



ORDER/NERC/274/2021

**BEFORE THE NIGERIAN ELECTRICITY REGULATORY COMMISSION  
IN THE MATTER OF THE EXTRAORDINARY REVIEW OF MULTI-YEAR  
TARIFF ORDER FOR IKEJA ELECTRICITY DISTRIBUTION PLC**

**1.1. Title**

This regulatory instrument may be cited as NERC Order on Performance Improvement Plan (PIP) and Extraordinary Tariff Review Application for Ikeja Electricity Distribution Plc ("IKEDC").

**1.2. Commencement**

The approved PIP and Capital Expenditure ("CAPEX") programme of IKEDC shall take effect from 1<sup>st</sup> July 2021 and shall remain effective until 30<sup>th</sup> June 2026 unless amended by the Commission.

**1.3. Context**

IKEDC applied to the Commission in November 2019 for a review of the provisions for CAPEX in its Multi-Year Tariff Order ("MYTO") tariffs to support the implementation of its Performance Improvement Plan ("PIP") over the next 5 years. Under the Power Sector Recovery Program (PSRP), it is envisaged that the Commission would implement a robust tariff review process aiming at improving the performance of the Nigerian Electricity Supply Industry ("NESI"). This process involved a review of the capital expenditure allowances in the MYTO model for compliance with the Performance Improvement Plans (PIPs) of the Distribution Companies (DisCos). The approved PIP and Extraordinary Tariff Application shall form the basis for IKEDC to prioritise the implementation of the proposed CAPEX initiatives. The approved PIPs shall also form the basis for defining KPIs for IKEDC for the next 5 years by the Commission with emphasis on improvement in energy throughput and improving service delivery to the customers.

As a part of the Stakeholder Consultation Process for Extra Ordinary Tariff Review, the Commission held public hearings to consider the application filed by IKEDC in February

2020 and monitored the stakeholders' engagements by IKEDC at different locations within its franchise. Based on the feedback received during consultations and subsequent deliberations with various stakeholders, the Commission approved the Serviced-Based Tariff (SBT) effective from the 1st of September 2020 to ensure that rates paid by customers align with the quality of service as measured by the daily average availability of power supply over a 60-day reference period. Further updates to IKEDC's initial PIP submission have been considered as part of this review to align the PIPs with customer expectations of service commitment by IKEDC.

#### 1.4. Summary and Overview of IKEDC's Network/Current State

IKEDC is one of the successor distribution companies created following the unbundling and privatization of the state-owned Power Utility, Power Holding Company of Nigeria Plc. IKEDC covers a concession area of 1257 km<sup>2</sup>, serving customers in Lagos and some parts of Ogun State and reaching 1,017,750 customers (762,262 residential customers and 255,488 other customers), and within the territory, it has an electrification level of 100%. IKEDC is supplied from a transformation capacity of 2,375MVA from across 17 TCN transmission stations. 89 33kV feeders supply 33/11kV power transformers across 113 injection substations. There are 16,412 11/0.415kV distribution transformers and 1,302 33/0.415kV distribution transformers served by IKEDC. The total transformational capacity of the 11/0.415kV and the 33/0.415kV distribution transformers are 3,499.9MVA and 991.9MVA respectively. The route length for the 33kV, 11kV, and 415V feeders are 1,642.3km, 2,496.6km, and 5,927.4km respectively, resulting in a total route length of 10,065.2km.

After the privatization IKEDC's distribution capacity was 1.684 MVA, with an average daily supply of 9 hours. IKEDC faces technical network constraints due to the overloading of its 11 kV feeders. Approximately 59% of the 11 kV feeders present overloading in 2019, of which the most critical are five feeders (Isoto, Jakande 1, Igando-General Hospital, Isheri Oshun, and Ijegun). If no investments are programmed, the overloading will affect 81% of the 11kV feeders by 2024.

Likewise, analysis of the existing 89 feeders at 33kV indicates that 25% of the feeders are overloaded, being the most critical the feeder Egbe with an overload of 40MVA. By 2024 the number of overloaded feeders increases to 51% (46 feeders). Other studies by IKEDC determined that by nameplate capacity of the 17 TCN stations there is adequate capacity to meet the peak demand in 16 stations, but in 2024 this number is reduced to 5 stations. However, by transformer capability, demand is supplied adequately in 13 stations in 2019 and only in 4 stations by 2024.



Accordingly, IKEDC's PIP focuses on reducing losses by driving efficiency through improvement in business processes by implementing strategies to actualize several goals over the next five years. Some of these goals include reducing our ATC&C to 8.8% by 2024, recording zero deaths and casualties to both employees and stakeholders, achieving 100% metering of all customers by 2022, and achieving at least 95% customer satisfaction. IKEDC identified several risk mitigation strategies to support the successful implementation of the PIP over the next five years.

### 1.5. Stakeholder Consultation

IKEDC had followed a process for stakeholder consultation as directed by the Commission. Several consultations with a cross-section of customers and stakeholder groups were held to give customers an understanding of IKEDC's business strategy, efforts, and the proposed tariffs for various customer categories and service levels. IKEDC was keen on gaining an understanding of customers to support the successful implementation of the proposed PIP. Focused group discussion to harness stakeholder views on the service delivery, future expectations, and preferences were conducted with various customer groups. Stakeholders were identified based on several factors including demographics, influence, residential and non-residential customer type, organization and companies, intergovernmental agencies, local communities – Community Development Committees, Community Development Associations and traditional rulers, media, and associations.

Key discussion areas for the stakeholder session were:

- Need for an increase in sensitisation and intensify Corporate Social Responsibility (CSR) programmes by IKEDC
- Reduce the reaction time to fixing faults
- Quality and reliability of supply
- Quality of the metering, billing, and payment process
- Customer relationship management
- Accumulated debt and duplicated billings
- Questions about MAP project
- Communication of the start of electronic billing (via email, SMS, and access to the mobile app)
- Practise of customers having to pay to fix faults and to replace faulty equipment
- Discontinuation of the Estimated billing methodology



### 1.6: Outputs proposed with interventions:

IKEDC proposes to undertake numerous interventions to improve service delivery to the customers. Over the next five years the proposed interventions will allow IKEDC to achieve the following:

- Increase the total energy supplied across IKEDC from the 2019 levels of 4,469 GWh/ year to 5,263 GWh/ year by December 2022;
- Increase the average duration of supply to customers in each tariff band over the same period:
  - For Platinum cluster from an average of 17 hours per day to a minimum of 20 hours per day;
  - For Bilateral cluster from an average of 17 hours per day to a minimum of 20 hours per day;
  - For Diamond cluster from an average of 16 hours per day to a minimum of 19 hours per day;
  - For Gold cluster from an average of 14 hours per day to a minimum of 15 hours per day;
  - For Silver cluster from an average of 5 hours per day to a minimum of 11 hours per day;
- Reduce the average frequency of interruptions from 5.6 per day in 2019 to 3.6 per month by December 2022;
- Reduce the average duration of interruptions from 12 hours per day to 8 hours per month by December 2022;
- Reduce the average response time to calls from 1 minute to 30 seconds by December 2022;
- Reduce the average response time to resolving complaints from 12 hours per day to 8 hours per month by December 2022;
- Maintain a constant service voltage level of 11kV and 33kV across all feeders.

Table – 1: Planned Service Improvements Targets

Planned Service Improvements					
Item	Unit	Current	Service Improvement	Year-5 Target	Variance
Customers	#	1,037,992	387,008	1,425,000	37.28%
ATC&C loss	%	25	16	8.8	64.66%
Energy Delivered	GWh	4,249	5,257	9,506.0	123.72%
Average Duration of Supply	(Hrs/Day)	17	4	21	22.65%
Average Frequency of Interruptions	#/day	5	-2	3	-34.78%
Average Duration of Interruptions	Hrs/day	10	-5	5	-49.50%

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### 1.7. Investment Strategies:

Key strategies proposed by IKEDC to attain the targeted service levels over the next 5 years include the following:

1. Investments and other initiatives in the distribution network to upgrade existing network capacity, invest in technological enhancements to reduce outages, acquire tools to analyse network performance.
2. Installation of metering systems to capture all electrical parameters involved in commercial transactions with NBET and TCN and amounts of energy injected into the network operated by the DisCo.
3. Identification of eventual constraints to meeting electricity demand arising from issues affecting high and medium voltage network infrastructure.
4. TCN-DisCo interface project required in resolving existing constraints and meeting electricity demand.
5. Incorporation of an Incidents Recording and Management System (IRMS) to identify the location and analyze the extent of an interruption in electricity supply and to enable fast resolution and service restoration.
6. Regularization of consumers not registered as customers located in manageable areas.
7. Assess consumption in areas with constraints limiting the utilities' field operations i.e. non-manageable areas and Regularization of service delivery (electricity supply and commercial operations) in non-manageable areas with high/medium commercial losses.
8. Installation of appropriate meters for all the ministries, departments, and agencies at federal, state, and local levels.
9. Incorporation of a Commercial Management System (CMS) to manage all commercial processes: revenue cycle, attending to customers, etc.
10. Incorporation of an Enterprise Resource Planning (ERP) information system to support corporate planning and management of shared services (accounting, finance, human resources, procurement, logistics & information technology).
11. Implementation of a Revenue Protection Project (RPP) supported by Advanced Metering Infrastructure (AMI) to systematically record and monitor consumption of large and medium customers.
12. Incorporation of a Supervisory Control and Data Acquisition System (SCADA) to operate and control HV & MV infrastructure.
13. Implementation of improvements in the management of requests for new service connections.
14. Incorporation of a "Works Management System (WMS)" to manage all construction/installation works of network infrastructure.

*Jan AA Ang* 

Table – 2: Proposed Investment (Technical)

Item	Unit	Current	Additions/ Construction	Year-5 Target	Variance	PIP Rehabili tation	% of Rehabili tation
Network Length 33 kV	km	1,033	6	1,039	1%	1,511	146%
Network Length 11 kV	km	2,533	1,983	4,516	78%	2,643	104%
Network Length 0.4 kV	km	7,233	42,989	50,222	594%		
MVA distributions transformers	MVA	4,002	1,643	5,645	41%		
# distributions transformers	#	17,322	530	17,852	3%		
MVA Substations transformers	MVA	2,105	390	2,495	19%		
# Substations transformers	#	170	25	195	15%		

Table – 3: Ikeja Disco Proposed Investment Programme (Financial)

Investment Type	2021	2022	2023	2024	2025	Total
	N000,000	N000,000	N000,000	N000,000	N000,000	N000,000
Construction of 33kV Feeder	20	20	20	20	20	102
Rehabilitation of 33kV Feeder	3,231	3,231	3,231	3,231	3,231	16,157
Construction of 11kV Feeder	5,522	5,522	5,522	5,522	5,522	27,610
Rehabilitation of 11kV Feeder	3,702	3,702	3,702	3,702	3,702	18,509
Construction of 0.415kV Feeder	9,080	9,080	9,080	9,080	9,080	45,402
Distribution Plan Capex	1,248	1,248	1,248	1,248	1,248	6,238
Substation Plan Capex	4,827	4,827	4,827	4,827	4,827	24,133
ATC&C Loss Reduction Plan	103	103	103	103	103	517
Customer Service Improvement Plan	24	24	24	24	24	119
IT Investments	2,766	2,766	2,766	2,766	2,766	13,831
Network Metering Capex	-	-	-	-	-	-
Others	48	48	48	48	48	238
	-	-	-	-	-	-
<b>Total CAPEX</b>	<b>30,579</b>	<b>30,579</b>	<b>30,579</b>	<b>30,579</b>	<b>30,579</b>	<b>152,895</b>



## 2.0 Commission's Review

2.1. The Commission's Guideline for PIP Application established the criteria for IKEDC to prepare an output-based plan that sets out the service improvement output targets over the planning horizon of 5 years. This shall include the programs and activities that will lead to the realisation of those outputs, the human and material resources required, the projected costs and analysis of the risk factors, and the proposed mitigation measures. IKEDC's PIP and Extraordinary tariff review application was exposed to a Public Hearing and consultation presided over by a panel of three commissioners in line with the Business Rules of the Commission and the "Regulations on Procedure for Electricity Tariff Reviews in the Nigerian Electricity Supply Industry" in February 2020. The Hearing provided an avenue for customers, interested parties, and expert intervenors to critically examine IKEDC's proposal and the associated expected improvement in service levels. IKEDC was further directed to conduct stakeholders' (customers') engagements at various locations within its franchise area which were attended and monitored by the staff of the Commission.

