



# **MILLENNIUM DEVELOPMENT AUTHORITY (MiDA)**

## **GHANA COMPACT II**

### **January-March 2021 Performance Report**

**April 2021**

#### **Ghana Compact II Theme**

***"Powering Ghana for Accelerated and Sustainable Economic Growth"***

## CONTENTS

	Page
<b>PART ONE: INTRODUCTION</b>	<b>5</b>
1.1 SUMMARY OF ACTIVITIES AND ACHIEVEMENTS	5
1.2 CHALLENGES AND MITIGATION STRATEGIES	6
<b>PART TWO: PLANNED PROGRAMMES AND ACHIEVEMENTS</b>	<b>7</b>
2.1 INTRODUCTION	7
2.2 PROGRAM ACTIVITIES	8
2.2.1 Procurements	8
2.2.2 Distribution Projects	10
2.2.3 Generation Projects	16
2.2.4 Environment and Social Performance	18
2.2.5 Gender and Social Inclusion	19
2.3 MONITORING AND EVALUATION	20
2.4 COMMUNICATIONS AND OUTREACH	21
2.4.1 Communication Strategy	21
2.4.2 Implementation of Activities	22
<b>PART THREE: CHALLENGES</b>	<b>23</b>
3.1 CRITICAL ISSUES	23
3.2 PROJECT-SPECIFIC CHALLENGES	23
3.2.1 Distribution Projects Challenges	23
3.2.2 Generation Projects Challenges	25
3.2.3 Cross-Cutting Projects	25
3.2.4 Possible Extension to the Compact Period	25
<b>PART FOUR: FORWARD LOOK</b>	<b>26</b>
4.1 ECG FINANCIAL AND OPERATIONAL TURNAROUND PROJECT	26
4.2 REGULATORY STRENGTHENING AND CAPACITY BUILDING PROJECT	28
4.3 ACCESS PROJECT	28
4.4 ENERGY EFFICIENCY AND DEMAND SIDE MANAGEMENT PROJECT	28
4.5 ENVIRONMENT AND SOCIAL PROTECTION	29
4.6 GENDER AND SOCIAL INCLUSION	29
4.7 MONITORING AND EVALUATION AND ECONOMICS	29
4.8 COMMUNICATIONS AND OUTREACH	29
<b>PART FIVE: CONCLUSION AND RECOMMENDATIONS</b>	<b>31</b>
5.1 CONCLUSION	31
5.2 RECOMMENDATIONS	31
<b>PART SIX: REPORTING MATRIX</b>	<b>32</b>

## **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
CED	Compact End Date
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
EOT	Extension of Time
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
HT	High Tension
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
IPP	Independent Power Producer
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
POM	Procurement Operations Manual
PoW	Progress of Work
PPG	Program Procurement Guidelines
PSP	Private Sector Participation
PURC	Public Utilities Regulatory Commission
RAP	Resettlement Action Plan
RCE	Resettlement and Community Engagement
RMU	Ring Main Unit
RPP	Regulatory Partnership Program
SESC	Sustainable Energy Services Centers
SGIP	Social and Gender Integration Plan
STEM	Science Technology Engineering and Mathematics
TP	Tariff Plan
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-March 2021, MiDA achieved the following major Milestones:

#### **ECG Financial and Operational Turnaround (EFOT) Project**

- Geographic Information System (GIS): The System was 94% complete.
- Primary Substations (PSS) & Inter-Connecting Circuits (ICC): Overall progress was 71% for the PSS and 88% for the ICC.
- Pokuase Bulk Supply Point (BSP) and Interconnecting Circuits (ICC): Overall progress was 95% for the BSP and 97% for the ICC.
- Kasoa BSP and ICC: Overall progress achieved was approximately 57%.
- Low Voltage (LV) Bifurcation: Progress made for ECG Dansoman and Kaneshie District - 97%, Kwabenya West District (Lot 1) – 31% and Kwabenya East District (Lot 2) – 15%. Work was completed for Achimota and Mampong Districts the previous Quarter (i.e. December 2020), and currently going through the six (6) months Defect Liability Period.
- Institutionalizing Gender-responsiveness in ECG: Carried out Capacity Building for 180 Interns, and completed the Draft Sustainability Strategy and Implementation Plan.

#### **Access Project**

- Security Lighting fixtures were cleared and stored at the Contractor's warehouse.
- The Contractor took delivery of Cables, Conductors and Transformers.

#### **Regulatory Strengthening and Capacity Building (RSCB) Project**

- Conducted Partnership Exchange on Energy Regulators Regional Association (ERRA) Virtual Training for Energy Commission;
- Conducted Peer Review of Ghana's Key Performance Indicators and System Reliability Indicators for Electricity Utilities for Energy Commission and PURC.

#### **Energy Efficiency and Demand Side Management (EEDSM) Project**

- AC Test Laboratory Equipment delivered at GSA premises.
- AC Test Laboratory Containment Building is 98% complete.
- Completed a successful in-person Sustainable Energy Courses for the three (3) selected Tertiary institutions to host Sustainable Energy Services Centers (SESCs).
- Completed the installation of refrigerators at the Ghana Education Service Main Building, under the Race to Retrofits Sub-Activity.
- Conducted the monitoring of the use of the Energy Efficiency and Conservation curriculum materials in the thirty (30) selected Schools.

- Organized Energy Efficiency and Conservation Festivals and Fairs in the 30 selected Pilot Schools.
- Street Lighting
  - West of the Accra Central Business District: –5,185No. Luminaires installed, representing overall progress of 98%.
  - Central Business District:– 2,774No. Luminaires installed, representing overall progress of 98%.
  - East of the Accra Central Business District: –3,997No. Luminaires installed, representing overall progress of 96%.

#### Environmental and Social Performance

- Continued monitoring implementation of COVID-19 risk mitigation plans for works contracts and consultants.
- Continued to implement its Resettlement Action Plans (RAPs) for the Infrastructure Projects by paying compensations to Project Affected Persons (PAPs) to relocate them and to allow for implementation of infrastructure projects
- Monitored the implementation of Health, Safety and Environment issues of the implementation of infrastructure projects to avoid and minimize risks and impacts.
- Monitored the construction of the 16 unit 3-bed block of flats at Kanda for PAPs.

