GHANA POWER COMPACT

Inauguration

POKUASE BULK SUPPLY POINT (BSP)

Date: Wednesday October 20, 2021

Venue: BSP Site, Pokuase

GHANA-USA COOPERATION

Collaborating to reduce Poverty through Economic Growth

Millennium Development Authority
MiDA
GHANA

MILLENNIUM CHALLENGE ACCOUNT
MCA
GHANA PROGRAM

MILLENNIUM
CHALLENGE CORPORATION
UNITED STATES OF AMERICA

PROGRAMME

9-9.45	Guests Arrive	
9.45	Arrival of H.E. the President	- State Protocol/Office of the President
9.50	National Anthem	- Ghana Police Band
10.00	Opening Prayer & Traditional Libation	- Rev. Minister / Chief Linguist
10.05	Welcome Address	- MiDA Board Chairperson
10.15	Statement by GRIDCo	- GRIDCo Board Chairman
10.20	Statement by ECG	- ECG Board Chairman
10.25	Statement by Minister for Energy	- Hon. Dr. Matthew Opoku Prempeh, MP
10.35	Statement by US Government Representative	- H.E. Stephanie S. Sullivan, US Ambassador to Ghana
10.40	Keynote Address	- H.E. Nana Addo Dankwa Akufo-Addo President of the Republic of Ghana
11.00	Vote of Thanks	- Hon. Moses Anim, MP Trobu Constituency
11.05	Closing Prayer	- Muslim Prayer
11.10	National Anthem	- Ghana Police Band
11.15	Ceremonial Inauguration	- H.E. The President
	Photography	
11.30	Tour of Substation	- Explanations by ECG and GRIDCo
12.00	Departures	

POKUASE BULK SUPPLY POINT (BSP) SUBSTATION

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

The Pokuase BSP, with a total capacity of 580MVA, is the largest BSP in Ghana. It is also the fifth BSP in Accra. Constructed under the existing 330kV Aboadze-Volta-Lomé Transmission line, the BSP is the first 330kV BSP in the capital and the most technologically advanced substation in Ghana.

Elecnor S.A., a Spanish Company with global presence, won the design-build contract to construct the substation in February 2019. By May 31, 2021, the company had completed and energized the Substation, despite the ravages of the COVID-19 pandemic.

The Contract for the construction of the 33kV sub-transmission lines to evacuate power from the Pokuase BSP into the electric distribution network, was awarded to Best and Crompton Engineering Ghana Ltd. Best and Crompton Engineering completed its task within 18 months, erecting new sets of Quadruple Circuit steel lattice towers to move power from the Pokuase BSP to ECG's Primary Substation sin Ofankor, Kwabenya, and Nsawam.

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

Complex Projects, such as the Ghana Power Compact Program, and more specifically the Pokuase BSP, require the services of an Engineering Consultant to design the infra-

Hon. Akosua Frema Osei-Opare, Chief of Staff & Prof. Yaa Ntiamoa-Baidu, MiDA Board Chair breaking the ground at the sod-cutting ceremony with US Ambassador Stephanie Sullivan

structure, supervise construction activities, and administer the Contracts. SMEC International, a leading multi-disciplinary Consulting firm, was awarded the contract for this role.

Siting of the BSP in Pokuase was informed by the rapidly increasing demand for electricity from the northern parts of the Capital, Accra.

The purpose of the Substation is to improve power supply quality and reliability to the over 350,000 electricity consumers who live in the Pokuase, Nsawam, Achimota, Anyaa, Sowutuom, Kwabenya, Ashongman, Legon, Haatso, Agbogba, Adenta, and Aburi communities.

The infrastructure will also help to significantly reduce technical losses in the Ghana Grid Company's (GRIDCo) transmission system and the ECG electric distribution system, ultimately contributing to improving the financial viability of the Utilities.

Some 240 people, with more than 15% being female, were employed directly by the Contractors and various Subcontractors who worked on the BSP. Several of these workers were residents of the Pokuase Community.

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

Aerial view of BSP


Gantries

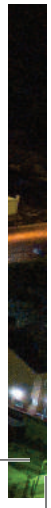

ECG Control Building


GRIDCo Control Building


Switchgear


Transformers


Energized BSP



The Millennium Development Authority (MiDA) is a Body Corporate established by the Government of Ghana through an Act of Parliament (Act 702,709, & 897 as amended) in March 2006. MiDA was established to oversee, manage and implement the Programs under the Millennium Challenge Account (MCA) for poverty reduction through economic growth, as set out in each Agreement between the Government of Ghana and the Millennium Challenge Corporation (MCC), acting for and on behalf of the Government of the United States of America and for any other national development Programs of a similar nature funded by the Government of Ghana, a development Partner or both and to provide for related matters.