2.2. Following the outcome of the public consultation, the Commission had vide Order NERC/198/2020 required IKEDC to update its PIP and Extraordinary Tariff Review Application by disaggregating its respective service areas and/or customers quality of service in order to align rates payable by customers with the quality of supply ("service-based tariffs"). A further review of IKEDC's updated submission was considered using the following criteria:

- i. completeness and consistency of the description of each component of the PIP;
- ii. compliance of each component with the Guidelines for preparation of PIPs issued by the Commission;
- iii. analysis of expected results/outcomes from the implementation of each component including the mitigants provided for addressing identified challenges that may hinder the achievement of target;
- iv. thorough price benchmarking and other relevant approaches to the estimation of resources (physical amounts and related OpEx and CapEx) for each component;
- v. determining if the cost and timeline for delivering the output is efficient;
- vi. assessing the efficiency of the proposed financing arrangement;
- vii. analysing the level of technology/modernization leap proposed going forward;
- viii. determining and analysing the overall level of efficiency improvement proposed.



### 3.0 Results of the Review

The Commission, having considered IKEDC's PIP and Extraordinary Tariff Review Application in line with the provision of EPSRA and relevant regulations, approved the PIP and CAPEX programme over 5 years as provided in Table – 4 and Table – 5 below. Summary of approved projects for Year-1 and Year-2 are also provided in Table – 6, while a detailed list of approved projects for Year-1 and Year-2 are provided in Appendices 1 and 2 respectively.

Table – 4: Approved Annual CAPEX Programme

Year	2021	2022	2023	2024	2025	Total
	Period - 1	Period - 2	Period - 3	Period - 4	Period - 5	Period 1 – 5
	N000,000	N000,000	N000,000	N000,000	N000,000	N000,000
Annual Approved CAPEX	24,385.06	24,385.06	24,385.06	24,385.06	24,385.06	121,925.30

Table – 5: IKEDC's Approved 5-year PIP and CAPEX Programme

5-Year Approved PIP	
	N000,000
<b>Total CAPEX</b>	<b>121,925.3</b>
<b>Distribution Network Capex</b>	<b>101,836.9</b>
Construction of 33kV Feeder	6,613.7
Rehabilitation of 33kV Feeder	8,609.5
Construction of 11kV Feeder	14,712.4
Rehabilitation of 11kV Feeder	9,862.7
Construction of 0.400kV Feeder	24,193.7
Distributions transformers (plan)	16,812.2
MVA Substations transformers (plan)	21,032.8
<b>ATC&amp;C Loss Reduction Plan (total)</b>	<b>2,201.4</b>
<b>Customer Service Improvement Plan</b>	<b>1,250.8</b>
<b>IT Investments (SCADA+GIS+ERP+HSE)</b>	<b>13,332.8</b>
SCADA Initiatives	5641.4
GIS Improvement	216.0
ERP System Infrastructure	1201.7
HSE Initiatives	0.0
AMI Network Metering	6273.7
<b>Customer Metering Capex</b>	<b>-</b>
<b>Network Metering Capex</b>	<b>1,302.5</b>
<b>Others</b>	<b>2,000.8</b>



Table – 6: IKEDC's Approved PIP and CAPEX Programme for 2021 and 2022

Approved PIP	2021	2022
	<i>N000,000</i>	<i>N000,000</i>
<b>Total CAPEX</b>	<b><u>24,385.1</u></b>	<b><u>24,385.1</u></b>
<b>Distribution Network Capex</b>	<b>16,609.3</b>	<b>20,334.7</b>
Construction of 33kV Feeder	579.1	649.0
Rehabilitation of 33kV Feeder	177.9	64.2
Construction of 11kV Feeder	520.1	933.8
Rehabilitation of 11kV Feeder	374.1	249.8
Construction of 0.400kV Feeder	2,120.0	1,000.0
Distributions transformers (plan)	8,489.0	4,960.8
MVA Substations transformers (plan)	4,349.1	12,477.1
ATC&C Loss Reduction Plan (total)	<b>807.8</b>	<b>513.0</b>
Customer Service Improvement Plan	5.0	745.5
IT Investments (SCADA+GIS+ERP+HSE)	<b>5,408.9</b>	<b>2,624.4</b>
SCADA Initiatives	1032.3	2624.4
GIS Improvement	86.4	0.0
ERP System Infrastructure	480.7	0.0
HSE Initiatives	0.0	0.0
AMI Network Metering	3809.5	0.0
Customer Metering Capex	-	-
Network Metering Capex	<b>521.0</b>	-
Others	<b>1,033.0</b>	<b>167.5</b>

*John M. A. A. A.* 

#### 4.0 Annual Update of PIPs

IKEDC shall be required to provide an annual update to the PIP to reflect the proposed investment programme as part of the Minor Review of Tariffs on a continuous basis. The Commission recognizes this PIP as a dynamic roadmap of where IKEDC envisions to be in the next five (5) years and will continue to evolve in alignment with market development and changes to the operating environment. IKEDC may invest more than the indicated annual CAPEX figure in any particular year on account of front-loading proposed future investments or due to the unanticipated critical investment needs subject to the approval of the Commission.

#### 5.0 Front-loading of CAPEX

IKEDC is at liberty to front-load its CAPEX programmes to attain accelerated service improvements. Front-loading of CAPEX programme in any year shall not exceed annual CAPEX for the following year in line with the framework for continuous update of the PIPs.

#### 6.0 CAPEX Clawback

Annual CAPEX provisions that are unutilized or imprudently expended shall be clawed back during Minor Reviews of Tariffs in line with the requirements of Section 7(a) of Regulations on Procedure for Electricity Tariff Reviews in the NESI.

#### 7.0 Commencement and Effectiveness

The approved PIP and CAPEX programme of IKEDC shall take effect on the 1st day of July 2021 and shall remain effective until the 30<sup>th</sup> day of June 2026.

#### 8.0 Signature

Dated this 29th day of April 2021



Sanusi Garba

Chairman



Dafe C. Akpeneye

Commissioner



Appendix 1 - Details of Planned 2021 Investments for Ikeja Electric

<i>Distribution Network: lines</i>						
<i>Project Type: Construction of 33kV Feeder</i>						
#	Project Description	Location	Route length (km)	Project Completion Date (MM - YY)	Expected Impact in Gwh	
1	Construction of Ipokodo 33kV Line	Ikorodu	5.9	Oct-21	7.00	
2	Extension of Maryland/Alausa- 7UP Line	Ikeja	13.2	Oct-21	7.00	
3	Extension of Maryland/Alausa- 7UP Line	Ikeja	2.4	Oct-21		
4	Extension of existing Lamba 33kV Feeder to Akute ISS	Abule Egba	4.7	Aug-21	2.37	
5	Diversion of Ojodu 33kV Feeder to Ogba TS	Ikeja	4.3	Dec-21	2.64	
6	Diversion of Ojodu 33kV Feeder to Ogba TS	Ikeja	0.6	Dec-21		
7	Proposed Extension of Alapere 33kV to relief Akute 33kV feeder	Shomolu	6.6	Dec-21	2.41	
8	Proposed Extension of Alapere 33kV to relief Akute 33kV feeder	Shomolu	0.4	Dec-21		
9	Proposed Extension of Old Iju 33kV Feeder to Yidi ISS	Abule Egba	0.8	Jul-21	3.01	
1	Proposed Extension of Fokale 33kV feeder to LASPOTCH 1X15MVA ISS	Ikorodu	3.7	Dec-21	2.90	
1	Extension of Abule Taylor 33kV	Akowonjo	0.5	Dec-21		

*Distribution Network: lines*

*Project Type: Rehabilitation of 33kV Feeder*

#	Project Description	Type of Rehabilitation	Location	Route Length (km)	Project Completion Date (MM - YY)	Expected Impact in Gwh

*MM*  
*MM*  
*MM*

1	Re-construction of Ibeshe 33KV Line	Reconducing	Ikorodu	4.25	Oct-21	7.0
2	Proposed rehabilitation of isolated part of Yidi 33KV feeder	Reconducing	Abule Egba	1.65	Jul-21	3.0
3	Proposed Extension of Egbe 33KV feeder to KWARU 1X15MVA ISS	Reconducing	Oshodi	2.45	Dec-21	2.2
4	33-AlimoshonTCNADIYAN	Reconducing	Abule Egba	1.177902	Dec-21	
5	33-Oke-AroTCNAKUTE	Reconducing	shomolu	53.17975	Dec-21	
6	33-AyoboTCNABESAN	Reconducing	akowonjo	5.865424	Dec-21	
7	33-AlimoshonTCN-TOWER IPALA	Reconducing	akowonjo	7.714526	Dec-21	
8	33-AlimoshonTCN-AGEGE	Reconducing	akowonjo	5.798636	Dec-21	
9	33-MarylandTCNPTC	Reconducing	ikeja	5.755944	Dec-21	
10	33-OgbaTCNUNIVERSAL STEEL	Reconducing	ikeja	2.270621	Dec-21	
11	33-OgbaTCN-SANKYO	Reconducing	ikeja	2.447331	Dec-21	
12	33-AlusaTCN-OPEBI	Reconducing	ikeja	3.3936	Dec-21	
13	33-IkoroduTCN-SPINTEX	Reconducing	Ikorodu	7.199985	Dec-21	
14	33-IkoroduTCN-INDUSTRIAL	Reconducing	Ikorodu	8.348768	Dec-21	
15	33-MarylandTCN-AJEGUNLE	Reconducing	Ikorodu	27.89454	Dec-21	
16	33-OdogunyanTCN-AGBEDE	Reconducing	Ikorodu	35.29742	Dec-21	
17	33-IkoroduTCN-IJEBE	Reconducing	Ikorodu	43.95953	Dec-21	
18	33-EjigboTCN-AIRPORT	Reconducing	Oshodi	5.390465	Dec-21	
20	33-EgbinTCN-OKELETU	Reconducing	Ikorodu		Dec-21	
<b>Total</b>				<b>224</b>		

*Distribution Network: lines*

*Project Type: Construction of 11kV Feeder*

#	Project Description	Location	Route Length (km)	Project Completion Date (MM - YY)	Expected Impact in GWh
1	Prop. Agunfoye 11kV Feeder ex- Igbogbo ISS	Ikorodu	4.04	Nov-21	3.65

2	Feeder re-arrangement between Majidun 11kV Feeder and Ori-Okuta 11kV Feeder	Ikorodu	0.90	Jul-21	0.41
3	Feeder re-arrangement between Opebi and Agboko 11kV Feeders	Ikeja	0.65	Jun-21	0.30
4	PROPOSED ASALU 11KV FEEDER EX: PROP. KWARU 1 X 15MVA ISS.	Oshodi	1.30	Dec-21	2.23
5	PROPOSED ASALU 11KV FEEDER EX: PROP. KWARU 1 X 15MVA ISS.	Oshodi	0.20	Dec-21	2.23
6	PROPOSED OSUNBA 11KV FEEDER EX: PROP. KWARU 1 X 15MVA ISS.	Oshodi	2.05	Dec-21	2.23
7	PROPOSED OSUNBA 11KV FEEDER EX: PROP. KWARU 1 X 15MVA ISS.	Oshodi	0.10	Dec-21	2.23
8	Prop. Ayo-Aloyi 11kV Feeder ex- Oke Ira ISS	Ikeja	2.20	Jun-21	0.31
9	Prop. Ayo-Aloyi 11kV Feeder ex- Oke Ira ISS	Ikeja	0.25	Jun-21	0.31
10	Prop. Dosumu 11kV Feeder ex- Mafoluku 1x15MVA ISS	Oshodi	2.05	Oct-21	0.08
11	Prop. Lafenwa 11kV Feeder ex- Ayetoro ISS	Akowonjo	2.40	May-21	0.39
12	Prop. Lafenwa 11kV Feeder ex- Ayetoro ISS	Akowonjo	0.06	May-21	0.39
13	Prop. Megida 11kV Feeder ex- Alaja ISS	Akowonjo	0.95	Jun-21	1.33
14	Prop. Atanla 11kV Feeder Ex Ayobo ISS	Akowonjo	1.90	Sep-21	0.47
15	Prop. Atanla 11kV Feeder Ex Ayobo ISS	Akowonjo	0.31	Sep-21	0.47
16	PROPOSED LASPOTECH CAMPUS 11KV FEEDER EX: PROPOSED LASPOTECH 1X15MVA ISS	Ikorodu	1.20	Dec-21	2.90
17	PROPOSED 11KV FEEDER EX: PROPOSED LASPOTECH 1X15MVA ISS TO RELIEVE ERUNWEN 11KV FEEDER	Ikorodu	1.60	Dec-21	2.90
18	PROPOSED 11KV FEEDER EX: PROPOSED LASPOTECH 1X15MVA ISS TO RELIEVE IJERUODE 11KV FEEDER	Ikorodu	0.05	Dec-21	2.90
19	11kV Feeder Re-arrangement: Amuwo Ijesha/Cand/Agbo 11kV Feeders	Oshodi	1.40	Dec-21	0.28
20	11kV Feeder Re-arrangement: Amuwo Ijesha/Cand/Agbo 11kV Feeders	Oshodi	0.08	Dec-21	0.28
21	Feeder Re-arrangement between Oba Akinjobi and Isaac John 11kV Feeders	Ikeja	0.10	Jun-21	2.64

