illegal connections
- Provide a very efficient way for ECG to manage their assets.
- Enhance ECG's outage management operations.
- Enhance ECG's regulatory compliance
- Visual representations of the environmental conditions.
- Provide real-time, reliable geospatial and location information.

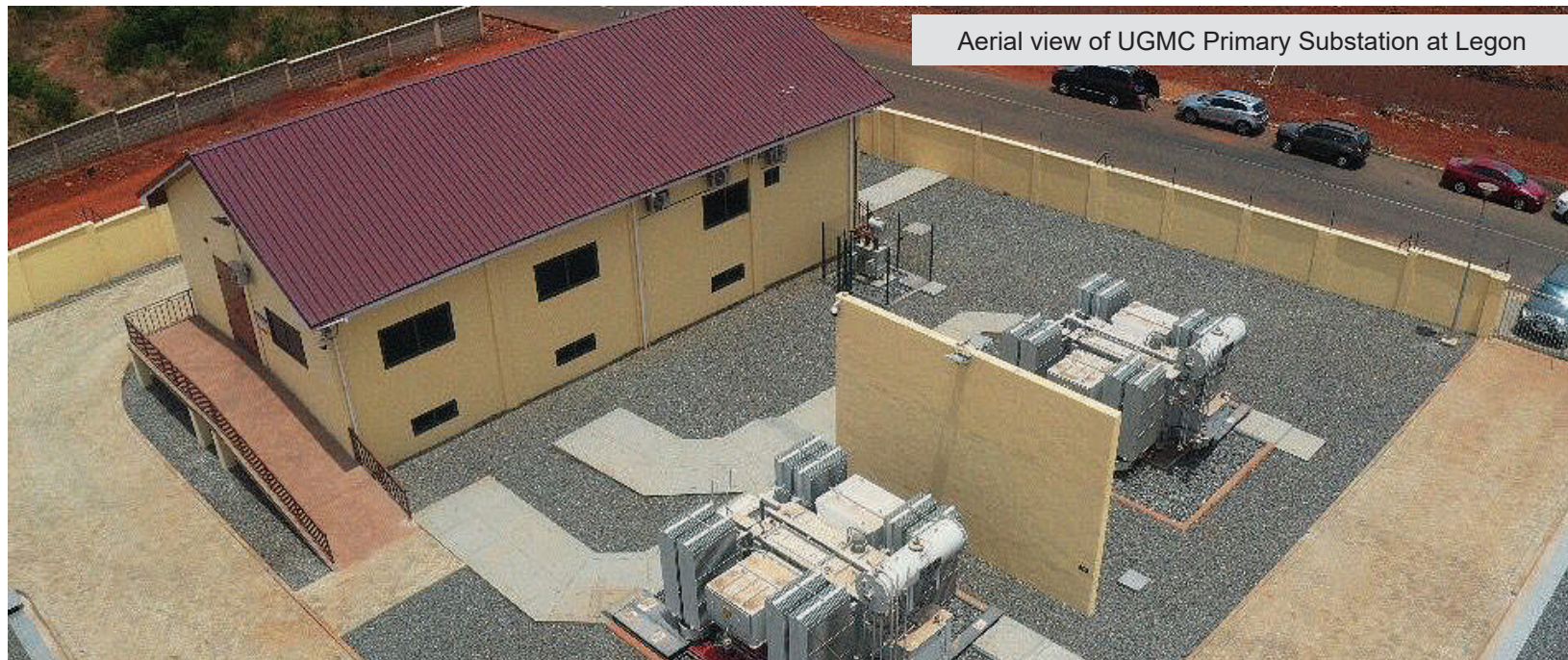
UNIVERSITY OF GHANA MEDICAL CENTRE (UGMC) PRIMARY SUBSTATION

The Ghana Power Compact Program funded by the United States Government, acting through the Millennium Challenge Corporation (MCC), invested US\$11m in the construction of a 52MVA Primary Substation and its associated Interconnecting Circuits (ICC) for the University of Ghana Medical Centre (UGMC). The UGMC Primary Substation is one of many electric infrastructural assets, which form part of the ECG Financial and Operational Turn-around (EFOT) Project of the Compact Program.

The Substation has a capacity of 52 mega volts amperes (MVA) and can supply all present and future power needs of the University of Ghana Medical Centre and the Noguchi Memorial Institute for Medical Research, and serve as an alternative source of supply to the University of Ghana, the Ghana Institute of Public Administration, the Ghana Standards Authority, and the surrounding communities. Equipment within the Substation comprise two 20/26MVA transformers, located outdoors and switching equipment housed in a basement-type Con-

trol Building. The Substation has been sized to provide for any future extension of the 33kV and 11kV switchgear. The Substation has been integrated into the existing ECG 33kV Sub-transmission Network through a total of 24 km of 33kV interconnecting circuits. Power is evacuated to the UGMC and other Load Centers through 41.4 km of 11kV offloading circuits.

Following its commissioning and energization, the UGMC Primary Substation has been addressing the power supply challenges experienced by the UGMC and its sister Institution, the Noguchi Memorial Institute for Medical Research. These critical health Institutions can now operate in an environment of more stable and reliable power. With the Substation in close proximity to these Institutions and with sufficient redundant capacity, the risk of equipment failure due to voltage fluctuations is significantly reduced. The Substation was constructed by Messrs. Eiffage Énergie Systèmes' of France and the interconnecting and offloading circuits by Messrs. TBEA Co. Ltd. of China.



FACTS

Inaugurated on April 27, 2022 by Hon. Mohammed Amin Adam (MP), Dep. Minister for Energy, on behalf of Hon. Dr Matthew Opoku Prempeh (MP), Energy Minister.

Contract Value : US\$ 11 million

Contract Start Date : February 2020

Contract End Date : April 2022

Funding

United States Government through the MCC

Contractors

Eiffage Énergie Systèmes'
TBEA Co. Ltd.

Project Engineer

SMEC International Pty Ltd

Installed Capacity : 52MVA

Beneficiary Areas

University of Ghana Medical Centre (UGMC), University of Ghana Campus, Noguchi Memorial Institute for Medical Research, Ghana Standards Authority, Okponglo area, Fiesta Royale, GIMPA and the surrounding areas.

Project Benefits

- Improved power supply, quality and reliability to University of Ghana Medical Centre (UGMC), University of Ghana Campus, Noguchi Memorial Institute for Medical Research, Ghana Standards Authority, Okponglo area, Fiesta Royale, GIMPA and the surrounding areas.
- Reduced technical losses in ECG's Distribution System, ultimately contributing to improved financial performance.
- Improved redundancy and consequently improved reliability of the Sub-transmission Network in the Shiashie, University of Ghana, West Legon and East Legon area.
- Reduced power outages.

