



Issue no. 44

February 2020

NEWSLETTER

TRANSMISSION COMPANY OF NIGERIA (TCN)



- ★ **FG REAFFIRMS COMMITMENT TO DELIVER 30GW BY 2030**
- ★ **TCN COMMENCE RE-CONDUCTORING OF IKEJA WEST-OTTA TRANSMISSION LINE**
- ★ **ABUJA FEEDING SCHEME TO ENHANCE BULK POWER DELIVERY**
- ★ **TCN COLLABORATES WITH STATE GOVERNMENTS TO FACILITATE PROJECTS EXECUTION**

TCN COMMENCE RE-CONDUCTORING OF IKEJA WEST- OTTA TRANSMISSION LINES

...to increase bulk power delivery by above 200%

By Tosin Olashinde



Lagos State Commissioner for Energy and Mineral Resources, Engr Olalere Odusote, cutting the tape

The Transmission Company of Nigeria, TCN, has commenced the rehabilitation and reconductoring of Ikeja-West, Alimosho – Ogba, Alausa and Ogba – Otta 132kV Double Circuit Transmission Line with gap conductors on Thursday, 20th February 2020, at Ikeja-West Transmission Substation, Ayobo, Lagos. On completion the capacity of the line would increase from 200MW to 664MW.

The Managing Director/Chief Executive Officer, of Transmission Company of Nigeria (TCN), Mr. U.G Mohammed, made this known in his address during the Ground Breaking ceremony for the projects.

Mr. Mohammed said that the reconductoring exercise has become inevitable as the existing lines were built over 40 years ago and is currently limiting power transmission,

necessitating its upgrade by completely replacing the old lines on the line route.

According to him, the transmission line to be reconducted is capable of only 200MW and due to substations upgrade along its line route, the line has become unable to transmit the quantum of power from the substations, necessitating its upgrade. On completion of reconductoring, the line would be able to carry 664MW which is about 232% of the original capacity.

Mr. Mohammed explained that reconductoring the line would not only increase transmission capacity but also allow for more capacity expansion along the line route. He informed that similar work was being carried out across the country, noting that the execution of the Ikeja-West-Alausa and Ogba-Otta project will be completed in six months. Transmission lines re-conductoring is also taking place at other

locations in Lagos such as the Alagbon-Ikorodu-Maryland transmission line among others.

He further said that during the project execution, there are likely going to be outages along the network, but plans are underway to ameliorate the effects of the transmission lines reconductoring by feeding Ikeja Disco through another line for distribution to its customers.

While commenting on the challenges of Right of Way (RoW), Mr. Mohammed stated that RoW remains a big challenge in Lagos with several buildings under the transmission line. TCN, he said, is however partnering with the Lagos State government to solve the problem.

On his part, Abdulahmed Mustapha, Permanent Secretary, Ministry of Energy and Mineral Resources, Lagos State, stated that the state has dedicated a team to work actively with TCN in ensuring that all issues in respect of RoW are resolved. Land, he said, is scarce in Lagos State, but that the government is committed to working with TCN to actualize

the project.

He said that the Governor of Lagos State, Babajide Sanwo-Olu, has mandated them to have a round table meeting with TCN and holistically strategize on how to accomplish the project with the aim of bringing additional power to Lagos State. He noted that although Alimosho is in Ikeja axis, it is an important area to Lagos State. He therefore encouraged TCN to expedite action on the project.

The Chairman of Ikeja Electric, Kola Adesina, commended TCN for the upgrade exercise and other projects executed in its franchise area. He appealed to TCN to expedite work on the lines as customers are more interested in having electricity in their homes and offices than in the lines.

He pledged IKEDC's support to ensure the project is delivered on schedule since consumers will experience outages in the course of the project.



MD/CEO TCN, U. G Mohammed laying the foundation stone



FG REAFFIRMS COMMITMENT TO DELIVER 30GW BY 2030 UNDER ITS VISION 3030:30

By Kazah Bili Akau

The Federal Government has reaffirmed its commitment to deliver 30GigaWatts of electricity to Nigerians with at least 30 percent of it from renewable energy sources by the year 2030 under its "vision 3030:30".

