



MILLENNIUM DEVELOPMENT AUTHORITY (MiDA)

GHANA COMPACT II

Mid-Year Performance Report

August 2020

Ghana Compact II Theme

"Powering Ghana for Accelerated and Sustainable Economic Growth"

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GLOSSARY OF ABBREVIATIONS

AAC	All Aluminum Conductor
ABC	Aerial Bundled Cable
AG	Attorney General
AL	Aluminum
BCS	Bid Challenge System
BSP	Bulk Supply Point
CAMM	Contract Administration and Management Manual
CAP-Scan	Capacity Scan
CIF	Compact Implementation Funding
CP	Condition Precedent
DCCN	Data Center and Communication Network
DMS	Document Management System
ECG	Electricity Company of Ghana Ltd
EEC	Energy Efficiency and Conservation
EEDSM	Energy Efficiency and Demand Side Management
EPA	Environmental Protection Agency
ERP	Enterprise Resource Planning
ESMS	Environmental and Social Management System
ESH	Environment Social and Health
ESP	Environmental and Social Performance
ESIA	Environmental and Social Impact Assessment
FAT	Factory Acceptance Test
GIS	Geographic Information System
GoG	Government of Ghana
GPCIMP	Ghana Power Compact Internship and Mentoring Program
GSA	Ghana Standards Authority
GSI	Gender and Social Inclusion
HSESCA	Health Safety Environment and Social Capacity Assessment
HT	High Tension
HVAC	Heating, Ventilation, and Air Conditioning
ICC	Interconnecting Circuits
IDIQ	Indefinite Delivery Indefinite Quantity
IE	Implementing Entity
IEA	Implementing Entity Agreement
IFB	Invitation for Bids
IFC	International Finance Corporation
IGEA	Investment Grade Energy Audit
IPM	Integrated Planning Model
IPP	Independent Power Producer
LCU	Loss Control Unit
LV	Low Voltage
Km	Kilometer
kV	Kilovolt
MCC	Millennium Challenge Corporation
M&E	Monitoring and Evaluation

MiDA	Millennium Development Authority
MoEn	Ministry of Energy
MoE	Ministry of Education
MoF	Ministry of Finance
MoU	Memorandum of Understanding
NaCCA	National Council for Curriculum and Assessment
NARUC	National Association of Regulatory Utilities Commissioners
NEDCo	Northern Electricity Distribution Company Ltd
NFOT	NEDCo Financial and Operational Turnaround
OPGW	Optical Ground Wire
PAP	Prioritized Action Plan
PCSL	Parliamentary Committee on Subsidiary Legislation
PIA	Program Implementation Agreement
PIU	Program Implementation Unit
PMC	Program Management Consultant
PO	Purchase Order
POM	Procurement Operations Manual
PoW	Progress of Work
PPG	Program Procurement Guidelines
PSP	Private Sector Participation
PSWU	Public Services Workers Union
PURC	Public Utilities Regulatory Commission
PUWU	Public Utility Workers Union
RAP	Resettlement Action Plan
RCE	Resettlement and Community Engagement
RfP	Request for Proposals
RMU	Ring Main Unit
RPP	Regulatory Partnership Program
SESC	Sustainable Energy Services Centers
SGIP	Social and Gender Integration Plan
SoW	Statement of Works
STEM	Science Technology Engineering and Mathematics
TA	Technical Assistant
TER	Technical Evaluation Report
TOR	Terms of Reference
TP	Tariff Plan
TVET	Technical and Vocational Education Training
UENR	University of Natural Resources and Renewable Energy
UGFOC	Underground Fiber Optic Cable
VO	Variation Order
VRA	Volta River Authority

PART ONE: INTRODUCTION

1.1 SUMMARY OF ACTIVITIES AND ACHIEVEMENTS

The Compact Program, which is being implemented by MiDA seeks to address identified challenges in Ghana's Power Sector by providing an overall framework for strengthening the Ghana Electricity Distribution System.

During the period January-June 2020, MiDA achieved the following major Milestones:

ECG Financial and Operational Turnaround (EFOT) Project

- Geographic Information System (GIS): Completed Field Validation of ECG Assets and Data capture of Underground Cables in ECG Accra East and West Regions.
- Primary Sub-Stations (PSS) & Inter-Connecting Circuits (ICC): Overall progress as at June 2020 was 15% for the PSS and 23% for the ICC.
- Pokuase Bulk Supply Point (BSP) and Interconnecting Circuits (ICC): Overall progress was 71% for the Pokuase BSP and 54% for the ICC.
- Kasoa BSP and ICC: Overall progress achieved was approximately 27%.
- Low Voltage (LV) Bifurcation: For ECG Achimota District, 4,064 Wood Poles had been planted, and 56km 120sq.mm HT All Aluminum Conductor (AAC) and 359km 120sq.mm LV AAC strung. For the Dansoman and Kaneshie Districts, 3,463 Wood Poles have been planted and six (6) of 11kV Ring Main Unit (RMU) completed. For the Mampong Akuapim District, 1,429 Wood Poles have been planted, and 10 km 120sq.mm HT AAC (HT conductors) 484 km 120sq.mm LV AAC strung.
- Meter Management System (MMS): Factory Acceptance Test (FAT) completed.

Access Project

- Resumed procurement processes toward the award of Contract for the High Voltage Distribution System (HVDS) and Security Lighting Infrastructure upgrades in selected Markets and Economic Enclaves in Accra and Tamale.

Energy Efficiency and Demand Side Management (EEDSM) Project

- Completed Survey of Energy Consumption and Appliance Use Pattern.
- Completed evaluation of Proposals for the selection of two (2) Tertiary institutions to host Sustainable Energy Services Centers (SESCs).
- Commenced the construction of AC Test Laboratory Containment Building.

1.2 CHALLENGES AND MITIGATION STRATEGIES

The COVID-19 pandemic and the resulting travel restrictions and, in some cases, the lockdown announced by Governments has caused delays to the following.

1. Factory Acceptance Tests (FATs).
2. Field activities, involving the presence of foreign-based personnel.
3. Capacity Building Workshops.

The following are the Mitigating Strategies that were pursued.

1. Use of Third Parties and Virtual Meetings for the FATS
2. Development of COVID-19 Risk Mitigation Plans by Consultants and Contractors to minimize the risk of COVID-19 infection and spread in the field.
3. Use of Virtual Meetings.

PART TWO: PLANNED PROGRAMMES AND ACHIEVEMENTS

2.1 INTRODUCTION

The Millennium Development Authority (MiDA) was established by an Act of Parliament (Act 702, 709 & 897 as amended). MiDA was established to oversee, manage and implement the Programmes under the Millennium Challenge Account for poverty reduction through economic growth as set out in each agreement between the Government of Ghana and the Millennium Challenge Corporation acting for and on behalf of the Government of the United States of America, and for any other national development programme of similar nature funded by the Government of Ghana, a Development Partner or both and to provide for related matters.

The first 5-Year Millennium Challenge Compact was signed between the United States of America, acting through the Millennium Challenge Corporation (MCC) and the Government of Ghana (GoG) in August 2006. The Compact implementation started on 16th February 2007 and ended on 15th February, 2012, and utilized approximately US\$547.009m grant funds.

On 5th August 2014, the second Millennium Challenge Compact (also referred to as the Ghana Power Compact) between the Republic of Ghana and the United States of America was signed.

The Power Compact Program originally had a Budget of US\$ 498.2 million consisting of two Tranches of Program Funding amounting to US\$ 469.3 million and a Compact Implementation Funding (CIF) of US\$ 28.9 million. In addition, there is a Government of Ghana (GoG) contribution of not less than 7.5% (i.e. US\$ 37.4 million), bringing the total Compact Funds to US\$ 535.6 million.

The Tranche II Funds, which amounts to US\$ 190 million of the total, was contingent on meeting a number of Conditions Precedent (CPs), the principal one being Private Sector Participation (PSP) in ECG. MiDA worked with relevant GoG entities to meet the CPS. In particular, a private sector entity, Power Distribution Services Limited (PDS) was handed over the operations of ECG on March 1, 2019 under a 20-year Concession Agreement. However, GoG cancelled the Agreement because PDS did not fully comply with the requirements for the take-over. Thus, the US\$190 million Tranche II Funds are no longer available to be utilized under the Power Compact.