INAUGURATION OF UGMC PRIMARY SUBSTATION - April 27, 2022



Deputy Energy Minister and MP for Karaga, Hon. Mohammed Amin Adam and MCC Resident Country Director Steven Marma, unveil plaque. Looking on is Professor Yaa Ntiamoah-Baidu, MiDA Board Chair



MiDA CEO Martin Eson-Benjamin (Left), ECG Board Chair Keli Gadzekpo (Centre) and others join Hon. Amin Adam, Prof. Ntiamoah-Baidu and Steven Marma for a pose after UGMC Primary Substation Inauguration

ELLEN MORAN PRIMARY SUBSTATION - KANDA

The Ellen Moran Primary Substation at Kanda, is one of the many pieces of electric infrastructure constructed as part of the ECG Financial and Operational Turnaround (EFOT) Project of the Ghana Power Compact Program. The US\$14.5 million Substation is one of two primary substations in Accra constructed by the Millennium Development Authority (MiDA) with funding from the US Government Development Agency, the Millennium Challenge Corporation (MCC). The substation is named after a retired MCC employee, Ellen Kavanagh Moran.

The 78 mega volts amperes (MVA) capacity Substation will enhance the reliability of the power ECG supplies to critical national institutions such as 37 Military Hospital, the National Mosque, the Jubilee House, and the Greater Accra Regional Hospital (Ridge Hospital). It will also help meet the increasing demand for power by consumers in surrounding communities, such as Kanda, Ridge, and parts of Cantonments. Such improvements in power supply are expected to result in increased incomes and enhance social outcomes for residents in the catchment area of the Substation and in Accra generally. Over 200,000 residents will directly benefit from this investment.

For ECG, the Ellen Moran Primary Substation and associated interconnecting and offloading circuits will introduce greater flexibility

in evacuating power to consumers. The new circuits bifurcate some of the existing medium voltage (33kV and 11kV) power lines and consequently reduces power outages experienced by consumers in these areas. Financially, the investment will contribute to lowering technical losses because of reduced heating in the interconnecting and offloading power lines, thereby resulting in better cash flows for ECG.

The Substation houses two outdoor 30/39MVA power transformers and 33kV and 11kV switching equipment in a basement-type Control Building. It is integrated into the existing ECG 33kV Sub-transmission networks through a total of 88 km of 33kV interconnecting circuits. Power is evacuated to other Load Centers through 23.7 km of 11kV offloading circuits. The Substation is adequately sized to provide for future expansion.

The Ellen Moran Substation and interconnecting and offloading circuits were constructed by Messrs. Eiffage Énergie Systèmes, Messrs. TBEA Co. Ltd, and Messrs. Best and Crompton Engineering Ghana Ltd. The Project was designed and supervised by SMEC International.



A view of the Ellen Moran Primary Substation - Kanda

FACTS

Inaugurated on May 25, 2022 by Hon. William Owuraku Aidoo (MP), Dep. Minister for Energy on behalf of Hon. Dr Matthew Opoku Prempeh (MP), Energy Minister

Contract Value : US\$ 14.5 million

Contract Start Date : February 2020

Contract End Date : April 2022

Funding

United States Government through the MCC

Contractors

-Eiffage Énergie Systèmes

-TBEA Co. Ltd.

-Best & Crompton Engineering Ghana Ltd.

Project Engineer

SMEC International Pty Ltd.

Installed Capacity : 78MVA

Project Benefits

- Improved power supply, quality and reliability to 37 Military Hospital, National Mosque, Jubilee House, Ridge Hospital, businesses and homes.
- Reduced technical losses in ECG's Distribution System, ultimately contributing to improved financial performance.
- Improved redundancy and consequently improved reliability of the Sub-transmission Network in the Achimota, Switchback Road and Burma Camp areas.
- Reduced power outages.

INAUGURATION OF THE ELLEN MORAN PRIMARY SUBSTATION - *May 25, 2022*



Hon. William Owuraku Aidoo (MP), Deputy Minister for Energy, unveils commemorative plaque at the Ellen Moran Primary Substation - Kanda. Looking on is Ms Ellen Moran.



Ms Ellen K. Moran with Hon. William Owuraku Aidoo, MCC Resident Country Team, representatives of MiDA/ECG Board and Management and others after the inauguration of Ellen Moran Primary Substation - Kanda.

16 UNIT 3-BED FLATS FOR PROJECT AFFECTED PERSONS (PAPs) AT KANDA



Inside view of the above flat

POKUASE BULK SUPPLY POINT (BSP) PROJECT

IMPROVING POWER QUALITY AND RELIABILITY IN ACCRA AND BEYOND

The Pokuase BSP, with a total capacity of 580MVA, is the largest BSP in Ghana and the fifth BSP in Accra. Constructed under the existing 330kV Aboadze-Volta-Lomé Transmission line, the BSP is the first 330kV BSP in the capital and the most technologically advanced substation in Ghana. The Substation was constructed to improve power supply quality and reliability to the over 350,000 electricity consumers who live in the Pokuase, Nsawam, Achimota, Anyaa, Sowutuom, Kwabenya, Ashongman, Legon, Haatso, Agbogba, Adenta, and Aburi communities.

The infrastructure also helps to significantly reduce technical losses in the Ghana Grid Company's (GRIDCo) transmission system and the ECG electric distribution system, ultimately contributing to improving the financial viability of the Utilities. Siting of the BSP in Pokuase was informed by the rapidly increasing demand for electricity from the northern parts of the Capital, Accra. Some 240 people, with more than 15% being female, were employed directly by the Contractors and various Subcontractors who worked on the BSP. Several of these workers were residents of the Pokuase Community.

Elecnor S.A., a Spanish Company with global presence, won the design-build contract to construct the substation in February 2019. By May 31, 2021, the company had completed and energized the Substation, despite the ravages of the COVID-19 pandemic. The Contract for the construction of the 33kV sub-transmission lines to evacuate power from the Pokuase BSP into the electric distribution network, was awarded to Best and Crompton Engineering Ghana Ltd. Best and Crompton Engineering completed its task within 18 months, erecting new sets of Quadruple Circuit steel lattice towers to move power from the Pokuase BSP to ECG's Primary Substation in Ofankor, Kwaben-

ya, and Nsawam. The two Contracts were collectively worth US\$64.72 million and are part of the electricity infrastructure built by the Millennium Development Authority (MiDA) under the Ghana Power Compact, with funds provided by the United States Government through its Agency, the Millennium Challenge Corporation (MCC).