The Minister of State, Power, Mr. Goddy Jedy-Agba, made this known during his address at the 11th International Conference on Energy, Power Systems Operation and Planning (ICEPSOP) Forum 2020 with the theme "Empowering Micro Grid with Smart Grid Attributes Development in United States and Africa" organised by the Nigerian Electricity Regulatory Commission (NERC).

Agba said he was pleased to note that the conference did not follow the usual path of finding faults and dwelling on the intractable problems of the power sector in Nigeria, but was aimed at generating home grown solutions to address the issues of accessible, reliable and affordable electricity to Nigerians.

The Minister also stated that several educational institutions are making efforts to provide their own electricity through renewable energy sources, especially solar, citing as

examples, Kano and Ife. This, he said, is a step in the right direction, and with the involvement of the younger generation, there is hope for a brighter future since home grown technological innovations are needed to address the challenges of the sector.

According to him "metering gap in the Nigerian Electricity system has continued to be a major challenge to efficient service delivery. On-going research by local manufacturers to offer smart meters presents hope that lack of suitable meters in our network will be a thing of the past".

He commended the initiative of the National Agency for Science and Engineering Infrastructure (NASEI) for mass producing smart meters for electricity consumers in the country.

Mr. Agba further urged NERC to ensure that decisions reached at the conference are implemented accordingly.

The Chairman, Nigerian Electricity Regulatory Commission (NERC) and host of the conference, Professor James A. Momoh, in his welcome address earlier, identified the concerns of Nigerians to include access to energy, availability,

reliability and quality of supply, lack of meters, system losses, infrastructure misalignment and affordability of cost-reflective tariffs.

According to him, "the conference will provide the required atmosphere to explore innovative regulatory approaches in promoting efficient and competitive service delivery involving deployment of smart and micro - grid technologies, access to adequate power, cost reflective tariffs, automation of review processes and enhancement in data analytics".

Prof. Momoh added that the conference would also provide new markets of willing buyer willing seller models, franchising, embedded generation , Mini -grids, Flexible and Secure Energy Sources as well as redesigned network structure comprising hybrid of networks, smart grid technology and distributed generation capabilities.

The Managing Director/CEO of the Transmission Company of Nigeria, Mr. Usman Gur Mohammed, who chaired the concluding session of the conference, lamented the single buyer model adopted by the Nigerian Electricity Market stating that "Our decision to adopt the single buyer model has led us to sink N1.5trillion in the power sector which has not increased a single megawatt. If something is not

done quickly, I'm assuring you that before the end of this administration, we are going to sink about 3 trillion and it will not add anything".

On the issue of integration of solar and other sources of renewable energy to the grid, Mr Mohammed explained that TCN is working towards integrating solar power with a grant from the European Union, and plans to construct a 330kv transmission line from Katsina to Guiwa through Daura, Kura and Jogana for the evacuation of solar energy from Guiwa Independent Power Plant (IPP).

He also advised that the procurement method used for the current 14 solar power generation companies should be changed to competitive procurement model so that Nigeria would be able to attract reasonable pricing which can be much less than the present charge of 7.5 cents per kilowatt hour.

The conference had experts and scholars from different parts of the country and the United States including Dr. Robin Podmore, IEEE Smart Village, USA, Moses Garuba, Associate Dean, College of Engineering and Architecture (CEA), Howard University and Prof. Ali Mehrizi-Sani, Virginia Polytechnic Institute and State University (Virginia Tech), VA, USA.



3rd from left, MD/CEO TCN, Mr. U. G Mohammed with other discussants at the conference

TCN SIGNS MoU WITH EKITI STATE GOVERNMENT

ON TRANSMISSION LINES AND SUBSTATIONS PROJECTS

By Ndidi Mbah

The Transmission Company of Nigeria (TCN) has signed a Memorandum of Understanding (MoU) with the Government of Ekiti State on the construction of the Ado Ekiti – Ilupeju and Ado Ekiti – Ijesha Ishu 132/33kV Transmission line and associated 2x60MVA 132/33kV substations at Ilupeju and Ijesha Ishu within the state. The MoU was signed on Tuesday, 25th February, 2020, in the office of the Deputy Governor of Ekiti State.