22	Proposed Run-View 11kv feeder ex - Aigoo 2x15MVA	Oshodi	6.05	Oct-21	0.08
23	11KV Feeder Re-arrangement: Abimbola/Osola 11kv Feeder Re-arrangement	Oshodi	0.65	Aug-21	0.06
24	Feeder Re-arrangement between Bode Williams and Oloja 11KV Feeder	Oshodi	0.85	Jun-21	0.04
25	Proposed Kolimi Williams 11kv Feeder	Abule Egba	1.63	Jul-21	0.06
26	Prop. LakeView II 11KV Feeder	Oshodi	1.10	Aug-21	0.09
27	Feeder re-arrangement between UAC and Alausa 11KV Feeders	Ikeja	1.00	Jul-21	0.20
32	Relief of Centex 11kv feeder	Ikorodu	4.00	Dec-21	0.198426437
33	Relief of Ito Olowu 11kv feeder	Ikorodu	3.00	Dec-21	0.198426437

*Distribution Network: lines*

*Project Type: Rehabilitation of 11kV Feeder*

#	Project Description	Location	Route Length (km)	Project Completion Date (MM - YY)	Expected Impact in GWh
1	Evacuation of Fodeyi 11KV to 11-Igbobifin/T3-Mushin 1	Shomolu	2	Sep-21	0.20
2	11-Ijilinj-T1-Water Works	ABULE EGBA	15	Dec-21	
3	11-Beckleyinj-T1-Beckley	ABULE EGBA	15	Dec-21	
4	11-Ijilinj-T1-Galilee	ABULE EGBA	3	Dec-21	
5	11-Lambelinj-T1-Matogun	ABULE EGBA	10	Dec-21	
6	11-Obawoleinj-T1-Topo Shonubi	ABULE EGBA	6	Dec-21	
7	11-Obawoleinj-T1-Anthony Youdeowe	ABULE EGBA	10	Dec-21	
8	11-Beckleyinj-T1-Agbe road	ABULE EGBA	17	Dec-21	
9	11-Yidilinj-T1-Opeilu	ABULE EGBA	26	Dec-21	
10	11-Yidilinj-T1-Osoba	ABULE EGBA	7	Dec-21	
11	11-Yusufinj-T2-Akera	ABULE EGBA	10	Dec-21	
12	11-Yusufinj-T1-Yusuf	ABULE EGBA	4	Dec-21	
13	11-New Gowoninj-T1-Unity	AKOWONJO	6	Dec-21	
14	11-New Gowoninj-T1-Olarunadaba	AKOWONJO	8	Dec-21	

15	11-Ogbaini/T3-Oba Aliran	IKEJA	3	Dec-21	
16	11-Ekoroni/T2-Ekoro	AKOWONJO	6	Dec-21	
17	11-Ayetoro/Ni/T1-Bada	AKOWONJO	8	Dec-21	
18	11-Opebi/Ni/T1-Olususun	IKEJA	7	Dec-21	
19	11-New Alausai/Ni/T4-Siyinbala	IKEJA	7	Dec-21	
20	11-Oke Iral/Ni/T2-Kayode	IKEJA	13	Dec-21	
21	11-New Alausai/Ni/T6-Ogundana	IKEJA	4	Dec-21	
22	11-Opebi/Ni/T1-Salvation	IKEJA	7	Dec-21	
23	11-New Alausai/Ni/T5-Alausa	IKEJA	4	Dec-21	
24	11-New Alausai/Ni/T4-Allen	IKEJA	5	Dec-21	
25	11-Ogbaini/T3-M & B	IKEJA	3	Dec-21	
26	11-Ilupeju/Ni/T1-Bhojison	IKEJA	1	Dec-21	
28	11-New Alausai/Ni/T4-Oregun	IKEJA	3	Dec-21	
29	11-New Alausai/Ni/T6-Aromire	IKEJA	1	Dec-21	
30	11-New Alausai/Ni/T6-Awolowo	IKEJA	6	Dec-21	
31	11-Secretariat/Ni/T1-Estate	IKEJA	6	Dec-21	
32	11-Ogbaini/T1-Ijoye	IKEJA	17	Dec-21	
33	11-Opebi/Ni/T1-Agbooku	IKEJA	5	Dec-21	
34	11-Secretariat/Ni/T1-Lateef Jakande	IKEJA	7	Dec-21	
35	11-PTC/Ni/T1-Opebi	IKEJA	6	Dec-21	
36	11-PTC/Ni/T2-Medical	IKEJA	3	Dec-21	
37	11-Secretariat/Ni/T1-Omole	IKEJA	3	Dec-21	
38	11-Agege/Ni/T1-Iju Road	IKEJA	12	Dec-21	
39	11-Alegunle/Ni/T1-Owode Onirin	IKORODU	19	Dec-21	
40	11-Itral/Ni/T2-Amuwo-Ilesha	OSHODI	1	Dec-21	
41	11-Itral/Ni/T3-Ago	OSHODI	9	Dec-21	
42	11-Ajao/Ni/T1-Airport Road	OSHODI	7	Dec-21	
43	11-Ajao/Ni/T2-New Estate	OSHODI	2	Dec-21	
44	11-Oke Afai/Ni/T2/ICHE	OSHODI	7	Dec-21	
45	11-Agege/Ni/T3-Oyemekun	IKEJA	14	Dec-21	



46	11-Oke AfaiNj:T2-Osalo	OSHODI	10	Dec-21	
47	11-OworolNj:T1-Hospital	SHOMOLU	6	Dec-21	
48	11-IlupejuNj:T3-Palmgrove	SHOMOLU	6	Dec-21	
49	11-MarylandNj:T3-Sylvia	SHOMOLU	6	Dec-21	
50	11-AkokalNj:T1-Akoka	SHOMOLU	3	Dec-21	
51	11-Ilupeju BypassNj:T1-Oberikoro	SHOMOLU	4	Dec-21	
52	11-AkokalNj:T3-Akoka	SHOMOLU	3	Dec-21	
53	11-MatokuNj:T1-Mokinde	OSHODI	5	Dec-21	
54	11-IsherilNj:T1-Bankole	SHOMOLU	6	Dec-21	
55	11-IsherilNj:T1-Isheri	SHOMOLU	4	Dec-21	
56	11-MogodolNj:T2-CMD	SHOMOLU	2	Dec-21	
57	11-MarylandNj:T1-Okupe	SHOMOLU	5	Dec-21	
58	11-OgudulNj:T3-Soluyi	SHOMOLU	4	Dec-21	
59	11-OloworalNj:T1-Orisha	SHOMOLU	4	Dec-21	
60	11-OloworalNj:T1-UNILAG	SHOMOLU	6	Dec-21	
61	11-WasimilNj:T1-Araromi	SHOMOLU	5	Dec-21	
62	Proposed deloading of Ijebu Ode 11kv feeder with Iasurwon 11kv	IKORODU	19	Dec-21	
63	Rehabilitation of thomas salako 11kv feeder	IKEJA	9	Dec-21	

*Distribution Network: lines*

*Project Type: Construction and Rehabilitation of 0.400kV Feeder*

#	Project Description	Type of Project	Location	GPS Coordinates	Route Length (km)	Project Completion Date (MM - YY)
1	Rehabilitation of LT feeders in ADIYAN	Rehabilitation	ADIYAN		38	Dec-21
2	Rehabilitation of LT feeders in AKUTE	Rehabilitation	AKUTE		27	Dec-21
3	Rehabilitation of LT feeders in FAGBA	Rehabilitation	FAGBA		7	Dec-21
4	Rehabilitation of LT feeders in UAIYE	Rehabilitation	UAIYE		19	Dec-21



5	Rehabilitation of LT feeders in JUU	Rehabilitation	JUU	15	Dec-21
6	Rehabilitation of LT feeders in LAMBE	Rehabilitation	LAMBE	18	Dec-21
7	Rehabilitation of LT feeders in A.I.T.	Rehabilitation	A.I.T.	6	Dec-21
8	Rehabilitation of LT feeders in ABORU	Rehabilitation	ABORU	2	Dec-21
9	Rehabilitation of LT feeders in ABULE ODU	Rehabilitation	ABULE ODU	6	Dec-21
10	Rehabilitation of LT feeders in ABULE TAYLOR	Rehabilitation	ABULE TAYLOR	4	Dec-21
11	Rehabilitation of LT feeders in AYOBO	Rehabilitation	AYOBO	14	Dec-21
12	Rehabilitation of LT feeders in DOPEMU	Rehabilitation	DOPEMU	2	Dec-21
13	Rehabilitation of LT feeders in EGBEDA	Rehabilitation	EGBEDA	2	Dec-21
14	Rehabilitation of LT feeders in GOWON	Rehabilitation	GOWON	2	Dec-21
15	Rehabilitation of LT feeders in IPAJA	Rehabilitation	IPAJA	9	Dec-21
16	Rehabilitation of LT feeders in OKE ODO	Rehabilitation	OKE ODO	2	Dec-21
17	Rehabilitation of LT feeders in ORILE AGEGE	Rehabilitation	ORILE AGEGE	1	Dec-21
18	Rehabilitation of LT feeders in ANIFOWOSHE	Rehabilitation	ANIFOWOSHE	1	Dec-21
19	Rehabilitation of LT feeders in IFAKO	Rehabilitation	IFAKO	1	Dec-21
20	Rehabilitation of LT feeders in OBA AKRAN	Rehabilitation	OBA AKRAN	1	Dec-21
21	Rehabilitation of LT feeders in OGBA	Rehabilitation	OGBA	1	Dec-21
22	Rehabilitation of LT feeders in OJODU	Rehabilitation	OJODU	2	Dec-21
23	Rehabilitation of LT feeders in OKE-IRA	Rehabilitation	OKE-IRA	1	Dec-21
24	Rehabilitation of LT feeders in OREGUN	Rehabilitation	OREGUN	1	Dec-21
25	Rehabilitation of LT feeders in PTC	Rehabilitation	PTC	2	Dec-21
26	Rehabilitation of LT feeders in AYANGBUREN	Rehabilitation	AYANGBUREN	29	Dec-21
27	Rehabilitation of LT feeders in EPE	Rehabilitation	EPE	22	Dec-21
28	Rehabilitation of LT feeders in IGBOGBO	Rehabilitation	IGBOGBO	113	Dec-21
29	Rehabilitation of LT feeders in JEDE	Rehabilitation	JEDE	2	Dec-21
30	Rehabilitation of LT feeders in LASUNWON	Rehabilitation	LASUNWON	33	Dec-21
31	Rehabilitation of LT feeders in ODOGUNYAN	Rehabilitation	ODOGUNYAN	20	Dec-21
32	Rehabilitation of LT feeders in OWUTU	Rehabilitation	OWUTU	46	Dec-21
33	Rehabilitation of LT feeders in AGO	Rehabilitation	AGO	3	Dec-21
34	Rehabilitation of LT feeders in ALAO	Rehabilitation	ALAO	2	Dec-21