#### Gender and Social Inclusion

- Mentoring Workshop organized for GPCIMP Alumni and National Service Persons serving in the Energy Sector.

## **1.2 CHALLENGES AND MITIGATION STRATEGIES**

The COVID-19 pandemic and the resulting travel restrictions and, in some cases, the lockdown announced by Governments 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 and implementation of COVID-19 Risk Mitigation Plans by Consultants and Contractors to avoid and or minimize the risk of COVID-19 infection and spread in the field.
3. Adopted alternatives to in-person meetings, particularly Virtual Meeting platforms, to avoid human contact and minimize spread of the virus.

There are ongoing discussions with MCC for the possible extension of the Compact period to complete infrastructure activities that were significantly impacted by the COVID-19 related restrictions.

## **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 16<sup>th</sup> February 2007 and ended on 15<sup>th</sup> February, 2012, and utilized approximately US\$547.009m grant funds.

On 5<sup>th</sup> 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 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).

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

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).

Two (2) contracts, valued at US\$ 131,491 were signed in the First Quarter of 2021 as indicated in the Table below.



## Contracts signed in January-March 2021

Contract No.	Description	Method	Type	Organization	Contract Value USD	Contract Signed
5140800	Environmental, Social, Health Safety (ESH&S) Services - Construction Oversight – Monitoring and Supervision of Works - installation of low voltage bifurcation (lv) and network improvement activities in the Kwabenya ECG District	IDIQ	CS	SAL Consult Limited	US\$ 122,350	15-Feb-2021
5810500	MiDA Anti-Virus Software	Shopping	G	Humon Company Limited	US\$ 9,141 GHS 52,300	24-Mar-2021

Type: CS=Consultancy Services; G=Goods

## 2.2.2 Distribution Projects

The Power Distribution Sector Projects consist of the ECG Financial and Operational Turnaround (EFOT) and Access. 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	January-March 2021 Progress
<b>EFOT Project</b>		
Modernizing ECG Operations	Geographic Information System	<p>The GIS Contractor, Hexagon, commenced work on August 7, 2017.</p> <p>All Project activities ended this Quarter.</p> <p>The activities carried out under the GIS included:</p> <ul style="list-style-type: none"> <li>• System requirements Meetings/Workshops;</li> <li>• Preparation of Data Structures (i.e. a Prototype);</li> <li>• Capturing of Aerial Imagery of ECG Assets in Accra East and Accra West;</li> <li>• Performing a pilot of the System;</li> <li>• Migrating of the Data;</li> <li>• Field validation of Data overhead and underground.</li> </ul> <p>Operational Acceptance Tests were performed and the Operational Acceptance Certificate for the System was issued on March 30, 2021.</p>
Technical Loss Reduction	Construction of Kanda and Legon Primary Substations & Interconnecting Circuits	<p><b>PSS</b></p> <p>Overall progress of 71% as against planned progress of 72%.</p> <p>Design and Material – 96% progress as against 99% planned.</p> <p>Manufacturing, Factory Acceptance and Delivery to Site – 73% progress as against 71% planned.</p> <p>Site Works – 42% progress, as against 43% planned.</p> <p><b>PSS ICC</b></p> <p>Overall progress of 88% achieved as against planned progress of 98%.</p> <p>Design and Material – 99% progress against 99% planned</p> <p>Manufacturing, Factory Acceptance and Delivery to Site – 97% progress against 100% planned</p> <p>Site Works – 78% progress against 100% planned.</p>

Activity	Sub-Activity	January-March 2021 Progress
	Construction of Pokuase Bulk Supply Point & Interconnecting Circuits	<p><b>BSP</b></p> <p>The Contractor for the Pokuase BSP, Elecnor SA, commenced works on March 5, 2019.</p> <p>Overall progress of work is 95%, with Contract End Date scheduled for 31<sup>st</sup> May, 2021.</p> <p>The following is the status of works:</p> <ul style="list-style-type: none"> <li>• Purchasing: 100% complete.</li> <li>• Manufacturing: 98% complete</li> <li>• Factory Acceptance Test: 100% complete</li> <li>• Shipment: 99% complete</li> <li>• Overall equipment deliveries: 98% complete (Primary Equipment: 100% complete; Secondary Equipment: 100% complete.)</li> </ul> <p>Works currently in progress are mainly:</p> <ul style="list-style-type: none"> <li>• Electro Mechanical Installations [Transformers, Switch Gears, Pannels]</li> <li>• Cable Trench &amp; Cable Laying</li> <li>• Electromechanical Works – SATs</li> <li>• Civil works (GRIDCo, ECG Control Buildings</li> <li>• Internal and external roads.</li> </ul> <p>Work is progressing steadily on the Perimeter/Boundary Walls, as well as the Stone Pitching/Slope Protection Works.</p> <p>Assembly/erection are near completion, and Site Acceptance Tests (SAT) are in progress.</p> <p><b>ICC</b></p> <p>The Contractor, Best &amp; Crompton, commenced work on October 1, 2019, with a Contract End Date of 30<sup>th</sup> April, 2021.</p> <p>Overall progress is 97%,</p> <p>The following are 100% complete.</p> <ul style="list-style-type: none"> <li>• Manufacturing of Equipment</li> <li>• Routine Test, Type Testing &amp; Factory Acceptance Testing</li> <li>• Shipment</li> <li>• Delivery of Equipment.</li> </ul>