Between 2007 and 2012, MiDA implemented the first Millennium Challenge Compact Program (the Agricultural Transformation Compact) which sought to i) enhance the profitability of cultivation, services to agriculture and product handling in support of the expansion of commercial agriculture among smallholder farmers; ii) reduce transportation costs affecting agricultural commerce at Sub-regional and Regional levels and iii) strengthen the rural institutions that provide services complementary to and supportive of, agricultural and agri-business development.

Under this Second Compact Program, also known as the Power Compact, the US Government has provided to Ghana, US$316m as grant funds to enable MiDA to implement various Projects under the Program that will enhance the reliability of power to homes and businesses and improve the financial performance of the power sector in Ghana.

The Millennium Challenge Corporation (MCC) is an independent U.S foreign assistance agency with a singular mission – to reduce poverty through economic growth.

Created by the U.S Congress in January 2004, MCC forms partnerships with lower income and lower middle income countries that are committed to good governance, economic freedom, and investing in their citizens. MCC provides large-scale grants to partner countries, largely to improve the infrastructure and enabling environment for basic services – like access to electricity, water, roads, food security, land rights, and education – to help partner countries become more self-sufficient in meeting the needs of their people.

MCC requires partner countries to identify their priorities for achieving sustainable economic growth and poverty reduction and develop MCC program proposals in broad consultation with local stakeholders. When a country is awarded an MCC compact, it sets up a local accountable entity to manage and oversee all aspects of program implementation under the Millennium Challenge Account (MCA), with a firm commitment to producing results and evaluating the impact of its programs.

In Ghana, MCC is currently investing $316 million under the Ghana Power Compact to strengthen the southern power transmission and distribution network, invest in energy efficiency programs, and empower women in the power sector.

Electricity Company of Ghana (ECG) was incorporated in 1963 and became a limited liability company in February 1997. The company is owned by the Government of Ghana.

The enactment of the Electricity Corporation Decree 1967 (NLCD 125) and the repeal of the Electricity Act, established the Electricity Corporation of Ghana (ECG). For the next two decades, ECG remained the entity solely responsible for electricity supply and the distribution networks nationwide. In 1987, the Corporation's sphere of operation was limited to the Southern parts of Ghana, which also had the greater concentration of customers.

Ghana Grid Company Limited (GRIDCo) was incorporated in December 2006 to carry out the economic dispatching and transmission of electricity from facilities of wholesale suppliers (Independent Power Producers [IPPs] to bulk customers and distribution utilities in Ghana and West Africa.

GRIDCo has been licensed by the Energy Commission of Ghana to exclusively operate the National Interconnected Transmission System (NITS). The Company has operated and maintained the NITS since its operationalization in August 2008. GRIDCo was also mandated in 2013 to use the Company's assets to provide commercial telecommunication and related services with the excess capacity on its fibre optic network. The Government of Ghana is the sole shareholder of GRIDCo and is represented by the State Interests and Governance Authority (SIGA) in its dealings with GRIDCo. The Company currently transmits electricity to twenty-nine (29) Bulk Customers and Distribution Utilities from nine (9) Wholesale Suppliers, including the Volta River Authority (VRA).

SMEC International, a member of the Surbana Jurong Group, is one of the leading multi-disciplinary consultancies with Project Management expertise world-wide. Since 1970, SMEC has completed about 3,300 projects in over 87 countries, has a talent pool of over 6,000 people working within a global network of over 75 offices across Asia, Africa, Australia and North and South America.

SMEC provides specialized consulting in Sectors such as Power & Energy, Urban Regeneration & Development, Transport, Rural and Regional Development, Water, Environment, Mining and Industrial Development, Social and Institutional Development.

SMEC was recently adjudged the Project Management Excellence Consultant of the Year at the Ghana Project Management Excellence Awards 2021.

The Pokuase 330/33kV Bulk Supply Point (BSP) and associated Interconnecting Circuits Project supervised by SMEC, is the largest and most technologically advanced substation in Ghana.

ELECNOR is a Spanish Engineering Company with more than 60 years of experience and an annual turnover of more than EUR 2.5 billion. Currently the Company is established in 55 different countries and employs over 18,000 people.

The Company develops two lines of businesses which strengthen each other mutually: the execution of engineering, construction and infrastructure services projects as an Engineering, Procurement, Construction (EPC) contractor; and the development, financing, execution and management of energy infrastructural Projects, as a private investor (Public-Private-Partnership, concessions, Build-Operate-Transfer, Independent Power Producer and other similar structures).

The sectors in which the Company develops its activities are energy (generation, transmission and distribution), water treatment and sanitation, oil and gas, IT, aerospace, industrial installations, maintenance, construction and Railways.