Complex Projects, such as the Ghana Power Compact Program, and more specifically the Pokuase BSP, require the services of an Engineering Consultant to design the infrastructure, supervise construction activities, and administer the Contracts. SMEC International, a leading multi-disciplinary Consulting firm, was awarded the contract for this role.

The Pokuase BSP won the 2021 Project Management Excellence Project of the Year Award at the maiden PMI Excellence Awards held in Sogakope on July 30, 2021. According to the Project Management Institute (PMI) Ghana, "the level of knowledge, expertise and management skills demonstrated by the nominee and the results in project delivery, organizational and social benefits as well as professionalism and high adherence to and practice of project management principles were the determining factors in conferring the Award"

On April 30, 2019, Honorable Akosua Frema Osei-Opare, Chief of Staff at the Office of the President, acting on behalf of the President of the Republic of Ghana, broke the ground for the construction of the Pokuase Bulk Supply Point (BSP) Substation. She was supported by the US Ambassador to Ghana, Stephanie S. Sullivan, Anthony Welcher, former MCC Vice-President for Compact Operations and Professor Yaa Ntiamoa-Baidu, Chairperson of the MiDA Board, at a colorful Ceremony organized by MiDA.



Pokuase BSP at night

FACTS

Inaugurated on October 20, 2021 by H.E. Nana Addo Dankwa Akufo-Addo, President of The Republic of Ghana

Contract Price : US\$ 64.72 million

BSP Project Start Date : March 5, 2019

BSP Project End Date : July 23, 2021

Funding

United States Government through the MCC

Contractors

- Elecnor S.A. of Spain
- Best & Crompton Engineering Ghana Ltd

Project Engineer

SMEC International Pty Ltd

Total Capacity : 580MVA (Largest BSP in Ghana)

No of electricity consumers : 350,000

No. of Staff Employed : 240 Employees (90% Ghanaians of which 15% were female)

Beneficiary Areas

- Pokuase, Nsawam, Achimota, Anyaa, Sowutuom, Kwabenya, Ashongman, Legon, Haatso, Agbogba, Adenta, Aburi.

Project Benefits

- Increased reliability of power supply to homes, businesses and industrial plants.
- Reduced technical losses in GRIDCo's electricity Transmission System and ECG's Distribution System, ultimately contributing to improved financial performance.

POKUASE BSP GROUNDBREAKING CEREMONY - April 30, 2019



Hon. Akosua Frema Osei-Opere (centre), Chief of Staff and Prof. Yaa Ntiama-Baidu (left) MiDA Board Chair perform symbolic groundbreaking

POKUASE BSP INAUGURATION CEREMONY - October 20, 2021



H.E. Nana Addo Dankwa Akufo-Addo cuts ribbon to inaugurate the Pokuase BSP as former US Ambassador to Ghana, Stephanie S. Sullivan, Nii Oto Kwame V, Pokuase Mantse and others look on.

KASOA BULK SUPPLY POINT (BSP) PROJECT

Construction of the Kasoa BSP and the associated Interconnecting Circuits, by the Millennium Development Authority (MiDA), the Government of Ghana's Accountable Entity under the Compact II Program, was necessitated by the phenomenal growth and expansion in industrial and socio-economic activities in Kasoa and adjoining communities such as Senya Breku, Bawjiase, Nyanyano, Tuba and Tokuse

Demand for power in this economic enclave, which cover an ECG service area population of about 250,000 customers, resulted in attendant power challenges such as frequent outages and low voltages. For this reason, and in line with GRIDCo's Transmission Study Master Plan, the BSP was sited at its location in Kasoa. It is the second largest in Ghana after the 580 MVA Pokuase BSP.

The 435MVA capacity Kasoa BSP, with state-of-the-art technology, is part of the major infrastructural investments envisaged under the Ghana Power Compact's Electricity Company of Ghana (ECG) Financial and Operational Turnaround (EFOT) Project, which has made investments in ECG's distribution network in order to reduce technical, commercial, and collection losses and improve service quality. The BSP, constructed at an approximate cost of US\$50 million was introduced into the portfolio of Compact Projects after the Mid-term Compact Review in February 2019. The United States of America, through its Agency, the Millennium Challenge Corporation (MCC) funded the Project.

The BSP is GRIDCo's second Gas Insulated Switchgear (GIS) Substation and largest coming after the 375MVA capacity Substation located on the Graphic Road in Accra. The Kasoa BSP comprises three 161/34.5kV, 120/145MVA, 3ph, Power Transformers, four diame-

ters of 170kV GIS Switchgear, an associated 34.5kV component and a 50MVAR Static Synchronous Compensator Transformer (STATCOM), for reactive power control. The STATCOM will significantly improve the stability of the country's power system. It will help reduce the incidences of transmission grid collapse and the time it takes to restore the grid after any major disturbances in the system. The Substation also has an ultra-modern 33kV Indoor Switchgear with associated 33kV interconnecting circuits, constructed for ECG.

The Kasoa BSP Project involved breaking into the then 161kV Mallam to Winneba and 161kV Mallam to Cape Coast double circuit lines, with the introduction of four dead-end (T-Off) Towers and bringing these circuits in and out of the Substation using underground cables from the T-Off Towers.

Following its completion, the Kasoa BSP is supporting the significant reduction in technical losses in GRIDCo's transmission system and in ECG's power distribution systems, thereby contributing to improving the financial viability of these Utilities. Communities in the Awutu Senya East municipality are noticing improved power quality and reliability as seen in the reduction of low voltages and reduction in outages, thereby offering protection to their electronic and electrical appliances.

Messrs Siemens Energy SAS of France, a reputable company with recognized global excellence, was awarded the Design-build Contract in January 2020 to construct the Kasoa BSP. MiDA engaged SMEC International PTY, a leading multi-disciplinary Consulting firm as the Engineering Consultant to provide the needed professional services in preliminary designs, review of Contractor's submissions and also supervision of construction activities.



FACTS

Inaugurated on June 1, 2022 by H.E. Dr. Alhaji Mahamudu Bawumia, Vice President of The Republic of Ghana on behalf of H.E. Nana Addo Dankwa Akufo-Addo, President of The Republic of Ghana

Contract Value : US\$ 50 Million (approx.)

Contract Start Date : January 2020

Contract End Date : June 2022

Funding

United States Government through the MCC

Contractor

Siemens Energy SAS

Project Engineer

SMEC International Pty Ltd.

Installed Capacity : 435MVA

Beneficiary Areas

Kasoa and the adjoining Communities such as Senya Breku, Bawjiase, Nyanyano, Tuba and Tokuse etc, covering an ECG Service Area population of about 250,000 customers, within the Awutu Senya East Municipality.