The state governor, Dr Kayode Fayemi, represented by his deputy, Otumba Bisi Egbeyemi, expressed delight that the MoU would result in new transmission lines as well as two new substations that would help ameliorate the poor electricity supply situation in the state. He stated that presently, the state has only one number 132kV transmission substation which is very inadequate for the state and expressed optimism that the projects when completed, would provide conducive environment for industrial development in Ekiti State.

He noted that his administration is deeply concerned about improving infrastructural projects, to help its citizens attain economic stability and ultimately revolutionize the state. He therefore urged TCN to look at the place of Ekiti State in its network with the view to improving TCN's presence and boosting bulk supply to the state, to enable the government achieve its five-cardinal program for its citizens.

The deputy governor assured that the state would create an enabling environment for TCN to effectively complete the project, noting that the people of the state have lost confidence in the power sector and that there is need for TCN to help build confidence again. He called on other stakeholders in the power sector to endeavor to upgrade their facilities and urged that they also develop a synergy among themselves to enable them ultimately provide better service to electricity consumers in the state.

Earlier, while welcoming the TCN team to Ekiti State, the Commissioner for Public Utilities, Hon. Dele Fagbanusi said that the MoU signifies physical attempt to reduce the perpetual low



(Right), Ekiti State Deputy Governor, Otumba Bisi Egbeyemi, signing the MoU on behalf of his State

power voltage and positively impact economic activities in the lives of the 82,300 electricity consumers within the 134 communities in the 16 Local Government Areas of the state.

According to him, the signing of the MoU is a result of the Governor's commitment to finding solution to the poor power situation in the state. The state, he explained, would take care of Right of Way for the transmission lines and provide land for the two substation projects, while TCN would procure all equipment, install and commission the projects. He appealed to TCN to complete the projects on time.

Speaking on behalf of the MD/CEO of TCN, Mr. UG Mohammed, the Head TSP-TCN, Engr. Victor Adewumi said that TCN wants to kick start the 132kV double circuit lines and the two substations projects at Ilupeju and Ijesha Ishu simultaneously.

He acknowledged that the singular 132kV transmission substation in the state was grossly

inadequate which is why TCN is collaborating with the state government to construct the two transmission lines and two substations. On completion of these projects, the voltage profile of electricity in the state would normalize. He noted that the collaboration with the state would ensure faster delivery of the projects which he said can be completed by the end of the second quarter of 2021.

The MoU specifically put the responsibility of providing the Right of Way (RoW) for the transmission project and the provision of land for the two substation projects on the Government of Ekiti State, while TCN would be responsible for procuring the equipment, all engineering works/installation and commissioning of the substations and lines.

