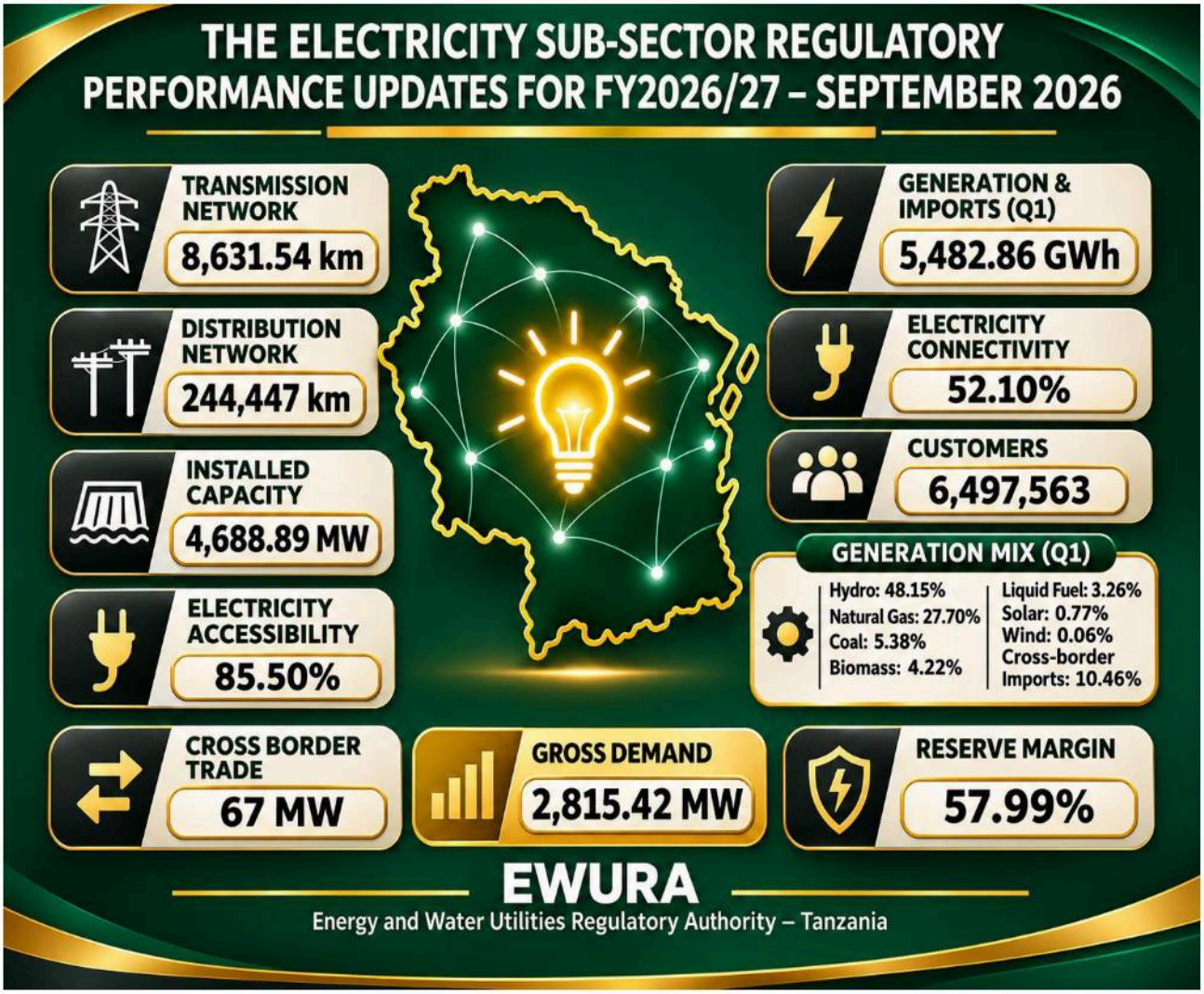
UNITED REPUBLIC OF TANZANIA

MINISTRY OF ENERGY

# ENERGY AND WATER UTILITIES REGULATORY AUTHORITY (EWURA)





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## ABBREVIATIONS AND ACRONYMS

| | | |
|---|---|---|
| AHEPO | : | Andoya Hydro Electric Power Limited |
| CAIDI | : | Customer Average Interruption Duration Index |
| Cap. | : | Chapter |
| COD | : | Commercial Operation Date |
| EMC | : | Electromagnetic Compatibility |
| ESI | : | Electricity Supply Industry |
| ESIRSR | : | Electricity Supply Industry Reform Strategy and Roadmap |
| EWURA | : | Energy and Water Utilities Regulatory Authority |
| GN | : | Government Notice |
| GO | : | Gas Oil |
| GW | : | Giga Watt |
| GWh | : | Gigawatt-hour |
| HFO | : | Heavy Fuel Oil |
| HSE | : | Health, Safety and Environment |
| IDO | : | Industrial Diesel Oil |
| IMO | : | Independent Market Operator |
| IPP | : | Independent Power Producer |
| ISO | : | Independent System Operator |
| km | : | Kilometre |
| kV | : | Kilo Volt |
| LV | : | Low Voltage |
| MoE | : | Ministry of Energy |
| MV | : | Medium Voltage |
| MVA | : | Mega Volt Ampere |
| MW | : | Mega Watt |
| MWh | : | Megawatt-hour |
| PPA | : | Power Purchase Agreement |
| REA | : | Rural Energy Agency |
| SAIDI | : | System Average Interruption Duration Index |
| SAIFI | : | System Average Interruption Frequency Index |
| SAIFI-CP | : | System Average Interruption Frequency Index at Connection Point |
| SPP | : | Small Power Producer |
| SPPA | : | Standardized Power Purchase Agreement |
| SPPT | : | Standardized Small Power Projects Tariff |
| SGR | : | Standard Gauge Railway |
| TANESCO | : | Tanzania Electric Supply Company Limited |
| TANWAT | : | Tanganyika Wattle Company Limited |
| TBS | : | Tanzania Bureau of Standards |
| TGP | : | Tegeta Gas Power Plant |
| TPC | : | Tanganyika Planting Company |
| UGP1 | : | Ubungo Gas Power Plant 1 |
| UGP2 | : | Ubungo Gas Power Plant 2 |
| VSPP | | Very Small Power Producer |
| ZECO | : | Zanzibar Electricity Corporation Limited |

## EXECUTIVE SUMMARY

**Introduction:** This regulatory performance update presents the status of Mainland Tanzania's Electricity Supply Industry (ESI). It is prepared under the Electricity Act, Cap. 131, R.E. 2023, particularly the provisions on monitoring and publication of periodic performance information. The report draws on the latest available quarterly regulatory records and the FY2025/26 annual sector results as a baseline; annual outcomes should not be interpreted as new quarterly

**Electricity Supply Industry Performance Overview:**The Electricity Supply Industry continued to expand from FY2025/26 to FY2026/27, with installed generation capacity increasing from 4,648.69 MW to 4,688.89 MW (0.86%) and gross demand rising from 2,672.59 MW to 2,815.42 MW (5.34%). The reserve margin improved from 49.36% to 57.99% (8.63 percentage points). The transmission network expanded from 8,500.38 km to 8,631.54km (1.54%), the distribution network expanded from 236,045.06km to 244,447.00 km (3.56%). Electricity accessibility and connectivity stood at 85.50% and 52.10%, while customer connections increased from 6,323,491 to 6,497,563to (2.75%). Transmission reliability remained within regulatory targets, with SAIFI-CP at 1.1 interruptions against a target of 10.0 and SAIDI-CP at 0.69 hours against a target of 6.50. Distribution reliability remained within the prescribed SAIFI and SAIDI targets, recording 4.66 interruptions against a target of 26.00 and 722.08 minutes against a target of 1,536, respectively. However, CAIDI reached 154.90 minutes, exceeding the 59-minute target and indicating the need to improve supply restoration. These developments reflect continued improvements in electricity access, infrastructure, security of supply and reliability.

**Regulatory Oversight and Investment:** 12,187 electricity-related licences were active, comprising 68 licences for regulated electricity activities and 12,119 electrical installation personnel licences. A total of 406 licences had been issued in FY2026/27, including two generation licences with combined capacity of 66.70 MW and 404 electrical installation licences. Regulatory oversight continued through licensing, tariffs, procurement and PPA review, performance monitoring and complaint resolution.

**Electricity Demand and Generation:** Electricity demand continued to grow during Q1 FY2026/27, with gross demand increasing by 142.83 MW (5.34%), from 2,672.59 MW in FY2025/26 to 2,815.42 MW. Total electricity generation and cross-border imports reached 5,482.86 GWh, with hydropower and natural gas contributing 75.85% of the electricity supply mix. The reserve margin increased from 49.36% to 57.99%, indicating adequate generation capacity. However, average plant availability stood at 80.62%, below the regulatory target of 88%, while utilisation reached 47.49%. Improving plant availability,

operational efficiency and generation diversification therefore remains a key regulatory priority.

**Transmission, Distribution and Electrification:** The transmission network expanded from 8,500.38 km to 8,631.54 km (1.54%), while SAIFI-CP and SAIDI-CP stood at 1.1 interruptions and 0.69 hours, respectively, within regulatory targets of 10.0 and 6.50. The distribution network increased from 236,045.06 km to 244,447.00 km (3.56%), while electricity customers rose from 6,323,491 to 6,497,563 (2.75%). Electricity accessibility and connectivity stood at 85.50% and 52.10%, respectively. Distribution reliability remained within SAIFI and SAIDI targets, recording 4.66 interruptions against 26 and 722.08 minutes against 1,536, respectively. However, CAIDI reached 154.90 minutes, exceeding the 59-minute target and highlighting the need to improve electricity supply restoration.

**Energy Losses:** Combined transmission and distribution losses increased from 14.28% to 14.36%, remaining below the regulatory target of 14.88%. Transmission losses declined from 5.88% to 5.73% and within a target of 5.88%, while distribution losses increased from 8.40% to 8.63% and within a target of 9%. The upward trend in overall losses highlights the need for continued loss-reduction measures to improve operational efficiency.

**Market Development and Private Investment:** The Electricity Supply Industry remained highly concentrated during Q1 FY2026/27, with TANESCO accounting for 83.25% of installed generation capacity, private power producers 5.41%, own-use generation 9.91%, and cross-border imports 1.44%. TANESCO also dominated electricity transmission and distribution, accounting for 100% of transmission infrastructure, 99.5% of distribution infrastructure, and 99.6% of distribution customers. This market structure highlights the need to strengthen competition, competitive procurement and private-sector investment while safeguarding electricity affordability, reliability and security of supply.

**Consumer Protection and Emerging Opportunities:** Consumer protection remained a key regulatory priority, with EWURA resolving 20 electricity-related complaints and disputes in FY2026/27, compared with 79 during the entire FY2025/26. Complaints mainly concerned property damage, customer service and electricity connections. Continued expansion of electricity access also presents opportunities for electric cooking, net metering, distributed generation, electromobility and energy efficiency, requiring appropriate regulatory oversight to safeguard consumer interests and supply reliability.

**Key Achievements, Challenges and Continued Regulatory Priorities:** The Electricity Supply Industry recorded notable progress, including increased generation capacity, transmission and distribution network expansion, improved supply adequacy, customer connections and transmission reliability, supported by continued regulatory oversight. However, key challenges included rapid demand growth, limited private-sector

participation, generation availability below the regulatory target, increasing electricity losses, prolonged supply restoration and substantial infrastructure financing requirements. Regulatory priorities will therefore focus on mobilising investment, promoting competition, improving generation and network efficiency, reducing losses, strengthening reliability and consumer protection, diversifying generation sources and facilitating emerging technologies, including net metering and electromobility.

**Conclusion:** The assessment demonstrates continued progress in Tanzania's Electricity Supply Industry, particularly in generation capacity, infrastructure expansion, electricity access, supply adequacy and reliability. Despite these achievements, rapid demand growth, market concentration, generation availability below regulatory targets, increasing electricity losses and prolonged supply restoration remain key challenges. Going forward, EWURA will prioritise strengthening regulatory oversight, facilitating public and private investment, improving operational efficiency and service quality, promoting competition and generation diversification, and safeguarding consumer interests. These measures will be essential to ensuring a reliable, affordable, efficient, safe, competitive and sustainable electricity supply industry that supports Tanzania's socio-economic development.

# 1. INTRODUCTION

Electricity plays a vital role in socio-economic development. Accordingly, the Government has established institutions within the Electricity Supply Industry (ESI) to ensure the provision of reliable, affordable, and quality electricity services in accordance with applicable legislation and national development priorities.

The key institutions in the ESI include the Ministry of Energy (MoE), which provides overall policy direction and oversight; the Energy and Water Utilities Regulatory Authority (EWURA), which is responsible for the technical and economic regulation of the electricity sub- sector; the Rural Energy Agency (REA), which promotes and facilitates rural electrification; and the Tanzania Electric Supply Company Limited (TANESCO), which undertakes regulated electricity supply activities. In addition, the industry comprises private sector entities involved in electricity generation, transmission, distribution, supply, and sale under the applicable regulatory framework.

The Energy and Water Utilities Regulatory Authority (EWURA) exercises its regulatory mandate in accordance with Section 6 of the Electricity Act, Cap. 131, R.E. 2023. In fulfilling this mandate, EWURA grants licences to persons undertaking or seeking to undertake licensed activities, approves and enforces tariffs and fees charged by licensees, approves terms and conditions for electricity supply, and approves the commencement of procurement processes for new electricity supply installations.

Furthermore, EWURA performs its regulatory functions in accordance with Section 7 of the Electricity Act, Cap. 131, R.E. 2023. In discharging these functions, EWURA safeguards customer interests by promoting competition, accessibility, and affordability of electricity services. It also promotes least-cost investment, security of supply, operational efficiency, efficient utilisation of electricity, and compliance with appropriate standards for quality, reliability, and affordability of electricity supply, while supporting environmental conservation and sustainable development of the electricity sector.

This report presents updates on the regulatory performance of the electricity sub-sector, covering key areas including electricity generation, transmission, distribution, supply, and cross-border electricity trade. The report is prepared in accordance with Section 32 of the Electricity Act, Cap. 131, R.E. 2023, which requires EWURA to monitor, measure, and publish the performance of regulated entities. The assessment covers, among other areas, the quality, reliability, and security of electricity supply, progress in electrification, investment, operational efficiency, and customer service standards.

## 2. OVERVIEW OF THE ELECTRICITY SUPPLY INDUSTRY

This section provides an overview of Tanzania Mainland's Electricity Supply Industry (ESI), including its institutional structure, key stakeholders, regulatory instruments, and regulatory objectives. It sets out the framework within which electricity generation, transmission, distribution, supply and related activities are administered and regulated.

### 2.1 Institutional Structure of the Electricity Supply Industry

The Electricity Supply Industry (ESI) in Tanzania Mainland comprises public institutions, regulated entities and private-sector participants. The institutional structure and roles is presented in **Figure 1**, with details provided in **Annex 1**.

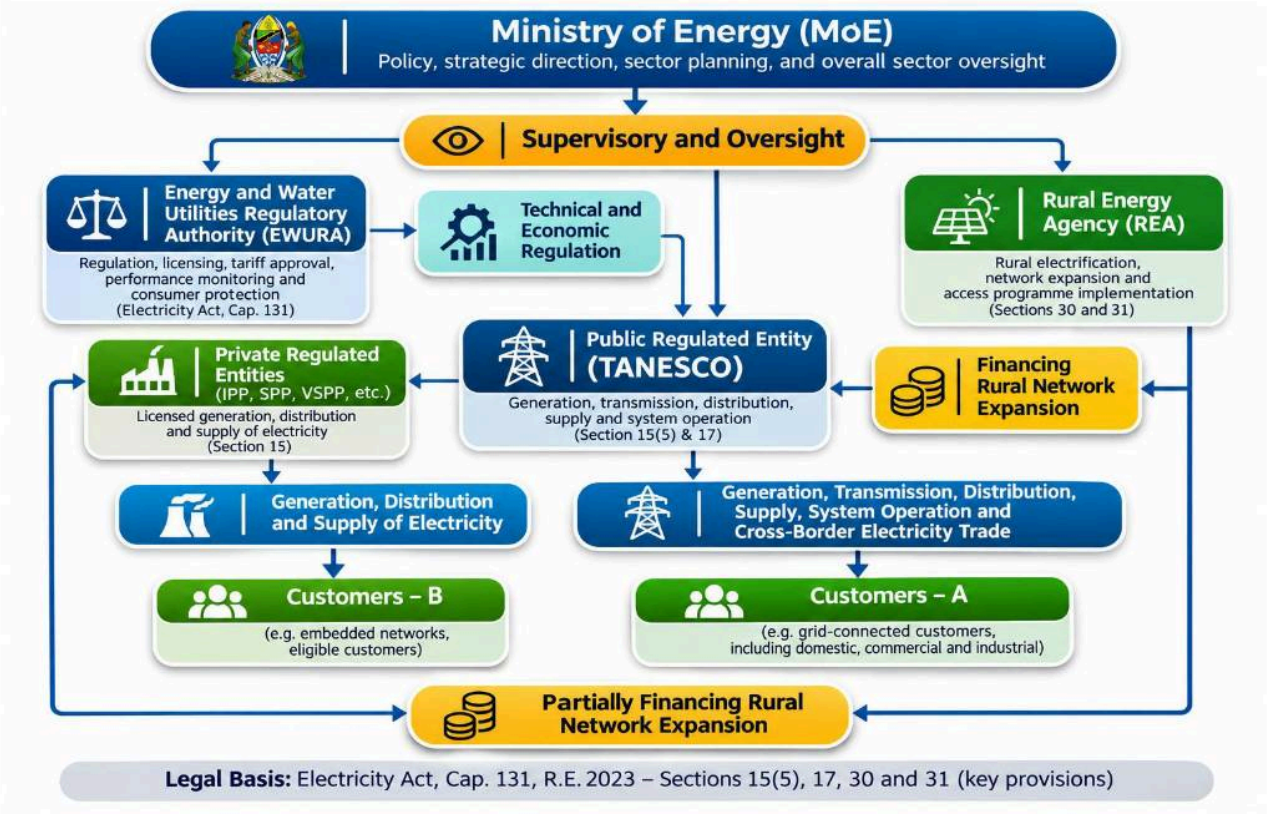



**Figure 1: The Electricity Supply Industry Institutional Structure**

### 2.2 Regulatory Tools

The Electricity Supply Industry (ESI) is governed by regulatory tools for licensing, tariff regulation, technical and economic oversight, compliance monitoring and enforcement to promote efficiency, reliability, service quality and consumer protection. The key tools are presented in **Figure 2**, detailed in **Annex 2**, and available on the at *https://www.ewura.go.tz/electricity-regulatory-tools/.*