Project Benefits

- Meet increased power demand in beneficiary areas.
- Improve power supply, quality and reliability to beneficiaries.
- Boost socio-economic activities and support Government's initiative and development agenda, within the Awutu Senya East Municipality.
- Reduce technical losses in GRIDCo's Transmission System and ECG's Distribution System.
- Improve the financial viability and performance of GRIDCo and ECG.

KASOA BSP INAUGURATION CEREMONY - *June 1, 2022*



Ing. William Amuna, Technical Controller at MiDA, conducting Vice President Alhaji Dr. Mahamudu Bawumia on a tour around the Kasoa BSP site



Vice President Alhaji Dr. Mahamudu Bawumia and Ms. Nicole Chulick, Dep. Chief of Mission at the US Embassy in a group photo with Board Members and Management of GRIDCo, ECG and MiDA

ENERGY EFFICIENCY AND DEMAND SIDE MANAGEMENT(EEDSM) PROJECT

COST

US\$

25,188,348

The Constraints Analysis 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 EEDSM Project comprised of the following Activities:

1. Development and Enforcement of Standards and Labels Activity, to provide information on the energy efficiency performance of selected energy consuming appliances and products available on the market, and to ensure minimum efficiency standards for products on the market. The uptake of more efficient appliances and equipment will reduce consumers' utility bills and thereby save them money in the long run. It could also help reduce peak demand, or at least mitigate growth in peak demand.
2. Improved Energy Auditing Activity, to build the capacity of energy management professionals to ensure that a core of qualified and certified professionals are available in the Ghanaian market who can assist industrial and commercial customers in implementing cost effective energy savings measures such as building retrofits.
3. Education and Public Information Activity, to help to ensure that consumers are fully informed regarding the benefits and trade-offs of higher efficiency appliances and equipment.
4. Demand Side Management Infrastructure Activity, to support the conversion of conventional street lights in ECG Target Regions to highly efficient LED street lights.

MiDA SUPPORTS THE GHANA STANDARDS AUTHORITY (GSA) IN PROMOTING ENERGY EFFICIENCY IN GHANA

SET OF OFFICE EQUIPMENT PRESENTED TO THE GHANA STANDARDS AUTHORITY

The Millennium Development Authority (MiDA) presented computers and related accessories, printers, photocopiers and a projector to the Ghana Standards Authority (GSA) to support the national standards regulator's work towards promoting energy efficiency and conservation in power use. Under the Compact II program's Energy Efficiency and Demand Side Management (EEDSM) Project, MiDA collaborated with the GSA to prepare Legislative Instruments (LI) for the upgrade and adoption of standards for 20 energy consuming products and appliances in Ghana. The presentation of the set of office equipment signified MiDA's fulfilment of its commitment to support the GSA towards developing the standards for the 20 electric and electronic appliances.

The GSA organized a short ceremony at its Head Office in Accra to receive the items valued at GH¢65,790.88. Mr. Martin Eson-Benjamin, Chief Executive Officer (CEO) of MiDA, at the ceremony, said MiDA was pleased to present the set of office equipment intended to support GSA's work and reaffirmed MiDA's commitment to work with stakeholders to deliver the Compact for Ghanaians. He announced that the existing standards for Refrigerators and Air Conditioners (under Lot 1 of the Project) had been upgraded or revised and new standards for Ceiling Fans & Regulators, Television Sets, Satellite Decoders/TV Signal Boxes and "Lighting - (Domestic/Commercial Lighting/Street Lighting) had been adopted by the GSA's Technical Committee.

The Director-General of the GSA, Prof. Alex Dodoo, received the items and thanked MiDA for the support. He noted that the partnership with MiDA would help promote energy efficiency and conservation in power use, which is needed for the country's transformation agenda.



Mr. Martin Eson-Benjamin, MiDA CEO, presents two laptops from the office equipment (below) to Prof. Alex Dodoo, GSA Director-General.



FACTS

Mr. Martin Eson-Benjamin, MiDA CEO, presented office equipment to Prof Alex Dodoo, Dir. General, GSA, on Dec. 22, 2017.

Total Support to GSA : US\$5.5M

Equipment Cost: : GH¢65,790.88

Funding

United States Government through the Millennium Challenge Corporation (MCC)

AIR CONDITIONER AND REFRIGERATOR TEST LABORATORY FOR THE GHANA STANDARDS AUTHORITY INAUGURATED

A new Air Conditioner and Refrigeration Test Laboratory was established at the Ghana Standards Authority (GSA) as part of the Energy Efficiency and Demand Side Management (EEDSM) Project of the Ghana Power Compact. The Test Laboratory is the first of its kind in Ghana and in the West Africa Sub-Region and has the capacity to test 96 Air Conditioners and 48 Refrigeration appliances annually.

The Facility enables the GSA to test and ensure that all Air Conditioners and Refrigerators imported into Ghana meet the Minimum Energy Performance Standards (MEPS) set out in the Energy Commission's Energy Efficiency Regulations. Air Conditioners and Refrigeration appliances are high energy consuming appliances; therefore, the establishment of the Test Laboratory will support Ghana's energy efficiency agenda.

The introduction of the Facility is timely, as it will also support the work of the Energy Commission in enforcing the Import Certification Scheme, which demands that selected high-risk goods entering Ghana must be certified as meeting all obligatory standards. The Facility will also aid the effectiveness of the current Energy Efficiency Appliance Standards and Labelling regime being undertaken by the Energy Commission

The Test Laboratory was constructed and equipped under the US\$316m Ghana Power Compact Program funds provided by the Government of the United States of America, acting through its Agency, the Millennium Challenge Corporation (MCC). The Millennium Development Authority (MiDA) and the GSA invested US \$1.89 million (\$1,841,841,981 and \$45,000 respectively) in the construction of the facility.



AC & Refrigerator Test Laboratory (Inset - Inside view)

FACTS

Inaugurated on November 18, 2021
by Hon. Michael Okyere Baafi,
Dep. Minister for Trade and Industry

Total Contract Price : US\$ 1,886,981.14
(Building & Eqpt.)

Funding

Millennium Challenge Corporation
& Ghana Standards Authority

Contractors : GHS Housing and CR InterTrade Ltd

Project Manager : SMEC International Pty Ltd

Containment Building : Start - 2nd June 2020;
End - 8th May 2021

Installation of Eqpt. : Start - 19th April 2021;
End - 16th July 2021

No. of Components : 2 (AC and Refrigerator
Testing Components)

System Capacity:

AC Component - (up to 12kW);
Refrigerator Component - (up to 600L)

Benefits Include:

- It will ensure that only approved energy efficient cooling appliances are allowed into the market
- It will improve regulatory activities through the various test parameters
- It will also improve Customer confidence in their choice of items they purchase
- It will widen the Customer's choice in selecting according to their Budgets
- It will help to reduce the high energy demand and usage of power on the national electricity grid

INAUGURATION OF THE AIR CONDITIONER AND REFRIGERATOR TEST LABORATORY - November 18, 2021



Hon. Michael Okyere Baafi (MP), Dep. Minister for Trade & Industry (second left) and Amb. Stephanie S. Sullivan (second right), former US Ambassador to Ghana, unveil commemorative plaque. With them are Martin Eson-Benjamin, MiDA CEO (left) Steven Marma (right), MCC Resident Country Director.