The Power Compact Program originally consisted of the following six (6) Projects categorized under two key components of the electricity value chain:

- Distribution Projects
 - ECG Financial and Operational Turnaround (EFOT) Project
 - NEDCo Financial and Operational Turnaround (NFOT) Project
 - Access Project
- Generation Projects
 - Regulatory Strengthening and Capacity Building (RSCB) Project

- Power Generation Sector Improvement (PGSI) Project
- Energy Efficiency and Demand Side Management (EEDSM) Project

The Compact Program seeks to address identified challenges in Ghana’s Power Sector by providing an overall framework for strengthening the Ghana Electricity Distribution System. This was to be achieved by helping the Electricity Company of Ghana (ECG) and the Northern Electricity Distribution Company (NEDCo) to reduce their Technical and Commercial Losses and attract the needed investments. The Compact was also to provide Technical Assistance in the areas of Corporate Governance, Technical Capacity of Sector Regulators, and the integration of Gender issues into the operations of relevant Sector Agencies.

The expected outcome for the Compact Program at the time of Inception was the modernization of the Power Distribution Companies and Capacity Building within the Power Generation Institutions in Ghana, and to present the Power Distribution Companies as credible Off-takers for current and prospective Independent Power Producers (IPPs).

Following a joint MCC-MiDA Mid-Term Review of the Program in February 2019, the NFOT and PGSI Projects were de-scoped. Some sections of the NEDCo Staff were opposed to the Management Contract component of the Project, thus stalling the work on the NFOT Project. In the case of the PGSI Project, most of the Activities planned under the Compact are being funded by the United States Agency for International Development (USAID).

This Performance Report captures Activities related to the following.

- Program Activities
 - Procurements
 - Distribution Projects
 - Generation Projects
 - Environment and Social Performance (ESP)
 - Gender and Social Inclusion (GSI)
- Monitoring and Evaluation
- Communications and Outreach

2.2 PROGRAM ACTIVITIES

2.2.1 Procurements

Procurement implemented by the Millennium Development Authority (MiDA) is in accordance with Compact requirements, the Program Implementation Agreement as well as MCC Program Procurement Guidelines (PPG) and MCC Guidance Papers. These Guidelines are further elaborated in the Procurement Operations Manual (POM) and Contract Administration and Management Manual (CAMM).

Contracts to the tune of USD 66,142,460 were signed in the first half of 2020 as indicated in the Tables below.

Contracts, Task Orders and Amendments signed in January-June 2020

Contract No.	Description	Method	Type	Organization	Contract Value USD	Contract Signed
5940600	Supply and Installation of 4 PSS Interconnecting Links Lot 2	CB	W	TBEA Co Ltd	10,702,868	09/01/20
5940400	BSP Kasoia	CB	W	Siemens SAS	42,823,929	16/01/20
5940600	Supply and Installation of 4 PSS Lot 2	CB	W	Eiffage	11,315,156	15/01/20
5140900-06	Design Consultant for 16 3-Bed Flats at Kanda	SSS	C	KNAK Design Partnership	226,750	29/01/20
5810500	MiDA Computers 2020	Shopping	G	ONK Group Ltd	15,700	28/02/20
5740200	Household and Enterprise Survey	QCBS	S	NORC	780,784	10/03/20
5610200	AC Test Facility Containment Building	CB	W	GHS Housing	277,273	20/05/20
Total Contracts Signed in January 2020 to June 2020					US\$ 66,142,460	

Type: CS=Consultancy Services; NCS=Non-Consultancy Services G=Goods; W=Works

Outstanding Contract to be signed following receipt of GoG Counterpart Funding

Contract No.	Description	Method	Type	Organization	Contract Value USD	Status
5420300	Supply and Installation of HVDS Packages 1, 2 & 3	CB	W	Intermerc Ghana Limited	5,205,701	Contract Negotiations

Type: CS=Consultancy Services; NCS=Non-Consultancy Services G=Goods; W=Works

2.2.2 Distribution Projects

The Power Distribution Sector Projects consist of the ECG Financial and Operational Turnaround (EFOT) Project and the Access Project. Progress made in these areas during the reporting period is summarized in the Table below.

Status and Progress of Ongoing Program Activities, Distribution Projects

Activity	Sub-Activity	Mid-Year Progress
EFOT Project		
Modernizing ECG Operations	Geographic Information System	<p>The GIS Contractor, Hexagon, commenced work on August 7, 2017.</p> <p>Data Migration processes have been completed.</p> <p>Underground capture and Field Validation ongoing in Kwabenya, Legon and Roman Ridge Districts.</p> <p>Aerial imagery – Post-processing completed for Kwabenya, Legon, Roman Ridge, Makola, Korle Bu, Kaneshie, Dansoman, Bortianor, Dodowa, Mampong Districts; and work is in progress for Teshie, Achimota, Ablekuma, Nsawam Districts.</p> <p>10 ECG Staff from Kwabenya, Legon, Roman Ridge, Kaneshie, Dansoman, Teshie, Makola, Korle Bu and Bortianor Districts trained on Positional Validation; and the Training ongoing for Staff in the Dodowa and Mampong Districts.</p> <p>30 ECG staff from Kwabenya, Legon, Roman Ridge, Kaneshie and Dansoman District Offices trained on Overhead Attribute Validation; and the Training ongoing for Staff in Teshie and Makola Districts.</p>
Technical Loss Reduction	Construction of Kanda and Legon Primary Substations & Interconnecting Circuits	<p>PSS</p> <p>Following successful evaluation of Bids, MiDA negotiated and signed a Contract with Eiffage JV, France for the Primary Substations (Kanda and University of Ghana Medical Center (UGMC), Legon, on January 15, 2020.</p> <p>Right of Access to and possession of the Site was granted to the Contractor (following the signing of Contract on Feb 26, 2020).</p>

Activity	Sub-Activity	Mid-Year Progress
		<p>The Management and Work Plans of Eiffage, the Contractor, were approved.</p> <p>Eiffage’s Insurance Policy was approved.</p> <p>Topographical Survey conducted at the Kanda and Legon Sites.</p> <p>Geotechnical Investigation conducted for the Legon and Kanda Sites.</p> <p>Survey and mapping out of Campsites for both the Legon and Kanda Sites completed.</p> <p>Soil contamination tests by the GSA completed.</p> <p>PSS ICC MiDA negotiated and signed a Contract with TBEA Co. Ltd of China, the recommended Bidder for the Primary Substations Project’s Interconnecting & Offloading circuits – Lot 2 (Kanda & UGMC) in Accra on January 9, 2020.</p> <p>Right of Access to and possession of the Site granted to the Contractor (following the signing of Contract on Feb 20, 2020).</p> <p>The Management and Work Plans of TBEA, the Contractor, approved.</p> <p>TBEA submitted Technical Specifications of major Equipment for approval</p> <p>Evidence of Insurance was provided by the Contractor, and Insurance Policies were approved.</p> <p>Surveys for the production of Detailed Designs ongoing.</p>
	Construction of Pokuase Bulk Supply Point & Interconnecting Circuits	<p>BSP The Contractor for the Pokuase BSP, Elecnor SA, commenced works on March 5, 2019.</p> <p>An overall completion of 71% has been achieved.</p>

Activity	Sub-Activity	Mid-Year Progress
		<p>COVID-19 impacts are being monitored and documented.</p> <p>Contractor exploring alternative arrangements for FATs due to the outbreak of the coronavirus. This includes engaging a Third Party or using Remote (Video) means.</p> <p>Equipment deliveries are 34% complete, with the following delivered.</p> <ul style="list-style-type: none"> • 330kV and 34.5kV Post Insulators, and 330kV Dead Tank Circuit Breakers. • All six (6) Power Transformers (four for GRIDCo and two for ECG) and Accessories. • 34.5kV Dead Tank Circuit Breakers, 34.5kV Surge Arresters and Line Traps. <p>Civil Works is 53% complete overall, with the following specific progress:</p> <ul style="list-style-type: none"> • Equipment / Gantry Foundations - 86% • GRIDCo Control Building - 46% • ECG Control Building - 42% • External Drainage System - 26% • Trenches and Ducts - 10% <p>Erection of Steel Structures is progressing, and Earthing System installation has commenced Work has commenced on the Capacitor Banks Foundations and Perimeter/Boundary Walls.</p> <p><i>ICC</i></p> <p>The work is being carried out by Best & Crompton, and it commenced on October 1, 2019.</p> <p>Overall progress for the ICC is 45%.</p> <p>Contractor regained some of time lost on Manufacturing and Testing, as a result of the COVID-19 situation, using alternative arrangements, including the use of two Third Party Firms for the testing of the Towers, instead of one, and the Contractor taking the risk of having the manufacturing to commence the first week into the testing instead of waiting for the full four-week period for the test to be completed.</p>