ELECNOR's activities in Ghana commenced in the 1990s when the Company executed several electrification projects in the Northern Regions. In the past few years, ELECNOR's capacity and reputation has grown progressively, reaching a workforce of more than 200 Ghanaian professionals, and amongst major players in the Ghanaian energy sector.

BEST & CROMPTON ENGINEERING GHANA LTD

In 1975, two companies, Best & Company and Crompton Engineering merged in India and became known as Best & Crompton India Ltd.

In 1991, Best & Crompton India secured a World Bank Funded project in Ghana for the Rehabilitation and Extension of the Distribution Power System in Accra – Northwest.

The Company successfully executed the Project and consequently secured 6 additional World Bank Funded and 5 Japanese Grant Aid Projects for ECG and VRA, including a number of ECG funded Projects.

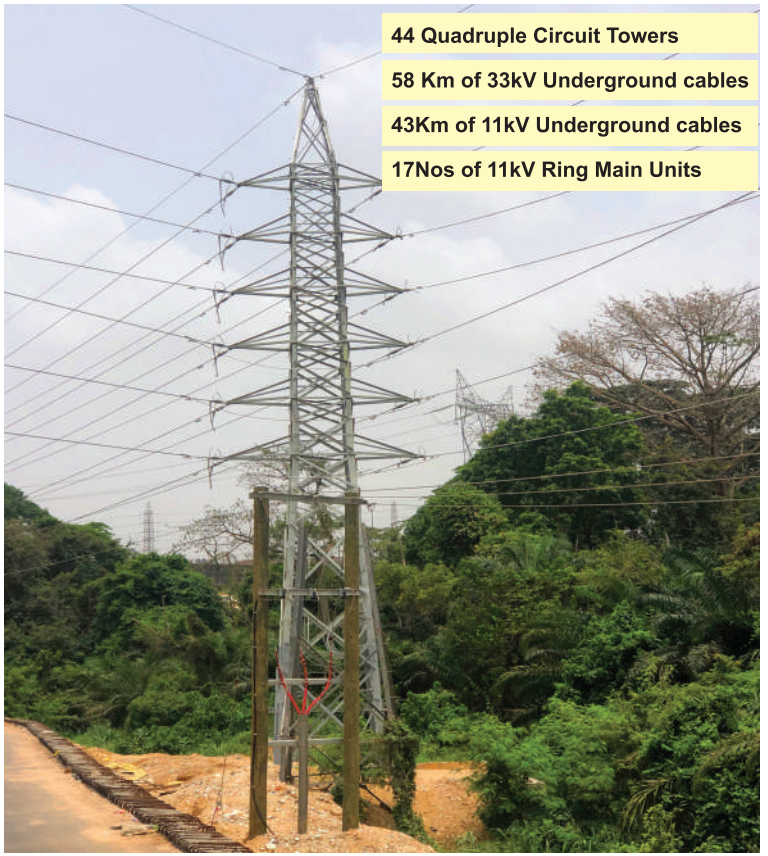
In 2006, Best & Crompton Engineering Ghana Ltd was incorporated, and became fully operational in Ghana.

In September 2019, Best & Crompton was awarded the Contract for the Design-Build of the Pokuase BSP Sub-transmission Interconnecting Circuits (ICC) by the Millennium Development Authority (MiDA).

The Project was successfully completed and energized in May 2021. The Quadruple Circuit Steel Lattice Towers constructed under this Contract is the first of its kind in the ECG Network.

POKUASE INTERCONNECTING CIRCUITS (ICC) PROJECT

The Interconnecting Circuits Project was designed together with the Pokuase Bulk Supply Point (BSP), to evacuate power from the BSP.



FACT SHEET

PROJECT: POKUASE BULK SUPPLY POINT (5TH BSP IN ACCRA) & INTERCONNECTING CIRCUITS

- Funding	: United States Government through the Millennium Challenge Corporation (MCC)
- Contractors	: Elecnor S.A. of Spain
	: Best & Crompton Engineering Ghana Ltd
- Project Engineer	: SMEC International Pty Ltd
- Contract Price	: US$ 64.72 million
- BSP Project Start Date	: March 5, 2019
- BSP Project End Date	: July 23, 2021
- Total Capacity	: 580MVA (Largest BSP in Ghana)
- No of electricity consumers immediately impacted	: 350,000
- No. of Staff Employed	: 240 Employees (90% Ghanaians of which 15% were female)
- Beneficiary Areas	: Pokuase, Nsawam, Achimota, Anyaa, Sowutuom, Kwabenya, Ashongman, Legon, Haatso, Agbogba, Adenta, Aburi.

Project Benefits

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


Danger
Electrical
equipment