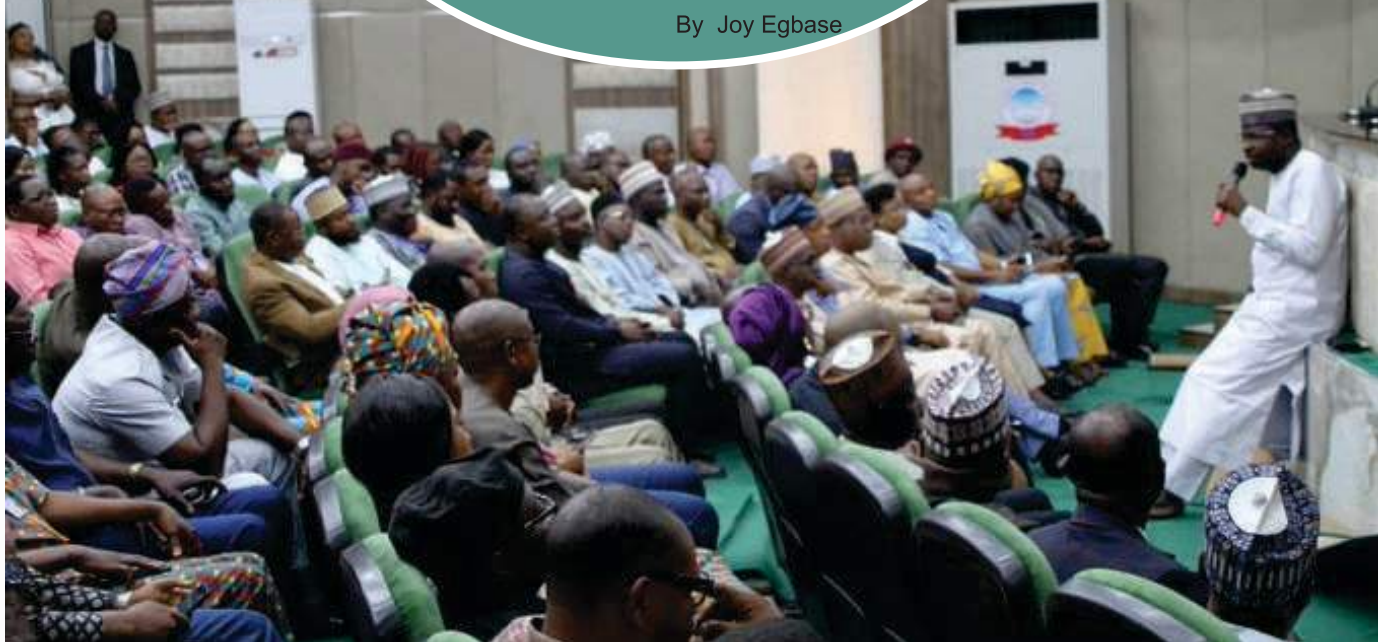
With the execution of the MoU between TCN and Ekiti government, TCN would now commence processes leading to contract award and execution.



Cross section of participants at the meeting

TCN MANAGEMENT CHARGES STAFF TO IMPROVE ON PERFORMANCE

By Joy Egbase



MD/CEO TCN, Mr. U. G Mohammed addressing staff at the town hall meeting

The Management of Transmission Company of Nigeria (TCN) has charged staff to strive to improve performance in order to further transform the company into an enviable one within the Nigeria Electricity Supply Industry (NESI).

The Managing Director/ Chief Executive Officer, Mr. Usman Gur Mohammed who gave the charge at the first Town Hall meeting with staff on Wednesday, 12th February 2020, in Abuja, urged them to make effort to be well grounded in their jobs and ensure they have a broad knowledge of the company's activities.

According to him, TCN staff need to work at further improving their performance to avoid the problem of having islands of experts. He said “one of the big problem we have is islands of experts”. He noted that if for instance a staff is an electrical engineer or PC&M engineer, he should be able to open a faulty power

transformer and be able to determine the problem and fix it.

Mr. Mohammed who warned against indolence by staff, assured that the management on their part are diligently pursuing the implementation of the Transmission Rehabilitation and Expansion Programme (TREP), across the country.

He said that success comes with hard-work, and encouraged staff to avoid mistakes that would destroy the good image of the organization.

On his part, Head, Transmission Service Provider (TSP), Engr Victor Adewumi, disclosed that all provision has been made for the training of staff to ensure that they are grounded in the knowledge of the sector, how it works and the practical implementation of diverse engineering works, noting that TCN is poised to ensure that they attain high level of productivity.