Activity	Sub-Activity	January-March 2021 Progress
		<p>The following are Works currently in progress:</p> <ul style="list-style-type: none"> <li>• Construction – 98%</li> <li>• 33kV Cable Laying – 98%</li> <li>• 11kV Overhead Line Work – 99%</li> <li>• Cable Termination Work – 88%</li> <li>• Stringing Works – 75%</li> <li>• Status of Commissioning – 47%.</li> </ul> <p><b>Overall for Pokuase BSP &amp; ICC</b></p> <ul style="list-style-type: none"> <li>• Training is near completion for both GRIDCo and ECG Staff.</li> </ul>
	<p>Construction of Kasoa Bulk Supply Point &amp; Interconnecting Circuits</p>	<p>The Contract for the Kasoa BSP with Siemens Energy SAS of France commenced on January 31, 2020.</p> <p>Overall progress at the end of March 2021 was 57% against a planned target of 79%.</p> <p>The details of progress are as follows:</p> <ul style="list-style-type: none"> <li>• Engineering Designs are 89% complete, against 100% planned recovery target.</li> <li>• Procurement of major Equipment is 94% complete, against 96% planned recovery target.</li> <li>• Manufacturing and Factory Acceptance Tests (FAT) for all major equipment was completed and 90% of equipment delivered to Site.</li> <li>• Civil Works execution is 71% complete, against 91% planned recovery target. The breakdown are as follows: <ul style="list-style-type: none"> <li>(a) ECG Control Building – 46%</li> <li>(b) GRIDCo Control Building – 25%</li> <li>(c) GIS Area – 83%</li> <li>(d) Power Transformer Foundations – 90%</li> <li>(e) Firewall between Transformers – 100%</li> <li>(f) STATCOM Foundations – 83%</li> <li>(g) Gantry Foundations – 92%</li> <li>(h) MV Equipment Foundations – 90%</li> <li>(i) Cable trenches – 62%</li> <li>(j) Horizontal Direction Drilling – 100%</li> <li>(k) Drainage – 17%</li> <li>(l) Underground Pipes – 31%</li> <li>(m) HV Gallery Works – 21%</li> <li>(n) Fence Wall – 48%</li> <li>(o) 161kV OHL – 49%</li> </ul> </li> </ul>

Activity	Sub-Activity	January-March 2021 Progress
		<ul style="list-style-type: none"> <li>• Installation of 33kV Switchgear in ECG Building completed, while installation of Transformers is ongoing.</li> </ul>
	Low Voltage Bifurcation and Network Improvements – Achimota District	Completed in the previous Quarter (i.e. December 2020) and currently going through six (6) months Defect Liability Period.
	Low Voltage Bifurcation and Network Improvements – Mampong District	Completed in the previous Quarter (i.e. December 2020) and currently going through six (6) months Defect Liability Period.
	Low Voltage Bifurcation and Network Improvements – Dansoman & Kaneshie District	<p>This Activity is 97% complete.</p> <p>The completion date was extended from March 31 to April 30, 2021 to allow the Contractor to complete the outstanding activities.</p> <p>Procurement is 100% complete, with all materials equipment delivered to site.</p> <p>Construction activities are nearing completion; nine (9) out of 15 Transformer Substations have been commissioned in Kaneshie and eight (8) out of 17 Transformers have been commissioned in Dansoman.</p>
	Low Voltage Bifurcation and Network Improvements – Kwabenya West (Lot 1)	<p>This Activity is 31% complete.</p> <p>Pre-construction Survey activities have been completed. All Material and Equipment Drawings, Technical Data Sheets and Project Management Plans have been completed.</p> <p>Manufacturing, shipment &amp; delivery of Materials and Equipment are in progress. The items delivered to Site include the first Lot of LV DPs and LV Power Cable and bare Earthing Conductor.</p> <p>Construction works commenced on 19-Mar-2021 and progressed well within the reporting period. Summary progress is outlined below:</p> <ul style="list-style-type: none"> <li>• 65No. 11m Wood Poles have been planted.</li> </ul>

Activity	Sub-Activity	January-March 2021 Progress
		<ul style="list-style-type: none"> <li>• 25No. 11kV Stays have been installed.</li> <li>• Pegging, marking out of Pole positions, Pit excavation and Pole planting.</li> </ul>
	Low Voltage Bifurcation and Network Improvements – Kwabenya East (Lot 2)	<p>This Activity is 15% complete.</p> <p>Pre-construction Survey activities have been completed. All Material &amp; Equipment Drawings, Technical Data Sheets and Project Management Plans have been completed.</p> <p>Manufacturing, shipment and delivery of Materials and Equipment are in progress. The items delivered to site include the Pole-top accessories and Wood Poles. The transformers have arrived at Tema Port and undergoing clearance.</p> <p>Construction works commenced on 17-Mar-2021 and progressed well within the reporting period. Summary progress is outlined below:</p> <ul style="list-style-type: none"> <li>• 116No. 11m Wood Poles have been planted.</li> <li>• Pegging, marking out of Pole positions, Pit excavation and Pole planting.</li> </ul>
Commercial Loss Reduction	Installation of Meter Management System (MMS)	<p>All the equipment for the system were transported from South Africa to Ghana after the Factory Acceptance Tests. There has been a Site Acceptance Test in Ghana, as well as System Integration.</p> <p>The system is currently undergoing a Pilot, and this is being performed concurrently with the Operational Acceptance Tests of the System.</p> <p>The Pilot is expected to end in May 2021.</p>
<b>Access Project</b>		
Infrastructure	High Voltage Distribution System (HVDS) & Security Lighting in Markets and Economic Enclaves (M&EEs)	<p>The procurement of Equipment and Materials progressed quite steadily.</p> <ul style="list-style-type: none"> <li>• Security Lighting fixtures were cleared and stored at the contractor’s warehouse.</li> <li>• Cables and Conductors and Transformers arrived at the Tema Port.</li> <li>• Shipment of the first batch of Wood Poles from Chile was completed.</li> </ul>

<b>Activity</b>	<b>Sub-Activity</b>	<b>January-March 2021 Progress</b>
		Resolution of challenges with the procurement of Energy Meters commenced.
Social Inclusiveness and Improved Partnerships	Customer Outreach, Normalization of Services, and Facilitation Assistance (COFANS) for new connections	<p>Obtained the Draft Facilitation Assistance and Normalization of Services Plans from the Consultant for review.</p> <p>Consultant completed an assessment of internal wiring of Stalls and Stores in the selected Markets and Economic Enclaves (M&amp;EEs)</p> <p>Consultant also commenced an intensive information campaign to encourage more Vendors to undertake the Rewiring of their Shops to meet Energy Commission's acceptable standards.</p>