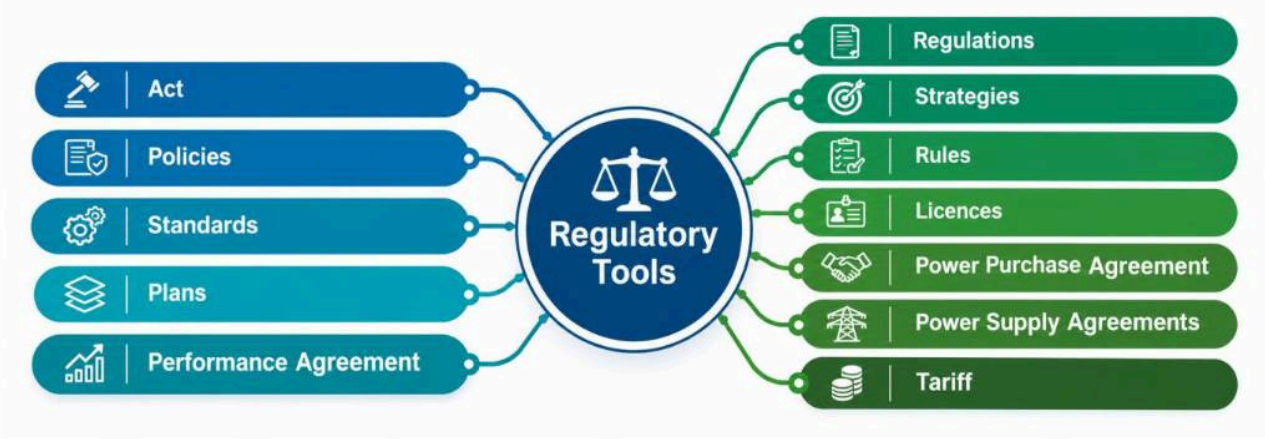



**Figure 2: Regulatory Tools in The Electricity Supply Industry**

## 2.3 Regulatory Goals

The regulation of the Electricity Supply Industry (ESI) is guided by the regulatory goals stipulated under Section 32(7) of the Electricity Act, Cap. 131, R.E. 2023 including those in **Figure 3**. These goals provide the framework for assessing and monitoring the performance of regulated entities and ensuring the provision of efficient, reliable, affordable, safe, and quality electricity services.




**Figure 3: Regulatory Goals**

## 3. REGULATORY ACTIVITIES AND MARKET DEVELOPMENT

Regulatory approvals are issued or granted in accordance with the applicable legislation, regulations, rules, and regulatory frameworks to support the effective administration, development, and operation of the Electricity Supply Industry (ESI). These approvals facilitate regulatory oversight and ensure that electricity sector activities are undertaken in compliance with established technical, economic, safety, and consumer protection requirements. The key regulatory approvals are presented in **Figure 4**, with further details provided in this section.




**Figure 4: Regulatory Approvals**

## 3.1 Licence

Electricity activities with a capacity above one (1) MW require a licence in accordance with Sections 9(1) and 20(4) of the Electricity Act, Cap. 131, R.E. 2023. The licensing requirement provides a regulatory framework for ensuring that electricity activities are undertaken in compliance with applicable technical, economic, safety, and consumer protection requirements. The categories of electricity activities subject to licensing are presented in **Figure 5**.




**Figure 5: Activities Requiring Licence**

### 3.1.1 Existing licence

During FY 2026/27, 12,187 active licences were in force, comprising 68 licences for regulated electricity activities and 12,119 electrical installation personnel licences, as

presented in **Figure 6** with details provided in **Annex 3**. During the year, 406 licences were issued, including 2 licences for electricity generation activities and 404 electrical installation licences.

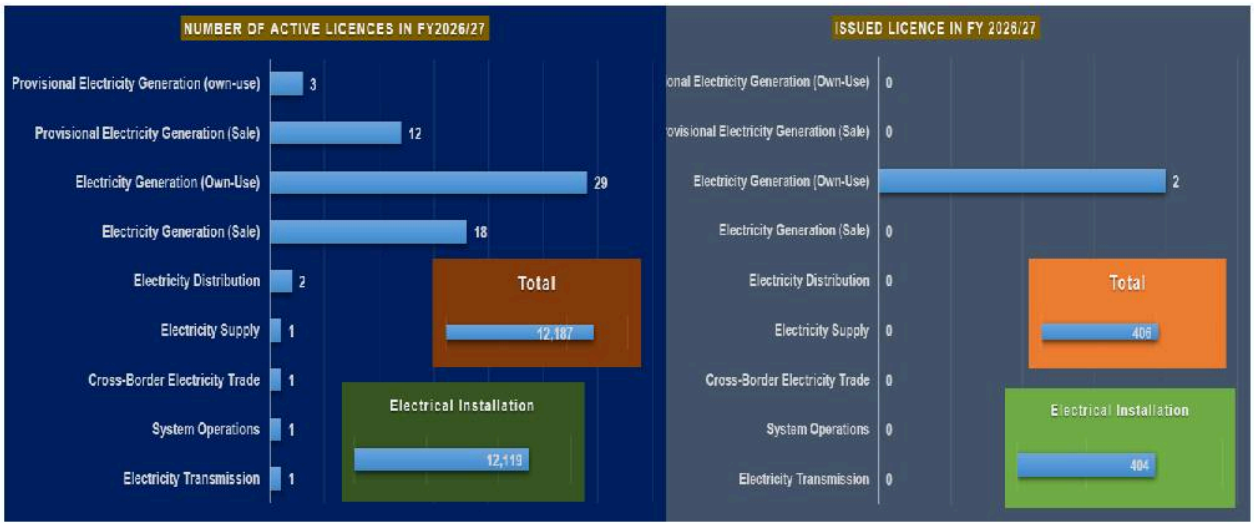



**Figure 6: Issued Licence**

### 3.1.2 The Electricity Generation Licences

Electricity generation licences are issued to entities undertaking electricity generation activities in accordance with Sections 6(a) and 9(1)(a) of the Electricity Act, Cap. 131, R.E. 2023. The licences comprise operational generation licences for entities operating generation facilities and provisional generation licences for entities developing generation projects at various stages. The categories of electricity generation licences are presented in **Figure 7**.




**Figure 7: Categories of Electricity Generation Licence**

### 3.1.2.1 Trend of Issuance of Electricity Generation Licence

Electricity generation licence issuance fluctuated over the review period. In FY 2026/27, two (2) generation licences were issued, covering a total capacity of 66.7MW, as presented in **Figure 8**. It reflects continued investment in electricity generation capacity.

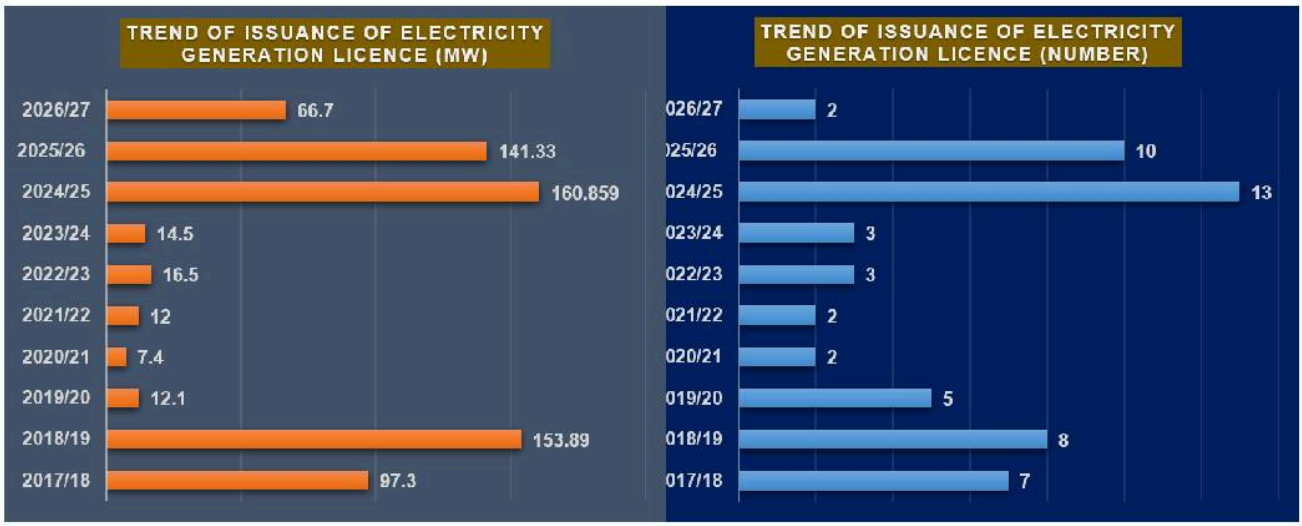



**Figure 8: Trend of Issuance of Electricity Generation Licence**

### 3.1.2.2 Electricity Generation Licences (Operational)

The generation licences in force are presented in **Figure 9** with details in **Annex 3**. It indicates significant role of grid-connected and captive generation in the electricity market.

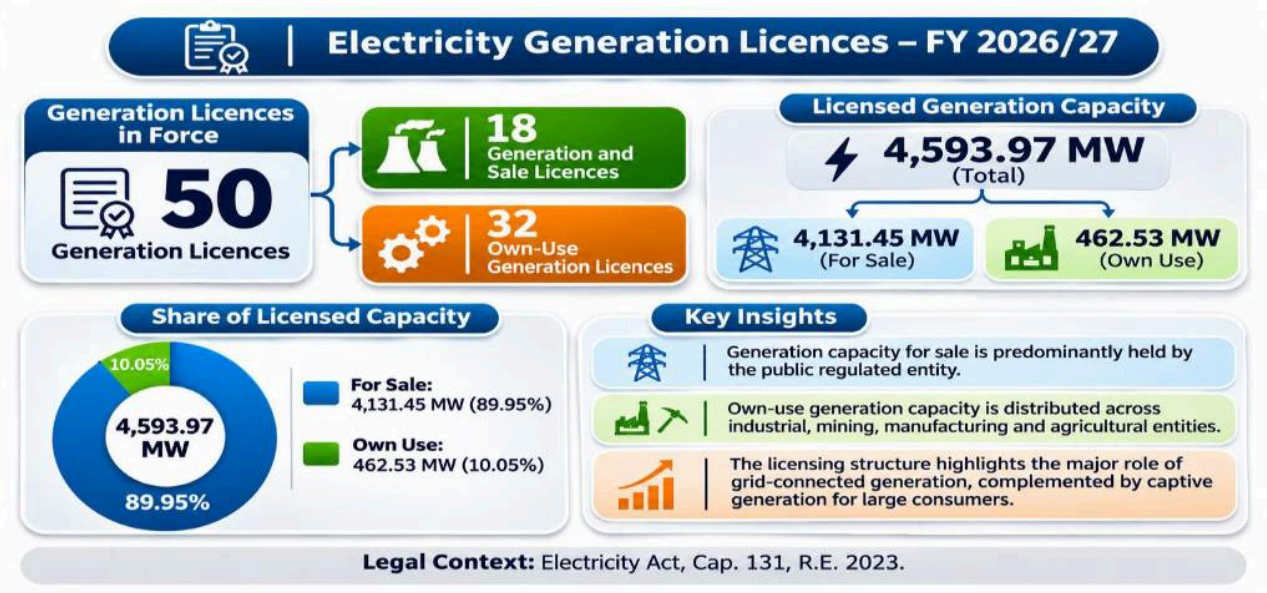



**Figure 9: Electricity Generation Licences**

### 3.1.2.3 Electricity Generation Licences (Provisional)

**Figure 10** presents the composition of licensed provisional electricity generation capacity by energy source and usage. The results illustrate the contributions of different generation sources. Details are in **Annex 3**




**Figure 10: Provisional Electricity Generation Licences**

### 3.1.3 Electricity Transmission Licence

Electricity transmission licences are issued under sections 6(a) and 9(1)(b) of the Electricity Act, Cap. 131, R.E. 2023. **Figure 11** presents the applicable transmission network voltage levels with TANESCO being the sole licensed entities.

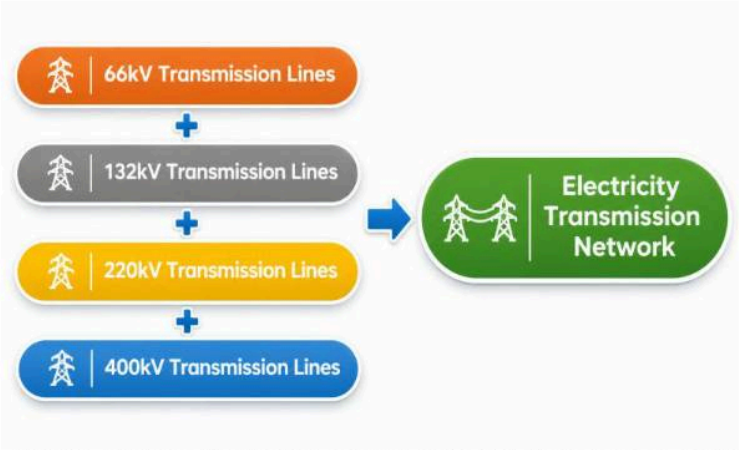



**Figure 11: Electricity Transmission Network Voltage Levels**

### 3.1.4 Electricity Distribution Licence

Electricity distribution licences are issued under sections 6(a) and 9(1)(c) of the Electricity Act, Cap. 131, R.E. 2023. TANESCO and Mwenga Power Services are the only licensed entities operating at voltage levels depicted in **Figure 12** , with




**Figure 12: Electricity Distribution Network Voltage Levels**

further details in **Annex 3**.

### 3.1.5 Electricity Supply Licence

Electricity supply licences are issued under sections 6(a) and 9(1)(d) of the Electricity Act, Cap. 131, R.E. 2023. **Figure 13** presents the applicable electricity supply voltage levels.




**Figure 13: Electricity Supply Voltage Levels**

### 3.1.6 Cross-Border Electricity Trade Licence

Cross-border electricity trade is licensed under sections 6(a) and 9(1)(f) of the Electricity Act, Cap. 131, R.E. 2023. **Figure 14** illustrates Tanzania's cross-border electricity interconnections and participation.

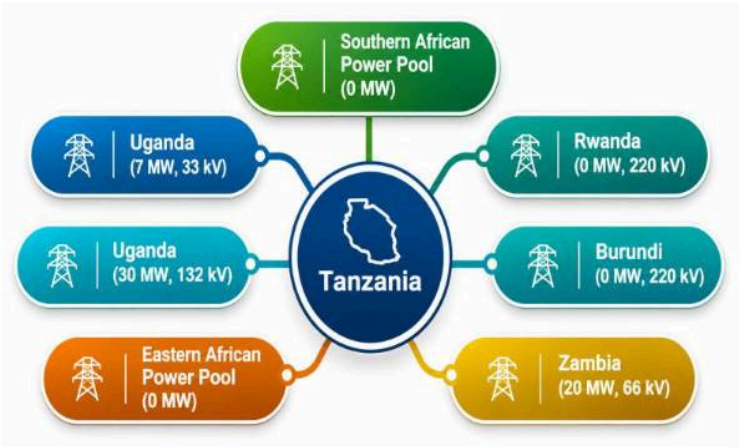



**Figure 14: Cross-Border Electricity Trade Interconnections**

### 3.1.7 Electrical Installation Licences

**Figure 15** presents the trend in electrical installation licences issued. The results indicate continued demand for licensed electrical installation services and regulatory oversight.