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35	Rehabilitation of LT feeders in AMUWO	Rehabilitation	AMUWO	1	Dec-21
36	Rehabilitation of LT feeders in DIMU	Rehabilitation	DIMU	7	Dec-21
37	Rehabilitation of LT feeders in IGANDO	Rehabilitation	IGANDO	16	Dec-21
38	Rehabilitation of LT feeders in JEGUN	Rehabilitation	JEGUN	13	Dec-21
39	Rehabilitation of LT feeders in IKOTUN	Rehabilitation	IKOTUN	8	Dec-21
40	Rehabilitation of LT feeders in ISOLO	Rehabilitation	ISOLO	1	Dec-21
41	Rehabilitation of LT feeders in OKE AFA	Rehabilitation	OKE AFA	5	Dec-21
42	Rehabilitation of LT feeders in OKOTA	Rehabilitation	OKOTA	1	Dec-21
43	Rehabilitation of LT feeders in OSHODI	Rehabilitation	OSHODI	1	Dec-21
44	Rehabilitation of LT feeders in BARIKA	Rehabilitation	BARIKA	3	Dec-21
45	Rehabilitation of LT feeders in IGBOBI	Rehabilitation	IGBOBI	4	Dec-21
46	Rehabilitation of LT feeders in IKOSI	Rehabilitation	IKOSI	1	Dec-21
47	Rehabilitation of LT feeders in ILUPEJU	Rehabilitation	ILUPEJU	3	Dec-21
48	Rehabilitation of LT feeders in KETU	Rehabilitation	KETU	1	Dec-21
49	Rehabilitation of LT feeders in MAGODO	Rehabilitation	MAGODO	1	Dec-21
50	Rehabilitation of LT feeders in MENDE	Rehabilitation	MENDE	1	Dec-21
51	Rehabilitation of LT feeders in OGUDU	Rehabilitation	OGUDU	1	Dec-21
52	Rehabilitation of LT feeders in OLATEJU	Rehabilitation	OLATEJU	3	Dec-21
53	Rehabilitation of LT feeders in OLOWORA	Rehabilitation	OLOWORA	1	Dec-21
54	Rehabilitation of LT feeders in OWORO	Rehabilitation	OWORO	6	Dec-21

*Distribution Network: stations*

*Project Type: New Construction, Reinforcement and Standardisation of Distribution Sub-station*

#	Name of Substation	Transformation Voltage (KV)	Rating - KVA	Type of work (New Construction or Replacement)	Location	Quantity	Project Completion Date (MM - YY)

1	Relief of 5no. Band A and B Overloaded DTs in Abule Egba BU	33/0.415	500	New Construction	Abule Egba	5	Dec-21
2	Relief of 30no. Band A and B Overloaded DTs in Abule Egba BU	11/0.415	500	New Construction	Abule Egba	30	Dec-21
3	Relief of 30no. Band A and B Overloaded DTs in Abule Egba BU	11/0.415	500	Replacement	Abule Egba	30	Dec-21
4	Relief of 41no. Band A and B Overloaded DTs in Abule Egba BU	11/0.415	100	Replacement	Abule Egba	41	Dec-21
5	Relief of 11no. Band A and B Overloaded DTs in Ikeja BU	11/0.415	500	New Construction	Ikeja	11	Dec-21
6	Relief of 5no. Band A and B Overloaded DTs in Ikeja BU	11/0.415	500	Replacement	Ikeja	5	Dec-21
7	Relief of 24no. Band A and B Overloaded DTs in Ikeja BU	11/0.415	100	Replacement	Ikeja	24	Dec-21
8	Relief of 26No. Band A and B Overloaded DTs in Ikorodu BU	33/0.415	500	New Construction	Ikorodu	26	Dec-21
9	Relief of 13No. Band A and B Overloaded DTs in Ikorodu BU	33/0.415	500	Replacement	Ikorodu	13	Dec-21
10	Relief of 19No. Band A and B Overloaded DTs in Ikorodu BU	11/0.415	500	New Construction	Ikorodu	19	Dec-21
11	Relief of 6No. Band A and B Overloaded DTs in Ikorodu BU	11/0.415	500	Replacement	Ikorodu	6	Dec-21
12	Relief of 9no. Band A and B Overloaded DTs in Oshodi BU	33/0.415	500	New Construction	Oshodi	9	Dec-21
13	Relief of 38no. Band A and B Overloaded DTs in Oshodi BU	11/0.415	500	New Construction	Oshodi	38	Dec-21
14	Relief of 26no. Band A and B Overloaded DTs in Oshodi BU	11/0.415	500	Replacement	Oshodi	26	Dec-21
15	Relief of 1no. overloaded DTs in Akowonjo BU	33/0.415	500	New Construction	Akowonjo	1	Dec-21
16	Relief of 31no. overloaded DTs in Akowonjo BU	11/0.415	500	New Construction	Akowonjo	31	Dec-21
17	Relief of 16no. overloaded DTs in Akowonjo BU	11/0.415	500	Replacement	Akowonjo	16	Dec-21



18	Relief of 15no. overloaded DTs in Akowonjo BU	11/0.415	100	Replacement	Akowonjo	15	Dec-21
19	Relief of 4no. Bond C and D overloaded DTs in Shomolu BU	33/0.415	500	New Construction	Shomolu	4	Dec-21
20	Relief of 31no. Bond C and D overloaded DTs in Shomolu BU	11/0.415	500	New Construction	Shomolu	31	Dec-21
21	Relief of 9no. Bond C and D overloaded DTs in Shomolu BU	11/0.415	500	Replacement	Shomolu	9	Dec-21
22	Provision for 150 Distribution Transformers to address newly overloaded Transformers and existing Transformer failures.	11/0.415	500	Replacement	All Network	150	Dec-21
23	Provision for 50 Distribution Transformers to address newly overloaded Transformers and existing Transformer failures.	33/0.415	500	Replacement	All Network	50	Dec-21
24	Transformers on Plinth	11/0.415	500	New Construction	All Network	100	Dec-21

**Network: Injection Substations (33/11kV)**

**Project Type: Construction, Reinforcement and Standardisation of Injection Substation**

#	Name of Substation	Location	Number of Units	Type (Manned/ unmannned)	Type of work	Rating .MVA	Project Completion Date (MM - YY)	Expected Impact (GWh)
1	Prop. Upgrade of PTC 7.5MVA Transformer to 15MVA	Ikeja	1	Manned	Upgrade of Power Transformer	15	Aug-21	1.81
2	Installation of Additional 7.5MVA 33/11kV Power Transformer at Oke Iro- (Existing 7.5MVA at PTC to be relocated)	Ikeja	1	Manned	Additional Power Transformer	7.5	Dec-21	1.54
3	Proposed Iaspolech 1 x 15MVA Injection Substation	Ikorodu	1	Manned	New Construction	15	Dec-21	2.90

4	Proposed Iaspoitech 1 x 15MVA Injection Substation (Gantry and Switch Yard)	Ikorodu	1	Manned	New Construction		Dec-21	
5	Proposed Iaspoitech 1 x 15MVA Injection Substation (Land processing and ISS control room building)	Ikorodu	1	Manned	New Construction		Dec-21	
6	Proposed Kwaru 1x15MVA 33/11kV ISS	Oshodi	1	Manned	New Construction	15	Dec-21	2.23
7	Proposed Kwaru 1x15MVA 33/11kV ISS (Gantry and Switch Yard)	Oshodi	1	Manned	New Construction		Jan-22	
8	Proposed Kwaru 1x15MVA 33/11kV ISS (Land processing and ISS control room building)	Oshodi	1	Manned	New Construction		Dec-21	

**Network: Standardisation of Existing Injection Substations (33/11kV)**

**Project Type: Replacement of Switch Gears, Control Panel and Protection Equipment**

#	Name of Substation	Description	Location	Quantity	Project Completion Date (MM - YY)
1	Replacement of panels in 21 Injection Substations	11kV Incomer Circuit breaker	Across the network	31	Dec-21
2	Replacement of panels in 21 Injection Substations	11kV Bus Coupler breaker	Across the network	17	Dec-21
3	Replacement of panels in 21 Injection Substations	11kV outgoing circuit breaker	Across the network	124	Dec-21
4	Installation of protective equipment in 64 ISS	33kV Transformer control panel	Across the network	64	Dec-21
5	Prop. Ayo-Ajayi 11kV Feeder ex: Oke Iro ISS	11kV Incomer Circuit breaker	Ikeja	1	Jun-21

6	Prop. Dosumu 11kV Feeder ex- Mafoluku 1x15MVA ISS	11kv Incomer Circuit breaker	Oshodi	1	Oct-21
7	Prop. Lafenwa 11kV Feeder ex- Ayeloro ISS	11kv Incomer Circuit breaker	Akwoyio	1	May-21
8	Prop. Megida 11kV Feeder ex- Ajojo ISS	11kv Incomer Circuit breaker	Akwoyio	1	Jun-21
9	Proposed Run-View 11kv feeder ex - Ajojo 2x15MVA	11kv Incomer Circuit breaker	Oshodi	1	Oct-21
10	Evacuation of Fodeyi 11kV to 11-Igboboliji-13-Mushin 1	11kv Incomer Circuit breaker	Shomolu	1	Sep-21
11	Installation of protective equipment of top 20% substations (D-fuse, Gang Isolators, Lighting Arresters)	Standardisation	Across the network		Dec-21
12	Standardization of top 20% of substations (fencing, DT RTU and feeder pillars) - Batch A	Standardisation	Across the network		Dec-21

IT Investments (GIS)	
#	Name
1	Mobile Application X
	Description
	To provide more service points availability for the network in order to enhance metering the customers faster.
	Total

AIC&C Loss Reduction Plan					
#	Name	Description	Quantity	Project Completion Date (MM - YY)	Expected Impact
1	11-Alimasholiji-14-FHA	Migrate customers to Bilateral Band	8.0	Jun-21	0.78

2	11-AbesanIj-T1-Baruwa	Migrate customers to Bilateral Bond	11.2	Jun-21	
3	11-MongoroIj-T1-New Dopemu	Migrate customers to Bilateral Bond	9.8	Jun-21	0.02
4	11-AjaoIj-T2-Sholanke 11-Oke AfoIj-T2-Osalo 11-MushinIj-Aswani	Migrate customers to Bilateral Bond	9.42 10.30 4.21	Jun-21	0.90
5	11-Ago OkotaiIj-T2-Oke-Ogbere	Migrate customers to Bilateral	9.1	Jul-21	0.82
6	11-Ago OkotaiIj-T2-LakeView	Migrate customers to Bilateral	5.4	Jul-21	0.00
7	11-Ago OkotaiIj-T1-Annuwo Ihd	Migrate customers to Bilateral	20.1	Jul-21	0.00
8	11-SaboiIj-T1-Mary Hill	Migrate customers to Bilateral	7.4	Jul-21	0.48
9	11-OloworoIj-T1-Orisha 11-OloworoIj-T1-Urlog 11-IsheriIj-T1-Isheri	Migrate customers to Bilateral	3.82 6.44 4.28	Jul-21	6.00
10	11-ObawoleIj-T1-Anthony Youdewei	Migrate customers to Bilateral	10.3	Jul-21	0.07
11	11-AbesanIj-T2-Abesan	Migrate customers to Bilateral	8.0	Jul-21	1.56
12	Rock Centre Limited	Rock Centre Limited	NA	Jul-21	1.40
13	Lasg Revenue House	Lasg Revenue House	NA	Jul-21	1.10
14	11-OworoiIj-T3-Gbagada	Migrate customers to Bilateral	6.3	Jul-21	0.68
15	11-OworoiIj-T3-Gbagada	Migrate customers to Bilateral	6.3	Aug-21	0.68
16	11-OworoiIj-T1-Anthony	Migrate customers to Bilateral	8.4	Aug-21	0.05
17	11-SaboiIj-T1-Ayngburen	Migrate customers to Bilateral	5.7	Dec-21	0.26
18	33-OkeoroIj-T1-Akufe	Migrate customers to Bilateral	53.2	Dec-21	0.65

*Customer Service Improvement Plan*

#	Name	Description	Quantity	Project Completion Date (MM - YY)	Expected Impact



1	LASG General Hospitals	Connection of 6 LASG General Hospitals to bilateral power	6	Jun-21	0.80
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IT Investments (SCADA)					
#	Name	Description	Project Completion Date (MM - YY)	Expected Impact (GWh)	
1	Geographic Network Monitoring System	Phased deployment of GNMS on Bilateral Feeders - Phase 1	Nov-21	0.8	
2	Geographic Network Monitoring System	Phased deployment of GNMS on platinum Feeders - Phase 2	Jan-22	1.3	
3	Geographic Network Monitoring System	Phased deployment of GNMS on Diamond Feeders - Phase 3	May-22	3.0	

IT Investments (ERP)			
#	Name	Description	Project Completion Date (MM - YY)
1	EAM - Maximo	Implement Enterprise Asset and Work Management System (Maximo)	Sep-21
	Total		

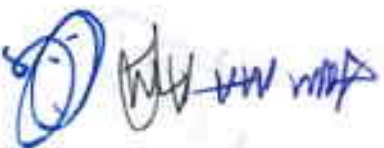
IT Investments (AMI)			
#	Name	Description	Project Completion Date (MM - YY)
1	CIS/AMI Upgrade	Upgrade and Consolidate CIS, AMI and Vending Platform (Migration from CIS version 1 to version 2)	Mar-22
2		Enterprise Cloud Data Warehouse	Sep-21