Activity	Sub-Activity	Mid-Year Progress
		<p>The following are the specific progress made.</p> <ul style="list-style-type: none"> • The first Lot of Wood Pole materials delivered to Site. • Hardware Fittings for 11kV, 33kV and Optical Ground Wire (OPGW) manufacturing is completed. Delivery to site is now expected in July 2020. • The 1st Lot of Power Cable and OPGW / Underground Fiber Optic Cable (UGFOC) are expected to be delivered to Site. • A Third Party Agency has been engaged to undertake the Type Test for Towers, which is a critical item with major impact in the Project timelines. • Thrust boring is 34% complete.
	<p>Construction of Kasoa Bulk Supply Point & Interconnecting Circuits</p>	<p>BSP</p> <p>The Contract for the Kasoa BSP was signed with Siemens Energy SAS of France on January 16, 2020. Subsequently, a Kick-Off Meeting was held with the Contractor and other Stakeholders on January 28-30, 2020.</p> <p>The Project Site was inspected and handed over to Contractor on January 29, 2020.</p> <p>Approximately 27% progress was made in the submission, review and approval of Design deliverables - 234 Documents out of 586 have been submitted for approval, with 74 Documents approved so far.</p> <p>Over 70% progress made on Purchase Orders (POs) for most of the major Equipment.</p> <p>Earthworks progressed as follows</p> <ul style="list-style-type: none"> • Top soil removal completed; soil cutting about 91% complete • Disposal of excavated material about 90% complete. <p>Progress was made on Site Facilities, and renovation of the Ground Floor of the existing Gas Station buildings was 90% complete.</p>

Activity	Sub-Activity	Mid-Year Progress
		<p>Progress had been made towards establishment of a Standing Dispute Adjudication Board (DAB) for the Project. The Contractor and Employer submitted details of their Nominees for review.</p> <p>MiDA, through the Ministry of Foreign Affairs, requested the Ghana Embassy in France to expedite processing of documentation for the registration of an Office in Ghana for Siemens, the Contractor.</p> <p>Siemens submitted Insurance Policies (All-Risks) to SMEC, the Program Management Consultant (PMC) and Supervising Engineer, for review and approval.</p>
	<p>Low Voltage Bifurcation and Network Improvements – Achimota District</p>	<p>The Contractor, Best & Crompton, commenced work on August 1, 2019, following signing of the contract.</p> <p>This Activity is 64% complete.</p> <p>Most materials and equipment have been procured and delivered to the Contractor’s Warehouse.</p> <p>Factory Acceptance Tests (FAT) for all equipment was completed on March 6, 2020, and for LV Service Cables on May 11, 2020.</p> <p>Construction works and associated Community Engagement, Communications, RAP, and Health & Safety activities resumed on May 11, 2020 following approval of the Contractor’s COVID-19 Action Plan. Construction activities including pole planting, pole retirement, overhead line stringing and conductor replacement progressed within the period.</p> <p>Construction activities completed as at the end of the reporting period are outlined below:</p> <ul style="list-style-type: none"> • A total of 4,064 Wood Poles, including 489 11m (HT) Poles and 3,575 9m (LV) Wood Poles planted. • Approximately 56km 120 sq. mm AAC HT (Conductors) have been strung. • Approximately 359km 120 sq.mm AAC LV (Conductors) have been strung. • A total of 148 Wood Poles have been retired. • Approximately 322 km of 50 sq.mm AAC

Activity	Sub-Activity	Mid-Year Progress
		(conductors) have been retired.
	<p>Low Voltage Bifurcation and Network Improvements – Dansoman & Kaneshie District</p>	<p>The Contractor for this activity is MBH Power Limited, and work commenced on August 8, 2019.</p> <p>This Activity is 51% complete.</p> <p>All the Project Documents including Environmental, Social, Health & Safety Management Plan (ESHSMP), Traffic Management Plan, Emergency Management Plan, Quality Management Plan and updated Work Plan were approved in the First Quarter of the year.</p> <p>The LV, MV & Aerial Bundled Cables (ABC), Second Lot of 120 sq.mm AAC (conductor), Overhead Line Hardware and Earthing materials, 11kV RMUs, Cable Termination Kit and Insulators have been shipped and expected to be delivered in country by July 15, 2020.</p> <p>Construction works and associated Community Engagement, Communications, RAP, and Health & Safety activities resumed on May 12, 2020 following approval of the Contractor’s COVID-19 Action Plan.</p> <p>Construction activities completed as at the end of the reporting period are outlined below:</p> <ul style="list-style-type: none"> • A total of 3,463 Wood Poles, including 44 of 11m (HT) Poles and 3,419 of 9m (LV) Wood Poles. • Six (6) 11kV RMU and Ground Mounted Transformer Foundations have been constructed.
	<p>Low Voltage Bifurcation and Network Improvements – Mampong District</p>	<p>The Contractor, Power Factor Limited, commenced work on August 9, 2019.</p> <p>This Activity is 71% complete.</p> <p>Some progress was made in the procurement of materials and equipment, in spite of delays caused by the COVID-19 pandemic.</p> <p>All the Project Documents including Environmental, Social, Health & Safety Management Plan (ESHSMP), Traffic Management Plan, Emergency Management Plan, Quality Management Plan and updated Work Plan were approved in the First Quarter of the year.</p>

Activity	Sub-Activity	Mid-Year Progress
		<p>Construction works and associated Community engagement, Communications, RAP, and Health & Safety activities resumed on May 11, 2020 following approval of the Contractor’s COVID-19 Action Plan.</p> <p>Construction activities including Pole planting, Pole retirement, Transformer injections, testing and commissioning, Overhead Line stringing and re-conductoring progressed within the reporting period.</p> <p>Construction activities completed as at the end of the reporting period are outlined below:</p> <ul style="list-style-type: none"> • A total of 1,429 Wood Poles have been planted, including 499 of 11m (HT) Poles and 930 of 9m (LV) Wood Poles have been planted. • 10 Transformer Injections/Uprates completed. • 11 Distribution Pillars installed. • Retired approximately 360 km of 50 sq.mm AAC. • Strung approximately 10 km 120 sq.mm AAC HT and 484 km 120 sq.mm AAC LV (conductors).
Commercial Loss Reduction	Installation of Meter Management System (MMS)	<p>The Contractor completed purchase of all Hardware, Base Software, and installation and configuration of Interfaces for Software Applications.</p> <p>Completed configuration of the System to suit ECG.</p> <p>Completed the Factory Acceptance Test (virtually).</p> <p>90% of Prepayment Meters integration completed.</p>
Access Project		
Infrastructure	High Voltage Distribution System (HVDS) & Security Lighting in Markets and Economic Enclaves (M&EEs)	<p>Having resolved the funding challenges, with GoG providing the required Funds, procurement processes for this Activity resumed in June 2020 towards the award of Contract for the High Voltage Distribution System (HVDS) and Security Lighting infrastructure upgrades in seven (7) and three (3) selected M&EEs in Accra and Tamale respectively.</p>

Activity	Sub-Activity	Mid-Year Progress
Social Inclusiveness and Improved Partnerships	Customer Outreach, Normalization of Services, and Facilitation Assistance (COFANS) for new connections	The Activity was temporarily suspended due to the outbreak of the COVID-19 pandemic. Following the gradual easing of restrictions, the Consultant is set to resume work in September 2020.

2.2.3 Generation Projects

Following the de-scoping of the Power Generation Sector Improvement (PGSI) Project, the Generation Sector Projects now consist of the Regulatory Strengthening and Capacity Building (RSCB) Project and the Energy Efficiency and Demand-Side Management (EEDSM) Project.

The Report below covers progress made on these two Projects during the first half of the year.