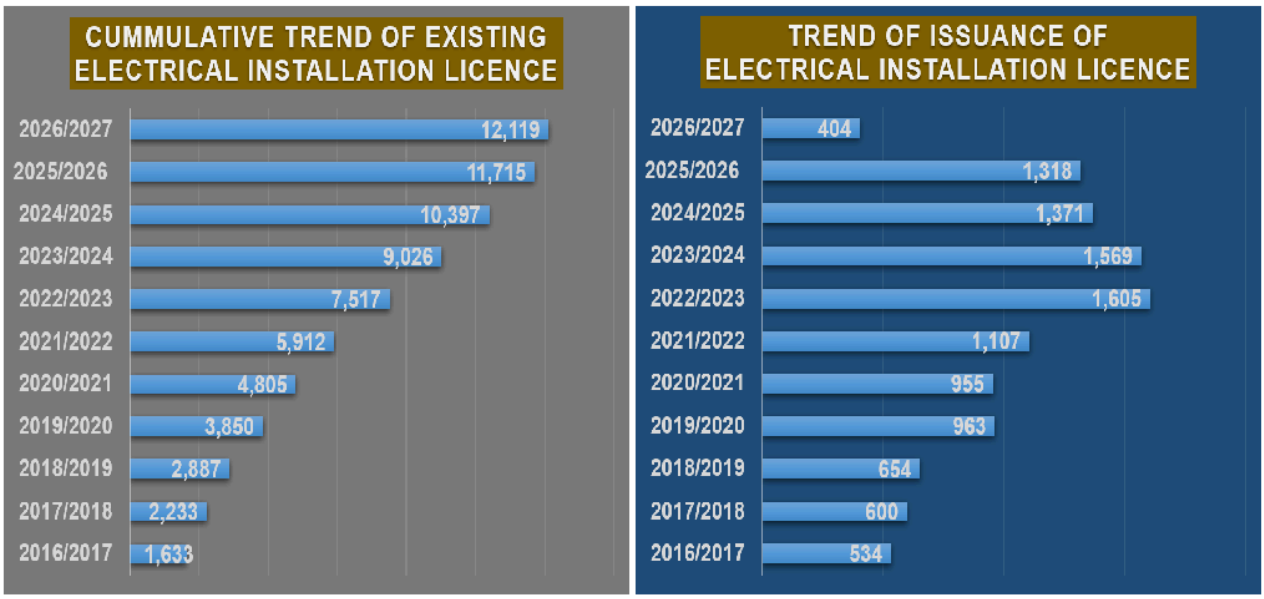



**Figure 15: Trend of Existing Electrical Installation Licences**

## 3.2 Registrations

Electricity generation activities below 1 MW are registered under section 20 of the Electricity Act, Cap. 131, R.E. 2023. **Figure 16** presents the distribution of registered private generation capacity across entities and sites. **Figure 17** illustrates the trend.

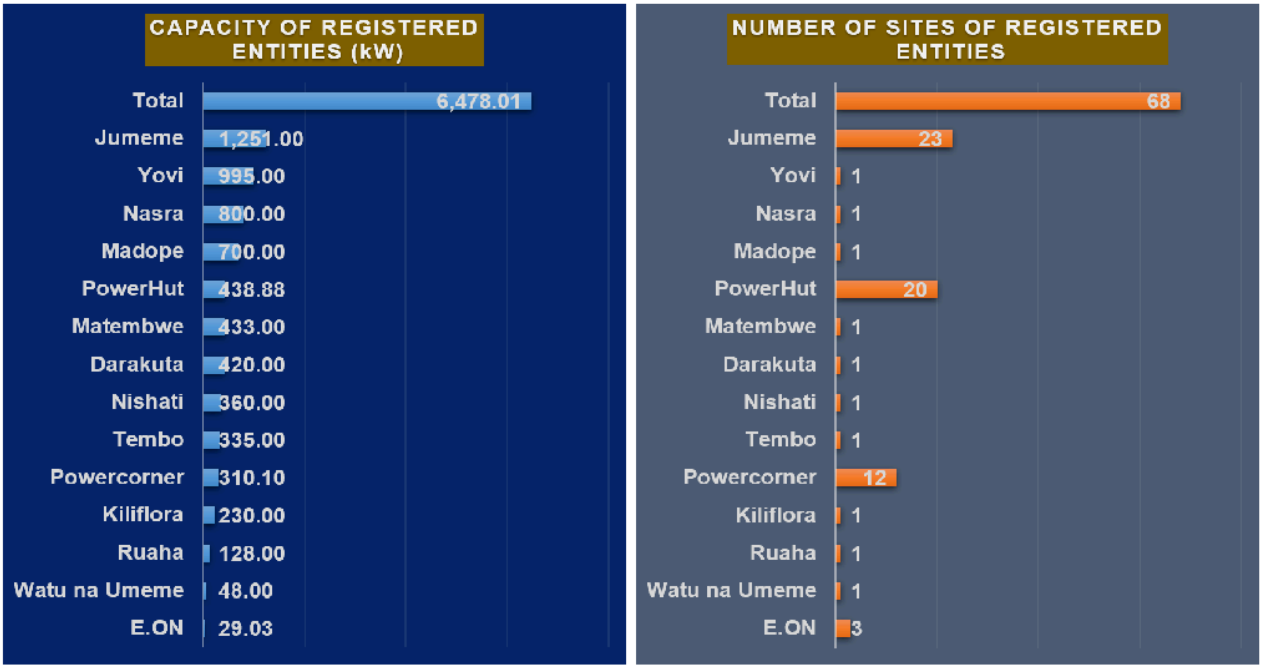



**Figure 16: Registered Entities**

**Figure 17** illustrates the trend in the number of registered entities undertaking electricity supply activities. The results illustrate changes in registered entities over the reporting periods, reflecting developments in market participation.

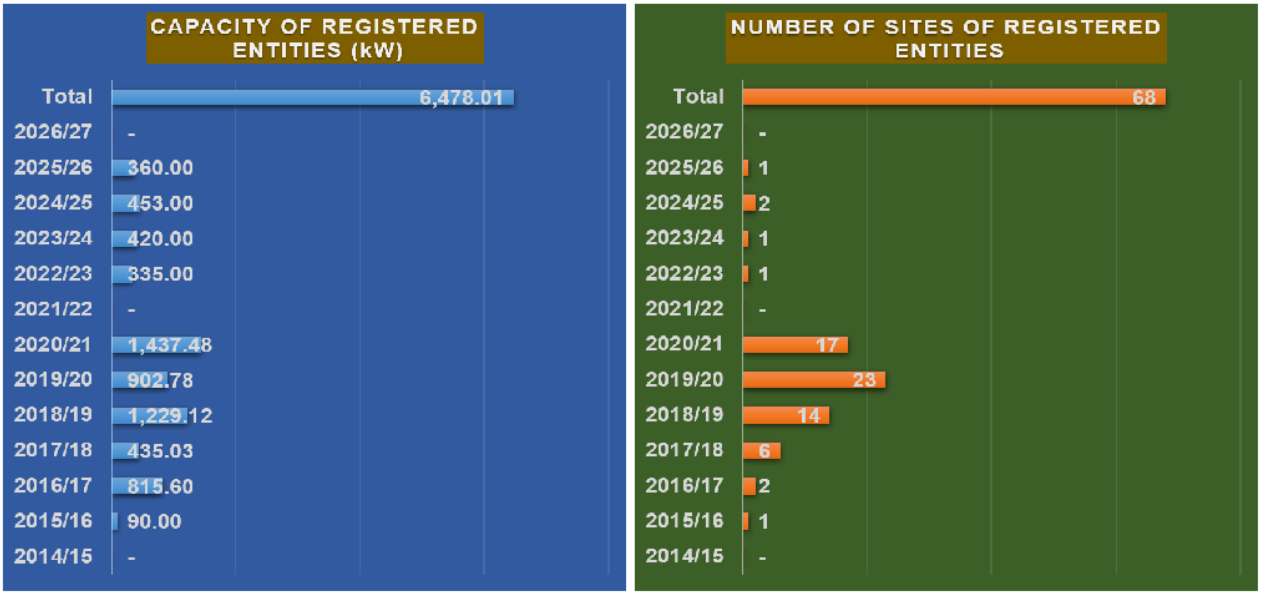



**Figure 17: Trend of Registered Entities**

## 3.3 Eligible Customers

Eligible customer designation permits direct electricity purchases from licensed generators under the Electricity Act, Cap. 131, R.E. 2023, and rules 74–77 of the Electricity (Generation, Transmission and Distribution Activities) Rules, 2023. **Table 1** presents the designated eligible customer and its approved capacity and validity period.

**Table 1: Eligible Customer**

| S/N | Eligible Customer | Licensee | Project Area | Duration | Capacity (MW) | Date of Issue | Date of Expiry |
|---|---|---|---|---|---|---|---|
| 1 | Lipton Teas and Infusion Tanzania Limited | Mwenga Hydro Limited | Mufindi | 5 years | ≥2 | 29/Nov/24 | 18/Dec/29 |

## 3.4 Initiation Of the Procurement of New Electricity Supply Installations

Approval to initiate procurement of new electricity supply installations is granted under section 6(d) of the Electricity Act, Cap. 131, R.E. 2023. **Figure 18** presents the approved projects, supporting private investment and expansion of electricity generation capacity, with details in **Annex 4**.

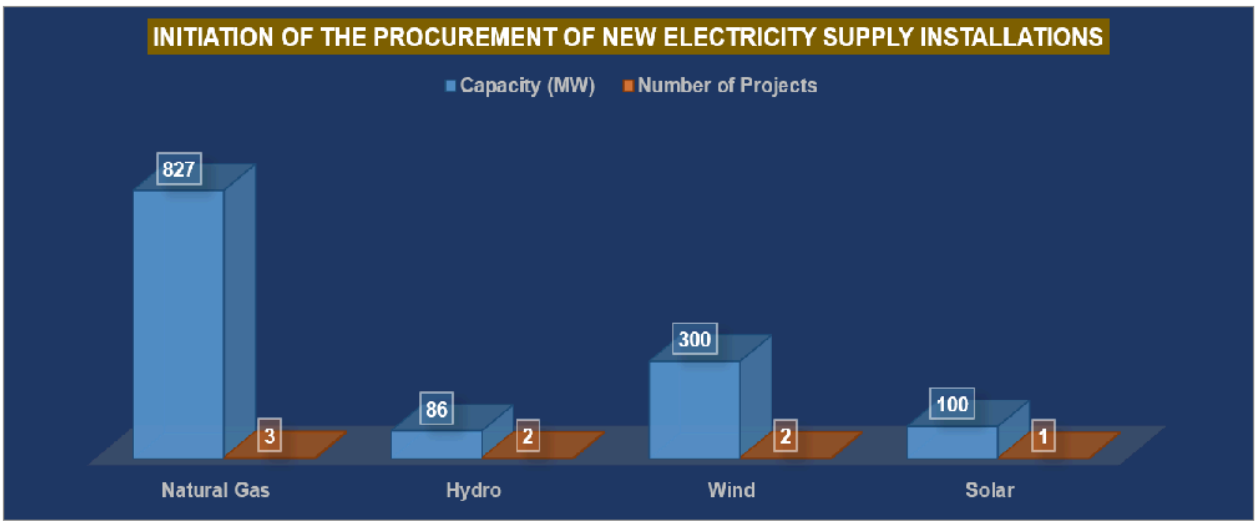


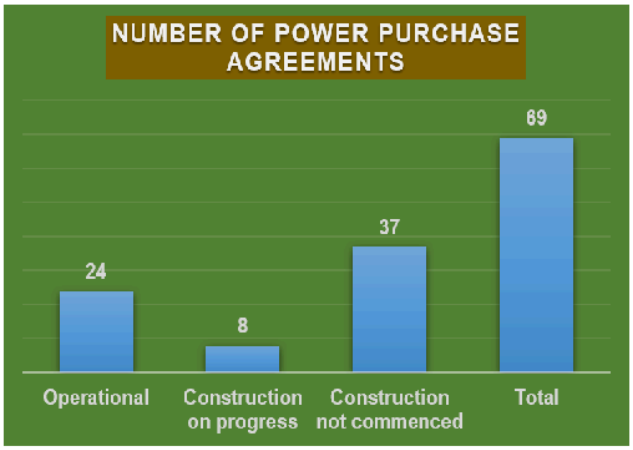

**Figure 18: Initiation of the Procurement of New Electricity Supply Installations**

## 3.5 Power Purchase Agreements

Power Purchase Agreements (PPAs) are subject to regulatory approval under section 27(3) of the Electricity Act, Cap. 131, R.E. 2023. The approvals facilitate regulated electricity procurement, generation investment and reliable power supply.

### 3.5.1 Operationalization Status of Power Purchase Agreements

**Figure 19** presents the distribution of Power Purchase Agreements (PPAs) by project implementation status. The results highlight projects at various stages, including operation, construction and financial closure, as detailed in **Annex 6**.



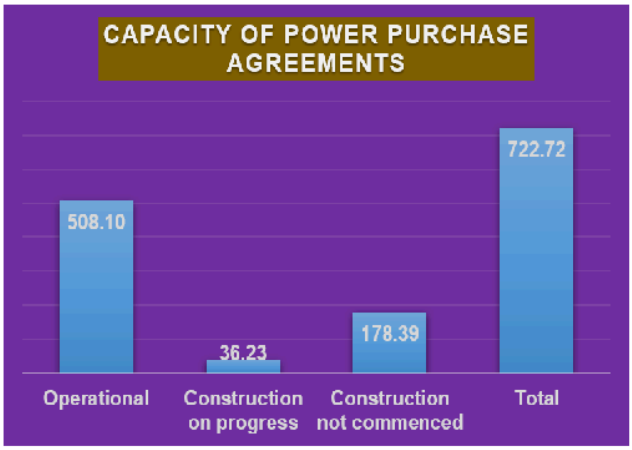




**Figure 19: Status of Power Purchase Agreements (PPAs)**

### 3.5.2 Status of Entities with Power Purchase Agreements

**Figure 20** presents the distribution of Power Purchase Agreements (PPAs) between locally and foreign-registered entities. The results highlight the participation of both local and foreign entities in electricity generation investments as detailed in **Annex 6**.




**Figure 20: Registration Status of Power Purchase Agreements (PPAs)**

### 3.5.3 Trend of Approved Power Purchase Agreements

**Figure 21** presents the trend in approved Power Purchase Agreements (PPAs). The approvals support private sector investment, expansion of electricity generation capacity and diversification of electricity supply, with details provided in **Annex 6**.




**Figure 21: The Trend of Approved Power Purchase Agreements (PPAs)**

## 3.6 Power Exchange Agreements

Power Exchange Agreements (PEAs) are approved under sections 27(2) and 27(3) of the Electricity Act, Cap. 131, R.E. 2023. **Figure 22** presents the approved PEA




**Figure 22: Power Exchange between Tanzania and Kenya**

## 3.7 Power Supply Agreement

Power Supply Agreements are approved under sections 25(2) and 25(3) of the Electricity Act, Cap. 131, R.E. 2023, and the Customer Financing Framework under regulation 4 of the Electricity (General) Regulations, 2020. **Figure 23** illustrates the framework, which enables customers to finance electricity supply lines and recover costs through 40% deductions from monthly electricity payments.

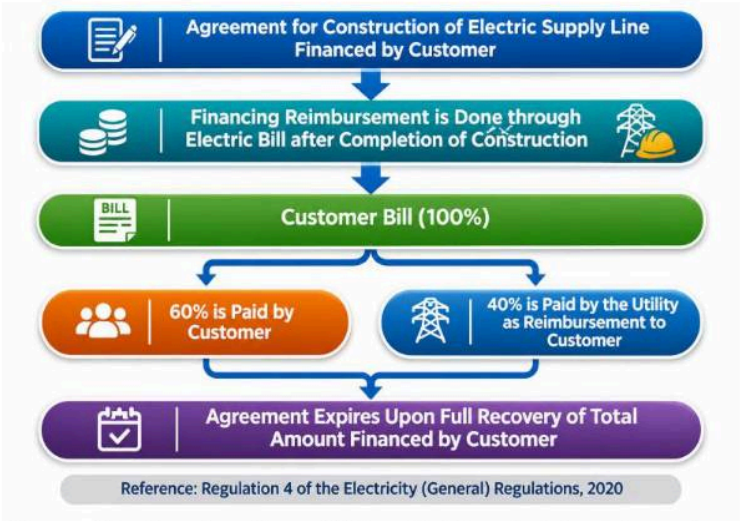



**Figure 23: Construction of Electric Supply Line Financing Reimbursement Framework**

## 3.8 Tariff and Fees

Electricity tariffs and fees are approved under **section 6(b) of the Electricity Act, Cap. 131, R.E. 2023**. **Figure 24**[i] presents the tariff categories applicable to end-use customers and Small Power Projects (SPPs) supplying electricity to the national grid.




**Figure 24: Tariff Categories**

### 3.8.1 Tariff and Charges for Utilities Selling Electricity to End-User Customers

Tariff orders establish approved electricity tariffs and charges, promoting cost reflectivity, transparency and consumer protection. **Figure 25** presents the approved tariff orders, with details provided in **Annex 9** (TANESCO), **Annex 10** (Mwenga Power Services Limited) and **Annex 7** (other registered entities).

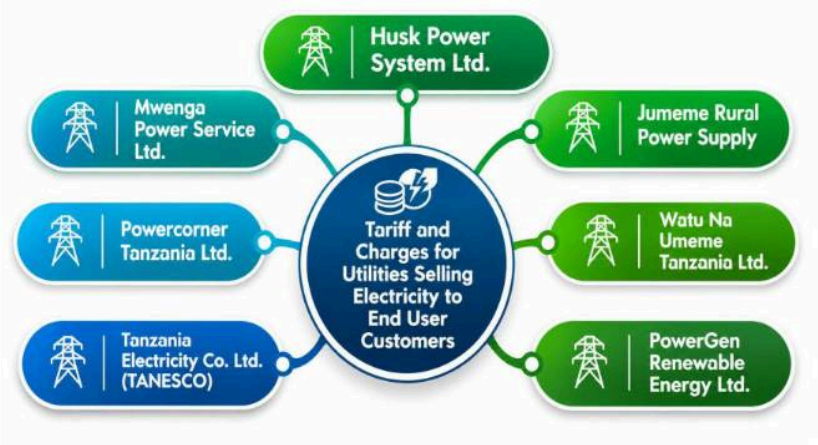



**Figure 25: Utilities with Tariffs to Sell Electricity to E Customers**

### 3.8.2 Standardized Small Power Projects Tariff

The Standardised Small Power Projects Tariff applies to grid-connected projects of 100 kW to 10 MW under the Electricity (Standardized Small Power Projects Tariff) Order, 2019. The applicable tariff categories are presented in **Figure 26**, with details provided in **Annex 8**.