ABUJA FEEDING SCHEME TO ENHANCE BULK POWER DELIVERY

The Project Implementation Unit (PIU) of the Transmission Company of Nigeria (TCN) is undertaking the execution of Joint inspection of the sites for construction of the new 2x150MVA, 3x60MVA, 330/132/33kV Transmission Substation at New Apo (Pigba), and site of the new 2x60MVA, 132/33kV Transmission Substation, Wumba-Lokogoma in conjunction with the Project Consultant and representatives of the Donor Agency-AFD (Agence Francaise de Developpement), on Friday, 21st February 2020 in Abuja. The project when completed will increase bulk power delivery to FCT. In this interview, the Project Manager, for AFD funded project in TCN, Engr. Mrs. Jane Okemini, speaks on the impact and other issues with TCN transmission news Excerpts:

Question: What is Abuja feeding Scheme all about?

Abuja feeding scheme, a project financed by the French Development Agency is an entirely Green Field Project that will construct five new substations in Abuja and bring new supply route through Lafiya in Nasarawa State. This brings to three, the 330kV supply routes to Abuja; Ajaokuta, Shiroro and Lafiya. The new substations to be built in Abuja are 330kV substations in Apo and Lugbe and 132kV Substations in Lokogoma, Gwarinpa and Kuje.

Question: What is the impact of this project on the expansion of transmission Network within Abuja?

The project will add 5 number of transmission substations which include 2 number of 330/132/33kV substations, 3 number 132/33kV substations, 143KM of 330kV transmission lines respectively. As part of the effort geared towards increasing the transmission wheeling capacity in FCT, the project upon completion, will add approximately 1,380MVA of transmission capacity and 638MW energy to the grid. This will also Increase the network capacity, Improve network flexibility, and service delivery to Abuja Discos.

Question: What are the major steps involved in this project implementation?

In summary the processes are as follows;

- Engineering:** Route/Topographical surveys, geotechnical investigation, site clearing and Engineering designs.
- Procurement:** Placing of equipment orders, manufacturing of the equipment in line with the approved designs, factory acceptance test, shipping, custom clearing, Haulage and receipts at the various sites.
- Construction:** This include the electromechanical and civil works (Erection/installation). When all these activities

have been completed, then testing and commissioning of the project will be carried out after the project is closed.

We have completed the initiation, which is basically what we call the project identification processes, planning which involves all the studies that are carried out majorly the Environmental and social safeguards

- ESMP-Environment and Social Management Plan
- ESIA- Environment and Social Impact Assessment.
- RAP- Resettlement Action Plan.

We are presently on project execution, Monitoring/supervision.

Question: What are the challenges that you have experienced in this project and how did you mitigate all of them?

The major challenging factors have been the occasional environmental and social challenge that arise with the potential delay to the project. As such, any arising issue, we are able to revert to the existing agreement/processes to adequately resolve the concerns of the affected communities or persons.

We also ensure that the EPC contractors on the project complies with their submitted work schedules. This ensures that this is done on time. We supervise closely to ensure that work is actually done in line with reports submitted by the contractor.

Question: As the manager, what motivates you?

My primary motivation is the commitment and support of MD/CEO TCN and the management team for the successful delivery of the project. Also that this project will positively impact the socio economic life of the inhabitants of Abuja and its environs and by extension, Nigeria at large. This is certainly a thing of joy to me.



Project Manager, (AFD), Engr. Jane Okemini



30MVA Power Transformer in Egbin Transmission Substation, Lagos State



45MVA 132/33kV power transformer in Apapa 132/33kV Transmission Substation, Lagos State



60MVA 132/33kV power transformer in Gusau Transmission Substation, Zamfara State

TCN COMMISSIONS THREE NEW POWER TRANSFORMERS IN EGBIN, APAPA AND GUSAU SUBSTATIONS

TCN has again completed the installation and commissioning into service, three power transformers; a 30MVA, 45MVA and 45/60MVA transformers in Egbin, Apapa and Gusau Transmission Substations respectively. This brings to eight the number of power transformers commissioned this year.

In Egbin Substation, the additional 30MVA power transformer and one 33kV feeder increased the substation capacity from 300MVA at 330kV level alone, with an additional 30MVA at 132kV level. The installation was carried out wholly by TCN Engineers.