Status and Progress of Ongoing Program Activities, Generation Projects

Activity	Sub-Activity	Mid-Year Progress
Regulatory Strengthening & Capacity Building Project		
Tariff Review and Regulatory Activity	Tariff Study and Tariff Plan	The National Association of Regulatory Utility Commissioners (NARUC) submitted their January-March and April-June, 2020 Reports. There were no activities during this period because of the COVID-19 pandemic.
Energy Efficiency & Demand-Side Management (EEDSM) Project		
Development and Enforcement of Standards and Labels	Development of Standards and Labels	GSA completed the adoption and gazetting of Standards for Lot 4 Electrical Products, namely Electric Motors, Electric Water Heater, Rice Cooker, and Kettle.
	Legislative Instruments (LIs)	<p>The Energy Commission approved drafted Legislative Instruments (LIs) for the enforcement of the Standards and forwarded the five (5) LIs on the following Products to the Attorney General's (AG's) Department.</p> <ul style="list-style-type: none"> • Standards Upgrade/Revision for: <ul style="list-style-type: none"> ○ Household Refrigerators ○ Household Air Conditioners, • Standards for: <ul style="list-style-type: none"> ○ Household Ceiling Fans and Regulators ○ Household Television Sets ○ Household Satellite Decoders/TV Signal Boxes and Domestic/Commercial/Street Lighting. <p>The AG's Department has completed work on Legislative Instruments (LIs) for the following:</p> <ul style="list-style-type: none"> • Standards Upgrade/Revision for <ul style="list-style-type: none"> ○ Household Refrigerators ○ Household Air Conditioners. <p>The Department is due to forward developed LI's to the Minister for Energy, who is expected to lay it before the</p>

Activity	Sub-Activity	Mid-Year Progress
		Parliamentary Committee on Subsidiary Legislation (PCSL).
	Construction of AC Test Laboratory Containment Building	<p>The Contract for the AC Test Laboratory Containment Building was signed with GHS Housing Ltd on May 20, 2020, and the Site was handed over to the Contractor on May 29, 2020.</p> <p>The Contractor submitted the following Documents for review and approval:</p> <ul style="list-style-type: none"> • Construction Method Statement • Construction Health and Safety Management Plan • Traffic Management Plan • Demolition Environmental and Health and Safety Plan • Quality Management Plan • COVID-19 Health and Safety Management Plan (Part 1) • Construction Programme of Works. <p>The Engineer reviewed the Documents and provided comments to the Contractor.</p> <p>The following construction activities were carried out.</p> <ul style="list-style-type: none"> • Commenced work on the Security Post. • Completed Site setup for the offices of the Consultant and Contractor. • Completed hoarding of the Site. • Completed demolition works; clearing of debris in progress. • Completed setting-out for Site Boundaries, Foundations, Columns, Centre-lines of Walls and other necessary structural parts. • Commenced Earthworks.
	Construction & Installation of Additional Test Laboratories	<p>Invitation for Bids (IFB) for a Design-Build Contractor for an AC Test Laboratory at GSA was issued on January 27, 2020, Bids received on March 27, 2020, and evaluation completed on May 4, 2020.</p> <p>MiDA received MCC's no objection on May 19, 2020, issued Notice of Intent to Award Contract on May 22, 2020, and compiled issues for Negotiation and sent them to the winning Bidder on May 29, 2020. The Contractor has responded to negotiation issues.</p>

Activity	Sub-Activity	Mid-Year Progress
		Draft Contract and Letter of Award have been prepared for issuance.
	Field Metering and Monitoring Studies (FMMS)	<p>Completed Nationwide Survey of Energy Consumption and Appliance Use Pattern, as follows:</p> <ul style="list-style-type: none"> • Phase 1 (covering Accra and Tema) on February 17, 2020. • Phases 2 and 3 (covering Cape Coast and Sekondi-Takoradi; Koforidua and Ho) of the same Survey on March 27, 2020. • Phases 4 and 5 (covering Kumasi and Sunyani; Tamale, Wa and Bolgatanga) on May 29, 2020. <p>Third Monthly Report was submitted and reviewed.</p> <p>Final Report on Data Dissemination being prepared by the Consultant.</p>
Improved Energy Auditing	Race to Retrofit and Renewables (RTRR)	<p>Completed installation of retrofits (lighting fixtures, refrigerators, air conditioners, ceiling fans) and Real Time Energy Monitoring Systems (RTEMS) at six (6) public institutions - Korle Bu Teaching Hospital (KBTH), University of Ghana, Adabraka Polyclinic, Department of Urban Roads, Ministry of Health and Ministry of Education.</p> <p>RTRR Contracts were varied on May 7, 2020 for the Works Phase to commence on the Ghana Education Service (GES) Main Building.</p> <p>Contractors submitted their Work Plans to MiDA.</p> <p>Manufacturing of Lighting Products, Air Conditioners, Refrigerators, Ceiling Fans and Real-Time Energy Monitoring Systems (R-TEMS) Panel components and Current Transformers (CTs) in progress.</p>
	Setting Up of Sustainable Energy Services Centers (SESCs)	<p>The process for setting-up three (3) SESC's continued with the following achievements:</p> <ul style="list-style-type: none"> • Ghana's 1st Course Certifications Examination Results for SEAP, SEMP, and EAP was submitted on January 20, 2020.

Activity	Sub-Activity	Mid-Year Progress
		<ul style="list-style-type: none"> • Issued a Call for Proposals (CFP) to participating Universities on January 31, 2020. • MiDA received responses to Call for Proposal (CFP) from participating Universities on April 30, 2020. • Evaluations of Proposals were completed on May 12, 2020. • The Consultant submitted the Draft Evaluation Report to MiDA/SDAC (SESC Development Advisory Committee) on May 22, 2020, and the Committee submitted their comments on May 29, 2020. • The Consultant submitted a Report on the final selection of the SESCOs Host Institutions on June 12, 2020. The selected institutions are Kwame Nkrumah University of Science and Technology (KNUST) and the University of Energy and Natural Resources (UENR). • The Accra Technical University is being considered for a third SESCO with Contingency Funds.
Education & Public Information	Update of Pre-Tertiary School Curriculum on Energy Efficiency and Conservation (EEC)	<p>Completed "Monitoring Framework Design", i.e. tools to capture, analyze and report Data at every level of the monitoring chain on Energy Efficiency and Conservation (EEC) Curriculum Updates in 30 selected Pre-Tertiary Schools across the three (3) geographical zones in Ghana.</p> <p>Completed the review of curriculum materials designed by the Consultant, with the National Council on Curriculum and Assessment (NaCCA) on March 8, 2020.</p> <p>The Consultant prepared Draft Supplementary Materials for Primary, JHS and SHS levels.</p> <p>A one-day Workshop with Subject Teachers, Curriculum Writers and National Council for Curriculum and Assessment (NaCCA) was organized on June 10, 2020 to review the Consultant's draft Supplementary Materials for Primary, JHS and SHS levels.</p> <p>The Draft Curriculum Supplementary Materials for JHS have been reviewed by MiDA and NaCCA.</p> <p>The Consultant submitted soft copies of the following materials to MiDA and NaCCA for final approval:</p> <ul style="list-style-type: none"> • Final Draft EEC Posters for Primary, JHS and SHS

Activity	Sub-Activity	Mid-Year Progress
		<ul style="list-style-type: none"> • Final Draft EEC School Club Manuals • Final Draft EEC Story Books for Primary and JHS levels • Final Draft EEC Teacher Tool Kits
Demand-Side Management	Street Lighting	<p>Reviewed and approved the following specifications as presented by the all three Street Lights Replacement Works Contractors:</p> <ul style="list-style-type: none"> • Street Light Pole Design and Drawings, • Design calculations (structural), • Base plate and anchor bolts design (structural), • Layout designs, • Foundation Design (structural). <p>Reviewed Draft Investment Grade Energy Audit (IGEA) Reports and Safety Plans of Contractors.</p> <p>Street Lights Replacement Works Contractors progressed as follows:</p> <ul style="list-style-type: none"> • Submitted new shipping schedules for the Street Lighting equipment. • The Contractors took delivery of the first consignment of Lighting equipment (Luminaires, Energy Meters, Feeding Cables, Earth Wire Cables, Surge Protectors and Photocells).

2.2.4 Environment and Social Performance

The Compact requires that all Projects are implemented in line with MCC's Environmental Guidelines, the International Finance Corporation Performance Standards on Environmental and Social Sustainability, and Ghana's Laws, Regulations, Licenses, and Permits. MiDA is therefore mandated to ensure such compliance.

The following were achieved during the period January-June 2020:

1. Resettlement and Community Engagement Support for Infrastructure Projects
 - MiDA worked with its Resettlement and Community Engagement Consultants to manage community engagement, outreaches and grievances relating to ongoing infrastructure projects. Activities carried out involved facilitating collaboration between the Resettlement Consultants and the Works Contractors for smooth implementation of the works.
 - MiDA collaborated with its Health, Safety, Environment and Social (HSES) Consultant, SAL Consult to monitor the implementation of the HSESMPs of the works Contracts, to ensure compliance by the Contractors and to avoid or minimize

fatalities and accidents on Construction Sites.

- Following the receipt of compensation payment, Virgin Gas, the Operator of the LPG Station close to the Kasoa BSP Site has decommissioned all equipment and installations. MiDA has granted access to Siemens, the Contractor for the Kasoa BSP.