Members of the GSA Board, MiDA Management, MCC Country Team pose with Hon. Michael Okyere Baafi and Amb. Stephanie S. Sullivan after unveiling commemorative plaque for AC & Refrigerator Test Laboratory

STREET LIGHTING ENHANCEMENT PROJECT

523.68KM STRETCH OF ROADS ACROSS 20 MMDAS LIT WITH ENERGY EFFICIENT LUMINAIRES

The Street Lighting Replacement Works under the Ghana Power Compact Program, implemented by the Millennium Development Authority, (MiDA), involved improvements in the quality of lighting on selected Streets in Accra and those leading to Aburi. A total of 14,287 energy-efficient and durable luminaires were fitted on 523.68km road stretch as upgrades to existing street lights or as new installations. The works were split into Tranche 1 (177.76km) and Tranche 2 (345.92km).

The Street Lighting Replacement Works were implemented under the Energy Efficiency and Demand Side Management (EEDSM) Project of the Compact Program. The Project is expected to reduce electricity used for street lighting by 40%, reduce the cost-burden on Assemblies and contribute to improved road safety and the security of road users at night.



Independence Avenue Road at Night

FACTS

Total Contract Price

US\$ 13.17 million

Funding

United States Government through the Millennium Challenge Corporation (MCC)

Contractors

- Elsewedy
- Prefos Limited
- Process and Plant Automation Ltd

14,287 energy-efficient and durable luminaires installed

Total of 523.68km of selected Streets in Accra covered

Beneficiary Areas

- Accra Central Business District (CBD),
- Selected Streets in Accra East
- Selected Streets in Accra West

ENERGY EFFICIENCY CURRICULUM PILOTED IN 30 SCHOOLS

MiDA INTRODUCES ENERGY EFFICIENCY AND CONSERVATION BEHAVIOURS IN PRE-TERTIARY SCHOOLS

The Millennium Development Authority (MiDA), through its Energy Efficiency and Demand Side Management Project, piloted an energy efficiency project aimed at influencing behavioural change towards energy efficiency and conservation in 30 schools in the Greater Accra, Ashanti and Northern regions. The Project sought to incorporate energy efficiency and conservation into Ghana's pre-tertiary curriculum.

This would ensure that teachers, students and the public develop the right behavioral and attitudinal change to ensure sustainable use of energy both in school and at home. The project, in collaboration with Associates for Change(AfC), Ministry of Education (MoE), National Council for Curriculum and Assessment (NaCCA) and Ghana Education Service (GES) was piloted in six districts in the three regions.



Students nurturing flowers



A poster designed by students to promote energy saving behaviours



Students appreciating a wall mural designed and painted by students to encourage tree planting and greenery

RACE-TO-RETROFIT PROJECT ACTIVITY

SEVEN GOVERNMENT INSTITUTIONS WITH HIGH ENERGY CONSUMPTION TO CUT BILLS BY ABOUT 20%

Seven Government institutions with high energy consuming appliances benefitted from the Ghana Power Compact Program's Race-to-Retrofit Activity, which was implemented under the Energy Efficiency and Demand Side Management (EEDSM) Project. The United States Government through the Millennium Challenge Corporation (MCC) provided US\$3 million for the Activity. Each institution was provided high energy efficient appliances such as refrigerators, air-conditioners, fans, LED lighting systems and real-time energy monitoring systems. The beneficiary institutions were Korle-Bu Teaching Hospital(KTH), the University of Ghana, Adabraka Polyclinic, Department of Urban Roads, the Ministries of Education and Health, and the Ghana Education Service.

The installation of the energy saving appliances and office retrofitting is expected to result in the reduction in the electricity bills received by the various institutions by up to 40%. The Korle-Bu Teach-

ing Hospital, for instance, is expected to make electricity bill savings of an estimated GH¢2.1 million annually after the implementation of the Project in four Departments of the Hospital. The intervention at the nation's biggest hospital were implemented at the Child Health Department, the Medical Block, the Central Lab and the old and new Accident and Emergency Units.

Before the Race-to-Retrofit Activity, the beneficiary institutions were audited to ascertain their energy usage and to provide a fair understanding of the quantum of energy saved after the intervention. To this end, real-time energy monitoring systems were installed at the beneficiary institutions to check power consumption. The project is to serve as a base model for replication in both public and private institutions.



Energy efficient air conditioners and fans installed at the Korle-Bu Teaching Hospital.

FACTS

Total Cost of Race-to-Retrofit Project
US\$3,000,000

Funding

United States Government through the Millennium Challenge Corporation (MCC)

Contractors

Maybert/Wester Engineering

Beneficiaries

Six Public Institutions:

- Korle-Bu Teaching Hospital
- University of Ghana
- Adabraka Polyclinic
- Department of Urban Roads
- Ministry of Education
- Ministry of Health.

Benefits

Energy cost savings for six public institutions.

SUSTAINABLE ENERGY SERVICE CENTRES (SESCs)

The Millennium Development Authority (MiDA), in collaboration with the Energy Commission (EC) of Ghana, established Sustainable Energy Service Centres (SESCs) in three tertiary Institutions in Ghana to train and certify professionals who will assist Organizations to adopt and implement cost-effective energy saving measures in their operations.

The SESC located at Accra Technical University (ATU), the Kwame Nkrumah University of Science and Technology (KNUST) and the University of Energy and Natural Resources (UENR) are the first of its kind in the country with potential to serve entities across the West African Sub-region.

The establishment of the SESC was part of the Ghana Power Compact Program's Energy Efficiency and Demand Side Management (EEDSM) Project, funded by the Millennium Challenge Corporation (MCC), an Agency of the US Government, and the Government of Ghana. The EEDSM Project has introduced through its Activities, innovative approaches to the efficient use and conservation of power in Ghana.

Energy efficient systems present significant cost saving benefits to Ghana's Power Utility Providers, public and private Institutions, industrial and commercial consumers and ultimately impacts the value of Government's investments in the sector. Findings of a Study by Development Environenergy Services Limited (DESL), the Consultant on the Project, revealed that adopting energy-efficient systems in Ghana will result in over 4000 GWh annual energy savings, representing 30% of Ghana's current energy demand. Additionally, an estimated minimum peak load savings of 500 MW can be achieved with the adoption of energy efficiency behaviors, thereby reducing the need for additional investments in generation capacity.