**Figure 26: Tariff category for Standardized Small Power Projects**

## 3.9 Complaints and Dispute Resolution

Complaints resolution promotes consumer protection and service quality. It is governed by sections 7(1)(e) and 34–38 of the EWURA Act and section 28(3) of the Electricity Act.

### 3.9.1 Trend Of Complaints and Disputes Resolution

**Figure 27** presents the trend in resolved complaints and disputes across the reporting periods. The results highlight variations in complaint and dispute resolution over time.

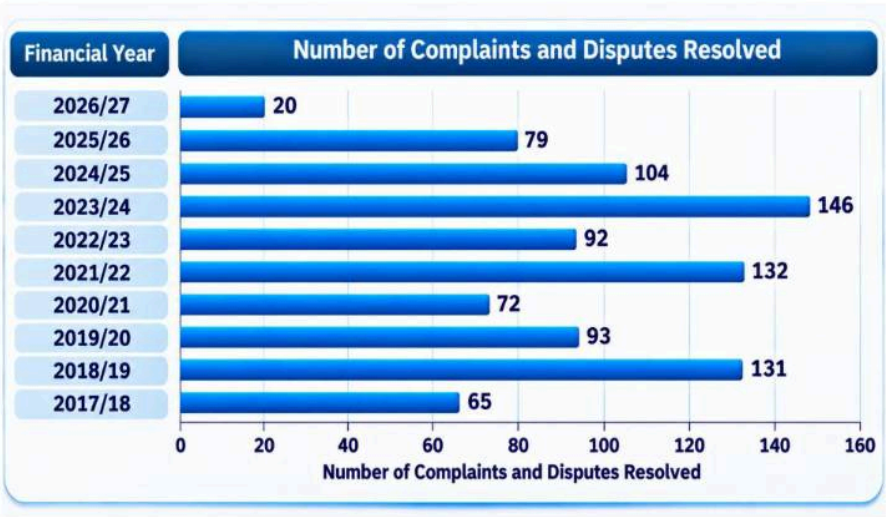



**Figure 27: Trend of Complaint and Dispute Resolution**

## 3.9.2 Complaint and Dispute Resolution for Regions

**Figure 28** presents the regional distribution of electricity-related complaints. The results illustrate geographical variations in complaints recorded across the regions.




**Figure 28: Complaint and Dispute Resolution for Regions**

## 3.9.3 Nature Of Complaints and Disputes

**Figure 29** presents electricity-related complaints by category. The results highlight variations in complaints involving property damage, customer service and electricity connections.

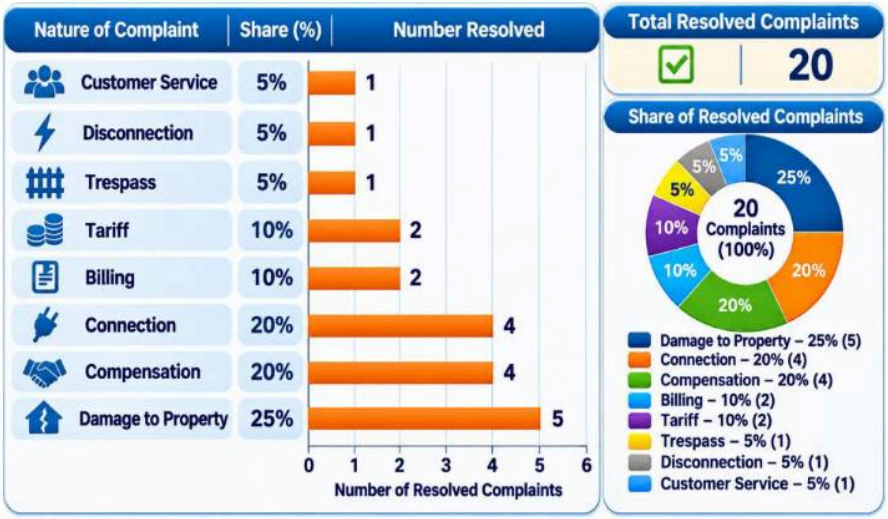



**Figure 29: Nature of Complaint**

## 4. ELECTRICITY DEMAND

Electricity demand comprises main-grid, off-grid and captive loads. Details are provided in this section.

### 4.1 Gross Electricity Demand

**Figure 30** presents the trend in electricity demand. The results indicate increasing demand, primarily driven by main-grid and own-use consumption, while off-grid demand remained unchanged.




| Category | 2017/18 | 2018/19 | 2019/20 | 2020/21 | 2021/22 | 2022/23 | 2023/24 | 2024/25 | 2025/26 | 2026/27 |
|---|---|---|---|---|---|---|---|---|---|---|
| Off-Grid | 30.00 | 31.00 | 36.00 | 45.00 | 51.00 | 57.00 | 66.00 | 75.00 | 112.21 | 112.21 |
| Own-Use | 189.747 | 196.939 | 155.324 | 262.424 | 262.424 | 295.924 | 195.624 | 361.533 | 445.826 | 462.526 |
| Main-Grid | 1,045.70 | 1,116.58 | 1,151.66 | 1,201.02 | 1,340.68 | 1,470.50 | 1,645.23 | 1,921.44 | 2,114.55 | 2,240.68 |
| Total | 1,265.45 | 1,344.52 | 1,342.98 | 1,508.44 | 1,654.10 | 1,823.42 | 1,906.85 | 2,357.97 | 2,672.59 | 2,815.42 |

**Figure 30: Trend of Gross Electricity Demand (MD)**

## 4.2 Main Grid Electricity Demand

**Figure 31** presents the trend in maximum electricity demand on the main grid. The results indicate increasing peak demand, highlighting the need for adequate generation capacity and reliable transmission and distribution infrastructure.




**Figure 31: Trend of Main Grid Maximum Demand**

# 5. ELECTRICITY GENERATION

Electricity generation performance is assessed based on the activities and performance of entities licensed to undertake regulated electricity generation activities, covering the key areas presented in **Figure 32**.

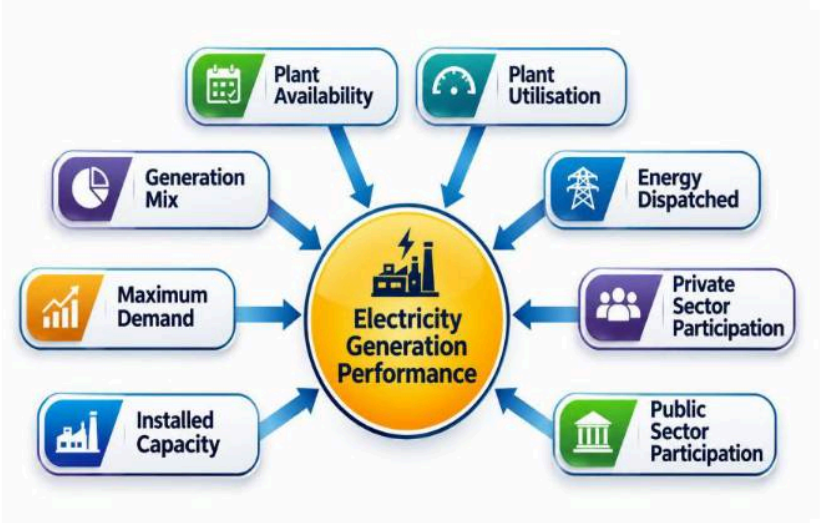


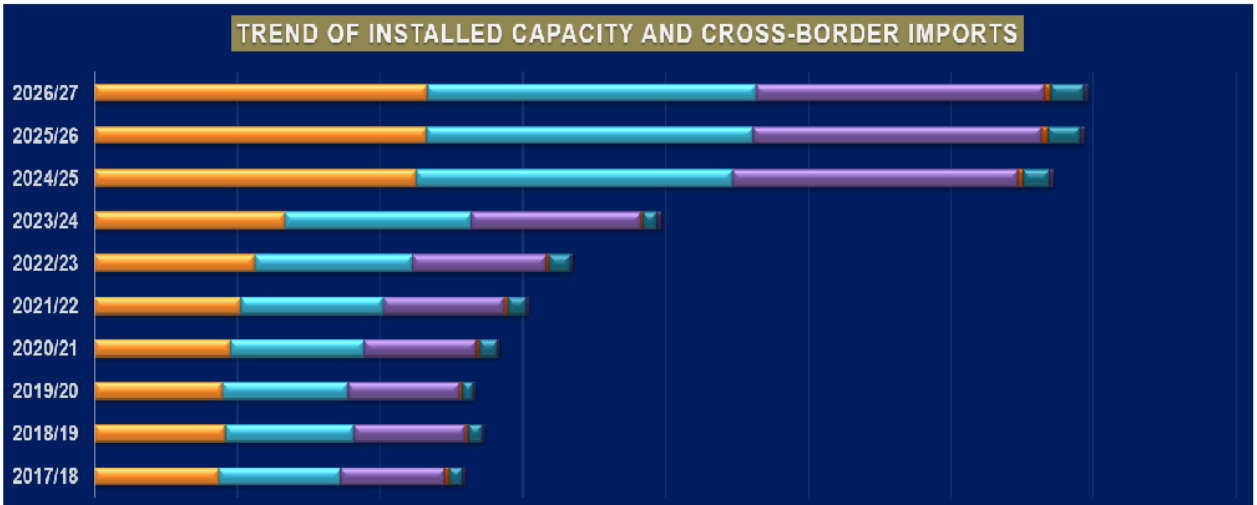

**Figure 32: Description of Electricity Generation Performance**

## 5.1 Installed Capacity

The installed capacity presented in this report includes capacity associated with cross-border electricity trade and is categorized by grid, ownership, and energy source.

### 5.1.1 Installed Capacity by Grid

The installed capacity of the main grid continued to rise. **Figure 33** illustrates this trend and the corresponding change, with full details available in **Annex 11**.




| | 2017/18 | 2018/19 | 2019/20 | 2020/21 | 2021/22 | 2022/23 | 2023/24 | 2024/25 | 2025/26 | 2026/27 |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Intalled Capacity and Imports | 1,742.95 | 1,833.61 | 1,792.12 | 1,906.67 | 2,044.85 | 2,249.39 | 2,670.62 | 4,504.54 | 4,648.69 | 4,666.89 |
| Total Country Intalled Capacity | 1,707.95 | 1,798.61 | 1,757.12 | 1,871.67 | 2,002.85 | 2,207.39 | 2,606.62 | 4,437.54 | 4,581.69 | 4,599.89 |
| Main Grid | 1,461.06 | 1,565.72 | 1,565.72 | 1,574.45 | 1,694.55 | 1,874.34 | 2,373.00 | 3,997.07 | 4,043.00 | 4,044.50 |
| Off Grid | 57.14 | 35.95 | 36.08 | 34.80 | 45.88 | 37.12 | 38.00 | 78.37 | 92.87 | 92.87 |
| Own-Use | 189.75 | 196.94 | 155.32 | 262.42 | 262.42 | 295.92 | 195.62 | 362.10 | 445.83 | 462.53 |
| Cross-Boarder Imports | 35.00 | 35.00 | 35.00 | 35.00 | 42.00 | 42.00 | 64.00 | 67.00 | 67.00 | 67.00 |

**Figure 33: Trend in Installed Capacity**

### 5.1.2 Causes Of Changes in Installed Capacity

**Table 2** presents the changes in installed electricity generation capacity. The additions comprise newly recorded power plants and capacity expansion at an existing facility.

**Table 2: Description of Increase in Installed Capacity**

| No. | Power Plant / Change | Licensee Name | Fuel Type | Usage | FY 2025/26 | FY 2026/27 | Change (MW) | Explanation |
|---|---|---|---|---|---|---|---|---|
| 1 | Goodwill Tanzania Ceramic Co. Ltd. | Goodwill Tanzania Ceramic Co. Ltd. | Natural Gas | Own-use | 0 | 16.7 | 16.7 | New plant recorded |
| 2 | BXC Tanzania Ltd. – 3 (Ikina, Bukoli) | BXC Tanzania Ltd. | Solar | Sale | 0 | 10 | 10 | New plant recorded |
| 3 | BXC Tanzania Ltd. – 4 (Simanjiro) | BXC Tanzania Ltd. | Solar | Sale | 0 | 7 | 7 | New plant recorded |
| 4 | Bugando Natural Energy Ltd. | Bugando Natural Energy Ltd. | Solar | Sale | 0 | 5 | 5 | New plant recorded |
| 5 | Mwenga Hydro Ltd. (Wind) | Mwenga Hydro Ltd. | Wind | Sale | 2.4 | 3.9 | 1.5 | Capacity revision |
| | Total | | | | 2.4 | 42.6 | 40.2 | |

***Source:*** *EWURA*

### 5.1.3 Installed Capacity by Ownership

**Table 3** presents the distribution of installed electricity generation capacity, including cross-border imports. The results indicate that TANESCO accounts for the largest share of total installed capacity as detailed in **Error! Reference source not found.**.

**Table 3: Installed Capacity by Ownership**

| ENTITY DESCRIPTION AND CROSS BOARDER IMPORTS | CAPACITY (MW) | CONTRIBUTION (%) |
|---|---|---|
| TANESCO | 3,885.25 | 82.86% |
| Large Power Producer - Private Entities (≥10MW) | 189.00 | 4.03% |
| Small Power Producer - Private Entities ((>0.1MW & ≤10MW & ) | 82.91 | 1.77% |
| Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW) | 2.21 | 0.05% |
| Own-Use | 462.53 | 9.86% |
| Cross-Border Import | 67.00 | 1.43% |
| **Total** | **4,688.89** | **100.00%** |

***Source:*** *EWURA*

### 5.1.4 Installed Capacity by Fuel Source, including Cross-Border imports

**Table 4** presents the distribution of installed electricity generation capacity, including cross-border imports, by energy source. The results indicate that hydropower and natural gas remain the dominant contributors to total installed capacity as detailed in **Error! Reference source not found.**.

**Table 4: Installed Capacity by Fuel Source**

| FUEL TYPE AND CROSS-BORDER IMPORTS | CAPACITY (MW) | CONTRIBUTION (%) |
|---|---|---|
| Hydro | 2,726.34 | 58.14% |
| Natural Gas | 1,297.89 | 27.68% |
| GO/HFO/DO | 272.73 | 5.82% |
| Biomass | 171.19 | 3.65% |
| Wind | 3.90 | 0.08% |
| Solar | 104.44 | 2.23% |
| Coal | 45.40 | 0.97% |
| Cross-Boarder | 67.00 | 1.43% |
| **Total** | **4,688.89** | **100.00%** |

***Source:*** *EWURA*

### 5.1.5 Contribution of Small Power Projects

Small Power Projects (SPPs) have an important role in the security of electricity supply. Its contribution to the total installed capacity is presented in **Table 5**. Details are provided in **Annex 17**.

**Table 5: Contribution of Small Power Projects in the Installed Capacity**

| S/N | Description | Installed Capacity (MW) | Energy (GWh) | Available Capacity (MW) | Availability (%) | Utilization (%) | Capacity Factor (%) | Number of Entities/Plants |
|---|---|---|---|---|---|---|---|---|
| Part A | TANESCO | 3,885.25 | 3,862.23 | 3,885.25 | 82.37% | 46.99% | 39.21% | 38 |
| Part B | Large Power Producer - Private Entities (≥10MW) | 189.00 | - | - | 100.00% | N/A | N/A | 1 |
| Part C | Small Power Producer - Private Entities ((>0.1MW & ≤10MW & ) | 82.91 | 120.31 | 81.91 | 75.98% | 29.69% | N/A | 20 |
| Part D | Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW) | 2.21 | 4.44 | 2.21 | 40.67% | 23.00% | N/A | 6 |
| Part E | Own-Use | 462.53 | 922.54 | 462.53 | 84.67% | 37.74% | N/A | 35 |
| Part F | Cross-Boarder | 67.00 | 573.34 | 67.00 | 100.00% | 100.00% | N/A | 4 |
| **Total** | **NA** | **4,688.89** | **5,482.86** | **4,498.89** | **NA** | **NA** | **NA** | |
| **Average** | **NA** | **NA** | **NA** | **NA** | **80.62%** | **47.49%** | **39.21%** | |

***Source:*** *EWURA*

## 5.2 Reserve Margin

**Figure 34** presents the trend in electricity generation reserve margin. The results indicate that the reserve margin consistently exceeds the minimum target of 15%, reflecting adequate generation capacity to meet demand and accommodate system contingencies.