Following the planned rehabilitation of the Apapa Gas Insulated Substation (GIS) in Lagos, TCN engineers installed and energized a 45MVA 132/33kV power transformer in the substation. The transformer would provide alternative source of power supply to Ikeja Disco for consumers in Apapa and environs.

In Gusau, Zamfara State, TCN equally upgraded the substation's capacity from 60MVA to 120MVA with the installation of 60MVA 132/33kV power transformer. The new transformer was equally installed by TCN engineers and has increased bulk supply to Kaduna Electricity Distribution Company for consumers supplied from Gusau Substation.

While the transformers in Egbin and Gusau Transmission Substations were commissioned on the 23rd of January, the Apapa transformer was commissioned on the 24th of January 2020.

TCN is diligently implementing the rehabilitation and expansion of the nation's grid with the goal of ensuring a more robust and efficient transmission network. The Company is determined to ensure that all on-going transmission projects across the country under its Transmission Rehabilitation and Expansion Programme (TREP) are completed on time.



Perm. Sec, Federal Ministry of Power, Mrs. Didi Walson-Jack alongside MD/CEO TCN, U. G. Mohammed, addressing participants at the Reconciliation of Metering interface issues between TCN and international customers in TCN's Headquarters, Abuja.



The Management of TCN led by the MD/ CEO, U.G.Mohammad on courtesy visit to the President and Chairman of Council, Association of National Accountant of Nigeria (ANAN), Prof. Mohammed Mainoma



Joint inspection of the site for construction of new 2x150MVA, 3x60MVA, 330/132/33kV T/S at New Apo(Pigba), and 2x60MVA, 132/33kV T/S, Wumba-Lokogoma by TCN PIU team, Project Consultant and reps of Donor Agency-AFD(Agence Française de Développement)



TCN hosts the 1st Joint Generation, Distribution and Operations Sectors' Planning Meeting this year, at the National Control Center, Osogbo.

PIU RESPONSIBLE FOR MANAGEMENT OF WORLD BANK FUNDED PROJECTS IN TCN - DAHIRU

The Project Implementation Unit (PIU) under the Transmission Company of Nigeria (TCN), is presently undertaking various processes that would enable the effective implementation of World Bank funded transmission projects around the country.



Projects Manager (World Bank) TCN, Engr. Dahiru Isiaku,

By Stella Ejikonye

that will eventually execute these projects”.

According to him, these processes start from expression of interest for engineering services for consultants, pre-qualification of contractors who will be

The Projects Manager for World Bank projects in TCN, Engr. Dahiru Isiaku, who made this known during an interview in his office in Abuja said “our responsibility is to provide project contract management for those identified transmission projects. We have a project portfolio of about \$486m which is part of the \$1.661b donor fund available for TCN projects. The World Bank project includes 3 key transmission projects”.

According to him, the World Bank PIU's functions include; the rehabilitation & reconstruction of Transmission substations, reconductoring of transmission lines, and provision of Supervisory Control and Data Acquisition (SCADA) for the transmission network to ensure proper control and guarantee network stability.

He further explained that PIU has different credit facilities negotiated by the Federal Government. One ended in December, 2018 while the existing one, the Nigerian Electricity Transmission Access Project (NETAP), became effective in June, 2019. The PIU he said, operates under strict guidelines. Once projects are articulated, and agreed by TCN and the World Bank, the next step is to ensure procurement of our engineering consultancy services and eligible competent contractors

eligible to carry out these contracts, then request for bid for the qualified contractors that have been pre-qualified. The pre-qualified contractors now collect tender documents, complete them and submit. The submission, he noted, include both technical and financial bid for evaluation, according to World Bank guidelines. The submissions are then reviewed by the tender board and the most competent bidder awarded the contract for implementation.

Engr Dahiru further stated that the management of TCN is focused on having a functional SCADA system for effective and efficient monitoring of the grid system which the World Bank is funding. TCN management, he said, is extensively training personnel that would eventually operate the SCADA system when the project has been executed.