Through the SESC, the Energy Commission can build national capacity in energy auditing; ensuring that there is a core of qualified and certified professionals available in Ghana to carry out market assessments and to advise Government and Regulators on appropriate policies to adopt in the Sector. The professionals will also provide

energy auditing services to consumers, project development and implementation and risk assessment to Banks and Financial Institutions to facilitate the development of appropriate financing instruments or products. Development Finance Institutions can also benefit from the availability of energy auditors skilled in the design and implementation of programs to transform the Sustainable Energy (SE) market in the country. Ultimately, this initiative will act as a catalyst to stimulate the Sustainable Energy market and generate employment in the EEDSM Sub-sector.

For the tertiary Institutions, the SESC will provide an additional revenue stream from the training and certification and other sustainable energy consultancy services offered to Government Agencies, State Owned Enterprises, private businesses and other stakeholders.

Each SESC Institution nominated Representatives trained under a specially designed "Training of Trainers (TOTs)" Program, and are equipped with the requisite skills to act as faculty for future Training and Certification Examination Programs. They will work under the supervision of the Energy Commission to provide tertiary level education in Sustainable Energy, including training and certification of Energy Auditors. The training courses and curricula have been developed for three categories of Energy Services Professionals.

These are:

- a. Sustainable Energy Management Professionals (SEMP),
- b. Sustainable Energy Audit Professionals (SEAP), and
- c. Energy Audit Practical Professionals (EAP).

ATU, KNUST and UENR undertook capacity building to ensure that they can host the SESC and operate them sustainably. They also received skills training in the preparation of business plans and marketing strategies for the successful operation of the Centres. Each of the SESC received from MiDA, energy auditing equipment, office furniture and IT equipment, audio visual systems, refrigerator and water dispenser, a newly developed website, and a Project Vehicle as a starter pack for the Program.

FACTS

Inaugurated on July 26, 2022 by Hon. Andrew Kofi Egyapa Mercer (MP), Dep. Minister for Energy, on behalf of Hon. Dr. Matthew Opoku Prempeh (MP), Energy Minister

Project Value : US\$ 284,928

(Energy Audit Instruments,
Office and IT Equipment and
Three Vehicles for all 3 Centers)

Funding

United States Government through the Millennium Challenge Corporation (MCC)

Contract Start Date : January 2019

Contract End Date : August 2021

Project Consultant

Development Environenergy Services Ltd.

Beneficiary Institutions

- i. A Consortium led by the Accra Technical University and the Institution of Engineering and Technology and Center for Renewable Energy Entrepreneurship and Innovation (CREEI);
- ii. Kwame Nkrumah University of Science and Technology (KNUST);
- iii. A Consortium led by the University of Energy and Natural Resources (UENR) and the Sunyani Technical University, Kumasi Technical University, and the Energy Foundation.

HANDING OVER CEREMONY OF SESC*s* - July 26, 2022



Ms. Nicole Chulick, Dep. Chief of Mission at the US Embassy-Ghana, hands over key to Toyota Land Cruiser to Prof. Elvis Asare-Bediako, Vice Chancellor of UENR, Sunyani. With them is Kofi Agyarko, Director of Renewable Energy, Energy Efficiency and Climate Change at the Energy Commission.



Hon. Andrew Egyapa Mercer (MP, in left picture, hands over keys to vehicles to Prof. George Yaw Obeng, HOD-Department of Mechanical Engineering KNUST and to Prof. Samuel Nii Odai, Vice-Chancellor of ATU in right picture.

ACCESS PROJECT

COST

US\$

6,642,147

The objective of this Activity was to improve access to, and reliability of the supply of electricity for Medium, Small and Micro Enterprises (MSMEs) in targeted Markets and Economic Enclaves (M&EEs) and to improve the safety and security of vendors' including their wares in the M&EEs. To inform the design of this Activity, a power audit was conducted in targeted M&EEs to provide information on the status of existing electricity infrastructure, wiring standards, and potential fire hazards and recommend upgrades and corrective interventions to ensure reliability in electricity supply and safety. As a result of the de-obligation of Tranche II Funds, the available Compact funds was use to focus on visible Projects, and this excluded planned activities under the Access Project. GoG had to finance the Access Project.

The Access Project consisted of the following Activities:

1. Improved Electricity Supply to MSMEs and Social Institutions Activity, to improve the supply of electricity for MSMEs in Targeted Markets and Economic Enclaves and, to the extent possible, nearby social institutions.
2. Improving Service Delivery and Strengthening Partnerships Activity, to develop and implement technical and institutional approaches for broadening participation in the productive use of electricity that can be applied in the service areas of ECG and NEDCo.

MARKETS AND ECONOMIC ENCLAVES BENEFIT FROM COMPACT PROGRAM'S ACCESS PROJECT

The Millennium Development Authority, MiDA, through the Power Compact Program's Access Project improved the quality of electricity supplied to a total of 10 selected markets and economic enclaves in Accra and Tamale. The Project also increased the number of new electricity connections in the beneficiary markets and economic enclaves by reducing the barriers micro, small and medium business owners encounter in obtaining legal access to electricity supply. Additionally, the installation of security lighting in the markets has enhanced market security, reduced thefts and provided the opportunity for market managers to extend market hours. The Project is expected to contribute to reducing the incidences of market fires caused generally caused by poor electrical wiring.

The Agbogboloshie I, Madina, Dansoman, Kaneshie, Makola, Nii Boiman and Accra Timber Markets make up the list of beneficiary markets and economic enclave in the Greater Accra Region for the Project, whilst the Tamale Central Market, Lamashegu and the Tamale Timber Market from the Northern Region complete the list of beneficiary markets and economic enclaves.

The Project involved replacement of old distribution transformers as well as over-aged wires and poor wiring which posed health and safety challenges in the respective markets.



FACTS

Total Project Cost : US\$7,928,844.75
 HVDS & SL - US\$6,850,212.24
 Consultancy - US\$1,078,632.51

Project Start Dates: COFANS - 22 July 2019;
 HVDS&SL- 14 Aug. 2020

Project End Date : 30 Sep. 2022

Funding
 Government of Ghana (GoG)

Contractors
 Intermerc Ltd – Contractor for High Voltage Distribution System electrical infrastructure (HVDS) and Security Lighting (SL) Construction.