## 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	January-March 2021 Progress
<b>Regulatory Strengthening &amp; Capacity Building Project</b>		
Tariff Review and Regulatory Activity	Tariff Study and Tariff Plan	<p>Obtained the Quarterly Reports of the National Association of Regulatory Utility Commissioners (NARUC) submitted under the Regulatory Partnership Program.</p> <p>The Reports covered Partnership Exchange on Energy Regulators Regional Association (ERRA) Virtual Training; and Peer Review of Ghana’s Key Performance Indicators and System Reliability Indicators for Electricity Utilities</p>
<b>Energy Efficiency &amp; Demand-Side Management (EEDSM) Project</b>		
	Legislative Instruments (LIs)	<p>The Energy Commission Technical Committee reviewed the following Draft Regulations for the enforcement of Standards and Labels for the following Alliances:</p> <ul style="list-style-type: none"> <li>• Electric Kettle – Draft Energy Commission (Energy Efficiency Standards and Labelling) (Electric Kettle) Regulations.</li> <li>• Rice cooker – Draft Energy Commission (Energy Efficiency Standards and Labelling) (Rice Cooker) Regulations.</li> <li>• Water Heater - Draft Energy Commission (Energy Efficiency Standards and Labelling) (Water heater) Regulations.</li> <li>• Industrial Fan - Draft Energy Commission (Energy Efficiency Standards and Labelling) (Industrial Fan) Regulations.</li> <li>• Ventilating Fan - Draft Energy Commission (Energy Efficiency Standards and Labelling) (Ventilating Fan) Regulations.</li> </ul>



Activity	Sub-Activity	January-March 2021 Progress
	Construction of AC Test Laboratory Containment Building	Overall progress of works is 98%.
	Supply & Installation of Additional Test Laboratories	AC Test Laboratory Equipment delivered at GSA premises.
Improved Energy Auditing	Race to Retrofit & Renewables (RTRR)	Completed installation of Refrigerators at Ghana Education Service Main Building under the Race to Retrofits and Renewables Sub-activity.
	Setting Up of Sustainable Energy Services Centers (SESCs)	<p>Completed a successful in-person Sustainable Energy Course Training for the three (3) selected Tertiary institutions to host Sustainable Energy Services Centers (SESCs). The three Institutions are Accra Technical University, Kwame Nkrumah University of Science and Technology, and University of Energy and Natural Resources.</p> <p>Procured Energy Audit instruments for the three Tertiary Institutions.</p>
Education & Public Information	Update of Pre-Tertiary School Curriculum on Energy Efficiency and Conservation (EEC)	<p>Conducted the second round monitoring and use of the Energy Efficiency and Conservation Curriculum Materials in the 30 Pilot Schools.</p> <p>Organised the Second Round of Energy Efficiency and Conservation Project Festivals and Fairs in the 30 selected Pilot Schools.</p>
Demand-Side Management	Street Lighting	<p>The overall progress is as follows:</p> <ul style="list-style-type: none"> <li>• West of Central Business District) – 5,185No. Luminaires installed (98% complete)</li> <li>• Central Business District – 2,774No. Luminaires installed (98% complete)</li> <li>• East of Central Business District – 3,997No. Luminaires installed (96%. Complete)</li> </ul>

## 2.2.4 Environment and Social Performance

The Compact requires that all Projects are implemented in compliance with MCC's Environmental Guidelines, the International Finance Corporation (IFC) Performance Standards on Environmental and Social Sustainability, and Ghanaian Environmental Laws, Regulations, Licenses, and Permits. MiDA continues to ensure Projects financed under the Compact are implemented consistent with the requirements of these Regulations and Guidelines.

The following were achieved during the period January - March 2021:

### 1. COVID-19 Risk Mitigation Plans

MiDA monitored the implementation of COVID-19 Risk Mitigation Plans by contractors and consultants involved in the Compact Projects. Within the period, two (2) Works Contractors recorded positive cases of COVID-19. They are Eiffage and Elecnor, who are responsible for the construction of the Kanda and UGMC PSS, and the Pokuase BSP respectively.

The number of confirmed cases at the PSS Site was two while that of Pokuase BSP was four. The contractors followed the approved Risk Mitigation Plans to manage the cases by tracing all contacts of the infected persons, carrying out COVID-19 tests, fumigating the Site and ensuring strict adherence to the protocols. All confirmed cases have recovered and resumed work on their various Sites.

### 2. Resettlement Action Plans (RAP) for Infrastructure Projects

There were Resettlement and Community Engagement activities to facilitate the construction of infrastructure works under the Compact. RAPs were carried out to facilitate construction activities as follows.

- a) Kasoa BSP: Compensated PAPs at the Opeikuma Junction where the construction of the 161kV line is underway to connect to the BSP.
- b) Pokuase ICC Project: Compensated PAPs affected by the construction of the Medium Voltage Towers and stringing of Lines along the Achimota-Kanda Highway.
- c) Kanda and UMGC PSS ICC: Compensated PAPs impacted by the trenching and cable works of the PSS ICC at Kanda. Impacts were mainly relocation of temporary structures and Businesses within the utility corridors and locations marked for the construction works. The affected Businesses were allowed to return to work after the construction works were completed.

### 3. Reinstatement of affected properties.

Reinstatement Works were monitored to ensure all affected properties had been reinstated according to specifications.

### 4. Health, Safety, Environment and Social

The implementation of the Health, Safety, Environment and Social Management Plans of the various works contracts were monitored to ensure compliance by the Contractors. There were cases of near misses at the various Construction Sites which were reported by the Contractors within the contractual timelines for reporting. There were no incidents within the Quarter.

## **5. Construction of 16 unit 3-bed flats at Kanda**

The construction of the 16 unit 3-Bedroom Block of Flats at Kanda, which started on October 1, 2020 and currently scheduled to be completed by end of July 2021, is about 55% complete against a planned completion of 58%. The structural and block works have been completed. Other ancillary works such as plumbing, electrical wiring and plastering are ongoing.