2. Development and Implementation of COVID-19 Risk Mitigation Plans

- Worked with Contractors, Consultants, SMEC, the Supervisory Engineer and MCC to develop COVID-19 Risk Mitigation Plans to manage the risk of spread of the virus on the Projects Sites. Contractors and Consultants whose Plans were approved for implementation during the period include the following:
 - Siemens – Kasoa BSP
 - Elecnor – Pokuase BSP
 - Best and Crompton GH Ltd – Achimota LV Bifurcation and Pokuase ICC
 - Power Factor GH Ltd – Akwapim Mampong LV Bifurcation Project
 - MBHN – Dansoman and Kaneshie LV Bifurcation Project
 - Eiffage Energie Systemes – Kanda and UGMC Primary Substation
 - TBEA – PSS ICC
 - Colan Consult – RAP and Community Engagement Consultant for Achimota and Mampong LV Bifurcation.
 - SAL Consult - RAP and Community Engagement Consultant for Dansoman and Kaneshie LV Bifurcation.

The Engineer supervised implementation of these Plans, while MiDA monitored the implementation.

- MiDA reported its first confirmed case of the disease on the Pokuase BSP Site on June 9, 2020. The case involved three (3) Staff of a Local Sub-Contractor to the main Contractor, Elecnor. The three persons were identified on June 5 through the regular screening process, to be exhibiting symptoms of the disease. Elecnor triggered its Emergency Evacuation Procedures and all the necessary protocols leading to the confirmation, and followed the measures contained in the approved COVID-19 Risk Mitigation Plan to manage the confirmed cases of the virus on site. In addition, on Friday June 12, Elecnor carried out COVID-19 test, with the support of the Ga West Municipal COVID-19 Team, for all personnel on site to facilitate isolation and treatment of persons who may test positive for the virus.
- At the initiative of Siemens, the Contractor for the Kasoa BSP Site, samples of all personnel were taken on June 8 by the Awutu Senya East Municipal Health Team for COVID-19 test. Twenty Eight (28) tested positive, and were asymptomatic. On June 17, the Municipal Health Director came to the Site to organize a Health Talk to all personnel on COVID-19 and this contributed to preparing the minds of the persons who have tested positive for the virus. After releasing the test results, the 28 persons who tested positive for the virus were sent to the Pentecost Convention Center by the Municipal Assembly for isolation and case management. The Site was temporarily shut down in compliance with the emergency evacuation procedures of its COVID-19 Risk Mitigation Plan.
- Contractors submitted cost estimates for implementing the measures contained in the approved plans. The Engineer reviewed the estimates and negotiated with the Contractors to approve the cost for implementation.

3. Invitation for Bids (IFB) for construction of Block of Flats at Kanda for families affected by the construction of the PSS.
 - MiDA issued IFB for the construction of the block of flats at Kanda on April 9, 2020. Thirty (30) Bids were received on Friday June 5, 2020, after which bid evaluation commenced. MiDA plans to finalize the bid evaluation process by early July for award of Contract by August 2020.

2.2.5 Gender and Social Inclusion

Gender and Social Inclusion (GSI) in MiDA is aimed at ensuring a Gender responsive and socially inclusive electricity service delivery and enhancing the Quality of Gender and Gender responsiveness in Compact activities.

The GSI Activities in the reporting period covered the following.

1. Lead the implementation of the Social and Gender Integration Plan (SGIP)
 - MiDA participated in the MCC GSI Online Forum with Participants from other MCA Compact countries. Key amongst the discussions was the new Guidance on the Annual Review and Update Process of the Social and Gender Integration Plan (SGIP). The Session also explored Lessons, Challenges, and Best Practices from the various MCA countries. The MiDA GSI Director delivered a presentation on issues related to the timing of an SGIP review and update, in the light of significant Compact changes.
 - Commenced the update of the SGIP. The draft was submitted to MCC for an informal review, and it is being revised with comments received.
2. Incorporation of Gender and Social Inclusive Considerations in Compact Implementation
 - Monthly Progress Reports and Evaluation Reports on Projects and Crosscutting Activities were reviewed to ensure gender and social inclusiveness.
 - Held discussions with SMEC GSI Expert to ensure that Project Teams and Contractors comply with Gender and Social Inclusion requirements.
3. Gender Audit/Gender Policy and Institutional Strengthening of ECG
 - Facilitated the Strategic Planning Meeting for the ECG Gender Unit to position them as a leader in gender mainstreaming in the Energy Sector to ensure a gender-responsive and socially-inclusive Organization.
 - Worked on the Draft Social and Gender Integration Plan (SGIP) Review and Update Process.
 - The ECG Gender and Social Inclusion (GSI) Manager requested for MiDA's support in the execution of ECG's GSI Action Plan and in Mentoring and Coaching for the effective implementation of ECG GSI activities.
4. Internship and Mentoring Program
 - Compiled enrollment Data from new Educational Institutions and engaged with Energy Organizations for Internship slots.

- The Call for Applications for the 2020 Internship Program was circulated to Public Universities, Technical Universities, Technical Institutes, as well as NVTI Schools.
- Workshops for Mentoring Organizations to improve their effectiveness in supporting the Ghana Power Compact Internship and Mentoring Program (GPCIMP) Interns were held in Accra and Kumasi in January.
- The Directorate also commemorated the International Women’s Day Celebrations on March 10, 2020, with panel discussions on progress and challenges faced by partner organizations in the Energy Sector. The theme for this year’s celebration was #EachforEqual.
- Some Employers, especially ECG, NEDCo, and VRA who take about 70% of Interns had put the placements on hold or canceled them. The option of organizing Virtual Capacity Building Workshops for all Interns is being considered.
- In consultation with our MCC, MiDA has decided to extend the Mentoring Option for GPCIMP Alumni National Service Personnel to other National Service personnel in STEM fields.
- The Consultant working on the Sustainability Plan developed four Alternative Pathways for sustainability. They are:
 - Institutionalization
 - Project Design/Special Initiative
 - Extended phase-out with alternative funding
 - Employer-centered

Following a review of the document, a Prioritization Matrix was also developed for Stakeholders to select the best pathway(s). Virtual Meetings were held to facilitate the selection of the appropriate Pathway.

- A Draft Memorandum of Understanding (MoU) for the Mentoring Organizations has been shared with the three (3) Mentoring Organizations –Women in Engineering (WinE) of the Ghana Institution of Engineering (GhIE), Women in STEM Ghana (WiSTEMGH), KNUST; and the Ghana Academy of Arts and Sciences (GAAS); as well as an individual Mentor from the Ghana Statistical Service for their comments.

5. Gender and Energy Working Group (GEWG)

- A meeting of the GEWG took place in the First Quarter. Key among the issues discussed were issues arising from the visit to the Implementing Entities on the integration of GSI in project activities, follow-up actions from the Women in Energy Conference as well as planning for 2020 International Women’s Day. A meeting could not be organized the Second Quarter because of the COVID-19 related restrictions.

2.3 MONITORING AND EVALUATION

The following M&E activities were carried out during the period January-June 2020.

1. M&E Plan

- Commenced the Fourth Revision of the M&E Plan. This revision is largely focused on reviewing expected results due to the de-scoping of the Compact. The de-obligation of the USD 190 million Tranche 2 Funds had resulted in the de-scoping of the Compact. The reduced Compact Funds is expected to negatively impact on some of the Indicator Targets in the M&E Plan.
- The revision also takes into consideration the revised Economic Rate of Returns (ERR) and Data Quality issues.

2. Post-Compact M&E Plan

- Commenced discussions with MCC on the modalities for developing the Post-Compact M&E Plan. The National Development Planning Commission (NDPC) has been identified as the potential Lead Agency for the implementation of the Plan. Preliminary discussions were held with the M&E Directorate of NDPC to explore the Commission's willingness to lead this.
- Identified Key Performance Indicators (KPIs) in the current M&E Plan that are likely to be included in the Post-Compact M&E Plan.

3. Process Evaluation

- Following the signing of a Contract with PricewaterhouseCoopers (PwC)-India, the Mid-Term Evaluation (MTE) of the Compact commenced with the Kick-Meeting on January 13, 2020. The main purpose of the MTE is to assess the extent to which the Compact is being implemented as planned. The MTE, together with the End Term Evaluation (ETE), which will be carried out towards the end of the Compact period, are expected to assess the progress made by the Projects under the Compact towards achieving intended outputs.
- The Draft Inception Report for the MTE Contract was received on February 11, 2020, and the Final Inception Report, which had the comments of MiDA incorporated, was received on February 25, 2020.
- Data Collection and Analysis Phase of the Mid-Term Review of the Power Compact was completed by the Consultant, and the Report approved by MiDA on June 23, 2020.
- The Consultant commenced the drafting of the Mid-Term Evaluation Report.

4. Performance and Impact Evaluations

- Impact Evaluation of Technical Loss Activity of EFOT Project
 - Received from the University of California, Berkeley (UCB) the Draft and Final Deployment and Testing Reports for the GridWatch Scale-Up Consultancy on February 3 and February 17, 2020 respectively.
 - UCB presented a Report on the impact of COVID-19. The three largest impacts outlined relates to i) Supplier shortages, ii) Travel restrictions, and iii) Institutional restrictions on Research. This prevented them from meeting the April 13, 2020 timeline for Delivery 3(a) - Interim Report on

Deployment to Targeted Districts within Accra. The Contract end date remains the same notwithstanding. These timelines will be reviewed periodically.