Network Metering (Smart Meters)				
#	Project Description	Description	Quantity	Project Completion Date (MM - YY)
1	11/0.400kV DT meters	Distribution Transformer Meters (Relief)	390	Dec-21

Other Service Improvement Plan				
#	Name	Description	Project Completion Date (MM - YY)	Expected Impact in GWh
1	Construction of 33kV Bay at Ogbo TS for Abeokuta Express	Bay Construction		2.6
2	Separation of Bolonpaju and Egbe 33kV Bays at Eligbo TS	Bay Construction	Dec-21	
3	Fault Passage Indicators/Deployment of FPIs on 20no. Identified feeders	Installation of fault passage indicator reduces portal time by accurately pin point location of faults on a line there by reducing Feeder downtime and increase Network Efficiency	Sep-21	
4	Off Grid Conversion of Companies	Conversion of several offgrid companies to the grid	Jun-21	8.0
5	Partnership Project with Minigrid Operator	A project (relief 2DTs) to increase the energy levels and supply availability through strategic partnerships with Distributed Energy Service companies to locations that do not meet the requirements for Bilateral power through the Interconnected Minigrid order.	Jun-21	0.2

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6	Off Grid Conversion	Extension of the Aswan 33KV feeder to Abirbaha Way to capture key off grid customers (Promosidor and KGM)	Dec-21	5.7
7	Drone Technology	Deployment of RMUS Mavic 2 Enterprise Dual/Zoom Ride-Along Drone Technology for Feeder patrol and maintenance to reduce patrol downtime(TAT)	Jul-21	
8	Setup of QAQC Lab	set up of a QAQC lab for Qualitative objective and material analysis	Dec-21	
9	T2 Oke Ajo	Reconditioning and filtration of power transformer	Dec-21	
10	T2 PTC	Reconditioning and filtration of power transformer	Dec-21	
11	7.5MVA Gowon	Reconditioning and filtration of power transformer	Dec-21	
12	T3A TIRE	Reconditioning and filtration of power transformer	Dec-21	
13	T2 YUSUF	Reconditioning and filtration of power transformer	Dec-21	
14	T1 ABULE IROKO	Reconditioning and filtration of power transformer	Dec-21	
15	T2 WASIMI	Reconditioning and filtration of power transformer	Dec-21	
16	T1 ADARANIJIO	Reconditioning and filtration of power transformer	Dec-21	
17	T1 AAO	Reconditioning and filtration of power transformer	Dec-21	
18	T2 AAO	Reconditioning and filtration of power transformer	Dec-21	
19	T1 SABO	Reconditioning and filtration of power transformer	Dec-21	
20	T2 IJU	Reconditioning and filtration of power transformer	Dec-21	

Appendix 2 - Details of Planned 2022 Investments for Kaja Electric

*Distribution Network: lines*

*Project Type: Construction of 33kV Feeder*

#	Project Description	Location	Overhead/ underground	Route Length (km)	Project Completion Date (MM - YY)	Expected Impact in MW)
1	Prop. Dangote 33kV Dedicated Feeder ex- Ogba TS	Ikeja	Underground	1.3	Dec-22	3.00
2	Proposed Adiyon Gasline 33KV line	Abule Egbo	Overhead	4.6	Dec-22	3.84
3	Proposed Adiyon Gasline 33KV line	Abule Egbo	Underground	0.4	Dec-22	
4	Proposed Igbo Olomo 33KV line	Ikorodu	Overhead	3.2	Dec-22	3.84
5	Proposed Igbo Olomo 33KV line	Ikorodu	Underground	0.1	Dec-22	
6	Proposed Oludodo 33KV line	Ikorodu	Overhead	0.8	Dec-22	3.84
7	Proposed Oludodo 33KV line	Ikorodu	Underground	0.2	Dec-22	
8	Proposed Abesan 33KV line	Akwoonjo	Overhead	1	Dec-22	3.84
9	Proposed Abesan 33KV line	Akwoonjo	Underground	0.1	Dec-22	
10	Proposed Odoeron 33KV line	Oshodi	Overhead	3.7	Dec-22	3.84
11	Proposed Odoeron 33KV line	Oshodi	Underground	0.4	Dec-22	
12	Proposed Obadore 33KV line	Akwoonjo	Overhead	5	Dec-22	3.84
13	Proposed Obadore 33KV line	Akwoonjo	Underground	0.3	Dec-22	
14	Proposed Fogbile 33KV line	Oshodi	Overhead	5	Dec-22	3.84
15	Proposed Fogbile 33KV line	Oshodi	Underground	0.3	Dec-22	
16	PROPOSED MOJODA 33KV FEEDER EX: JEBU-ODE TS.	Ikorodu	Overhead	2.05	Nov-22	4.80
17	PROPOSED MOJODA 33KV FEEDER EX: JEBU-ODE TS	Ikorodu	Underground	3	Nov-22	
18	Prop. Dangote 33kV Dedicated Feeder ex- Ogba TS	Ikeja	Underground	1.3	Dec-22	3

19	Proposed Fogbille 33KV line	Oshodi	Overhead	5	Dec-22	3.84
20	Proposed Fogbille 33KV line	Oshodi	Underground	0.3	Dec-22	3.84
<b>Total</b>				<b>38</b>		

*Distribution Network: lines*

*Project Type: Rehabilitation of 33KV Feeder*

#	Project Description	Type of Rehabilitation	Location	Route Length (km)	Project Completion Date (MM - YY)
1	33-IkoroduTCN-AGBOWA	Reconducing	Ikorodu	26.28882	Dec-22
2	33-IkoroduTCN-IBESHE	Reconducing	Ikorodu	26.40938	Dec-22
3	33-AmuwoTCN-HONGXING 2	Reconducing	Ikorodu	4.07192	Dec-22
4	33-AmuwoTCN-FESTACI	Reconducing	Ikorodu	8.81346	Dec-22
5	33-IsofoTCN-AFFRINT	Reconducing	Ikorodu		Dec-22
6	33-IsofoTCN-PTC Interface	Reconducing	Ikorodu	7.72432	Dec-22
7	33-EjigboTCN-OKEAPA 1	Reconducing	Ikorodu	1.11876	Dec-22
8	33-AlausoTCN-OPIC	Reconducing	Ikorodu	10.99795	Dec-22
9	33-Oke-AroTCN-AKUTE	Reconducing	Ikorodu	53.17975	Dec-22
10	33-Oke-AroTCN-YIDI	Reconducing	Ikorodu	11.45427	Dec-22
11	33-AyoboTCN-NAMIKANLE	Reconducing	Ikorodu	14.58765	Dec-22
12	33-AyoboTCN-AIYETORO	Reconducing	Ikorodu	5.29843	Dec-22
13	33-AlimoshoTCN-TOWER ALUMINIUM	Reconducing	Ikorodu	7.71453	Dec-22
14	33-OdogunyanTCN-AGBEDE	Reconducing	Ikorodu	35.29742	Dec-22
15	33-AmuwoTCN-NAMUKOKO	Reconducing	Ikorodu	4.93568	Dec-22
16	33-AyoboTCN-AYOBO	Reconducing	Ikorodu		Dec-22
17	33-IkoroduTCN-OWUTU	Reconducing	Ikorodu	5.17914	Dec-22
18	33-OgbaTCN-ABEOKUTA EXP.	Reconducing	Ikorodu	13.29280	Dec-22
19	33-AlausoTCN-ALAUUSA	Reconducing	Ikorodu	0.70453	Dec-22
20	33-MARYLANDTCN-ALAUUSA	Reconducing	Ikorodu	0.70453	Dec-22

21	33-EjigboTCN-SHASHA	Reconducing	Ikorodu	7.00018	Dec-22
22	33-EjigboTCN-AGODO EGBE	Reconducing	Ikorodu	12.24224	Dec-22

*Distribution Network: lines*

*Project Type: Construction of 11KV Feeder*

#	Project Description	Conductor Size (mm2)	Location	Route Length (km)	Project Completion Date (MM - YY)	Expected Impact in MW)
1	Proposed Joshua Oke-Owo 11kv feeder ex-Bolorunpelu 2x15mva	150	Oshodi	0.22	Sep-22	1.92
2	Proposed Joshua Oke-Owo 11kv feeder ex-Bolorunpelu 2x15mva	150	Oshodi	2.78	Sep-22	
3	Proposed Apple Junction 11KV feeder ex-Amuwo 2 x 15MVA	150	Oshodi	2	Sep-22	1.92
4	Proposed Apple Junction 11KV feeder ex-Amuwo 2 x 15MVA	150	Oshodi	0.75	Sep-22	
5	Proposed 11KV feeder for Adiyon Gasline ISS - line 1	150	Abule Egba	1.2	Dec-22	3.84
6	Proposed 11KV feeder for Adiyon Gasline ISS - line 2	150	Abule Egba	1.3	Dec-22	
7	Proposed 11KV feeder for Adiyon Gasline ISS - line 3	150	Abule Egba	1.2	Dec-22	
8	Proposed 11KV feeder for Adiyon Gasline ISS - line 1	150	Abule Egba	0.32	Dec-22	
9	Proposed 11KV feeder for Adiyon Gasline ISS - line 2	150	Abule Egba	0.4	Dec-22	
10	Proposed 11KV feeder for Adiyon Gasline ISS - line 3	150	Abule Egba	0.3	Dec-22	
11	Proposed 11KV feeder for Igbo Olorun - line 1	150	Ikorodu	1.9	Dec-22	3.84
12	Proposed 11KV feeder for Igbo Olorun - line 2	150	Ikorodu	1.9	Dec-22	

13	Proposed 11KV feeder for Igbo Okomu - line 1	150	Ikorodu	0.03	Dec-22	
14	Proposed 11KV feeder for Igbo Okomu - line 2	150	Ikorodu	0.03	Dec-22	
15	Proposed 11KV feeder for Abule toko - line 1	150	Ikorodu	1.95	Dec-22	3.84
16	Proposed 11KV feeder for Abule toko - line 1	150	Ikorodu	0.05	Dec-22	
17	Proposed 11KV feeder for Oluodo - line 1	150	Ikorodu	1.1	Dec-22	3.84
18	Proposed 11KV feeder for Oluodo - line 2	150	Ikorodu	1.1	Dec-22	
19	Proposed 11KV feeder for Oluodo - line 1	150	Ikorodu	0.05	Dec-22	
20	Proposed 11KV feeder for Oluodo - line 2	150	Ikorodu	0.05	Dec-22	
21	Proposed Odogunyan 11KV feeder line 1	150	Ikorodu	1.15	Dec-22	3.84
22	Proposed Odogunyan 11KV feeder line 2	150	Ikorodu	1.6	Dec-22	
23	Proposed Odogunyan 11KV feeder line 1	150	Ikorodu	0.05	Dec-22	
24	Proposed Odogunyan 11KV feeder line 2	150	Ikorodu	0.5	Dec-22	
25	Proposed Shasha 11KV feeder line 1	150	Ikorodu	2.5	Dec-22	3.84
26	Proposed Shasha 11KV feeder line 2	150	Ikorodu	1.5	Dec-22	
27	Proposed Shasha 11KV feeder line 1	150	Ikorodu	0.15	Dec-22	
28	Proposed Shasha 11KV feeder line 2	150	Ikorodu	1.15	Dec-22	
29	Proposed Abesan 11KV feeder line 1	150	Ikorodu	2.15	Dec-22	3.84
30	Proposed Abesan 11KV feeder line 2	150	Ikorodu	0.15	Dec-22	
31	Proposed Alapere 11KV feeder line 1	150	Shomolu	1.05	Dec-22	
32	Proposed Alapere 11KV feeder line 2	150	Shomolu	0.1	Dec-22	
33	Proposed New Oworo 11KV feeder line 1	150	Shomolu	1.05	Dec-22	3.84
34	Proposed New Oworo 11KV feeder line 1	150	Shomolu	0.1	Dec-22	
35	Proposed Owutu 11KV feeder line 1	150	Ikorodu	4.1	Dec-22	3.84
36	Proposed Owutu 11KV feeder line 2	150	Ikorodu	4	Dec-22	
37	Proposed Owutu 11KV feeder line 1	150	Ikorodu	0.1	Dec-22	
38	Proposed Owutu 11KV feeder line 2	150	Ikorodu	0.1	Dec-22	
39	Proposed Ipokodo 11KV feeder line 1	150	Ikorodu	1	Dec-22	3.84