Consultant
 Innovative Services Ltd – Consultant for Customer Outreach, Facilitation Assistance, and Normalization of Services (COFANS)

10 Beneficiary Markets
 Agbogboloshie I, Madina, Dansoman, Kaneshie, Makola, Accra Timber Markets, Nii Boiman, Lamashegu, Tamale Central Market and Tamale Timber Market

- Benefits**
- About 11,000 MSMEs formally connected to reliable electricity
 - Improvements in accessing formal connection to electricity services
 - Introduction of 40 new transformers, and associated LV circuits to reduce distribution system losses to improve access to quality and reliable electricity services
 - Improved Utility Financial health as a result of increased access to formal connections
 - Minimization of the risks of electrical sparks, shocks, and fires in the M&EEs due to improvements in network infrastructure and internal wirings.
 - 924 no. security lighting installation will improve the safety and security of vendors and their properties

INSTALLATIONS IN MARKETS - September. 2022



Pole-mounted Meters



MV Network and Transformer Installation



Security lighting

REGULATORY STRENGTHENING AND CAPACITY BUILDING (RSCB) PROJECT

COST
US\$
2,519,342

The purpose of the Sector Performance Monitoring Capacity Building Activity was to provide capacity building for the Ministry of Energy (MoEn), National Development Planning Commission (NDPC), Public Utilities Regulatory Commission (PURC), and Energy Commission (EC) to strengthen their capacity for performance monitoring and ensuring service quality. The Regulatory Strengthening and Capacity Building Project focused on regulatory monitoring and independent verification by MoEn, PURC and the EC.

The Regulatory Strengthening and Capacity Building Project consisted of the following two Activities:

1. Sector Performance Monitoring Capacity Building Activity, to provide capacity building for the Ministry of Energy (MoEn), National Development Planning Commission (NDPC), Public Utilities Regulatory Commission (PURC), and Energy Commission (EC) Staff to strengthen their capacity for performance monitoring.
2. Tariff Review and Regulation Activity, to strengthen ratemaking and other regulatory processes.

POWER COMPACT INTRODUCES REFORMS IN TARIFF IMPLEMENTATION

The need for Ghana's Power Sector to be financially self-sustaining and less reliant on cross-subsidies informed the design of the Compact's Regulatory Strengthening and Capacity Building Project. The Project sought to improve the power sector's regulatory and policy environment.

On this Project, MiDA collaborated with the Public Utilities and Regulatory Commission (PURC) on the Tariff Review and Regulation Activity. The Activity pursued a review and the restructure of the tariff setting process to ensure a rigorous and responsive regulatory environment. The Activity also sought to strengthen ratemaking and other regulatory processes through tariff studies.

A transparent and responsive regulatory environment is key for sustainable national development. Cost-reflective tariffs ultimately improve the financial health of the power sector. It enables Utilities and investors to gain good returns on their investments and, in turn, ultimately improves the financial health of the power sector.



Participants in a group photo after a Tariff review meeting

EMPOWERING WOMEN

GHANA POWER COMPACT INTERNSHIP & MENTORING PROGRAM (GPCIMP)

The Ghana Power Compact Internship and Mentoring Program (GPCIMP) is a program for young women in tertiary institutions, and Technical, Vocational, Education and Training (TVET) offering Science, Technology, Engineering and Mathematics (STEM) courses to have relevant information, knowledge, and support to make career choices.

The objective of the program is to support female students in STEM fields to gain practical skills relevant to the job market in the Energy Sector, build their confidence, and improve their coping skills to deal with the stereotypes and negative attitudes about women in STEM; and strengthen networking for employment opportunities.

The Ghana Power Compact Internship and Mentoring program was expected to produce qualified and diverse young women (i) exposed to leadership skills, workplace culture, and ethics, (ii) aware of challenges and opportunities for women at the workplace, (iii) equipped with coping skills and (iv) and able to navigate and progress to crucial decision-making positions in the organizations. Following the Compact's Objective of increasing employment opportunities for women and men, GPCIMP was expected to create equal opportunities for women and girls to pursue STEM careers and to contribute toward Ghana's fast-growing Energy Sector and the economy in general.

The components of the two-month Internship Program are as follows:

1. Orientation and Capacity building on Leadership and other Soft-skills as well as Anti-Sexual Harassment;
2. Practical and hands-on skills training under dedicated Supervisor;
3. Individual and Group Mentoring sessions led by Mentors from Professional Bodies and Associations;
4. Monitoring visits by MiDA and Education institutions to assess Interns' progress and challenges at the workplace;
5. Intern Reflection session and Closing ceremony of the Internship and Mentoring Program;
6. Employers, Educators and Mentors Forum; and
7. Bi-annual Group Mentoring sessions for GPCIMP alumni and National Service Persons serving in the Energy Sector.





A group photo of Interns and Mentors after a Training Session



An Intern engaged in a practical STEM activity on the field

FACTS

Funding

United States Government through the MCC

GPCIMP Pilot Program - 2018

- No. of Interns (Cohort 1): 50
- 6 Universities and Technical Institutes
- Placed in 3 Energy organizations:
Electricity Company of Ghana (ECG),
Energy Commission (EC), and
Ghana Standard Authority (GSA).

GPCIMP Main Program - 2019

- 202 no. of Interns (Cohort 2)
- 30 Tertiary and Technical Institutions
- Placed in 22 Energy organizations

GPCIMP Virtual Capacity Building and Mentoring - 2020

- 217 no. of Interns (Cohort 3)
- There were no industrial placements because of the Covid-19 pandemic

GPCIMP - 2021

- 109 no. of Interns (Cohort 4)
- 15 Educational Institutions
- Placed in 14 Energy organizations

MCC OFFICIAL VISITS



Dana Hyde (3rd right), former MCC CEO with MCC Country Team, MiDA Management and Staff during her visit in Oct. 2016



MiDA hosts Mr. Jason Small, MCC MD for Africa - Oct. 2018



Visit by MCC Vice President, Ms. Kyeh Kim - Dec. 2018



Meeting with Jonathan Nash, MCC CEO - July 2018



MCC Veep, Mr. Anthony Welcher visits VRA, Akosombo Hydro Electric Power Plant - May 2019

STAKEHOLDER ENGAGEMENTS AND OUTREACH



MiDA engages with Asantehene Otumfuo Osei-Tutu II - Oct. 2015



MiDA engages with Osagyefuo Amoatia Ofori Panin - Apr. 2017



Engagement with Togbe Afede-Chief of Asogli State - Nov. 2015



Outreach to The Ghana Armed Forces, HQ - Dec. 2015



Outreach to Africa Centre for Energy Policy (ACEP) - Dec. 2015



Outreach to Association of Ghana Industries (AGI) - Dec. 2015



Outreach to Private Enterprise Federation (PEF) - Dec. 2015



Outreach to Institute of Economic Affairs (IEA) - Feb. 2016



Engagement with Chief of Pokuase Nii Oto kwame V and Nuumo Gbelenfo Gua Wulomo - April 2019