Engr. Dahiru noted that the World Bank projects under the Nigerian Electricity Transmission Access Project (NETAP) are Brown-field which has to do with rehabilitating and reinforcement of power equipment in existing transmission substations across the country. He added that the completion of these projects will increase the wheeling capacity of TCN to about 8,731MW, with additional 1.422km of transmission line projects.

TCN Collaborates with State Governments to Facilitate Projects Execution

The Transmission Rehabilitation and Expansion Programme (TREP), is a deliberate 4 year plan by TCN to systematically guide its planned expansion of the nation's grid. TREP is a part of TCN's 20 year least cost transmission expansion plan which aims at increasing transmission capacity to 20,000MW in 2023.

No doubt there are challenges in executing the projects especially for the lines, ranging from topography, vandalism, to issues of Right of Way (RoW).

Given the difficulties of securing RoW for the network expansion, TCN, under the current management commenced collaborations with the State Governments, to facilitate the acquisition of RoW for transmission and substation projects. Also, some of the collaborations are for specific investment expansion.

TCN has collaborated with Edo, Kaduna, Ogun, Lagos, Kano, Abia, Ondo, Kebbi, Katsina, Yobe, Borno and Ekiti State Governments. The collaboration basically is for the State Governments to provide the RoW for the projects while TCN provides all equipment and equally carries out the electromechanical work.

TCN is also working with several State Governments on Substation construction. The States include Bauchi, Akwa-Ibom, Kebbi and Delta States among others.

The company entered into collaboration with some States on specific investment expansion. These include Ekim Substation with Akwa Ibom State, Abakaliki – Amosan line with Ebonyi State, 132 line and substation with both Jigawa and Bauchi States, with Lagos state on connecting the Eko Atlantic City to National grid.

Some of the MoUs signed in the last 1½ years

are;

- MoU with Akwa Ibom State on the 27th July, 2018 for the construction of Ekim 2x60MVA 132/33kV Substation Project.
- MoU with Bauchi State on the 8th October, 2018 for the construction of Alkaleri 2x60MVA, 132/33kV Substation Project.
- MoU with Bauchi State on the 8th October, 2018 for the construction of Toro 2x60MVA, 132/33kV Substation project.
- MoU with Bauchi State on the 18th October 2018 for the construction of Jama'are 2x60MVA 132/33kV Substation project.
- MoU with Ebonyi State on the 1st July 2019 for the construction of Umuogghara 2x60MVA, 132/33kV Substation project.
- MoU with Anambra State on 23rd August 2019 for the construction of 13kV 40Km TRX line (Onitsha) – Oba – Nnewi and 132kV line Onitsha – Nibo – Agu – Awka – Oji River 132kV TRX line (The TRX line projects phase 1). The Construction of 132kV TRX line (Awka/Anambra – Aguleri, 132kV line (Amansea/Awka – Ekwulobia/Umuchu (Phase 2).
- MoU with Jigawa and Bauchi States on 5th February 2020 for the construction of 132kV DC TRX line (Azare – Misau – Gwaram – Birnin Kudu – Dutse) with turn in and turn out from Gwaram to Ningi and Substations at Birnin Kudu, Misau, Gwaram and Ningi (The TRX Project).
- MoU with Jigawa, Kastina and Kano states on 13th February 2020 for the construction of 132kV DC TRX line (Daura – Kazaure – Danbatta – Babura) and 2x 60 MVA, 132/33kV Substations at Kazaure and Babura, 2x60MVA 132/33kV Substation at Mashi with turn in and turn out from Katsina – Daura 132kV Transmission line at Mashi (The Transmission Project).

CIVIL SOCIETY GROUP BESTOWS OUTSTANDING AWARD ON TCN

By Maimuna Isah-Laden



(Left), the Regional Transmission Manager (RTM), Kaduna Region, Engr. Haruna Aminu, receiving the award on behalf of MD/CEO TCN

The Transmission Company of Nigeria TCN, has been bestowed with an outstanding performance Award from a Civil Society Organisation, Kaduna Youths for Good Governance (KYGG). The Award was presented to TCN for its efforts to stabilize the grid and improve electricity supply in the country, on Thursday, 13th February 2020, through its Kaduna Regional Office.