40	Proposed Ipakodo 11KV feeder line 2	150	Ikorodu	1	Dec-22	
41	Proposed Ipakodo 11KV feeder line 1	150	Ikorodu	0.1	Dec-22	
42	Proposed Ipakodo 11KV feeder line 2	150	Ikorodu	0.2	Dec-22	
43	Proposed Odoeran 11KV feeder line 1	150	Oshodi	1.8	Dec-22	3.84
44	Proposed Odoeran 11KV feeder line 2	150	Oshodi	1.5	Dec-22	
45	Proposed Odoeran 11KV feeder line 3	150	Oshodi	1.7	Dec-22	
46	Proposed Odoeran 11KV feeder line 1	150	Oshodi	0.1	Dec-22	
47	Proposed Odoeran 11KV feeder line 2	150	Oshodi	0.1	Dec-22	
48	Proposed Odoeran 11KV feeder line 3	150	Oshodi	0.1	Dec-22	
49	Proposed Obodora 11KV feeder line 1	150	Oshodi	2.5	Dec-22	3.84
50	Proposed Obodora 11KV feeder line 2	150	Oshodi	1.9	Dec-22	
51	Proposed Obodora 11KV feeder line 1	150	Oshodi	0.4	Dec-22	
52	Proposed Obodora 11KV feeder line 2	150	Oshodi	0.5	Dec-22	
53	Proposed Fogbile 11KV feeder line 1	150	Oshodi	2.5	Dec-22	3.84
54	Proposed Fogbile 11KV feeder line 2	150	Oshodi	1.9	Dec-22	
55	Proposed Fogbile 11KV feeder line 1	150	Oshodi	0.4	Dec-22	
56	Proposed Fogbile 11KV feeder line 2	150	Oshodi	0.5	Dec-22	
57	Proposed Balorunpelu 11KV feeder line 1	150	Oshodi	2.2	Dec-22	2.4
58	Proposed Balorunpelu 11KV feeder line 2	150	Oshodi	1.8	Dec-22	
59	Proposed Balorunpelu 11KV feeder line 1	150	Oshodi	4	Dec-22	
60	Proposed Balorunpelu 11KV feeder line 2	150	Oshodi	4	Dec-22	

**Distribution Network: lines**

**Project Type: Rehabilitation of 11KV Feeder**

#	Project Description	Type of Rehabilitation	Location	Route Length (km)	Project Completion Date (MM - YY)
1	11-IjuINj-T2-Agbado 1	Rehabilitation	Iju	10.287484	Dec-22
2	11-IjuINj-T2-Ishaga	Rehabilitation	Iju	7.095236	Dec-22

3	11-Ijaiye OjokoroINJ-T1-Abokuta Express	Rehabilitation	Ijaiye	12.133540	Dec-22
4	11-AgegeINJ-T3-Pen Cinema	Rehabilitation	Dopemu	13.163900	Dec-22
5	11-AgegeINJ-T2-Orile Agege	Rehabilitation	Orile Agege	11.992350	Dec-22
6	11-AdaroniINJ-T1-Arighanlo	Rehabilitation	Orile Agege	6.976260	Dec-22
7	11-AgegeINJ-T3-Tabon Tabon	Rehabilitation	Orile Agege	15.114580	Dec-22
8	11-AbesanINJ-T2-Abesan	Rehabilitation	Gowon	8.016004	Dec-22
9	11-AbesanINJ-T2-Shagari	Rehabilitation	Gowon	5.379024	Dec-22
10	11-AdaroniINJ-T1-NYSC	Rehabilitation	Dopemu	6.111044	Dec-22
11	11-AlimoshoINJ-T4-Akwohio	Rehabilitation	Abule Odu	6.809292	Dec-22
12	11-AgegeINJ-T2-Power Line	Rehabilitation	Orile Agege	7.401144	Dec-22
13	11-Adeniyi JonesINJ-T1-Ajao	Rehabilitation	Anifowoshe	4.501179	Dec-22
14	11-OdogunyanINJ-T1-Industrial	Rehabilitation	PTC	9.637912	Dec-22
15	11-SabaiINJ-T1-Iagos Road	Rehabilitation	Odogunyan	5.021051	Dec-22
16	11-SabaiINJ-T1-Mary Hill	Rehabilitation	Ayangburen	7.355754	Dec-22
17	11-OdogunyanINJ-T2-Cantoment	Rehabilitation	Ayangburen	11.329550	Dec-22
18	11-Agoke EgbelINJ-T1-Akanishe	Rehabilitation	Epe	12.350660	Dec-22
19	11-BolorunpeluINJ-T3-Lasu	Rehabilitation	Ikotun	10.005070	Dec-22
20	11-MafalakuINJ-T1-Saubana	Rehabilitation	Idimu	5.834825	Dec-22
21	11-IiraiINJ-T1-Ademulegun	Rehabilitation	Ajao	7.058850	Dec-22
22	11-Ago OkotaiINJ-T2-Lake View	Rehabilitation	Okota	5.429129	Dec-22
23	11-Oke AlaiINJ-T3-Bungdow	Rehabilitation	Ago	5.967972	Dec-22
24	11-IgbobaiINJ-T1-Military	Rehabilitation	Igbobi	7.824610	Dec-22
25	11-AkokaINJ-T3-Community	Rehabilitation	Igbobi	7.032516	Dec-22
26	11-New YabaiINJ-T2-Jibowu	Rehabilitation	Igbobi	4.361873	Dec-22
27	11-OgudunINJ-T3-Balogun	Rehabilitation	Oworo	16.930000	Dec-22
28	11-IgbobaiINJ-T3-Railway	Rehabilitation	Olateju	6.010205	Dec-22
29	11-IgbobaiINJ-T3-Ikorodu	Rehabilitation	Ilupeju	4.065609	Dec-22
30	11-AloperaiINJ-T1-Agboyi	Rehabilitation	Ketu	7.100706	Dec-22
31	11-OworeaiINJ-T3-Bariga	Rehabilitation	Banga	5.504075	Dec-22
32	11-MagodoaiINJ-T1-Owulade	Rehabilitation	Magodo	3.140649	Dec-22



33	11-Ogudu\NJ-T1-Express	Rehabilitation	ogudu	3.244072	Dec-22
34	11-Mogodol\NJ-T1-Emmanuel Keshi	Rehabilitation	Mogodo	6.208437	Dec-22
35	11-Itrai\NJ-T1-Okota	Rehabilitation	Okota	5.968059	Dec-22
36	11-Oworo\NJ-T1-Anthony	Rehabilitation	Oworo	8.446245	Dec-22
37	11-Itrai\NJ-T2-Candl	Rehabilitation	Ago	8.247301	Dec-22
38	11-Ojodul\NJ-T2-Express	Rehabilitation	Oba Alran	8.325893	Dec-22
39	11-PTC\NJ-T3-General Hospital	Rehabilitation	PTC	7.560688	Dec-22
40	11-Maryland\NJ-T1-PTC	Rehabilitation	PTC	6.534585	Dec-22
41	11-Secretariat\NJ-T2-Agidingbi	Rehabilitation	Anifowoshe	2.349012	Dec-22
42	11-Ilapol\NJ-T1-Ilopo	Rehabilitation	AIT	2.648072	Dec-22
43	11-Ogudu\NJ-T2-Alapere	Rehabilitation	Ogudu	12.656880	Dec-22
44	11-Bolorunpelu\NJ-T3-Governor	Rehabilitation	Idimu	9.790115	Dec-22
45	11-Ogudu\NJ-T1-Ogudu	Rehabilitation	Ogudu	7.447289	Dec-22
46	11-Odogunyan\NJ-T1-Agodo	Rehabilitation	Lasunwon	12.715200	Dec-22
47	11-Oke Irai\NJ-T1-Oke Ira	Rehabilitation	Oke Ira	7.732636	Dec-22
48	11-Ago Okotal\NJ-T1-Amuwo Ind.	Rehabilitation	Amuwo	20.129810	Dec-22
49	11-Magodal\NJ-T1-Balsiru Shitu	Rehabilitation	Mogodo		Dec-22

*Distribution Network: lines*

*Project Type: Construction and Rehabilitation of 0.400KV Feeder*

#	Project Description	Type of Project	Location	Route Length (km)	Project Completion Date (MM - YY)
1	Rehabilitation of IT feeders in ADIYAN	Rehabilitation	ADIYAN	20	Jan-23
2	Rehabilitation of IT feeders in AKUTE	Rehabilitation	AKUTE	11	Jan-23
3	Rehabilitation of IT feeders in FAGBA	Rehabilitation	FAGBA	2	Jan-23
4	Rehabilitation of IT feeders in UAIYE	Rehabilitation	UAIYE	5	Jan-23
5	Rehabilitation of IT feeders in JUJ	Rehabilitation	JUJ	4	Jan-23
6	Rehabilitation of IT feeders in LAMBE	Rehabilitation	LAMBE	5	Jan-23

7	Rehabilitation of LT feeders in A.I.T.	Rehabilitation	A.I.T.	2	Jan-23
8	Rehabilitation of LT feeders in ABORU	Rehabilitation	ABORU	1	Jan-23
9	Rehabilitation of LT feeders in ABULE ODU	Rehabilitation	ABULE ODU	2	Jan-23
10	Rehabilitation of LT feeders in ABULE TAYLOR	Rehabilitation	ABULE TAYLOR	2	Jan-23
11	Rehabilitation of LT feeders in AYOBO	Rehabilitation	AYOBO	6	Jan-23
12	Rehabilitation of LT feeders in DOPEMU	Rehabilitation	DOPEMU	1	Jan-23
13	Rehabilitation of LT feeders in EGBEDA	Rehabilitation	EGBEDA	1	Jan-23
14	Rehabilitation of LT feeders in GOWON	Rehabilitation	GOWON	1	Jan-23
15	Rehabilitation of LT feeders in IPALA	Rehabilitation	IPALA	5	Jan-23
16	Rehabilitation of LT feeders in OKE ODO	Rehabilitation	OKE ODO	1	Jan-23
17	Rehabilitation of LT feeders in ORILE AGEGE	Rehabilitation	ORILE AGEGE	0	Jan-23
18	Rehabilitation of LT feeders in ANIFOWOSHE	Rehabilitation	ANIFOWOSHE	1	Jan-23
19	Rehabilitation of LT feeders in IFAKO	Rehabilitation	IFAKO	1	Jan-23
20	Rehabilitation of LT feeders in OBA AKRAN	Rehabilitation	OBA AKRAN	1	Jan-23
21	Rehabilitation of LT feeders in OGBA	Rehabilitation	OGBA	1	Jan-23
22	Rehabilitation of LT feeders in OJODU	Rehabilitation	OJODU	2	Jan-23
23	Rehabilitation of LT feeders in OKE-IRA	Rehabilitation	OKE-IRA	1	Jan-23
24	Rehabilitation of LT feeders in OREGUN	Rehabilitation	OREGUN	1	Jan-23
25	Rehabilitation of LT feeders in PTC	Rehabilitation	PTC	2	Jan-23
26	Rehabilitation of LT feeders in AYANGBUREN	Rehabilitation	AYANGBUREN	8	Jan-23
27	Rehabilitation of LT feeders in EPE	Rehabilitation	EPE	5	Jan-23
28	Rehabilitation of LT feeders in IGBOGBO	Rehabilitation	IGBOGBO	66	Jan-23
29	Rehabilitation of LT feeders in IJEDE	Rehabilitation	IJEDE	0	Jan-23
30	Rehabilitation of LT feeders in LASUNWON	Rehabilitation	LASUNWON	11	Jan-23
31	Rehabilitation of LT feeders in ODOGUNYAN	Rehabilitation	ODOGUNYAN	5	Jan-23
32	Rehabilitation of LT feeders in OWUTU	Rehabilitation	OWUTU	27	Jan-23
33	Rehabilitation of LT feeders in AGO	Rehabilitation	AGO	1	Jan-23
34	Rehabilitation of LT feeders in AJAO	Rehabilitation	AJAO	1	Jan-23
35	Rehabilitation of LT feeders in AMUWO	Rehabilitation	AMUWO	1	Jan-23
36	Rehabilitation of LT feeders in IDIMU	Rehabilitation	IDIMU	3	Jan-23