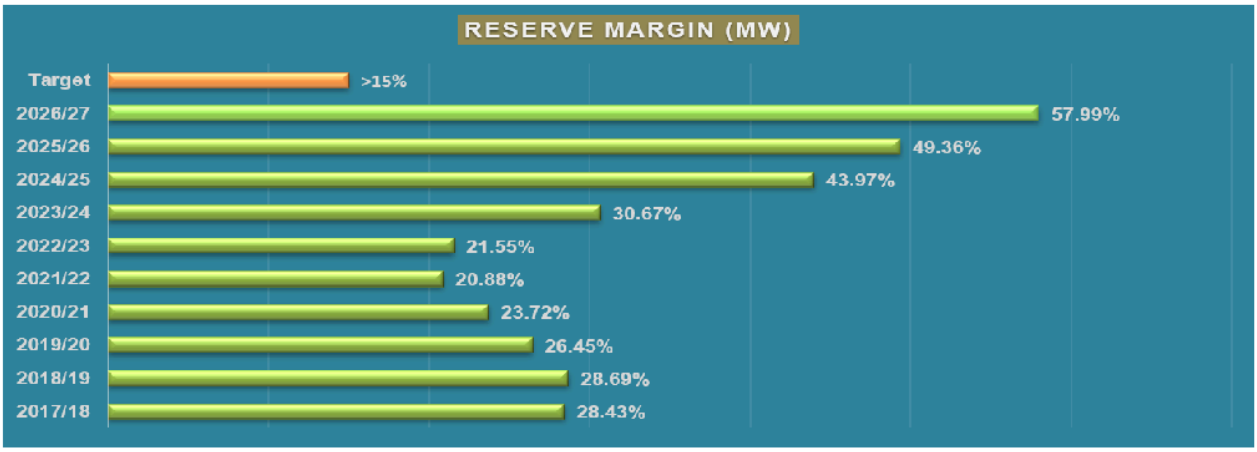


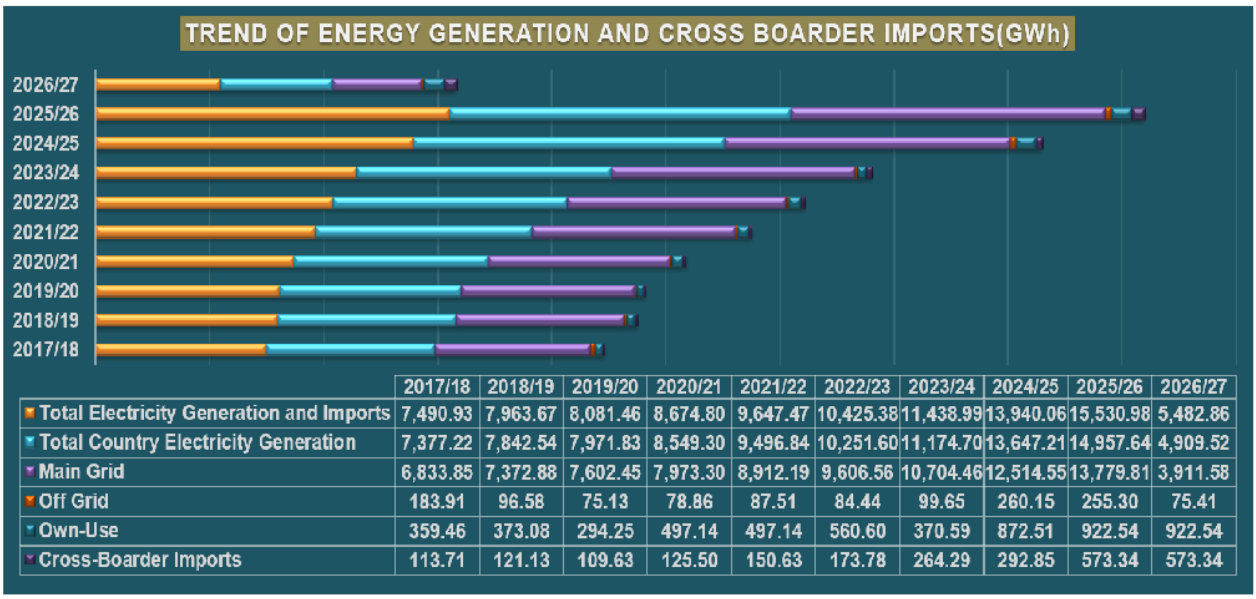

**Figure 34: Reserve Margin**

## 5.3 Electricity Generation and Cross-Border Imports

The electricity generation presented in this report includes capacity from cross-border electricity trade. It is described by grid, ownership, and energy source.

### 5.3.1 Electricity Generation by Grid

**Figure 35** presents increase in electricity generation for complete financial years. It comprises contributions from main grid, off grid, own use and cross border electricity trade. Details are in **Annex 11**.




| | 2017/18 | 2018/19 | 2019/20 | 2020/21 | 2021/22 | 2022/23 | 2023/24 | 2024/25 | 2025/26 | 2026/27 |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Electricity Generation and Imports | 7,490.93 | 7,963.67 | 8,081.46 | 8,674.80 | 9,647.47 | 10,425.38 | 11,438.99 | 13,940.06 | 15,530.98 | 5,482.86 |
| Total Country Electricity Generation | 7,377.22 | 7,842.54 | 7,971.83 | 8,549.30 | 9,496.84 | 10,251.60 | 11,174.70 | 13,647.21 | 14,957.64 | 4,909.52 |
| Main Grid | 6,833.85 | 7,372.88 | 7,602.45 | 7,973.30 | 8,912.19 | 9,606.56 | 10,704.46 | 12,514.55 | 13,779.81 | 3,911.58 |
| Off Grid | 183.91 | 96.58 | 75.13 | 78.86 | 87.51 | 84.44 | 99.65 | 260.15 | 255.30 | 75.41 |
| Own-Use | 359.46 | 373.08 | 294.25 | 497.14 | 497.14 | 560.60 | 370.59 | 872.51 | 922.54 | 922.54 |
| Cross-Boarder Imports | 113.71 | 121.13 | 109.63 | 125.50 | 150.63 | 173.78 | 264.29 | 292.85 | 573.34 | 573.34 |

**Figure 35: Trend in Electricity Generation and Cross-Border Imports**

### 5.3.2 Energy Generation by Ownership

**Table 6** presents total electricity generation and cross-border imports by entity. The results indicate that TANESCO remains the dominant contributor to the overall electricity supply as detailed in **Annex 14.**

**Table 6: Energy Generation by Ownership and Cross-Border Imports**

| ENTITY DESCRIPTION AND CROSS BOARDER IMPORTS | ENERGY (GWh) | CONTRIBUTION (%) |
|---|---|---|
| TANESCO | 3,862.23 | 70.44% |
| Large Power Producer - Private Entities (≥10MW) | - | 0.00% |
| Small Power Producer - Private Entities ((>0.1MW & ≤10MW & ) | 120.31 | 2.19% |
| Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW) | 4.44 | 0.08% |
| Own-Use | 922.54 | 16.83% |
| Cross-Border Import | 573.34 | 10.46% |
| **Total** | **5,482.86** | **100.00%** |

***Source:*** *TANESCO and EWURA*

### 5.3.3 Energy Generation by Fuel Source, including Cross-Border Imports

**Table 4** presents total electricity generation and cross-border imports by energy source. The results indicate that hydropower and natural gas remain the dominant contributors to the electricity supply mix as detailed in **Annex 15.**

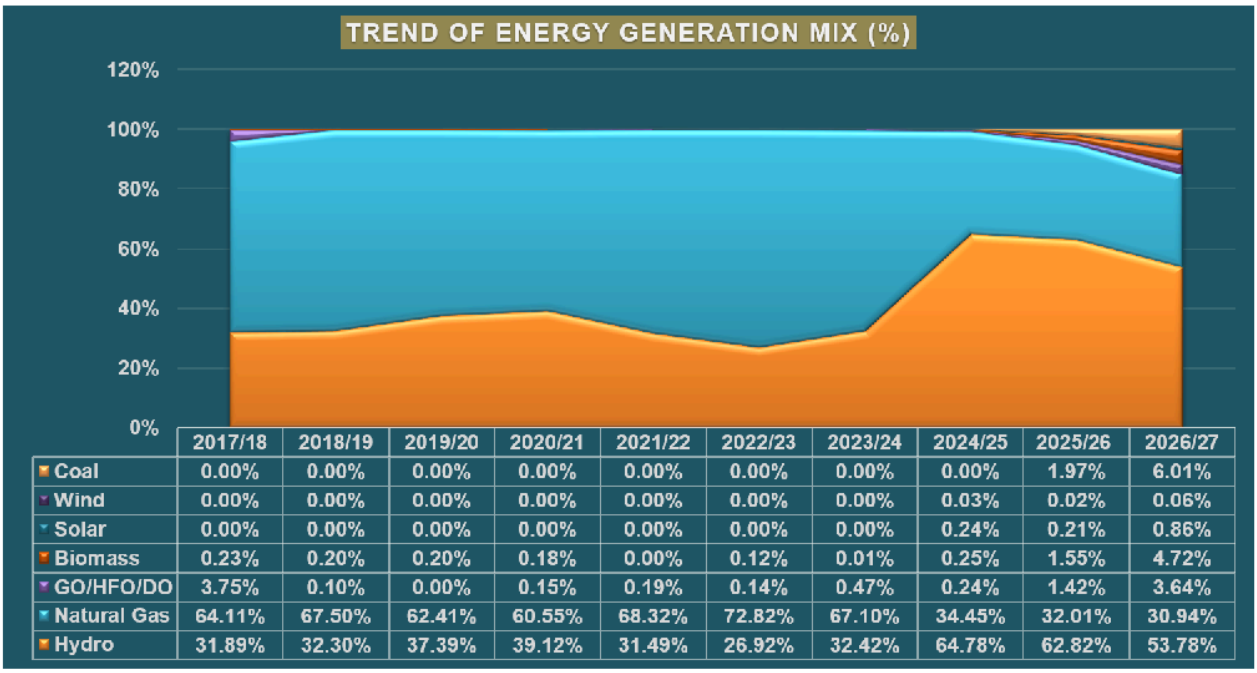
**Table 7: Electricity Generation by Fuel, including Cross-Border imports**

| FUEL TYPE AND CROSS-BORDER IMPORTS | ENERGY (GWh) | CONTRIBUTION (%) |
|---|---|---|
| Hydro | 2,640.24 | 48.15% |
| Natural Gas | 1,518.91 | 27.70% |
| GO/HFO/DO | 178.49 | 3.26% |
| Biomass | 231.61 | 4.22% |
| Wind | 3.10 | 0.06% |
| Solar | 42.25 | 0.77% |
| Coal | 294.93 | 5.38% |
| Cross-Boarder | 573.34 | 10.46% |
| **Total** | **5,482.86** | **100.00%** |

***Source:*** *EWURA*

## 5.4 Energy Generation Mix

**Figure 36** presents the electricity generation mix by energy source. The results indicate continued dominance of hydropower and natural gas, highlighting the need for greater generation diversification to enhance supply reliability, resilience and energy security.




| | 2017/18 | 2018/19 | 2019/20 | 2020/21 | 2021/22 | 2022/23 | 2023/24 | 2024/25 | 2025/26 | 2026/27 |
|---|---|---|---|---|---|---|---|---|---|---|
| Coal | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 1.97% | 6.01% |
| Wind | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.03% | 0.02% | 0.06% |
| Solar | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.24% | 0.21% | 0.86% |
| Biomass | 0.23% | 0.20% | 0.20% | 0.18% | 0.00% | 0.12% | 0.01% | 0.25% | 1.55% | 4.72% |
| GO/HFO/DO | 3.75% | 0.10% | 0.00% | 0.15% | 0.19% | 0.14% | 0.47% | 0.24% | 1.42% | 3.64% |
| Natural Gas | 64.11% | 67.50% | 62.41% | 60.55% | 68.32% | 72.82% | 67.10% | 34.45% | 32.01% | 30.94% |
| Hydro | 31.89% | 32.30% | 37.39% | 39.12% | 31.49% | 26.92% | 32.42% | 64.78% | 62.82% | 53.78% |

**Figure 36: Trend of Energy Generation Mix (%)**

## 5.5 Availability of Power Plants

The plant availability in this report includes capacity associated with cross-border electricity trade and is categorized by grid, ownership, and energy source.

### 5.5.1 Plant Availability by Source

**Figure 37** presents the average power plant availability against the regulatory target, with further details in **Annex 11**. The results indicate performance below the target, highlighting the need for strengthened preventive maintenance and regulatory enforcement.




| | 2017/18 | 2018/19 | 2019/20 | 2020/21 | 2021/22 | 2022/23 | 2023/24 | 2024/25 | 2025/26 | 2026/27 | Target |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Hydro | 96.20 | 86.00 | 82.85 | 81.62 | 90.09 | 87.29 | 83.51 | 75.74 | 80% | 69.08 | 88.00 |
| Natural Gas | 71.41 | 67.00 | 76.28 | 81.00 | 82.93 | 84.07 | 78.87 | 87.31 | 89% | 85.30 | 88.00 |
| Liquid Fuel | 89.77 | 50.51 | 82.29 | 64.91 | 87.37 | 88.23 | 88.06 | 83.57 | 53% | 52.40 | 88.00 |
| Biomass | | | | | | | | 77.25 | 77% | 77.21 | 88.00 |
| Wind | | | | | | | | 75.00 | 75% | 75.00 | 88.00 |
| Solar | | | | | | | | 35.67 | 48% | 46.79 | 88.00 |
| Coal | | | | | | | | 77.50 | 93% | 92.50 | 88.00 |
| Cross-Boarder | | | | | | | | 100.00 | 100% | 100.00 | 88.00 |
| Avarage | 85.79 | 67.84 | 80.47 | 75.84 | 86.80 | 86.53 | 83.48 | 82.20 | 76.93% | 74.79 | 88.00 |

**Figure 37: Power Plant Availability (%)**

### 5.5.2 Plant Availability by Ownership

**Table 8** presents power plant availability, with further details provided in **Annex 11**. The results highlight the need to strengthen preventive and planned maintenance to improve plant availability and operational reliability as detailed in **Annex 16**.

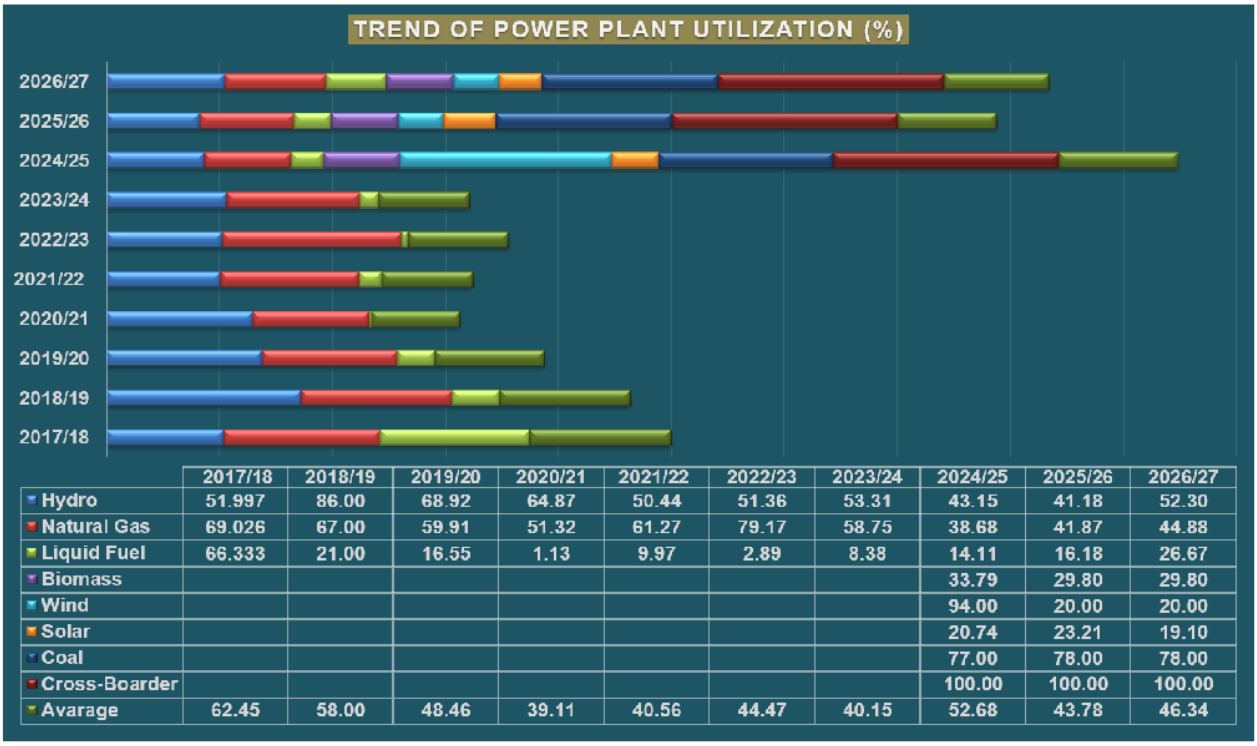
**Table 8: Plant Availability by Ownership**

| ENTITY DESCRIPTION AND CROSS BOARDER IMPORTS | AVAILABILITY (MW) | AVAILABILITY (%) | CONTRIBUTION (%) |
|---|---|---|---|
| TANESCO | 3,633.61 | 49.86% | 84.27% |
| Large Power Producer - Private Entities (≥10MW) | 189.00 | 100.00% | 4.38% |
| Small Power Producer - Private Entities ((>0.1MW & ≤10MW & ) | 45.09 | 72.88% | 1.05% |
| Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW) | 0.87 | 40.67% | 0.02% |
| Own-Use | 376.25 | 84.67% | 8.73% |
| Cross-Border Import | 67.00 | 100.00% | 1.55% |
| **AVERAGE** | **4,311.83** | **74.68%** | **100.00%** |

***Source:*** *EWURA*

## 5.6 Power Plant Utilization

**Figure 38** presents the trend in power plant generation performance, with further details provided in **Annex 11**. The results indicate declining performance, highlighting the need to improve plant availability, maintenance and operational efficiency.




| | 2017/18 | 2018/19 | 2019/20 | 2020/21 | 2021/22 | 2022/23 | 2023/24 | 2024/25 | 2025/26 | 2026/27 |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydro | 51.997 | 86.00 | 68.92 | 64.87 | 50.44 | 51.36 | 53.31 | 43.15 | 41.18 | 52.30 |
| Natural Gas | 69.026 | 67.00 | 59.91 | 51.32 | 61.27 | 79.17 | 58.75 | 38.68 | 41.87 | 44.88 |
| Liquid Fuel | 66.333 | 21.00 | 16.55 | 1.13 | 9.97 | 2.89 | 8.38 | 14.11 | 16.18 | 26.67 |
| Biomass | | | | | | | | 33.79 | 29.80 | 29.80 |
| Wind | | | | | | | | 94.00 | 20.00 | 20.00 |
| Solar | | | | | | | | 20.74 | 23.21 | 19.10 |
| Coal | | | | | | | | 77.00 | 78.00 | 78.00 |
| Cross-Boarder | | | | | | | | 100.00 | 100.00 | 100.00 |
| Avarage | 62.45 | 58.00 | 48.46 | 39.11 | 40.56 | 44.47 | 40.15 | 52.68 | 43.78 | 46.34 |

**Figure 38: Power Plant Utilization (%)**

# 6. ELECTRICITY TRANSMISSION

**Figure 39** presents the key performance areas used to assess regulated electricity transmission activities. The assessment focuses on transmission system performance, reliability and operational efficiency.