- Following actions taken to handle the Supplier delay, most of the required parts have been supplied.
- GridWatch Devices initially installed in Achimota, Dansoman and Kaneshie ECG Districts continued to collect Data, while awaiting deployment of additional Devices, particularly in Dansoman and Kaneshie. Outage Data Visualization System (DVS) developed and Draft Report submitted by the GridWatch Consultant and comments provided by MiDA on May 29, 2020.
- Impact Evaluation of the Overall Compact
 - Signed the Household and Enterprise Surveys Contract and commenced implementation with a Kick-Off Meeting (remotely via Zoom) on March 23, 2020. The Meeting brought together MiDA M&E, MCC M&E, NORC (the Consultant) and Mathematica Policy Research (MCC-contracted Independent Evaluator); as well as the Local Partners of NORC and Mathematica. The Draft Kick-Off Meeting Notes were received from the Consultant on March 26, for review by MiDA, MCC and the Independent Evaluator.
 - Obtained the Integrated Business Establishment Survey (IBES 1) Data from the Ghana Statistical Service (GSS). The Data was to facilitate sampling by the Household & Enterprise Survey Consultant. Inception Report for the Household and Enterprise Surveys received MiDA's approval.
 - Certification of Consultant's Internal Review Board (IRB) approval was reviewed and accepted by MiDA. Also, the Consultant submitted Survey Protocols to the Ghana Health Service (GHS) for approval.
 - MiDA Board approved a request for a six (6) month extension to the Contract due to the impact of COVID-19 restrictions in Ghana and the USA.

5. Reporting of Results

- Indicator Tracking Table (ITT) and Narrative Report
 - Submitted the ITT on results for Compact Qtr. 14 (October-December 2019) and the Narrative Report for Compact Qtr. 15 (January-March, 2020) to MCC on March 10, 2020, as part of the Disbursement Request Package for Compact Qtr. 16 (April-June 2020).
 - Submitted the ITT for Compact Qtr. 15 and the Narrative Report for Compact Qtr. 16 (April-June, 2020) to MCC on June 10, 2020, as part of the Disbursement Request Package for Compact Qtr. 17 (July-September 2020).
- Data Quality Audit (DQA)
 - Received from the DQA Consultant the Inception Report for the Second Round of the Audit on January 30, 2020.
 - The Data Collection Phase of the Audit was completed and the Data Collection Report was received on February 27, 2020.
 - The Final Report was submitted by the Consultant and approved by MiDA on May 22, 2020.

2.4 COMMUNICATIONS AND OUTREACH

2.4.1 Communication Strategy

The Government of Ghana's termination of the Electricity Company of Ghana (ECG) Private Sector Participation (PSP) Concession Agreement with Power Distribution Services (PDS) Ltd affected MiDA and the Compact II Program's image. Media coverage on the Compact II Program centered on the ECG PSP processes, with little publicity on the other Project activities.

For the above reason, though the Compact II Program had been ongoing for several years, there was the need for MiDA to step up information dissemination on its activities and re-establish its image as a responsible and reliable Accountable Entity, hence the need for the revision of the Compact II Communication Strategy.

The document received the MiDA Board's approval and guided MiDA's communication and outreach activities. Its implementation began on January 6, 2020.

The following provides an update on the implementation of the planned activities in the Compact II Communication Strategy for the period January to June, 2020.

2.4.2 Implementation of Activities

The following are activities successfully implemented during the reporting period. They are categorized under the strategies underpinning the Communication Plan.

1. Showcase Compact II Solutions:

- Developed an Article which explained the Compact's contributions to improved Health Care in Ghana. It highlighted the critical role stable Power plays in the provision of quality health care in Ghana, including fighting the COVID-19 pandemic.
- To support the Compact's COVID-19 response, a voice-over script for the TV Commercial was revised into a Documentary to highlight the interventions the Compact Program has provided to some health facilities.
- A footage was shot as part of the process in the production of a Short Video on the Low Voltage Bifurcation (LVB) Works.
- Commenced Infographics on the LV Bifurcation Works.
- Distributed a Press Release, *Pokuase BSP Transformers Arrive on Site*, to the Media, and there were Media Interviews with Citi FM and UTV.
- Commenced the process of developing Information, Education and Communication (IEC) materials for the Access Project.

2. Strengthen the Compact II Brand

- Information Signages for the Kanda and Legon Primary Substations and Wall Branding for the construction of the GSA AC Test Facility, have been designed.
- Reviewed and approved Designs and Specifications of branded items for the Third GPCIMP-Cohort 3.

3. Improve Stakeholder Relations:

- Following the First Quarter's Inaugural Meeting of the Compact Implementing Entities Communication Committee, whose mandate was to assist in ensuring effective and aligned communication on the Power Compact Program, including the LV Bifurcation Works, Members were updated on the status of the activity, and provided a schedule on planned Power Outages associated with the Works.
- Collaborated with the Ghana Standards Authority (GSA) to provide media coverage for the commencement of work on the GSA's AC Test Facility.

4. Summary of Media Activities

- In the First Quarter, 96 Media activities on the Compact were recorded, viz: Online, 42; Print, 11; Radio, 18; TV, 18; and Exclusive Interviews, 7.
- In the Second Quarter, 24 Media activities were recorded. 16 Online, one (1) Print, three (3) Radio, one (1) TV, and three (3) Exclusive Interviews for selected MiDA Spokespersons.
- A total of 119,565 MiDA Website Visits had been recorded at the end of June 2020 compared to 109,958 Visits recorded at the end of December 2019.

PART THREE: CHALLENGES

3.1 CRITICAL ISSUES

The support of Staff of the Implementing Entities is critical for the success of the Compact.

The COVID-19 pandemic has resulted in delays to Contract Deliverables because of travel restrictions imposed by most Governments. Key Staff of Works Contract and Consultancy Firms are not able to travel. Factory Acceptance Tests (FAT) have been delayed or deferred in some cases, resulting in delays to the delivery of Materials and Equipment. FATs to be carried out by Third Parties have also been affected by Lockdowns.

3.2 PROJECT-SPECIFIC CHALLENGES

3.2.1 Distribution Projects Challenges

The challenges that have hindered the achievement of Targets in relation to the Distribution Projects are as follows:

EFOT Project

IT Infrastructure

- Covid-19 restrictions delayed work and training of ECG Staff. The travel bans also prevented contractors from working for some period of time, and prevented participants of FAT from traveling.

PSS and ICC

- Travel restrictions and Lockdowns as a result of the Covid-19 pandemic have caused delays to works on the Primary Substations and Interconnecting Circuits.

Pokuase BSP and ICC

- The extended closure of Borders by the Government of Ghana as a result of the COVID-19 pandemic delayed the installation of equipment and other Site work. FATs and shipment of Equipment expected from Manufacturers in Spain, Italy and India have been delayed. Alternative Plans and Actions are constantly being assessed, to manage the situation. The planned completion date of March 5, 2021 has been revised to June 2, 2021.
- The Site was closed on June 10 due to three (3) Workers testing positive for COVID-19, but re-opened on June 25 after compliance with the COVID-19 Safety Protocols.

Kasoa BSP and ICC

- The key challenge was to complete Approval of Basic Design on main Equipment (i.e. Technical Data Sheet, General Arrangement, Single Line Diagrams), but this was contingent on obtaining all the information/data on equipment on order. Covid-19 slowed down suppliers/vendors and engineering input. The Contractor was closely following up with equipment manufacturers to have these data as soon as

possible

- The Site was shut down on June 17-22, 2020 following mass testing of Staff (including staff of Sub-Contractors) arranged by the Contractor, which showed a number of positive cases. Following the shutdown, the Contractor prepared and submitted a report detailing COVID-19 mitigation steps to be implemented to allow the restart of site activities, and upon approval, Site activities resumed on June 23, 2020.

LV Bifurcation

- Achimota Work Order:
 - The COVID-19 pandemic negatively impacted on construction activities and delivery of key materials and equipment such as 11kV Ring Main Units (RMUs), Service Cable accessories and LV Distribution Pillars.
 - Rocky terrain at several locations has significantly reduced the pace of Pole planting.
- Dansoman & Kaneshie Work Order:
 - The COVID-19 pandemic affected construction activities, manufacturing, shipment and delivery of materials and equipment, such as 11kV RMUs, LV Service Cables, LV Distribution Pillars, Overhead Line hardware, and Earthing materials.
 - Swampy areas encountered in Dansoman slowed down the pace of Pole planting.
- Mampong Work Order:
 - Hard rocks and extensive vegetation encountered during excavation for pole planting and overhead line stringing at most of the project locations have significantly slowed down the pace work.
 - COVID-19 related restrictions have delayed the delivery of the final batch of Pole top accessories, 120sq.mm Al Conductor and LV Distribution Pillars.