### **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. Implementation of the Social and Gender Integration Plan (SGIP)
  - Project Managers signed off on the SGIAP Update for their Projects and Activities.
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.
  - Reviewed SMEC GSI Expert's Gender Integration and TIP Management Plan.
3. Gender Audit/Gender Policy and Institutional Strengthening of ECG.
  - Facilitation of the partnership between ECG and USAID's Engendering Utilities Program was completed.
  - Gender Sensitization Training sessions conducted for ECG Director, Corporate Affairs.
  - Results of Learning Needs Analysis shared with the ECG GSI Team and Director, Corporate Affairs
  - Commenced coaching for ECG GSI Manager.
  - Executives of the ECG Female Employee Associations: the Power Queen Club and ECG WinE developed Road Maps for the change they want to see in their Associations and ECG.
4. Internship and Mentoring Program
  - 102 GPCIMP Alumni and National Service Personnel serving in the Energy Sector participated in a virtual Mentorship Program on March 8 -19. They were equipped with the following:
    - Applying for jobs, including CV preparation, job search tools, creation of LinkedIn profiles, Cover Letters and Interview Questions, among others; and
    - Steps to take to be successful Entrepreneurs.
5. Gender and Energy Working Group (GEWG)
  - Organized a Gender and Energy Working Group Meeting in February.
  - Celebrated International Women's Day 2021 under the theme #ChooseToChallenge with Photos and Campaign Messages on Social Media platforms.

## 2.3 MONITORING AND EVALUATION

The following Monitoring and Evaluation (M&E) activities were carried out during the period January-March 2021.

1. M&E Plan
  - Identified sections of the approved M&E Plan (Version IV, September 2020) that will undergo final revision in line with changes in Compact activities and sub-activities.
2. Post-Compact M&E Plan
  - Initiated the process to meet the Chief of Staff at the Office of the President, to discuss the choice of the National Development Planning Commission (NDPC) as the GoG designated entity to manage the implementation of the Post Compact M&E Plan.
  - Informed NDPC M&E Directorate of MiDA's intent to informally engage them, beginning May 2021, in the Performance Reporting process of the Compact to MCC and other Stakeholders.
3. Data Quality Audit
  - Trained 146 Staff Members (including 18 Females) of ECG, Energy Commission, Ministry of Energy and GRIDCo, in Monitoring and Evaluation to enhance the overall M&E capacity and improve the quality of data and reporting along the data flow hierarchy. The Training, which took place from February 22 to March 22, 2021, targeted Field Staff who are involved in Data Capture and Transmission, Managers who aggregate the Data and report on Performance, and General Managers and Directors with responsibility for performance of the respective Directorates/Units they head.
  - Completed the Final Round of Data Quality Audit on March 30, 2021.
4. Process Evaluation
  - Following the completion of the Mid-Term Evaluation of the Compact in the Third Quarter of 2020, MiDA approved the Inception Report for the End-Term Evaluation of the Compact on January 29, 2021.
  - The Consultant commenced the Data Collection and Analysis Phase of the contract in February 2021.
5. Performance and Impact Evaluations
  - Impact Evaluation of Technical Loss Activity of EFOT Project
    - With the possibility of Compact Extension due to the impact of COVID-19 on completion timelines, discussions between MCC, MiDA and the GridWatch Consultant, University of California Berkeley (UCB) began on the potential extension of the GridWatch Contract to continue with the deployment of the PowerWatch Devices.
    -
  - Impact Evaluation of the Overall Compact
    - Completed the listing of 9,303 Households and 41,850 Enterprises from 86 Household Enumeration Areas (H-EAs) and 346 Enterprise Enumeration

Areas (E-EAs) respectively on January 21, 2021. The results were used for the creation of the Sampling Frame for the selection of Households and Enterprises to include in the sample to be interviewed.

- Completed Training of Supervisors for the Computer-Assisted Telephone Interviews (CATI) and the Pretesting of the Household and Enterprise Survey Instruments on January 15, 2021.
- Completed the main Training for the Household and Enterprise Survey (via CATI) on January 25, 2021.
- Completed 2,868 Interviews (459 Households and 2,409 Enterprises) under the Household and Enterprise Survey from February 3 to March 12, 2021.
- The Consultant submitted and MiDA approved (per the advice of the Independent Evaluator, Mathematica) the Data Cleaning Plan.

## 6. Reporting of Results

- Indicator Tracking Table (ITT) and Narrative Report
  - Submitted the ITT on results for Compact Qtr. 18 (October-December 2020) and the Explanatory Notes for Compact Qtr. 19 (January-March, 2021) to MCC on March 10, 2021, as part of the Disbursement Request Package for Compact Qtr. 20 (April-June 2021).

## 2.4 COMMUNICATIONS AND OUTREACH

### 2.4.1 Communication Strategy

The Communication and Outreach Activities for the Quarter were informed by the MiDA Board's approved Communication and Outreach Strategy. The impact of the COVID-19 pandemic continued to hinder the implementation of communication activities as envisaged prior to the onset of the pandemic. Restrictions on large public gatherings and physical engagements have forced the Unit to limit interaction while adapting virtual tools to perform most of the communication activities.

The following provides an update on the implementation of the planned activities in the Compact II Communication Strategy for the period January to March, 2021.

## 2.4.2 Implementation of Activities

The activities are categorized under the strategies underpinning the Communication Plan.

1. Showcase Compact II Solutions:
  - a. Developed an Infographic and Factsheet to update Stakeholders on the LV Bifurcation and Geographic Information Systems (GIS) Sub-Activities respectively. These communication materials were widely circulated to the Media and Stakeholders.
  - b. Developed and disseminated three Press Releases to announce the commencement of LV Bifurcation Project Works in ECG's Kwabenya District, arrival of three Power Transformers for the Kasoa BSP and the completion of the Air Condition Test Laboratory Containment Building at GSA. The release on the Containment Building was published along with audio and video clips.
2. Strengthen the Compact II Brand
  - Developed Information Signage for the LV Bifurcation Works in Kwabenya.
  - Supported this year's International Women's Day Celebrations by developing Messages and Visuals communicating the Compact's contributions towards the commemorative theme, #ChooseToChallenge.
3. Improve Stakeholder Relations:
  - Participated in the Stakeholder Engagement Meeting between MiDA, the Contractor, the Program Management Consultant (SMEC) and the Ga East Municipal Assembly on the planned interventions to upgrade the Electricity Network in ECG's Kwabenya District.
4. Other activities
  - Developed top line Compact Close messaging to ensure that there is message alignment among Stakeholders and Spokespersons communicating before and during Compact Closure activities.
5. Summary of Media Activities
  - In the First Quarter of 2021, 15 Media mentions were recorded across all platforms.
  - The Quarter recorded no significant rise in Website visits, with an average of 967 MiDA Website Visits. This is even below the monthly average increment of 1,568.