Making the presentation during a courtesy visit to TCN Regional Office, Kaduna, the Chairman of the group, Comrade Nuhu Sani Lere, said the KYGG is aware of the giant strides made by TCN in the past few years and decided to appreciate the management with the Award. He regretted that the impact made by TCN has not been felt by electricity consumers because of the dilapidated

state of the Nigerian electricity distribution systems.

Comrade Lere said the group is ready to cooperate with TCN to proffer solution to the electricity supply situation in Kaduna State.

Receiving the award on behalf of the MD/CEO TCN, the Regional Transmission Manager (RTM), Kaduna Region, Engr. Haruna Aminu, appreciated the efforts of the group and thanked them for the gesture. He listed the completed and on-going projects by TCN in Kaduna Region and noted that just like in Kaduna, TCN was executing projects all over the country.

He also informed the visitors that TCN has equally embarked on the massive training of its engineers within and outside the country, to empower and equip them with the right knowledge of the power sector.

Engr. Haruna appealed to them to assist TCN in sensitizing residents of the state on the dangers of building under transmission lines, as this poses serious threat to human life and to transmission installations.

He equally urged the group to sensitize host communities on the ills of vandalism especially as they are the ultimate beneficiaries of these facilities, adding that the fight against vandalism is a collective responsibility that can only be sustained through increased partnership.

The KYGG is a civil society group that has voluntarily organized developmental programmes in all 23 Local Government Areas of Kaduna State to ensure good governance and development throughout the state.



Group photograph of KYGG group and members of TCN staff, Kaduna Region

SEVEN TRANSFORMERS INSTALLED IN LESS THAN TWO MONTHS

TCN engineers have installed seven power transformers between January and February 15th, 2020 the transformers which vary from 40MW to 300MW were installed by TCN engineers and have all been connected to the national grid. The installation capacity and locations of the transformers are listed in the table below.

S/N	SUBSTATION	TRANSFORMERS AND THEIR CAPACITIES BEFORE NEW INSTALLATION	NEW TRANSFORMER CAPACITY	DISTRIBUTION COMPANIES SUPPLIED	MEGA WATTS ADDED TO THE GRID
1.	OGBA	2x60MVA 1x45MVA	100MVA 132/33kV	IKEJA DISCO	
2.	ASABA	1x150MVA 2x60MVA	300MVA 330/132kV	BEDC DISCO	120MW
3.	ETSAKO	1x40MVA	40MVA 132/33kV mobile transformer	BEDC DISCO	32MW
4.	AJA	3x150MVA 2x60MVA 1x100MVA	60MVA 132/33kV	EKO DISCO	48MW
5.	APAPA	2x45MVA	45MVA 132/33kV	EKO DISCO	38MW
6.	GUSAU		60MVA 132/33kV	KAEDCO DISCO	51MW
7.	EGBIN	2x150MVA 330/132/33kV	45MVA 132/33kV	IKEJA DISCO	38MW



TRANSMISSION COMPANY OF NIGERIA



We are
the **nexus** in the
Power Sector,
efficiently moving bulk
electricity from Generation
Companies (GenCos) to
Distribution Companies
(DisCos) nationwide

...transmitting electricity in the most efficient and effective manner

EDITORIAL TEAM

Publisher:

U. G. Mohammed

Editorial Advisers:

Engr. Victor Adewumi
Engr. Mamman Lawan

Editor in Chief:

Ndidi Mbah

Editor:

Engr. Kabiru Adamu
Mayowa Adewole

Correspondents:

Kazah-Akau Billi
Eric Ephraim Ene
Ejikonye Stella
Mary Philip-Udom
Joy Egbase
Omideji Oluwakayode

Gabriel Gandu

Grace Sambe-Jauro
Maimuna Isah-Laden

Graphics:

Uloma Osuagwu

Video/Photo:

Mojeed Olawuwo

Columnists:

Ismail Dalhatu
Seun Amoda