EVENTS



MiDA SAP Training Go-Live Day - Jan. 2016



Celebrating 1st edition of MiDA Newsletter - Feb. 2016



Compact II Entry-Into-Force (EIF) Celebration - Sep. 2016



Former Gender Minister, Hon. Otiko Afisa Djaba launches Social and Gender Integration Plan (SGIP); the framework for Compact's gender activities - Oct. 2017



International Women's Day Celebration - March 2018



Ghana Power Compact Internship & Mentoring Programme (GPCIMP) launch - June 2018



MiDA CEO, Martin Eson-Benjamin receives Digitalization Project of the Year award at 5th Ghana Energy Awards - Nov. 2021



Project of the Year Award won at the Project Management Excellence Awards by the Pokuase BSP in July 2021. The Excellence Awards was organised by the Project Management Institute (PMI) Ghana.

EVENTS



MCC & MiDA officials visit Veep Office as part of 2nd Anniversary commemoration of Compact II Entry-Into-Force - Sep. 2018



Compact II 2nd Anniversary event - Sep. 2018



Launch of The Ghana Power Compact - Brighter Ghana Video Documentary - Sep. 2018



Christmas celebrations - Secret Santa event - Dec. 2018





President Nana Akufo-Addo swears in the MiDA Board in Jubilee House.



Members of the Board with the President - March 2017

PROGRAM GOVERNANCE / MiDA BOARD OF DIRECTORS



Participants at MiDA-ECG Board Retreat, Senchi - June 2018



MiDA Board Meeting - March 2016



MiDA Management Retreat - Jan. 2017



MiDA Board Members and Madam Akosua Frema Osei-Opare, Chief of Staff after a meeting at the Presidency - Jan. 2019

OFFICIAL VISITS BY OFFICE OF GOVERNMENT MACHINERY AND MP FOR TROBU CONSTITUENCY



Officials from Office of Government Machinery (OGM) visit MiDA - Oct. 2018



Hon. Moses Anim, MP for Trobu Constituency pays visit to MiDA - Feb. 2019

IMPLEMENTING ENTITY AGREEMENT (IEA) SIGNINGS & PRESENTATIONS



MiDA signs IEA with Lands Commission - Feb. 2018



MiDA signs IEA with PURC - March 2018



MiDA signs IEA with NEDCo - March 2018



Presentation of Office Equipment to the Lands Commission



MiDA signs IEA with the Attorney General's Dept. - April 2018



IEA signing with the Ministry of Energy - May 2018



MiDA presents Office Equipment to the Attorney General's Dept. - Jan. 2019



MCC AFRICA'S PROMISE INTERNSHIP PROGRAM

On May 23, 2018, MiDA received the first cohort of interns recruited under the Millennium Challenge Corporation (MCC) internship program, Africa's Promise. The initiative, announced on August 3, 2016, by President Barack Obama, sought to expand opportunities for African youth aged between 18 and 35 to gain technical and leadership skills through working on MCC funded Compact Programs being implemented by their home countries.

Ghana was the first, among six other countries namely Benin, Liberia, Malawi, Morocco, Niger and Zambia, to pilot the initiative and accepted two cohorts through during the Power Compact's implementation.

Africa's Promise interns, learned best practices on project management – including financial and public sector management – in the local country context and were exposed to targeted professional development and networking opportunities in both the public and private sectors. These skills prepared them for the job market after the six months paid internship period.



First Cohort of Africa's Promise Interns with Martin Eson-Benjamin, MiDA CEO, and Kenneth Miller, former MCC Resident Country Director - May 2018



Closing ceremony for 1st cohort of Africa's Promise Interns - Nov. 2018



Africa's Promise Cohort 2 Interns Close-out - Aug. 2020

WORKSHOPS & TRAINING



Comapct II Program Implementation Workshop - July 2016



MiDA organises procurement training for bidders - Mar. 2017



Training on Administration and Finance processes for MiDA Drivers - Nov. 2017



Vice President Alhaji Dr. Mahamudu Bawumia meets with participants at a Tariff Methodology workshop, Abokobi July 2017

WORKSHOPS & TRAINING



Some participants at Anti-Fraud and Corruption Training April 2017



Vice President Alhaji Dr. Mahamudu Bawumia interacts with participants at a MiDA-NEDCo meeting - June 2018



SAP software training for MiDA Finance & Procurement Teams



Cross-section of participants at a Regulatory Strengthening Partnership Workshop - May 2019



Participants at a Capacity Scan (CAP Scan) Workshop - Jan. 2018

MEDIA RELATIONS



Media Editors Forum - Nov. 2015



Mr. Mahmoud Bah, MCC Deputy CEO engages with journalists in Accra - June 2022



MiDA's Media Corps interview Ing. Mawunyo Rubson, Kasoa BSP Project Manager, after a site tour - Dec. 2020



Media Briefing on status of Compact II Program - May 2018



Media Soiree - Jan. 20219

PROJECT SITE VISITS



MCC Delegation visits Pokuase BSP Project Site - Jan. 2020



MiDA Management inspects progress of work at Pokuase BSP Project Site - Sep. 2020

PROJECT SITE VISITS



(Left) Mr. Mahmoud Bah, MCC Deputy CEO visits Pokuase BSP June 2022



Energy Min. Hon. Dr. Matthew Opoku Prempeh touring Kasoa BSP - Apr. 2021



MCC delegation inspects Energy Efficiency Interventions at the Korlebu Teaching Hospital - Jan. 2020



MiDA Management visit Kasoa BSP Project site - Sep. 2020



Ms. Molly Lynn Westrate (MCC Communications) visits Low Voltage (LV) Bifurcation Project sites - May 2018



Energy Min. Hon. Dr. Matthew Opoku Prempeh at Pokuase BSP Project site - Apr. 2021



Hon. Mavis Hawa Koomson, MP for Awutu Senya East Constituency at Kasoa BSP site - May 2021

PROJECT SITE VISITS



Vice President Dr. Mahamudu Bawumia inspecting progress of work at the Pokuase BSP site - Nov. 2020



MiDA Management inspect work progress at UGMC Primary Substation and AC & Refrigerator Test Laboratory at the GSA - May 2021



Delegation led by Vice President H.E. Mohamed Juldeh Jalloh (3rd right), including High Commissioner to Ghana, Commissioner Francess Virginia Anderson (3rd Left) and Energy Minister, Hon. Alhaji Kanja Sesay,(2nd left) with MiDA Management