## **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. This affected the travel plans of Key Staff of Works Contract and Consultancy Firms. Factory Acceptance Tests (FAT) were delayed or deferred in some cases, resulting in delays to the delivery of Materials and Equipment.

### **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 continued to delay 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. In addition to the COVID-19, integration of the system with Third Parties not contracted to MiDA caused further delays.

##### *PSS and ICC*

- Travel restrictions and Lockdowns as a result of the COVID-19 pandemic and Relocation of Ghana Water Company Limited (GWCL) Pipeline & MV Cables at the Kanda Substation Site. Unforeseeable physical conditions caused delays to work and delivery of Equipment and Material to site on the Primary Substations and Interconnecting Circuits.

##### *Pokuase BSP and ICC*

- Defects on two (2) Transformers (GRIDCo side) detected during the Site Acceptance Tests (SATs) are being carefully managed by various Stakeholders to ensure minimum impact on implementation. The Engineer is yet to have a final determination, pending receipt of Investigation Reports and Proposals from the Contractor.
- The finalisation of Stakeholder engagements with respect to Power Outages on 330kV transmission line required for energisation, is work-in-progress. Managing the communication with the public by GRIDCo and ECG is critical due to the expected Outages.

##### *Kasoa BSP and ICC*

- Due to the COVID-19 pandemic, and the travel ban imposed by countries, the offshore Training planned to be organized for GRIDCo and ECG Staff could not take place. Siemens Energy was requested to come up with alternative Proposals for the Training but this was still outstanding at the end of March 2021.

- The reported poor performance of Siemens Energy's Subcontractor for Civil Works, Micheletti, continues to pose a challenge to timely delivery. Majority of the Civil Works milestones were delivered beyond the agreed timelines. As at the end of March 2021, delivery of the GRIDCo Control Building and the HV Gallery Works packages continued to be on the critical path.
- One of the Containers of the 161kV GIS crashed into an overhead bridge en route from the Tema Port to the Site on March 19, 2021. An assessment was conducted and the Equipment was found to be badly damaged, therefore necessitating an order to be placed for a new one. This is expected to be delivered to Site by December 2021. Even though the Substation could be commissioned prior to delivery of the replacement Equipment, the potential time and cost impact on the final commissioning of the station could be significant.

### *LV Bifurcation*

- Dansoman & Kaneshie Work Order:
  - The works in these districts have been particularly hampered by extensive RAP related issues. There is slow pace of Pole retirement and reconductoring Works due to the inaccessibility to the Pole locations. A considerable number of Poles in Dansoman District are located in the bedroom, washroom, living room, and other property of PAPs.
  - Restrictions on planned Power Outages by ECG delayed the reconductoring, commissioning and other activities that require Outages. MiDA and its stakeholders are working to ensure that the activities are completed by the end of April 2021.
  - Delays by Telcos to remove their Overhead Infrastructure to allow for Overhead line stringing and retiring works by the Contractor. This delayed the progress of work.
- Kwabenya West
  - The delivery of several items, including Wood Poles, Surge Arresters, Drop-out Fuses, Insulators, Cross-arms, Stays & Overhead Line hardware and 120AAC are behind schedule due to delays in shipment and impact of COVID-19 pandemic at the Manufacturers' countries.
  - Increased Container cost of over 300% as a result of global shortage has become a major challenge to the Contractors and caused a delay to the work.
- Kwabenya East
  - Delay in the placement of orders and manufacturing of 120AAC Conductor as a result of increase in the world market price for Aluminum, which has ultimately affected the cost of manufacturing, has delayed delivery.
  - Increased Container cost of over 300% as a result of global shortage has become a major challenge to the Contractors and caused a delay to the work.
- Institutionalizing Gender responsiveness in ECG
  - COVID-19 restrictions have prevented many of the Energy Sector organizations from offering placements for the Interns to get practical experience.



- Access Project
  - The sample Energy Meter did not meet the Compact-funded ECG's Meter Management System (MMS) requirements following testing by ECG and Siemens, the MMS Contractor. The Manufacturer/Supplier was working to resolve the issues and submit an upgraded sample Meter for a second Test. At the same time, Technical and Commercial Offers were being requested from alternative Manufacturers /Suppliers as part of a back-up Plan.
  - Due to COVID-19 and other challenges, the delivery of some Equipment and materials has delayed, thus affecting the implementation schedule. In view of this, the Contractor would be required to deploy adequate number of Staff, execute the work in all Markets concurrently, and undertake majority of the work at night and outside business hours.

### **3.2.2 Generation Projects Challenges**

The challenges faced were as follows.

#### RSCB Project

- The Partnership Exchange under the RPP resumed but was conducted in virtual mode.

#### EEDSM Project

- Additional Street Lighting materials, including Underground Cables, 3-Phase Control Cubicles, Cable-laying Accessories, Energy Meters, Circuit Breakers, Feeding Cables, Cable Terminations and Lugs, are needed to replace the damaged ones.
- Most of the Consultancy Services activities had to be held virtually.

### **3.2.3 Cross-Cutting Projects**

#### Communications and Outreach

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

### **3.2.4 Possible Extension to the Compact Period**

There are ongoing discussions with MCC for the possible extension of the Compact period to complete specific infrastructure activities that were significantly impacted by the COVID-19 related restrictions.

## **PART FOUR: FORWARD LOOK**

The following have been planned for completion in the next Quarter, April-June, 2021.

### **4.1 ECG FINANCIAL AND OPERATIONAL TURNAROUND PROJECT**

#### **Modernizing Utility Operations Activity**

Geographic Information System (GIS)

- Commission and hand over to ECG by May 2021.
- Maintenance the System until Compact End Date.
- Roll out the System within the ECG Districts.

#### **Technical Loss Reduction Activity**

PSS and ICC

- Complete Control Building and Cable Trenches for Kanda and Legon Primary Substations.
- Continue Construction Works for Interconnecting and Offloading Circuits.
- Continue manufacturing, and delivery of Materials and Equipment.