**Figure 39: Description of Electricity Transmission Performance**

## 6.1 Electricity Transmission Infrastructure

Electricity transmission infrastructure comprises transmission lines and substations operating at various voltage levels. The network facilitates bulk electricity transfer from generation sources to distribution systems and major load centres.

### 6.1.1 Transmission Line Route Length

**Figure 40** presents transmission line route lengths by voltage level, with further details provided in **Annex 18**. The results illustrate the composition of the transmission network across different voltage levels.

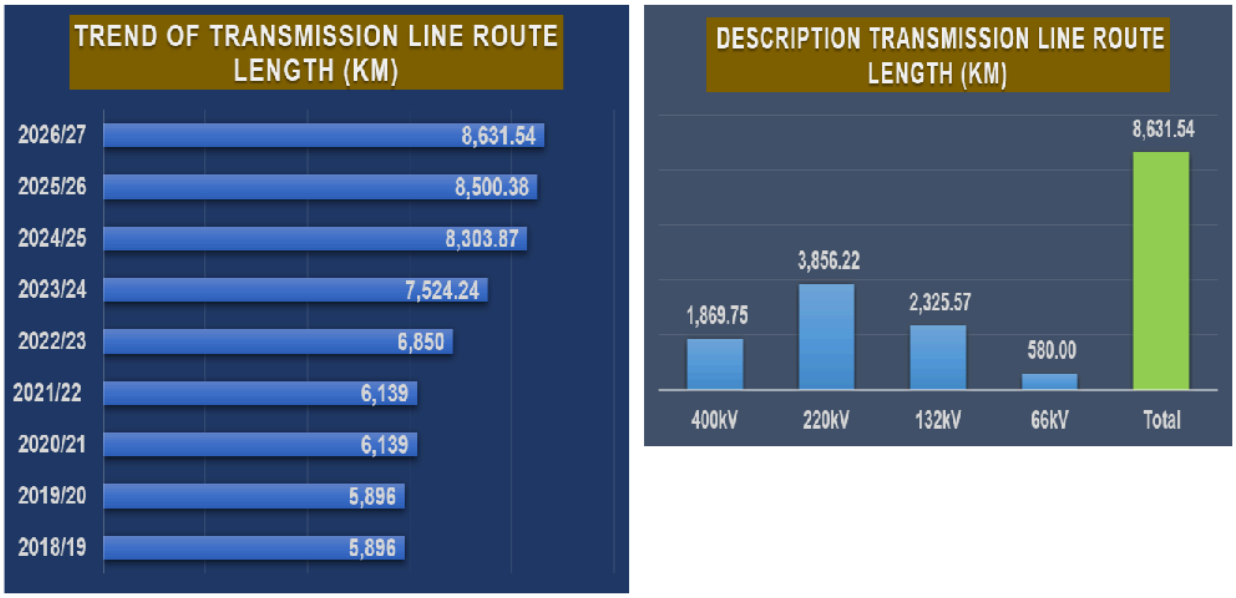



**Figure 40: Length of Transmission Line Route Length**

### 6.1.2 Transmission Substation

**Figure 41** presents the number and installed capacity of transmission substations, with further details provided in **Annex 19**. The results indicate stable infrastructure capacity, highlighting the need for future investment to accommodate demand growth and enhance network reliability.

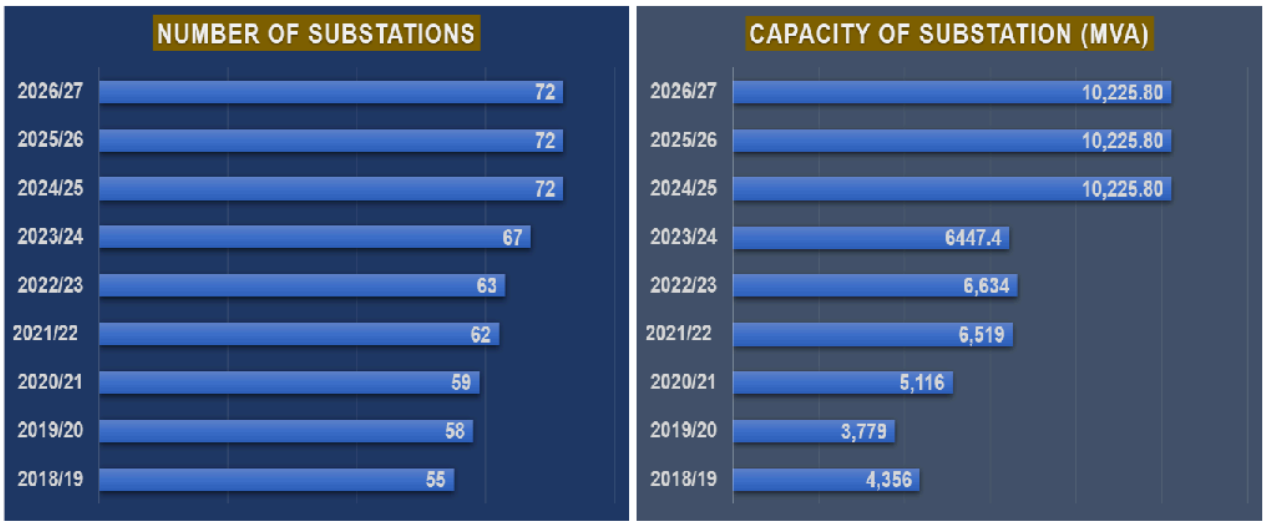



**Figure 41: Number and Capacity of Substation**

## 6.2 Customers Connected to Transmission Infrastructure

**Figure 42** presents customer connections to the electricity transmission network by voltage level. The results highlight continued expansion of transmission network access for eligible customers.

| Customers Connected To The Electricity Transmission Network | | | | | | |
|---|---|---|---|---|---|---|
| Bulyanhulu Gold Mine ( 220kV) | Zanzibar Electricity Corporation (132kV) | Tanganyika Portland Cement (132kV) | Tanga Cement (132kV) | Rhino Cement (132kV) | Nyamongo Gold Mine (132kV) | Buzwagi Gold Mine (132kV) |

**Figure 42: Customers Connected to The Transmission Infrastructure**

## 6.3 Reliability of Electricity Transmission Infrastructure

**Figure 43** presents transmission network reliability based on SAIFI-CP and SAIDI-CP indices. The results illustrate the frequency and duration of electricity interruptions at transmission connection points.

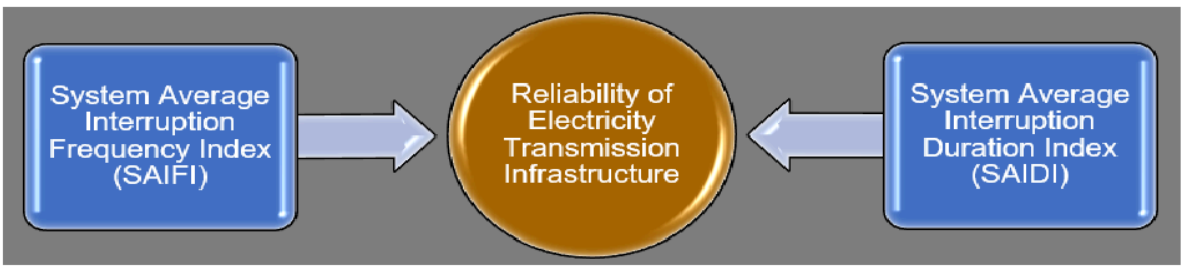


**Figure 43: Description of Electricity Transmission Infrastructure Reliability Indices**

### 6.3.1 The System Average Interruption Frequency Index at Connection Point

**Figure 44** presents the trend in transmission system interruption frequency against the regulatory target. The results indicate that performance remained within the prescribed standard, reflecting satisfactory transmission network reliability.

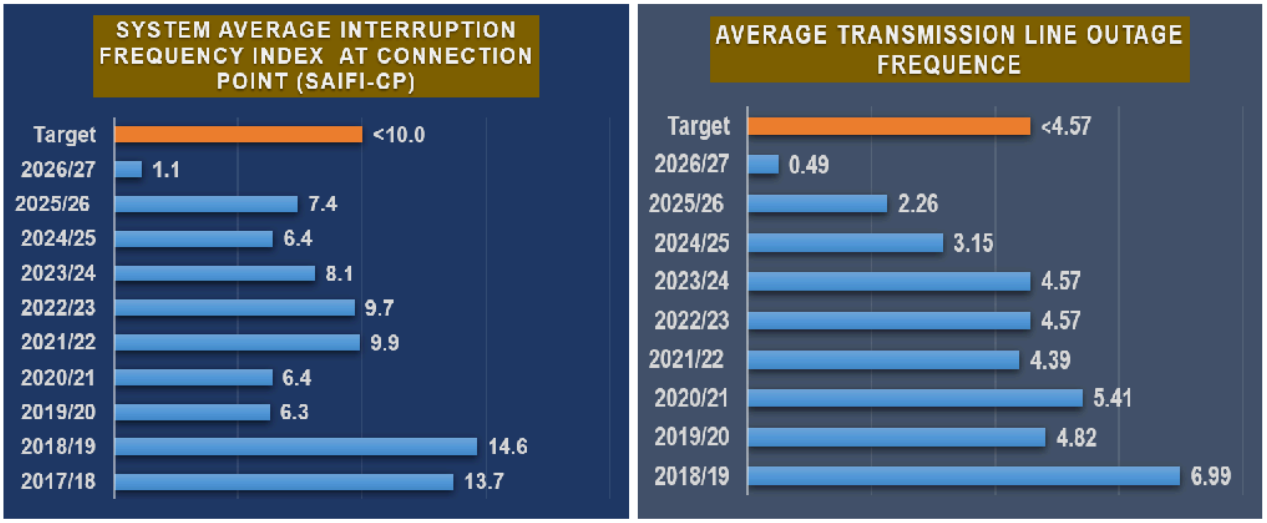



**Figure 44: System Average Interruption Frequency Index at Connection Point**

### 6.3.2 The System Average Interruption Duration Index at Connection Point

**Figure 45** presents the transmission system interruption duration against the regulatory target. The results indicate that performance remained within the prescribed standard, reflecting satisfactory transmission network reliability.

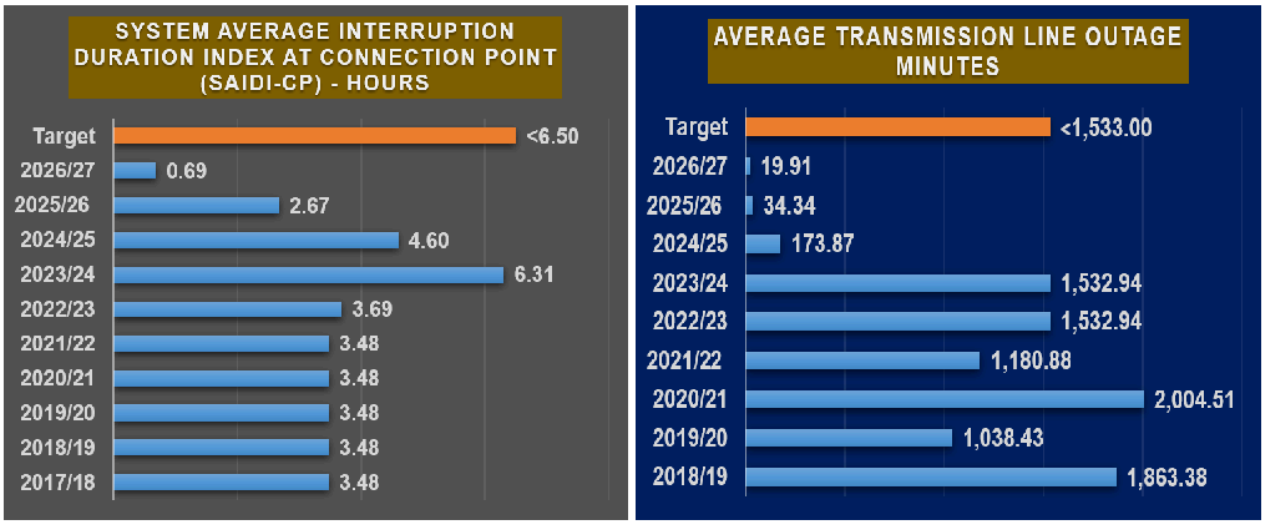
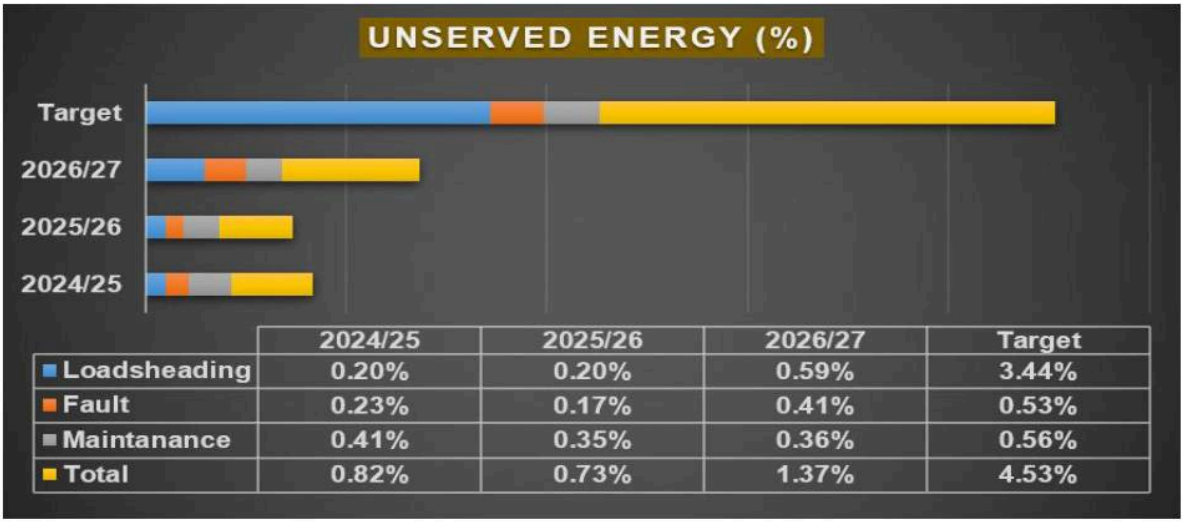


**Figure 45: System Average Interruption Duration Index at Connection Point**

## 6.4 Unserved Energy

**Figure 46** presents the proportion of unserved energy against the regulatory targets. The results indicate that performance remained within the prescribed targets, reflecting effective management of transmission system interruptions.




| | 2024/25 | 2025/26 | 2026/27 | Target |
|---|---|---|---|---|
| Loadsheading | 0.20% | 0.20% | 0.59% | 3.44% |
| Fault | 0.23% | 0.17% | 0.41% | 0.53% |
| Maintanance | 0.41% | 0.35% | 0.36% | 0.56% |
| Total | 0.82% | 0.73% | 1.37% | 4.53% |

**Figure 46: Unserved Energy**

# 7. ELECTRICITY DISTRIBUTION

**Figure 47** presents the key performance areas used to assess electricity distribution activities. The assessment covers licensed and registered entities to evaluate distribution network performance, reliability and quality of electricity supply.