Access Project

- Given a 12-month timeline for the completion of Infrastructure upgrades, project implementation must now be carried out within a strict timeline without any float. This presents a Completion Risks. To mitigate risks, the Contractor would be required to deploy an adequate number of Staff, execute the work in all Markets concurrently, and to undertake majority of the work at night and outside business hours.

3.2.2 Generation Projects Challenges

For the EEDSM Project Consultancy Reports continue to be reviewed at home and Conference Calls held regularly with Consultants and MCC. Field Activities have now commenced, in strict accordance to COVID-19 protocols.

The RPP Consultant, which is the only outstanding Contract under the RSCB Project has been put on hold because of the current restrictions.

The specific impact on the EEDSM Project Activities are as follows.

- Delays in the shipment of Street Lighting equipment/components.
- Some Households selected for interviews under the FMMS Consultancy Services were not willing to participate because of fears of contracting the virus. This led to the Interviewers having to visit more houses than planned to achieve the required number of Respondents.
- The Energy Commission delayed in its review of the Draft Legislative Instruments (LIs) for Lots 2 and 3 Products.

3.2.3 Cross-Cutting Projects

Gender and Social Inclusion

- Activities for the Internship and Mentoring Program for 2020 continue to be affected as a result of the COVID-19 pandemic. Physical placement of Students will not be possible.

Communications and Outreach

- The COVID-19 pandemic prevented MiDA from carrying out planned Media Site Visits, and the Groundbreaking Ceremony for the Kasoa Project.

PART FOUR: FORWARD LOOK

The following have been planned for completion in the next half of the year, July-December, 2020.

4.1 ECG FINANCIAL AND OPERATIONAL TURNAROUND PROJECT

Modernizing Utility Operations Activity

Geographic Information System (GIS)

- Complete Data Capture for Underground Cable for Legon and Roman Ridge
- Go-Live with at least two (2) ECG Districts.
- Aerial Image post-processing, Position validation and Attribute validation.

Technical Loss Reduction Activity

PSS and ICC

- Continue with Design Reviews for Kanda and Legon Primary Substations and Interconnecting & Offloading Circuits.
- Commence Site Clearance and Relocation of existing Utilities Pipes and Cables.

Pokuase BSP & ICC

- Complete Earthworks, GRIDCo and ECG Control Buildings, and Equipment Foundations.
- Complete FAT for the remaining major Plant and Equipment.
- Continue with work on Internal Drainage, Cable Trenches and installation of Steel Structures.
- Continue construction of Single Cell Culvert under Accra - Kumasi Road Direction.
- Continue Thrust Boring – TB-01, TB-09, TB-05, TB-06, TB-07, TB-08 & TB-13.
- Deliver OPGW and UGFOC to Site.

Kasoa BSP and ICC

- Continue Basic Designs for Civil, Electrical and Electro-Mechanical Equipment
- Review Manufacturer's Designs and Specifications for major and long lead Electrical and Electro-Mechanical Equipment.
- Complete general excavation and cutting to Formation Levels, backfilling and compaction.
- Mobilize Sub-Contractors and commence construction of GRIDCo and ECG Control Buildings, Equipment Foundations, and Fence.

PSS & ICC

- Complete procurement process for the construction of 16 3-Bed Flats for Project Affected Persons (PAPs) at Kanda PSS Site.

LV Bifurcation and Network Improvement (Achimota, Dansoman, Kaneshie, and Mampong Work Orders)

- Pole planting.
- Overhead Line stringing and Conductor replacement.
- Laying of Underground Cables.
- Installation and commissioning of Transformers, Distribution Pillars and RMUs.
- Retiring of old Poles, Transformers, Conductors and Pole-top Accessories.

Commercial Loss Reduction

Implementation of a Meter Management System (MMS)

- Receive shipment of all MMS Equipment from South Africa
- Complete installation of equipment at two (2) Data Centers, two (2) Regional Offices, and 40 Vending Stations
- Complete a Site Acceptance Test (SAT)

4.2 REGULATORY STRENGTHENING AND CAPACITY BUILDING PROJECT

- Continue planning for the following:
 - Peer Review on Performance Monitoring & Quality of Service
 - Job Shadow on Technical Monitoring and Quality of Service originally.

4.3 ACCESS PROJECT

- Award Contract for the HVDS and Security Lighting Infrastructure upgrades.
- Complete the Customer Information and Outreach Programme (CIOP) Activity.

4.4 ENERGY EFFICIENCY AND DEMAND SIDE MANAGEMENT PROJECT

Development and Enforcement of Standards and Labels

- Liaise with the EC and Attorney-General's (A-G's) Department to submit drafted LIs on Lot 1 Electrical Products to the Minister of Energy for onward submission to the PCSL.
- Liaise with the GSA to commence work on the Standards for Industrial Fans and Ventilator Fans.
- Liaise with the Energy Commission and AG's Department to commence the review of the drafted LIs on Standards for Lot 2 Electrical Products (i.e. upgrade/revision of Standards for Solar Panels, Batteries, Inverters, Distribution Transformers and Pre-paid Energy Meters) and Lot 3 Electrical Products (Microwave, Washing Machine, Computers and Standing Fan).
- Complete the drafting of LIs on Standards for the Lot 4 Electrical Products (Blender, Electric Water Heater, Rice cooker and Kettle).
- Commence Adoption of Standards and drafting of LIs for Industrial Fans and Ventilator Fans.
- Award Contract for AC Test Laboratory Equipment Contractor (subject to MCC Approval).
- Review and provide comments to the FMMS consultant on the Data Dissemination

Report for the Nationwide Survey of Energy Consumption and Appliance Use Pattern in Ghana.

Improved Energy Auditing

- Continue with RTRR Works Contract implementation for the Ghana Education Service (GES) Main Building.
- Inaugurate the three (3) Tertiary Institutions to host the Sustainable Energy Services Centers (SESCs).
- Commence Training of Trainers Course on SEMP, SEAP and EAP.
- Commence the procurement of mobile Test Instruments for the Sustainable Energy Services Centers (SESCs).

Education and Public Information

- Facilitate the proofreading and editing of the Draft Energy Efficiency and Conservation materials and validate supplementary materials.
- Conduct Trial Test of Energy Efficiency and Conservation Curriculum materials (including Teaching and Learning Materials) in the thirty (30) Pilot Pre-Tertiary Schools.
- Conduct Training for selected Teachers and Administrators from the thirty (30) selected Pilot Schools.

DSM Activity

- Commence retrofitting of Street Lighting Luminaires.

4.5 ENVIRONMENT AND SOCIAL PROTECTION

- Monitor and supervise the implementation of COVID-19 Risk Mitigation Plans.
- Continue implementation of Resettlement Action Plans and Community Engagement Plans of the Infrastructure activities of the EFOT Project
- Continue monitoring of the HSESMPs of the Infrastructure activities of the EFOT and Access Projects.

4.6 GENDER AND SOCIAL INCLUSION

- Continue work on updating the Social and Gender Integration Plan.
- Continue support to all Projects and Cross Cutting Activities to ensure compliance with all GSI requirements.
- Provide strategic support to the ECG Gender Unit.
- Finalize the Sustainability Plan.
- Build Capacity and mentor qualified GPCIMP Interns.
- Sign MoU with Mentoring Organizations.
- Organize a Gender and Energy Working Group Meeting.

4.7 MONITORING AND EVALUATION AND ECONOMICS

- Complete Mid-Term Evaluation Consultancy.
- Revise M&E Plan to reflect re-scoped Compact Activities for MiDA Board and MCC

Approvals.

- Deploy GridWatch Devices to measure Outages in Achimota, Dansoman and Kaneshie under the GridWatch Consultancy.
- Train Listing Teams and commence Transformer, Household, and Enterprise Listing under the Household and Enterprise Survey.
- Finalize, translate (into Twi and Ga) and programme Survey Instruments for Tablets (CAPI).
- Draw Samples for the Household and Enterprise Surveys.
- Revise, translate and pre-test the Household and Enterprise Survey Instrument.
- Obtain the Household and Enterprise Survey Training and Data Collection Plan.