Pokuase BSP & ICC

- Complete Cable Works for the ICC.
- Complete Site Acceptance Test (SAT) for the remaining major Plant and Equipment.
- Connect 330 kV Transmission Lines to the BSP.
- Complete External Drainage, Road Works and Landscaping.
- Commission and energize the BSP.
- Complete and hand over.

Kasoa BSP and ICC

- Complete all Engineering Designs.
- Complete the following Civil Works packages:
  - ECG Control Building
  - GRIDCo Control Building
  - STATCOM Foundations
  - Gantry Foundations
  - MV Equipment Foundations
  - Cable Trenches
  - Drainage Works
  - Underground Pipes
  - HV Gallery Works
  - Road Network
  - Fence Wall
  - 161kV Overhead Line
- Continue with Erection and Installation Works.
- Commence testing and commissioning of installations.
- Conduct Training for GRIDCo and ECG Staff.

## LV Bifurcation and Network Improvement

### *Achimota*

- Manage Defect Liability Period (to end on July 1, 2021).

### *Mampong*

- Manage Defect Liability Period (to end on 1, July 2021).

### *Dansoman & Kaneshie*

- Complete Construction activities.
- Hand over completed works to ECG.
- Complete As-built Drawings, Operations and Maintenance Manuals and Training of ECG Personnel.
- Issue the Completion Certificate to the Contractor.
- Commence Defect Liability Period.

### *Kwabanya West*

- Procurement, Transportation and Delivery of Materials and Equipment
  - Wood poles
  - Transformers
  - Surge Arresters, Drop-out Fuses, Insulators, Cross-arms, Stays and Overhead Line Hardware
  - 120AAC
  - LV Cables and bare Copper Conductor.
- Carry out the following Construction activities
  - Pole planting
  - Stringing of Overhead Line
  - Installation of Transformers, LV DPs and Substation accessories
  - Pole retirement
  - Retirement of undersized Conductors (50sq.mm AAC).

### *Kwabanya East*

- Procurement, Transportation and Delivery of Materials and Equipment
  - LV Cables
  - 120AAC Conductor and Earth Copper Conductor
  - LV DPs.
- Construction:
  - Pole planting
  - Stringing of Overhead Line
  - Installation of Transformers, LV DPs and Substation accessories
  - Pole retirement
  - Retirement of undersized Conductors (50sq.mm AAC).

## **Commercial Loss Reduction**

### Implementation of a Meter Management System (MMS)

- Complete the System Pilot by May 2021

- Go-Live of the System in May 2021
- Maintain the System until Compact End Date.

## **4.2 REGULATORY STRENGTHENING AND CAPACITY BUILDING PROJECT**

- Continue the following activities in a virtual mode:
  - Remote Partnership Exchange on Key Considerations for Wholesale Electricity Market Design.
  - Remote Technical Training on the implementation of the Fichtner Tariff Model.
  - Remote Regulatory Training Program (to replace World Bank/PURC International Regulatory Training Program).
  - Remote Partnership Exchange on Technical Performance and Quality of Service.

## **4.3 ACCESS PROJECT**

- Commence Pole planting in selected Markets and Economic Enclaves.
- Resolve issues with Energy Meters and place a firm Order for manufacturing and supply.
- Complete the Information campaign on the Internal Wiring
- Collect Data on Vendors undertaking/completed Remedial Works to correct sub-standard Internal Wiring.

## **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 and the Minister of Energy to submit drafted LIs on Electrical Products to the Parliamentary Subsidiary Legislation Committee (PSLC).
- Liaise with the Energy Commission Board and AG's Department to complete the review of Lot 4 Products (Blender, Electric Water Heater, Rice Cooker and Kettle) for onward submission to the PSCL.
- Complete the drafting of LIs on Standards for the Lot 4 Electrical Products (Blender, Electric Water Heater, Rice Cooker and Kettle).
- Commission the AC Test Laboratory Containment Building.
- Continue the installation of the AC Test Lab Equipment.

### Improved Energy Auditing

- SESCOs conduct Energy Audit Pilots and prepare various Reports, such as Walk-Through Audits, Investment Grade Energy Audits, Implementation Plans, M&V Plans, Financial Plans and Tender Documents, under the guidance of the Consultant.
- Inaugurate the three (3) Sustainable Energy Services Centers (SESCs).

### Education and Public Information

- Continue the monitoring and use of the Energy Efficiency and Conservation Curriculum materials in the thirty (30) selected Pilot Schools.
- Continue the organization of Energy Efficiency and Conservation Project Festivals and Fairs in the 30 selected Pilot Schools.

### DSM Activity

- Continue with the Works Phase of the Street Lighting Replacement Works.

#### **4.5 ENVIRONMENT AND SOCIAL PROTECTION**

- Continue to develop and implement RAP to relocate PAPs at the Kasoa 161 kV to allow access by the Contractor.
- Monitor implementation of HSE issues of Infrastructure activities, including COVID-19 Risk Mitigation measures.
- Monitor construction of the Block of Flats at Kanda to ensure timely completion.

#### **4.6 GENDER AND SOCIAL INCLUSION**

- Continue monitoring SGIAP implementation.
- Continue support to all Projects and Cross-Cutting Activities to ensure compliance with all GSI requirements.
- Gender Working Group Meeting in May.

#### **4.7 MONITORING AND EVALUATION AND ECONOMICS**

- Complete the End-Term Evaluation Consultancy - obtain Data Collection and Analysis Report, and the End-Term Evaluation Report.
- Deploy GridWatch Devices for further measurement of power Outages, Frequencies, and Voltage levels in real-time in Districts within ECG Accra region.
- MCC/MiDA to approve the Revised COVID-19 Mitigation Plan to allow the GridWatch Consultant, UC-Berkeley, to conduct Training on the GridWatch Technology.
- Train Regulators (Energy Commission and PURC) and Utilities (ECG and NEDCo) on the use of GridWatch Technology for real-time measurements of electricity quality (i.e. voltage level and frequency) and reliability (i.e. SAIDI and SAIFI).
- Complete and close the Household and Enterprise Survey Contract – obtain the Final versions of the Data Collection Completion Report and the Memo on the Cleaned Dataset delivered to Mathematica, the Independent Evaluator.
- Continue engagements with NDPC and MCC on the Post-Compact M&E Plan.
- Prepare and submit Compact Qtr. 19 ITT and Qtr. 20 Narrative Report to MCC, as part of the Qtr. 21 Disbursement Request Package.
- Participate in Lessons Learned Workshops by the Project Implementation Unit (PIU) and guide the design and development of framework for the Compact Completion Report.