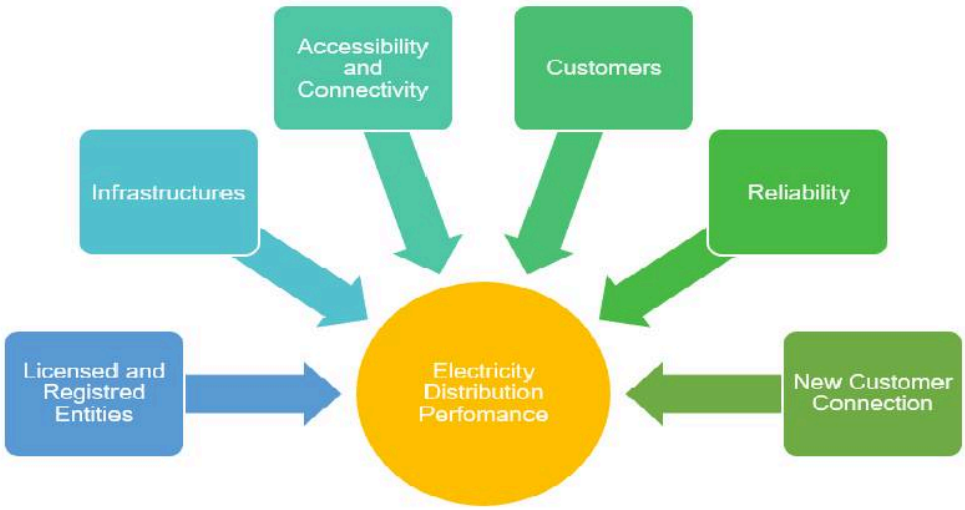
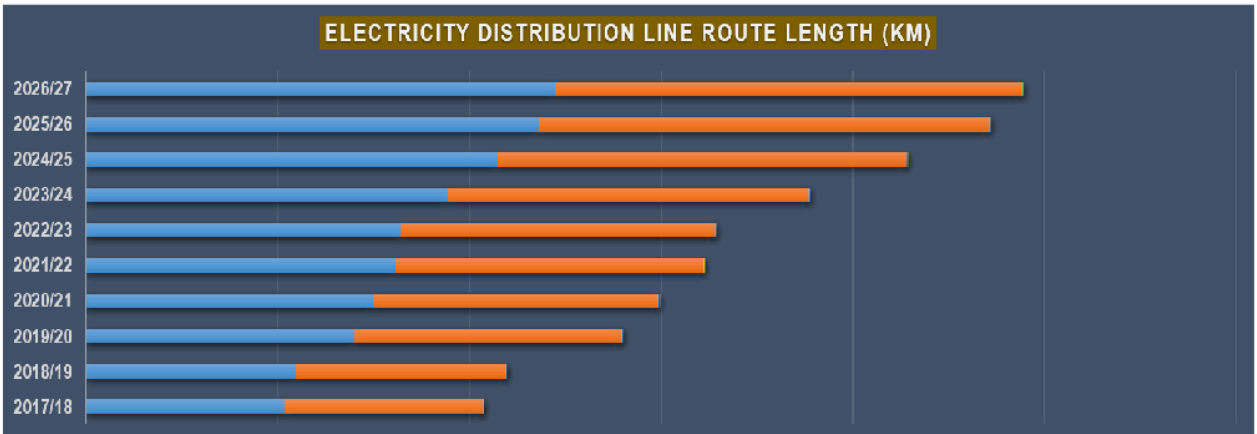


**Figure 47: Description of Electricity Distribution Performance**

## 7.1 Infrastructure

**Figure 48** presents the trend in electricity distribution line route length. The results indicate continued expansion of the distribution network, reflecting ongoing investment to support improved electricity access and connectivity.




| | 2017/18 | 2018/19 | 2019/20 | 2020/21 | 2021/22 | 2022/23 | 2023/24 | 2024/25 | 2025/26 | 2026/27 |
|---|---|---|---|---|---|---|---|---|---|---|
| Total | 103,640.36 | 109,639.60 | 139,978.21 | 149,579.64 | 161,407.47 | 164,361.41 | 188,883.08 | 214,343.67 | 236,045.06 | 244,447.00 |
| TANESCO | 103,289.36 | 109,225.60 | 139,092.86 | 148,544.23 | 160,366.86 | 163,296.06 | 187,817.73 | 213,278.32 | 234,979.71 | 243,381.65 |
| Mwenga | 351.00 | 414.00 | 437.00 | 439.00 | 444.00 | 448.50 | 448.50 | 448.50 | 448.50 | 448.50 |
| Powercorner | 0.00 | 0.00 | 152.00 | 152.00 | 152.00 | 152.00 | 152.00 | 152.00 | 152.00 | 152.00 |
| Jumeme | 0.00 | 0.00 | 104.70 | 215.47 | 215.47 | 247.12 | 247.12 | 247.12 | 247.12 | 247.12 |
| PowerGen | 0.00 | 0.00 | 112.90 | 150.19 | 150.19 | 150.19 | 150.19 | 150.19 | 150.19 | 150.19 |
| EON | 0.00 | 0.00 | 46.20 | 46.20 | 46.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Watu na Umeme | 0.00 | 0.00 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 | 7.75 |
| Andoya | 0.00 | 0.00 | 24.80 | 24.80 | 25.00 | 59.79 | 59.79 | 59.79 | 59.79 | 59.79 |

**Figure 48: Electricity Distribution Line Length**

## 7.2 Electrification

**Figure 49** presents the trends in electricity accessibility and connectivity. The results indicate continued improvement in electricity access and customer connections, reflecting progress in electrification efforts.

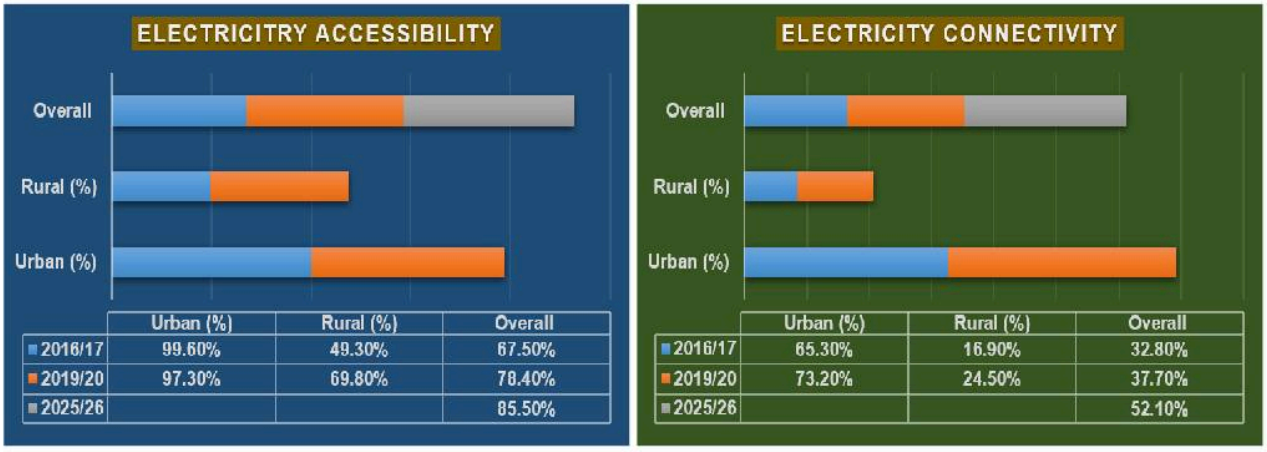
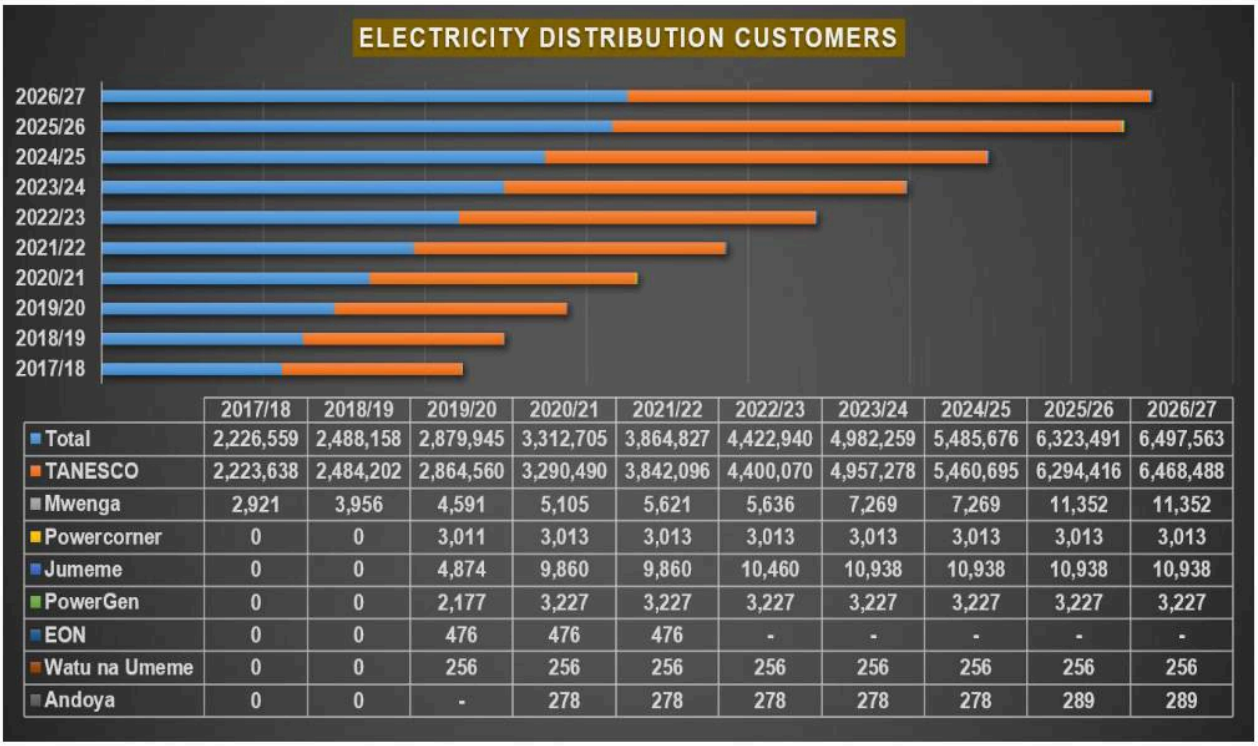



**Figure 49: Electricity Accessibility and Connectivity**

## 7.3 Customers

**Figure 50** presents the trend in the number of electricity distribution customers. The results indicate continued growth in customer connections, reflecting progress in expanding electricity access and connectivity.




| | 2017/18 | 2018/19 | 2019/20 | 2020/21 | 2021/22 | 2022/23 | 2023/24 | 2024/25 | 2025/26 | 2026/27 |
|---|---|---|---|---|---|---|---|---|---|---|
| Total | 2,226,559 | 2,488,158 | 2,879,945 | 3,312,705 | 3,864,827 | 4,422,940 | 4,982,259 | 5,485,676 | 6,323,491 | 6,497,563 |
| TANESCO | 2,223,638 | 2,484,202 | 2,864,560 | 3,290,490 | 3,842,096 | 4,400,070 | 4,957,278 | 5,460,695 | 6,294,416 | 6,468,488 |
| Mwenga | 2,921 | 3,956 | 4,591 | 5,105 | 5,621 | 5,636 | 7,269 | 7,269 | 11,352 | 11,352 |
| Powercorner | 0 | 0 | 3,011 | 3,013 | 3,013 | 3,013 | 3,013 | 3,013 | 3,013 | 3,013 |
| Jumeme | 0 | 0 | 4,874 | 9,860 | 9,860 | 10,460 | 10,938 | 10,938 | 10,938 | 10,938 |
| PowerGen | 0 | 0 | 2,177 | 3,227 | 3,227 | 3,227 | 3,227 | 3,227 | 3,227 | 3,227 |
| EON | 0 | 0 | 476 | 476 | 476 | - | - | - | - | - |
| Watu na Umeme | 0 | 0 | 256 | 256 | 256 | 256 | 256 | 256 | 256 | 256 |
| Andoya | 0 | 0 | - | 278 | 278 | 278 | 278 | 278 | 289 | 289 |

**Figure 50: Electricity Distribution Customers**

## 7.4 Reliability Of Electricity Supply

**Figure 51** presents the key reliability indices used to assess electricity supply performance in main-grid and off-grid systems. The assessment follows TZS 1374:2011 standards for quality of service and reliability.

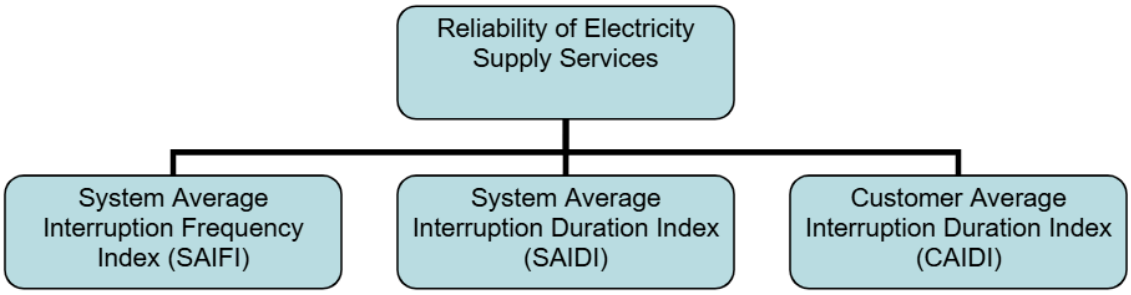
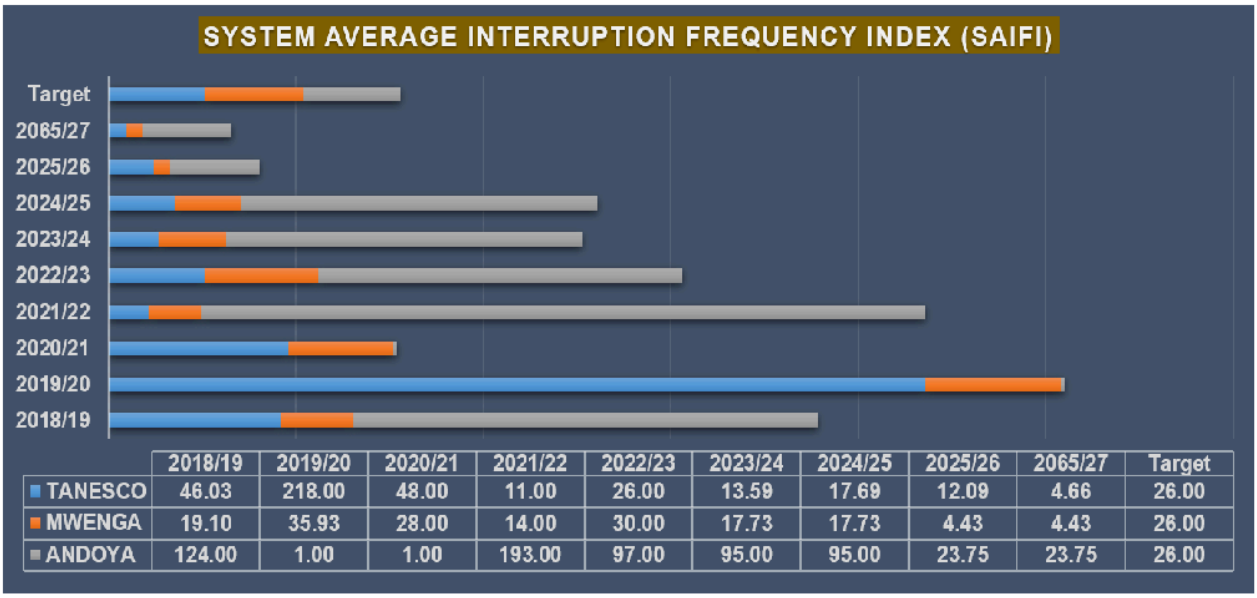



**Figure 51: Indices for The Reliability of Electricity Supply**

### 7.4.1 System Average Interruption Frequency Index (SAIFI)

**Figure 52** presents the trend in electricity supply interruption frequency against the regulatory target. The results indicate improved performance among the assessed licensees, with interruption frequency remaining within the prescribed standard.

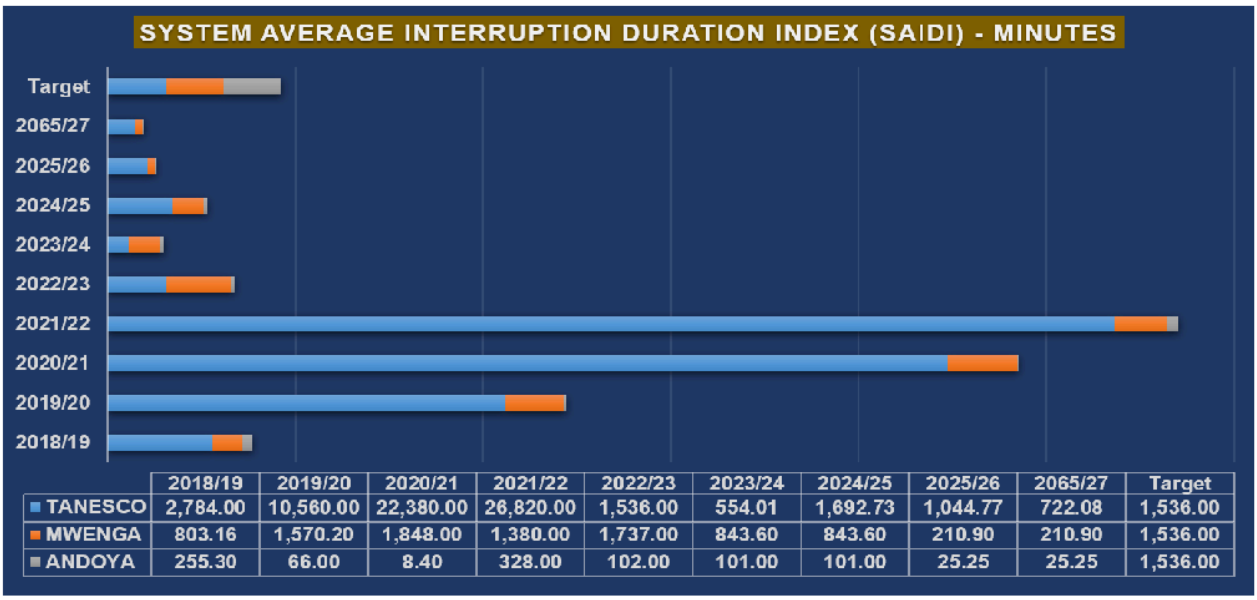



| | 2018/19 | 2019/20 | 2020/21 | 2021/22 | 2022/23 | 2023/24 | 2024/25 | 2025/26 | 2065/27 | Target |
|---|---|---|---|---|---|---|---|---|---|---|
| TANESCO | 46.03 | 218.00 | 48.00 | 11.00 | 26.00 | 13.59 | 17.69 | 12.09 | 4.66 | 26.00 |
| MWENGA | 19.10 | 35.93 | 28.00 | 14.00 | 30.00 | 17.73 | 17.73 | 4.43 | 4.43 | 26.00 |
| ANDOYA | 124.00 | 1.00 | 1.00 | 193.00 | 97.00 | 95.00 | 95.00 | 23.75 | 23.75 | 26.00 |

**Figure 52: System Average Interruption Frequency Index (SAIFI)**

### 7.4.2 The System Average Interruption Duration Index (SAIDI)

**Figure 53** presents the trend in electricity supply interruption duration against the regulatory target. The results indicate improved performance among the assessed licensees, with interruption duration remaining within the prescribed standard.