4.8 COMMUNICATIONS AND OUTREACH

ECG IT Projects

- Develop Information Education and Communication materials
- Produce short Video
- Launch GIS Go-Live
- Facilitate Radio and TV Interviews

Kasoa BSP

- Production of a short Video
- Develop Infographics
- Publish Press Advertorial
- Facilitate Media Briefing/Site Visit
- Publish on Social Media
- Publish Feature Article

Pokuase BSP

- Produce a short Video

Primary Substation

- Develop Factsheets and Infographics
- Publish Media Advertorial publication
- Develop Features and Editorials
- Develop Project Infomercial
- Publish on Social Media
- Facilitate Media Site Visits

LV Bifurcation

- Develop Project Factsheets, infographics and Backgrounders
- Publish Media Advertorial
- Produce a short Video
- Publish short Video on Social Media and other approved Media channels
- Facilitate Public Service Announcement and Live Presenter Mentions
- Carry out Stakeholder Engagements and Outreach.

Race-to-Retrofit

- Production of Project short video
- Develop Media Release on Project Closure
- Publish on Social Media.

Street Lighting

- Produce and publish of Project Infomercial
- Develop Street Lighting Infographics
- Publish on Social Media
- Publish Project Advertorial
- Facilitate Media Briefing.

PART FIVE: CONCLUSION AND RECOMMENDATIONS

5.1 CONCLUSION

In the period under review, significant progress was made in completing the outstanding procurement of Service Providers for the Compact Activities. The implementation of contracts that have already been awarded also progressed steadily until travel restrictions imposed by countries and Corporate Entities in the wake of the COVID-19 pandemic, slowed down implementation of Project activities.

With the easing of the restrictions, work on the various Projects have been escalated to make up for delays.

5.2 RECOMMENDATIONS

The following are recommendations to ensure the smooth closure of Compact Activities.

1. Notwithstanding the effort being made to complete all the planned Activities before the Compact End Date of September 6, 2021, there is the need to plan towards GoG providing funding for Infrastructure works that may not be completed.
2. The Defects Notification Period of some of the major Infrastructure works will extend beyond the Compact Completion Date. Therefore, there is the need for GoG to provide funding for MiDA Staff who have to remain at post during this period.
3. Make provision for GoG funding for the implementation of the Post-Compact M&E Plan.

PART SIX: REPORTING MATRIX

Programmes & Sub-Programmes	Activities (Operations)	Baseline	Targets for the 2 nd Quarter of 2020	Actual Results	Output Indicators	Means of Verification	Challenges	Mitigation Measures
Ghana Power Compact Program: ECG Financial and Operational Turnaround	Modernizing Utility Operations Activity	N/A	N/A	GIS Implementation is 73% complete as against 84% planned completion. Delivery of aerial imagery is behind schedule. The service provider has indicated that images will be delivered by 15th August 2020	GIS-based distribution management system in place	GIS Consultant's Report	Gaps in the Data received from ECG Dependency on. The Activity currently depends on ECG resources to perform the Field Validation 12 Districts	MiDA has requested ECG Management to commit to the provision of the necessary resources.
		N/A	N/A	Activity has been de-scoped. It will no longer take under the Compact.	Enterprise Resource Planning System in place	ERP Consultant's Report	None- Activity on track	
		0	250	217 females have been selected for the Monitoring Program. As a result of COVID-19 there will be no internships this year.	Number of females participating in STEM Internship and Mentoring Program	Program Records	None- Activity on track	
	Technical Loss Reduction Activity	0 (2016)	1102.52	Progress made on the LV Bifurcation & network Improvement works is as follows; Achimota (64%), Kaneshie & Dansoman (51%) and Mampong (79).	Kilometers of distribution lines upgraded or built	EFOT Project Report	None- Activity on track	
		0 (2016)	0	Kanda and UGTH Primary Substations (PSS) works is 15% complete. LV Bifurcation and BSP Works are steadily progressing.	Distribution substation capacity added	EFOT Project Report	None- Activity on track	
		0 (2016)	0	The Pokuase BSP project is 71% complete whiles the Kasoa BSP has an overall progress of 27%.	Number of Bulk supply points (BSPs)	EFOT Project Report	None- Activity on track	

Programmes & Sub-Programmes	Activities (Operations)	Baseline	Targets for the 2 nd Quarter of 2020	Actual Results	Output Indicators	Means of Verification	Challenges	Mitigation Measures
		0 (2016)	0	Kanda and UGTH Primary Substations Interconnecting circuits has achieved an overall progress completion status of 15% while the BSP Sub-Transmission-ICC works has an overall progress completion status of 23%	Kilometers of interconnecting sub-transmission lines (33kV)	EFOT Project Report	None- Activity on track	
	Commercial Loss Reduction Activity	0 (2016)	N/A	Meter management system is 50% complete. The AMI Metering and STS metering are both 99% complete.	A standard Meter management system in place	Operational Acceptance Criteria	COVID-19 has affected one Application that is from China – Testing the Meters in China is a challenge/	The Contractor, Siemens, exploring avenues to test the meters in alternative locations
	Outage Reduction Activity	N/A	N/A	Activity has been de-scoped. It will no longer take under the Compact.	Outage management system in place	Program Records	None- Activity on track	
RSCB Project:	Tariff Review and Regulatory Activity	0	0	Q1 2020 Report on Peer Review of Tariff Methodology was reviewed and approved.	Number of training participants	Regulatory Program Partnership Report	COVID-19 pandemic has delayed the planned Training.	
Access Project: Infrastructure Activity		0	N/A	Procurement processes resumed towards the award of contract for the HVDS and Security Lighting infrastructure upgrades in 10 M&EEs in Accra and Tamale.	Transformer capacity installed	Supervision Consultant's Periodic Reports	None- Activity on track	
		0	N/A	Procurement processes resumed towards the award of contract for the HVDS and Security Lighting infrastructure upgrades in 10 M&EEs in Accra and Tamale.	Length of secondary LV ABC cables installed	Supervision Consultant's Periodic Reports	None- Activity on track	
		0	N/A	Procurement processes resumed towards the award of contract for the HVDS and Security Lighting	Number of pole mounted prepayment meters	Supervision Consultant's Periodic Reports	None- Activity on track	

Programmes & Sub-Programmes	Activities (Operations)	Baseline	Targets for the 2 nd Quarter of 2020	Actual Results	Output Indicators	Means of Verification	Challenges	Mitigation Measures
				infrastructure upgrades in 10 M&EEs in Accra and Tamale.				
		0	N/A	Procurement processes resumed towards the award of contract for the HVDS and Security Lighting infrastructure upgrades in 10 M&EEs in Accra and Tamale.	Number of security lights installed	Supervision Consultant's Periodic Reports	None- Activity on track	
Access Project: Social Inclusiveness & Improved Partnerships Activity		0	TBD (after Census)	Customer Census Plan and draft Questionnaire for Census in M&EEs completed.	Number of customers assisted through outreach for electricity connection	Supervision Consultant's Periodic Reports	None- Activity on track	
		N/A	N/A	Procurement process ongoing.	Security Light Agreement (MOU) signed	Institutional Assessment & Engagement Consultant Periodic Reports	None- Activity on track	
EEDSM Project: Development and Enforcement of Standards and Labels Activity		0	15	20	Number of products with standards developed	Project Report	None- Activity on track	
		0	15	5	Number of products with legislative instruments drafted	Project Report	None- Activity on track	
		0 (2016)	0	0	Number of products with LIs on standards passed in Parliament	Project Report	None- Activity on track	
		0 (2016)	N/A	0	Number of appliance test labs established	Project Report	None- Activity on track	
EEDSM Project: Improved Energy Auditing		0 (2016)	7	7	Number of institutions participating in race to retrofits and renewables	Project Report	None- Activity on track	
		0 (2016)	18	0	Number of SESCOs trainers trained in energy auditing	Project Report	None- Activity on track	

Programmes & Sub-Programmes	Activities (Operations)	Baseline	Targets for the 2nd Quarter of 2020	Actual Results	Output Indicators	Means of Verification	Challenges	Mitigation Measures
		0	N/A	0	Number of sustainable energy services centers (SESCs) established	Project Report	None- Activity on track	
EEDSM Project: Education and Public Information Activity		0 (2016)	TBD	0	Number of unique public education outreach on energy efficiency	Project Report	None- Activity on track	
		0	48	0	Number of teachers trained on energy efficiency and conservation curriculum	Project Report	None- Activity on track	
		0 (2016)	5,000	0	Number of students reached through energy efficiency and conservation curriculum	Project Report	None- Activity on track	
EEDSM Project: DSM Infrastructure Activity		0 (2016)	11,305	0	Number of poles constructed	Project Report	None- Activity on track	
		0	14,558	0	Number of LED lights installed	Project Report	None- Activity on track	