#### **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

- Produce 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
- Planning and hosting Project close and Commissioning event

#### 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
- Carry out Stakeholder Engagements and Outreach.

#### 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 the implementation of activities, with the observation of the necessary protocols contained in the COVID-19 Risk Mitigation Plans that are in place for all contracts.

In spite of the steady progress, some activities face completion risks, and are not likely to be completed within the Compact period.

### **5.2 RECOMMENDATIONS**

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

1. Notwithstanding the ongoing discussions with MCC on the possible extension of the Compact period to allow for the completion of all the planned Activities, there is the need to plan towards GoG providing funding for Infrastructure works that may not be completed, as a back-up strategy.
2. 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 1 <sup>st</sup> Quarter of 2021	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 95%. Operational Acceptance Tests were performed and the Operational Acceptance Certificate for the System was issued on March 30, 2021.	GIS-based distribution management system in place	GIS Consultant's Report	None- Activity on track	
		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	- 180 qualified students have their capacities enhanced - 217 females have been selected for the Mentoring Program. - As a result of COVID-19 there will be no internship placements 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 (100%), Kaneshie & Dansoman (97%) and Mampong (100%). Kwabenya West (31%), Kwabenya East (15%)	Kilometers of distribution lines upgraded or built	EFOT Project Report	None- Activity on track	
		0 (2016)	0	Kanda and UGTH Primary Substations (PSS) works are 71% complete  BSP Works are steadily progressing.	Distribution substation capacity added	EFOT Project Report	None- Activity on track	



Programmes & Sub-Programmes	Activities (Operations)	Baseline	Targets for the 1 <sup>st</sup> Quarter of 2021	Actual Results	Output Indicators	Means of Verification	Challenges	Mitigation Measures
		0 (2016)	0	The Pokuase BSP project is 95% complete while the Kasoa BSP has an overall progress of 57%.	Number of Bulk supply points (BSPs)	EFOT Project Report	None- Activity on track	
		0 (2016)	0	Kanda and UGTH Primary Substations Interconnecting circuits has achieved an overall progress completion status of 88% while the Pokuase BSP Sub-Transmission-ICC works has an overall progress completion status of 97%	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 98% complete. Pilot has started from 18th January - April 2021.	A standard Meter management system in place	EFOT Project Report	Meter integration challenges persist as very few meters of ECG current population are found to be compliant with MMS.	The Contractor, Siemens is working with ECG to ensure sufficient meters are deployed in PILOT and system is thoroughly proven
	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	N/A	43 (13 Females) from EC, PURC, ECG, NEDCo, VRA and IPPs trained	Number of training participants	Regulatory Program Partnership Report	COVID-19 pandemic has delayed the planned Training.	
Access Project: Infrastructure Activity		0	N/A	Transformers of capacity 200 kVA each arrived at the Tema Port.	Transformer capacity installed	Supervision Consultant's Periodic Reports	None- Activity on track	
		0	N/A	Secondary LV ABC cables and Conductors arrived at the Tema Ports	Length of secondary LV ABC cables installed	Supervision Consultant's Periodic Reports	None- Activity on track	

Programmes & Sub-Programmes	Activities (Operations)	Baseline	Targets for the 1 <sup>st</sup> Quarter of 2021	Actual Results	Output Indicators	Means of Verification	Challenges	Mitigation Measures
		0	N/A	Poles shipped from Chile but in transit to Ghana.	Number of pole mounted prepayment meters	Supervision Consultant's Periodic Reports	None- Activity on track	
		0	N/A	Security Lighting fixtures cleared and stored at the contractor's warehouse.	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)	<ul style="list-style-type: none"> <li>•Customer Census in 10 M&amp;EEs completed.</li> <li>•Customer Information and Outreach Programme (CIOP) completed.</li> </ul> Inspection of internal wiring of stores and stalls in 10 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	Sub-activity scrapped from Compact.	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	21	Number of products with standards developed	Project Report	None- Activity on track	
		0	15	16	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)	1	<ul style="list-style-type: none"> <li>•AC Test Laboratory Containment Building about 98% complete. A dedicated 500 kVA Transformer installed for the AC Test facility.</li> </ul>	Number of appliance test labs established	Project Report	None- Activity on track	

Programmes & Sub-Programmes	Activities (Operations)	Baseline	Targets for the 1 <sup>st</sup> Quarter of 2021	Actual Results	Output Indicators	Means of Verification	Challenges	Mitigation Measures
				•AC Test Laboratory Equipment delivered at GSA premises.				
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	26 (8 more faculties trained as a result of the inclusion of one additional Tertiary Institution to host the SESC)	Number of SESCOs trainers trained in energy auditing	Project Report	None- Activity on track	
		0	N/A	<ul style="list-style-type: none"> <li>•Faculty for the three (3) host Tertiary Institutions trained,</li> <li>•A generic Business Plan and Operations Manual for each participating Tertiary Institution to adapt to their specific needs prepared.</li> <li>•The three (3) Institutions completed successful in-person Training in two (2) Sustainable Energy Courses, with observation and feedback from the Consultant.</li> </ul> Energy audit instruments for the three (3) Tertiary Institutions procured.	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	84	89	Number of teachers trained on energy efficiency and conservation curriculum	Project Report	None- Activity on track	

<b>Programmes &amp; Sub-Programmes</b>	<b>Activities (Operations)</b>	<b>Baseline</b>	<b>Targets for the 1<sup>st</sup> Quarter of 2021</b>	<b>Actual Results</b>	<b>Output Indicators</b>	<b>Means of Verification</b>	<b>Challenges</b>	<b>Mitigation Measures</b>
		0 (2016)	9,575	8,744	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	2,575	Number of poles constructed	Project Report	None- Activity on track	
		0	14,558	11,956	Number of LED lights installed	Project Report	None- Activity on track	