37	Rehabilitation of LT feeders in IGANDO	Rehabilitation	IGANDO	9	Jan-23
38	Rehabilitation of LT feeders in IJEGUN	Rehabilitation	IJEGUN	6	Jan-23
39	Rehabilitation of LT feeders in IKOTUN	Rehabilitation	IKOTUN	3	Jan-23
40	Rehabilitation of LT feeders in ISOLO	Rehabilitation	ISOLO	1	Jan-23
41	Rehabilitation of LT feeders in OKE AFA	Rehabilitation	OKE AFA	2	Jan-23
42	Rehabilitation of LT feeders in OKOTA	Rehabilitation	OKOTA	0	Jan-23
43	Rehabilitation of LT feeders in OSHODI	Rehabilitation	OSHODI	1	Jan-23
44	Rehabilitation of LT feeders in BARIGA	Rehabilitation	BARIGA	3	Jan-23
45	Rehabilitation of LT feeders in IGBOBI	Rehabilitation	IGBOBI	4	Jan-23
46	Rehabilitation of LT feeders in IKOSI	Rehabilitation	IKOSI	1	Jan-23
47	Rehabilitation of LT feeders in ILUPEJU	Rehabilitation	ILUPEJU	3	Jan-23
48	Rehabilitation of LT feeders in KETU	Rehabilitation	KETU	1	Jan-23
49	Rehabilitation of LT feeders in MAGGODO	Rehabilitation	MAGGODO	1	Jan-23
50	Rehabilitation of LT feeders in MENDE	Rehabilitation	MENDE	1	Jan-23
51	Rehabilitation of LT feeders in OGUDU	Rehabilitation	OGUDU	0	Jan-23
52	Rehabilitation of LT feeders in OLATEJU	Rehabilitation	OLATEJU	2	Jan-23
53	Rehabilitation of LT feeders in OLOWORA	Rehabilitation	OLOWORA	1	Jan-23
54	Rehabilitation of LT feeders in OWORO	Rehabilitation	OWORO	6	Jan-23

**Distribution Network: stations**

**Project Type: New Construction, Reinforcement and Standardisation of Distribution Substation**

#	Name of Substation	Transformation Voltage (kV)	Rating - KVA	Type of work (New Construction or Replacement)	Location	Quantity	Project Completion Date (MM-YY)
1	Relief of 1 no. Bond C and D Overloaded DTs in Abule Egba BU	33/0.415	500	New Construction	ABULE EGBA	1	Nov-22

2.	Relief of 3no. Band A and B Overloaded DTs in Abule Egba BU	11/0.415	500	New Construction	ABULE EGBA	3	Nov-22
3	Relief of 2no. Band C and D Overloaded DTs in Abule Egba BU	11/0.415	300	Replacement	ABULE EGBA	2	Nov-22
4	Relief of 1no. Band C and D Overloaded DTs in Abule Egba BU	11/0.415	315	Replacement	ABULE EGBA	1	Nov-22
5	Relief of 40no. Band C and D Overloaded DTs in Abule Egba BU	11/0.415	500	New Construction	ABULE EGBA	40	Nov-22
6	Relief of 1no. Band C and D Overloaded DTs in Abule Egba BU	11/0.415	750	New Construction	ABULE EGBA	1	Nov-22
7	Relief of 15No. Band C and D Overloaded DTs in Ikorodu BU	33/0.415	500	New Construction	IKORODU	15	Nov-22
8	Relief of 11No. Band C and D Overloaded DTs in Ikorodu BU	11/0.415	200	Replacement	IKORODU	1	Nov-22
9	Relief of 11No. Band C and D Overloaded DTs in Ikorodu BU	11/0.415	300	Replacement	IKORODU	1	Nov-22
10	Relief of 11No. Band C and D Overloaded DTs in Ikorodu BU	11/0.415	500	New Construction	IKORODU	11	Nov-22
11	Relief of 4no. Band A and B Overloaded DTs in Oshodi BU	11/0.415	500	New Construction	OSHODI	4	Nov-22
12	Relief of 100no. Band C and D Overloaded DTs in Oshodi BU	11/0.415	500	New Construction	OSHODI	100	Nov-22
13	Relief of 1no. overloaded DTs in Akowonjo BU - Band A and B	33/0.415	300	Replacement	AKOWON JO	1	Nov-22
14	Relief of 6no. overloaded DTs in Akowonjo BU - Band A and B	33/0.415	500	New Construction	AKOWON JO	6	Nov-22

15	Relief of 2no. overloaded DTs in Akowonjo BU - Band A and B	11/0.415	50	Replacement	AKOWON JO	2	Nov-22
16	Relief of 1no. overloaded DTs in Akowonjo BU - Band A and B	11/0.415	300	Replacement	AKOWON JO	1	Nov-22
17	Relief of 2no. overloaded DTs in Akowonjo BU - Band A and B	11/0.415	500	New Construction	AKOWON JO	2	Nov-22
18	Relief of 20no. overloaded DTs in Akowonjo BU - Band C and D	11/0.415	25	Replacement	AKOWON JO	20	Nov-22
19	Relief of 12no. overloaded DTs in Akowonjo BU - Band C and D	11/0.415	50	Replacement	AKOWON JO	12	Nov-22
20	Relief of 13no. overloaded DTs in Akowonjo BU - Band C and D	11/0.415	300	Replacement	AKOWON JO	13	Nov-22
21	Relief of 53no. overloaded DTs in Akowonjo BU - Band C and D	11/0.415	500	New Construction	AKOWON JO	53	Nov-22
22	Provision for 200 Distribution Transformers to address newly overloaded Transformers and existing Transformer failures.	11/0.415	500	Replacement	Across the Network	200	Nov-22
23	Transformers on Plinth Batch A	11/0.415	500	New Construction	Across the Network	109	Dec-22

Network: Injection Substations (33/11kV)

Project Type: Construction, Reinforcement and Standardisation of Injection Substation

#	Name of Substation	Location	Number of Units	Type of work	Rating - MVA	Projected Completion Date (MM - YY)	Expected Impact
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1	PROPOSED ADDITIONAL 1 X 15MVA TRANSFORMER AT ABULE IROKO ISS	Abule Egba	1	Additional power transformer	15	Dec-22	3.84
2	PROPOSED ADDITIONAL 1 X 15MVA TRANSFORMER AT ABULE IROKO ISS(Gantry and Switch Yard)	Abule Egba	1	Additional power transformer		Dec-22	4.84
2	PROPOSED Oluodo 1 X 15MVA ISS	Ikorodu	1	Additional power transformer	15	Dec-22	1.84
3	PROPOSED Oluodo 1 X 15MVA ISS (Gantry and Switch Yard)	Ikorodu	1	Additional power transformer		Dec-22	1.84
4	PROPOSED Oluodo 1 X 15MVA ISS (land processing and ISS control room building)	Ikorodu	1	Additional power transformer		Dec-22	2.84
5	Proposed Installation of OLUODO 1x15MVA Injection Substation at Oluodo Estate(power transformer)	Ikorodu	1	Additional power transformer	15	Dec-22	3.84
6	PROPOSED ADIYAN GAS LINE 1 X 15MVA ISS	IKORODU	1	New Construction	15	Dec-22	3.84
7	PROPOSED ADIYAN GAS LINE 1 X 15MVA ISS (Gantry and Switch Yard)	IKORODU	1	New Construction		Dec-22	3.84
8	PROPOSED ADIYAN GAS LINE 1 X 15MVA ISS (land processing and ISS control room building)	IKORODU	1	New Construction		Dec-22	3.84
9	PROPOSED Igba Olomu 1 X 15MVA ISS	IKORODU	1	New Construction	15	Dec-22	3.84
10	PROPOSED Igba Olomu 1 X 15MVA ISS (Gantry and Switch Yard)	IKORODU	1	New Construction		Dec-22	3.84
11	PROPOSED Igba Olomu 1 X 15MVA ISS (land processing and ISS control room building)	IKORODU	1	New Construction		Dec-22	3.84
12	Upgrade of Ijaye-Ojokoro 1 X 15MVA to 2 X 15MVA.	Abule Egba	1	Additional power transformer	15	Dec-22	3.84
13	Proposed additional 1 x 15MVA at Odogunyan 2 x 15MVA ISS	Ikorodu	1	Additional power transformer	15	Dec-22	3.84

14	Proposed additional 1 x 15MVA at Odogunyan 2 x 15MVA ISS (Gantry and Switch Yard)	Ikorodu	1	Additional power transformer		Dec-22	3.84
15	Upgrade of Abesan 2 X 15MVA to 3 X 15MVA.	Akwojinlo	1	Additional power transformer	15	Dec-22	3.84
16	Upgrade of Abesan 2 X 15MVA to 3 X 15MVA.(Gantry and Switch Yard)	Akwojinlo	1	Additional power transformer		Dec-22	3.84
17	Upgrade Alapere 1x15MVA to 2x15MVA	Shomolu	1	Additional power transformer	15	Dec-22	3.84
18	Upgrade Alapere 1x15MVA to 2x15MVA Gantry and Switch Yard)	Shomolu	1	Additional power transformer		Dec-22	3.84
19	Prop. Additional 1x15MVA 33/11kV Transformer at New Oworo ISS	Shomolu	1	Additional power transformer	15	Dec-22	3.84
20	Prop. Additional 1x15MVA 33/11kV Transformer at New Oworo ISS(Gantry and Switch Yard)	Shomolu	1	Additional power transformer		Dec-22	3.84
21	Proposed Odoeran 1x15MVA	Oshodi	1	New Construction	15	Dec-22	3.84
22	Proposed Odoeran 1x15MVA (Gantry and Switch Yard)	Oshodi	1	New Construction		Dec-22	3.84
23	Proposed Odoeran 1x15MVA (land processing and ISS control room building)	Oshodi	1	New Construction		Dec-22	3.84
24	Propose upgrading of Bolonupelu 2x15MVA ISS to 3x15MVA ISS	Oshodi	1	New Construction	15	Dec-22	2.40
25	Propose upgrading of Bolonupelu 2x15MVA ISS to 3x15MVA ISS (Gantry and Switch Yard)	Oshodi	1	New Construction	15	Dec-22	2.40
26	Adeniyi Jones Substation	Ikeja	1	Replacement of failed transformer	15	Jul-22	
27	Lambe Substation	Abule Egba	1	Replacement of failed transformer	15	Jul-22	
28	Maryland Substation	Shomolu	1	Replacement of failed transformer	15	Jul-22	

29	Ogba Substation	Ikeja	1	Replacement of failed transformer	15	Jul-22	
30	PROPOSED ADDITIONAL 1 X 15MVA TRANSFORMER AT ABULE IROKO ISS	Abule Egba	1	Additional power transformer	15	Dec-22	3.84
31	Upgrade of Ekoro 1 X 15MVA to 2 X 15MVA.	Abule Egba	1	Additional power transformer	15	Dec-22	3.84
32	Upgrade of Ekoro 1 X 15MVA ISS (Gantry and Switch Yard)	Abule Egba	1	Additional power transformer		Dec-22	3.84
33	Upgrade of Shasha 1 X 15MVA to 2 X 15MVA.	Akwohio	1	Additional power transformer	15	Dec-22	3.84
34	Upgrade of Shasha 1 X 15MVA to 2 X 15MVA.(Gantry and Switch Yard)	Akwohio	1	Additional power transformer		Dec-22	3.84
35	Proposed Upgrade of Owuru 2x15MVA to 3x15MVA 33/11kV ISS	Ikorodu	1	Additional power transformer	15	Dec-22	3.84
36	Proposed Upgrade of Owuru 2x15MVA to 3x15MVA 33/11kV ISS(Gantry and Switch Yard)	Ikorodu	1	Additional power transformer		Dec-22	3.84
37	Upgrade of Ipakodo 1x15MVA to 2x15MVA	Ikorodu	1	Additional power transformer	15	Dec-22	3.84
38	Upgrade of Ipakodo 1x15MVA to 2x15MVA(Gantry and Switch Yard)	Ikorodu	1	Additional power transformer		Dec-22	3.84
39	Proposed Okunola 1x15MVA		1	New Construction	15	Dec-22	3.84
40	Proposed Okunola 1x15MVA (Gantry and Switch Yard)	Akwohio	1	New Construction		Dec-22	3.84
41	Proposed Okunola 1x15MVA (land processing and ISS control room building)	Akwohio	1	New Construction		Dec-22	3.84
42	Proposed Baruwa 1x15MVA	Akwohio	1	New Construction	15	Dec-22	3.84
43	Proposed Baruwa 1x15MVA (Gantry and Switch Yard)	Akwohio	1	New Construction		Dec-22	3.84
44	Proposed Baruwa 1x15MVA (land processing and ISS control room building)	Akwohio	1	New Construction		Dec-22	3.84



45	Proposed Fogbile 1x15MVA	Oshodi	1	New Construction	15	Dec-22	3.84
46	Proposed Fogbile 1x15MVA (Gantry and Switch Yard)	Oshodi	1	New Construction		Dec-22	3.84
47	Proposed Fogbile 1x15MVA (land processing and ISS control room building)	Oshodi	1	New Construction		Dec-22	3.84
48	Prop. Dangole 33KV Dedicated Feeder ex: Ogba TS - Boy	Ikeja	1	New Construction		Dec-22	3.00
49	Ogba Substation	Ikeja	1	Replacement of failed transformer	15	Dec-22	
50	PTC Substation	Ikeja	1	Replacement of failed transformer	15	Dec-22	
51	Yusuf Substation	Abulegba	1	Replacement of failed transformer	15	Dec-22	
52	New Gowon Substation	Akowonjo	1	Replacement of failed transformer	15	Dec-22	
53	Provision of additional Power Transformer		1	Replacement of failed transformer	15	Jan-23	
54	Power Transformer Reconditioning	Across the network	8	Reconditioning of power transformer	15	Jan-23	

**Network: Standardisation of Existing Injection Substations (33/11KV)**

**Project Type: Replacement of Switch Gears, Control Panel and Protection Equipment**

#	Name of Substation	Description	Location	Quantity	Project Completion Date (MM - YY)
1	Installing NARI relays to protect broken conductors on 50 feeders.	Installing of digital relays for protection		50	Jan-23

*For MR*  


2	Replacement of obsolete Transformer Control Panels at Various Injection Substations	Installation of 11kv panel and transformer control panel		14	Jan-23	
3	Replacement of panels in 20Injection Substations	11kv Incomer Circuit breaker	Across the network	24	Dec-22	
4	Replacement of panels in 20 Injection Substations	11kv Bus Coupler breaker	Across the network	10	Dec-22	
5	Replacement of panels in 20 Injection Substations	11kV outgoing circuit breaker	Across the network	73	Dec-22	
6	Installation of protective equipment of top 20% substations (D-fuse, Gong Isolators, Lighting Arresters)	Standardisation	Across the Network		Jan 23	
7	Standardization of top 20% of substations (fencing, DT RTU and feeder pillars) - Batch A	Standardisation	Across the Network		Jan-23	

**AT&C Loss Reduction Plan**

#	Name	Description	Quantity	Project Completion Date (MM - YY)	Expected Impact (Gwh)
1	11-Ayobol(N)-11-Ayoba	Migrate customers to Band B from D	1	Dec-22	0.54
2	11-Alajal(N)-11-Koloba	Migrate customers to Band B from D	1	Dec-22	0.46
3	11-Igbobal(N)-13-Mushin	Migrate customers to Band B from D	1	Dec-22	0.57
4	11-Yidil(N)-11-Opailu	Migrate customers to Band B from D	1	Dec-22	0.81
5	11-Owulil(N)-12-Asolo	Migrate customers to Band B from D	1	Dec-22	0.89
6	11-Igbobal(N)-11-Ofin	Migrate customers to Band B from D	1	Dec-22	0.62
7	11-Ipakoda (Eburaj)(N)-11-Abuja	Migrate customers to Band B from D	1	Dec-22	0.62

8	11-Sabon/NJ-T2-Erunwen	Migrate customers to Band B from D	1	Dec-22	0.76
9	11-Ipakodo (Ebute)/NJ-T1-WAEC	Migrate customers to Band B from D	1	Dec-22	0.63
10	11-Agege/NJ-T2-Abule Egba	Migrate customers to Band B from D	1	Dec-22	0.79
11	11-Ipakodo (Ebute)/NJ-T1-Ipakodo	Migrate customers to Band B from D	1	Dec-22	0.25
12	11-Sabon/NJ-T1-Ijebu Ode	Migrate customers to Band B from D	1	Dec-22	0.76
13	11-Wasimil/NJ-T2-Wasimi	Migrate customers to Band B from D	1	Dec-22	0.65
14	11-Ekoro/NJ-T1-Oke Odo	Migrate customers to Band B from D	1	Dec-22	0.65
15	11-Odogunyan/NJ-T2-Ija Oluwo	Migrate customers to Band B from D	1	Dec-22	0.75
16	11-Sabon/NJ-T2-Ladega	Migrate customers to Band B from D	1	Dec-22	0.68
17	11-Wasimil/NJ-T1-Akanimodo	Migrate customers to Band B from D	1	Dec-22	0.48
18	11-Wasimil/NJ-T2-Agidi	Migrate customers to Band B from D	1	Dec-22	0.50
19	11-Abesan/NJ-T1-Baruwa	Migrate customers to Band B from D	1	Dec-22	0.58
20	11-Owutu/NJ-T1-Agric	Migrate customers to Band B from D	1	Dec-22	0.51
21	11-Owutu/NJ-T2-Mojidun	Migrate customers to Band B from D	1	Dec-22	0.27
22	11-Ayetoro/NJ-T1-Itele	Migrate customers to Band B from D	1	Dec-22	0.63
23	11-Abule Iroko/NJ-T1-Books	Migrate customers to Band B from D	1	Dec-22	0.26
24	11-Igbogbo/NJ-T2-Agbele	Migrate customers to Band B from D	1	Dec-22	0.66
25	11-Ijedel/NJ-T1-Gberibe	Migrate customers to Band B from D	1	Dec-22	0.25
26	11-Igbogbo/NJ-T2-Odofin	Migrate customers to Band B from D	1	Dec-22	0.63
27	11-Owutu/NJ-T1-On Okuta	Migrate customers to Band B from D	1	Dec-22	0.69
28	11-Ope Iju/NJ-T1-Ijoko	Migrate customers to Band B from D	1	Dec-22	0.64
29	11-Abule Iroko/NJ-T1-Abule Iroko	Migrate customers to Band B from D	1	Dec-22	0.60
30	11-Akute Iju/NJ-T1-Ishashi	Migrate customers to Band B from D	1	Dec-22	0.42
31	11-Akute Iju/NJ-T1-Oyeyemi	Migrate customers to Band B from D	1	Dec-22	0.25
32	11-Ijaiye Ojokoro/NJ-T2-Agbado 2	Migrate customers to Band B from D	1	Dec-22	0.47
33	11-Abule Iroko/NJ-T1-Aiakuko	Migrate customers to Band B from D	1	Dec-22	0.52
34	11-Ope Iju/NJ-T1-Adiyon	Migrate customers to Band B from D	1	Dec-22	0.61
35	11-Yusuf/NJ-T2-Akera	Migrate customers to Band B from D	1	Dec-22	0.49
36	11-Ekoro/NJ-T1-Ajasa	Migrate customers to Band B from D	1	Dec-22	0.50
37	11-Sabon/NJ-T2-Igbogbo	Migrate customers to Band B from D	1	Dec-22	0.63

38	11-Ijedel/NJ-T1-Luwasa	Migrate customers to Band B from D	1	Dec-22	0.06
39	11-Igandol/NJ-T2-Akesson	Migrate customers to Band B from D	1	Dec-22	0.37
40	11-Oke Afai/NJ-T3-Ori Oke	Migrate customers to Band B from D	1	Dec-22	0.67
41	11-Oke Afai/NJ-T1-Ejigbo	Migrate customers to Band B from D	1	Dec-22	0.55
42	11-Wasimil/NJ-T1-Agilite	Migrate customers to Band B from D	1	Dec-22	0.57
43	11-Amuwol/NJ-T1-Old Ojo Road	Migrate customers to Band B from D	1	Dec-22	0.23
44	11-Igandol/NJ-T2-Agric Road	Migrate customers to Band B from D	1	Dec-22	0.46
45	11-Ilegun/NJ-T2-Ilegun	Migrate customers to Band B from D	1	Dec-22	0.60
46	11-Ilegun/NJ-T2-Isheri Oshun	Migrate customers to Band B from D	1	Dec-22	0.55
47	11-Ilegun/NJ-T1-Okerube	Migrate customers to Band B from D	1	Dec-22	0.16
48	11-Ilegun/NJ-T1-Obalogbe	Migrate customers to Band B from D	1	Dec-22	0.57
49	11-Ope Ilu/NJ-T1-Aboro	Migrate customers to Band B from D	1	Dec-22	0.47
50	11-Shoshal/NJ-T1-Foursquare	Migrate customers to Band B from D	1	Dec-22	0.51
51	11-Shoshal/NJ-T1-Ogunthode	Migrate customers to Band B from D	1	Dec-22	0.37
52	11-New Gomon/NJ-T1-Kuwali	Migrate customers to Band B from D	1	Dec-22	0.24
53	11-Abesan/NJ-T1-Aboru	Migrate customers to Band B from D	1	Dec-22	0.53
54	11-Shoshal/NJ-T1-Orisubare	Migrate customers to Band B from D	1	Dec-22	0.54
55	11-Ekorol/NJ-T2-Okoto	Migrate customers to Band B from D	1	Dec-22	0.46
56	11-Yusuf/NJ-T2-Agbefa	Migrate customers to Band B from D	1	Dec-22	0.43
57	11-Ekorol/NJ-T2-Agbefe	Migrate customers to Band B from D	1	Dec-22	0.55
58	11-Amikanle/NJ-T1-Aiyetohi	Migrate customers to Band B from D	1	Dec-22	0.59
59	11-Abule Taylor/NJ-T1-Bode Williams	Migrate customers to Band B from D	1	Dec-22	0.70
60	11-Alimoshol/NJ-T6-Shosha	Migrate customers to Band B from D	1	Dec-22	0.67
61	11-Abule Taylor/NJ-T1-Walter Anderm	Migrate customers to Band B from D	1	Dec-22	0.37
62	11-Owutai/NJ-T2-Isawo	Migrate customers to Band B from D	1	Dec-22	0.77
63	11-Ago Okoro/NJ-T2-Oke Ogbere	Migrate customers to Band B from D	1	Dec-22	0.59
64	11-Igandol/NJ-T1-Egon	Migrate customers to Band B from D	1	Dec-22	0.49
65	11-Igandol/NJ-T1-Obadore	Migrate customers to Band B from D	1	Dec-22	0.46
66	11-Igandol/NJ-T2-General Hospital	Migrate customers to Band B from D	1	Dec-22	0.61

67	11-Ileguani/NJ-T1-Ikolun	Migrate customers to Band B from D	1	Dec-22	0.71
68	11-Oke Afai/NJ-T3-NNNPC	Migrate customers to Band B from D	1	Dec-22	0.62
69	11-Bolorunpelu/NJ-T1-Idimu	Migrate customers to Band B from D	1	Dec-22	0.61
70	11-Mushin/NJ-T1-Mushin	Migrate customers to Band B from D	1	Dec-22	0.53
71	11-Ekorol/NJ-T2-Ekoro	Migrate customers to Band B from D	1	Dec-22	0.65
72	11-Ileguani/NJ-T2-Pipeline	Migrate customers to Band B from D	1	Dec-22	0.54
73	33-Oke-Aro/TCNAKUTE	Migrate customers to Band B from D	1	Dec-22	2.23
74	11-Epel/NJ-T1-Water Works	Migrate customers to Band B from E	1	Dec-22	0.40
75	11-Epel/NJ-T1-Township	Migrate customers to Band B from E	1	Dec-22	0.43
76	11-Epel/NJ-T1-LASU	Migrate customers to Band B from E	1	Dec-22	0.40

**IT Investments (SCADA)**

#	Name	Description	Project Completion Date (MM - YY)
1	SCADA Phase 1	Readiness feasibility study of IE distribution network	Mar-22
2	Geographic Network Monitoring System	Phased deployment of GNMS on Gold Feeders - Phase 4	Nov-22
3	Geographic Network Monitoring System	Phased deployment of GNMS on Silver and Bronze Feeders - Phase 5	Dec-22

**Customer Service Improvement Plan**

#	Name	Description	Quantity	Project Completion Date (MM - YY)

1	Fault Passage Indicators (FPI)	Deployment of FPIs on 20 Identified feeders across the network	2130	Jun'22
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*Other Service Improvement Plan*

#	Name	Description	Other	Project Completion Date (MM - YY)	Expected Impact in MW)
1	Prop. Dangote 33KV Dedicated Feeder ex- Ogba TS - Bay	New Construction - Bay		Dec'22	3.00
2	PROPOSED MOJODA 33KV FEEDER EX- JEBULODE TS (Bay)	New Construction - Bay		Nov'22	4.80