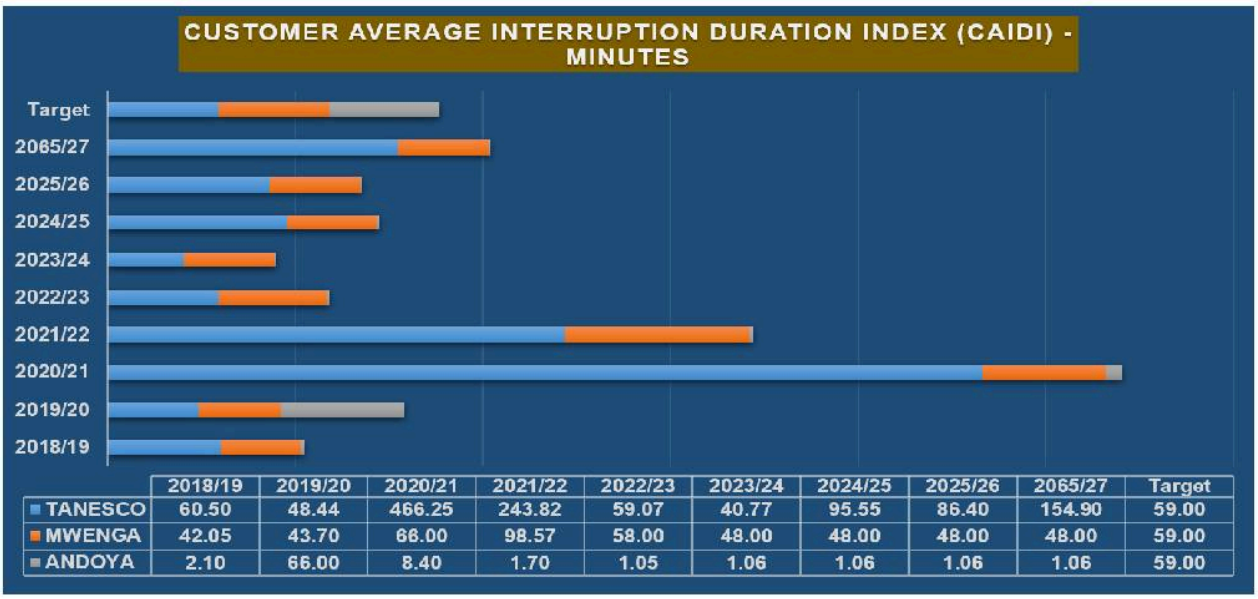



| | 2018/19 | 2019/20 | 2020/21 | 2021/22 | 2022/23 | 2023/24 | 2024/25 | 2025/26 | 2065/27 | Target |
|---|---|---|---|---|---|---|---|---|---|---|
| TANESCO | 2,784.00 | 10,560.00 | 22,380.00 | 26,820.00 | 1,536.00 | 554.01 | 1,692.73 | 1,044.77 | 722.08 | 1,536.00 |
| MWENGA | 803.16 | 1,570.20 | 1,848.00 | 1,380.00 | 1,737.00 | 843.60 | 843.60 | 210.90 | 210.90 | 1,536.00 |
| ANDOYA | 255.30 | 66.00 | 8.40 | 328.00 | 102.00 | 101.00 | 101.00 | 25.25 | 25.25 | 1,536.00 |

**Figure 53: System Average Interruption Duration Index (SAIDI) in Minutes**

### 7.4.3 The Customer Average Interruption Duration Index (CAIDI)

**Figure 54** presents the trend in average customer interruption duration against the regulatory target. The results indicate mixed performance among the assessed licensees, highlighting the need for further improvement in service restoration times.




| | 2018/19 | 2019/20 | 2020/21 | 2021/22 | 2022/23 | 2023/24 | 2024/25 | 2025/26 | 2065/27 | Target |
|---|---|---|---|---|---|---|---|---|---|---|
| TANESCO | 60.50 | 48.44 | 466.25 | 243.82 | 59.07 | 40.77 | 95.55 | 86.40 | 154.90 | 59.00 |
| MWENGA | 42.05 | 43.70 | 66.00 | 98.57 | 58.00 | 48.00 | 48.00 | 48.00 | 48.00 | 59.00 |
| ANDOYA | 2.10 | 66.00 | 8.40 | 1.70 | 1.05 | 1.06 | 1.06 | 1.06 | 1.06 | 59.00 |

**Figure 54: Customer Average Interruption Duration Index (CAIDI)**

### 7.4.4 Electricity Consumption per Capita

**Figure 55** presents the trend in electricity consumption per capita, reflecting the level of electricity utilisation. The projections indicate continued growth in per capita consumption, highlighting increasing electricity demand and utilisation.

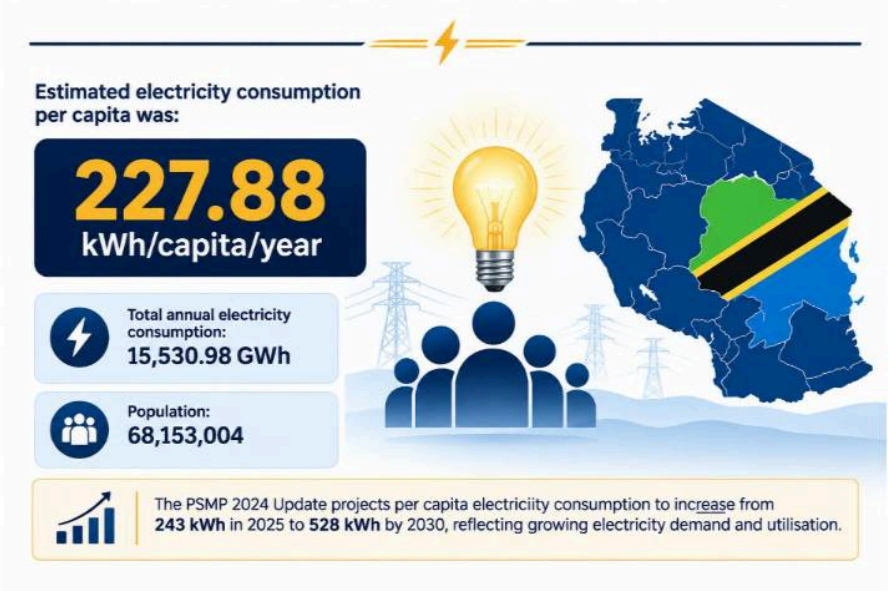



**Figure 55: Electricity Consumption per Capita**

## 8. ENERGY LOSSES

**Figure 56** presents the entities assessed for electricity transmission and distribution losses. The assessment covers energy losses across the respective networks to evaluate operational efficiency and identify areas for improvement.

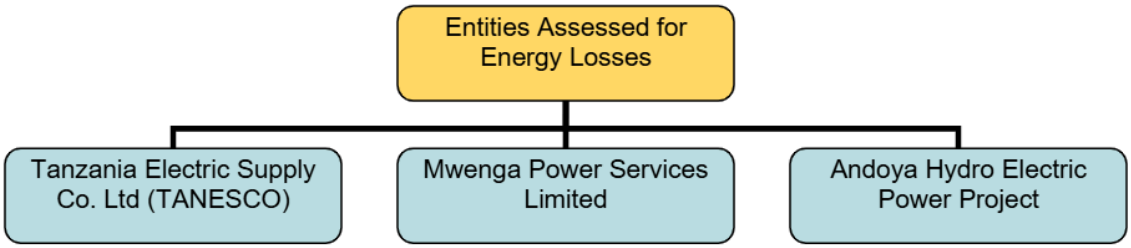



**Figure 56: Entities Assessed for Energy Losses**

**Figure 57** presents the trend in transmission and distribution energy losses against the regulatory targets. The results indicate increasing energy losses, although performance remained within the prescribed targets, highlighting the need for continued loss reduction measures.




| | 2017/18 | 2018/19 | 2019/20 | 2020/21 | 2021/22 | 2022/23 | 2023/24 | 2024/25 | 2025/26 | 2026/27 | Target (<) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TANESCO-Distribution | 4.53 | 10.35 | 9.41 | 9.50 | 8.75 | 8.69 | 8.75 | 8.00 | 8.40 | 8.63 | 9.00 |
| TANESCO-Transmission | 5.89 | 5.87 | 5.89 | 5.89 | 5.89 | 5.88 | 5.86 | 5.86 | 5.88 | 5.73 | 5.88 |
| TANESCO-Transmission+Distribution | 10.42 | 16.22 | 15.30 | 15.39 | 14.64 | 14.57 | 14.61 | 13.86 | 14.28 | 14.36 | 14.88 |
| MWENGA-Distribution | 3.69 | 4.24 | 4.73 | 5.49 | 6.00 | 5.99 | 6.00 | 6.00 | 5.60 | 5.60 | 9.00 |
| ANDOYA-Distribution | 7.41 | 5.75 | 5.59 | 4.34 | 3.98 | 1.33 | 1.31 | 1.31 | 1.31 | 1.31 | 9.00 |

**Figure 57: Energy Losses (%)**

## 9. INVESTMENT AND INFRASTRUCTURE DEVELOPMENT

**Figure 58** presents electricity infrastructure projects under development by public and private entities. The results highlight ongoing investments aimed at expanding electricity infrastructure

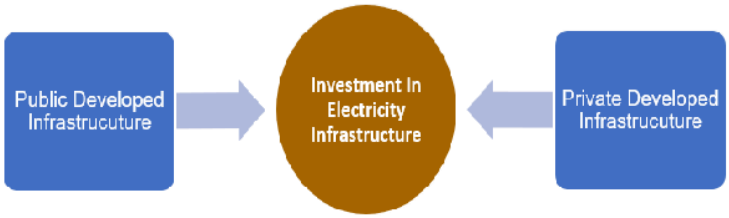



**Figure 58: Investment in Electricity Infrastructure**

and strengthening security of supply.

## 9.1 Public Developed Infrastructure

The Government, through TANESCO, continues to invest in electricity generation and transmission infrastructure. These investments aim to strengthen the power system, improve reliability and enhance the security of electricity supply.

### 9.1.1 Electricity Generation Projects

**Figure 59** presents the implementation progress of public electricity generation projects. The results indicate continued advancement in the development and rehabilitation of generation infrastructure to enhance electricity supply capacity and reliability.

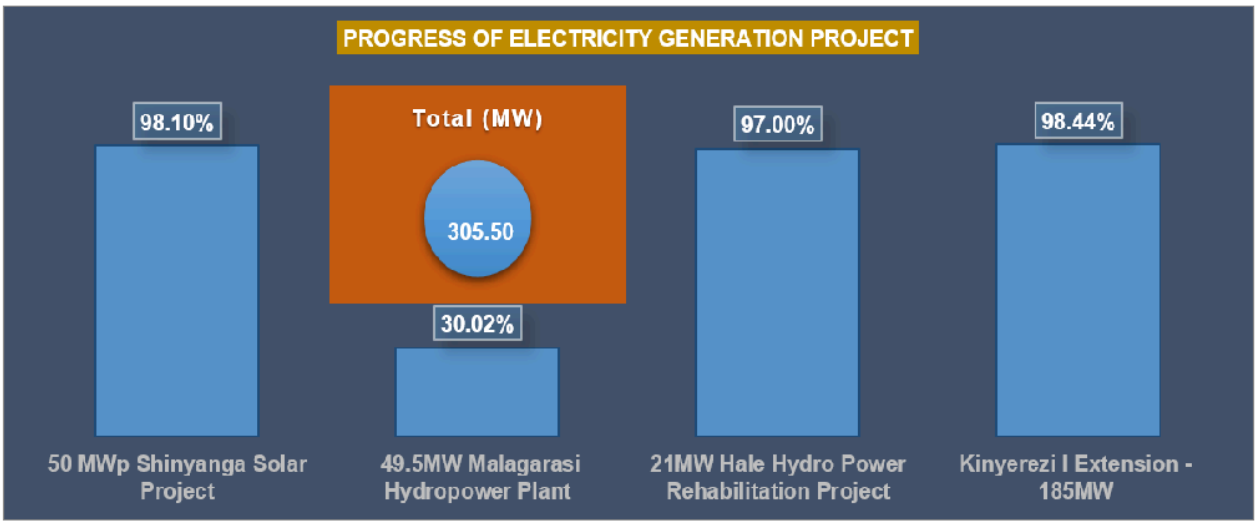



**Figure 59: Progress of Electricity Generation Projects**

### 9.1.2 Electricity Transmission Projects

**Table 9** presents the implementation status of electricity transmission line and substation projects, with further details provided in **Annex 20**. The results highlight ongoing investments aimed at expanding transmission capacity, improving system reliability and supporting growing electricity demand.

**Table 9: Electricity Transmission Projects**

| S/N | Description | Unit | Quantity |
|---|---|---|---|
| 1 | Line | No. | 24.00 |
| 2 | Line | km | 3451.21 |

| S/N | Description | Unit | Quantity |
|---|---|---|---|
| 1 | Substation | No. | 32.00 |
| 2 | Substation | kVA | 11675.00 |

| S/N | Description | Unit | Quantity |
|---|---|---|---|
| 1 | Reactor | No. | 1.00 |
| 2 | Reactor | kVAr | 340.00 |

***Source**: TANESCO*

## 9.2 Private Entities' Participation in the Development of Infrastructure

**Table 10** presents the implementation status of private sector electricity generation projects, with further details provided in **Annex 6**. The results highlight continued private sector investment aimed at expanding generation capacity, diversifying the energy mix and enhancing electricity supply reliability and security.

**Table 10: Private Entities' Participation in the Development of Infrastructure**

| S/N | Description | Number | Capacity |
|---|---|---|---|
| 1 | Operational | 24 | 508.10 |
| 2 | Construction on progress | 8 | 36.23 |
| 3 | Construction not commenced | 37 | 178.39 |
| | **Total** | **69** | **722.72** |

***Source**: Licensees*

# 10. CLEAN COOKING

Electricity plays an important role in promoting clean cooking and supporting Tanzania's energy transition. The National Clean Cooking Strategy 2024 provides a framework for accelerating the adoption of clean and efficient cooking technologies while reducing reliance on traditional biomass fuels.

## 10.1 Access to Clean Fuels and Technologies for Cooking

**Figure 60**, presents the trend in access to clean cooking fuels and technologies in Tanzania. The results indicate gradual improvement, although access remains low, highlighting the need for increased investment and measures to accelerate adoption towards the national target.

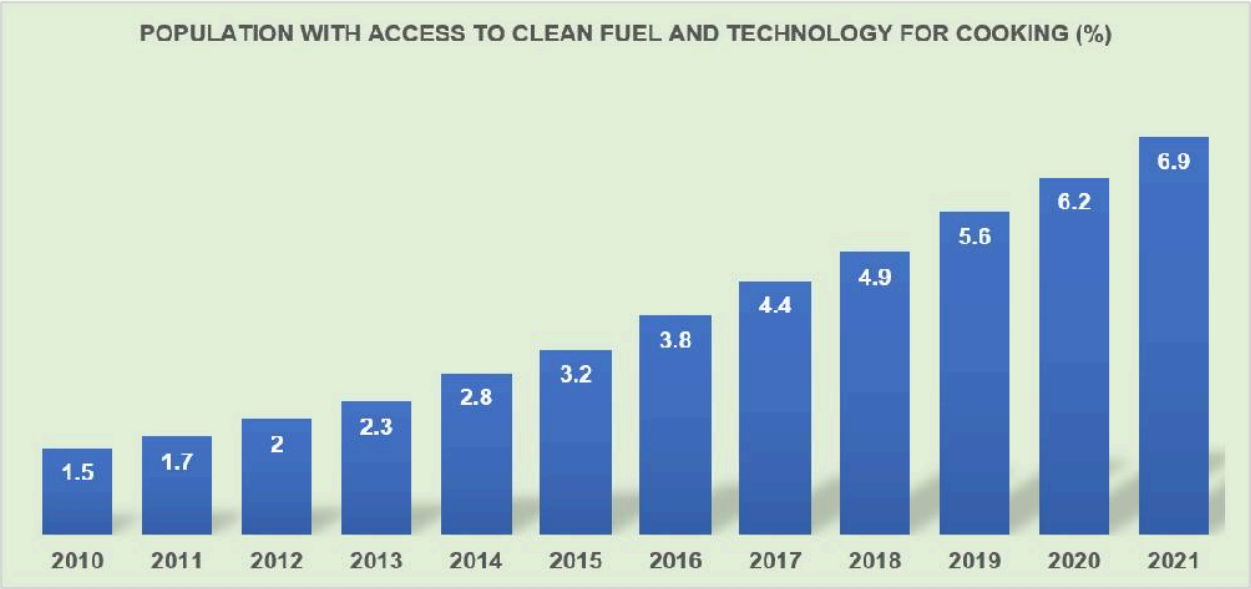



**Figure 60: Population with Access to Clean Fuels and Technologies for Cooking**

## 10.2 Fuels And Technologies Used for Cooking

**Figure 61** presents the distribution of household cooking energy sources in Mainland Tanzania. The results indicate continued reliance on traditional biomass fuels, highlighting the need to accelerate the adoption of cleaner, more efficient and sustainable cooking solutions.

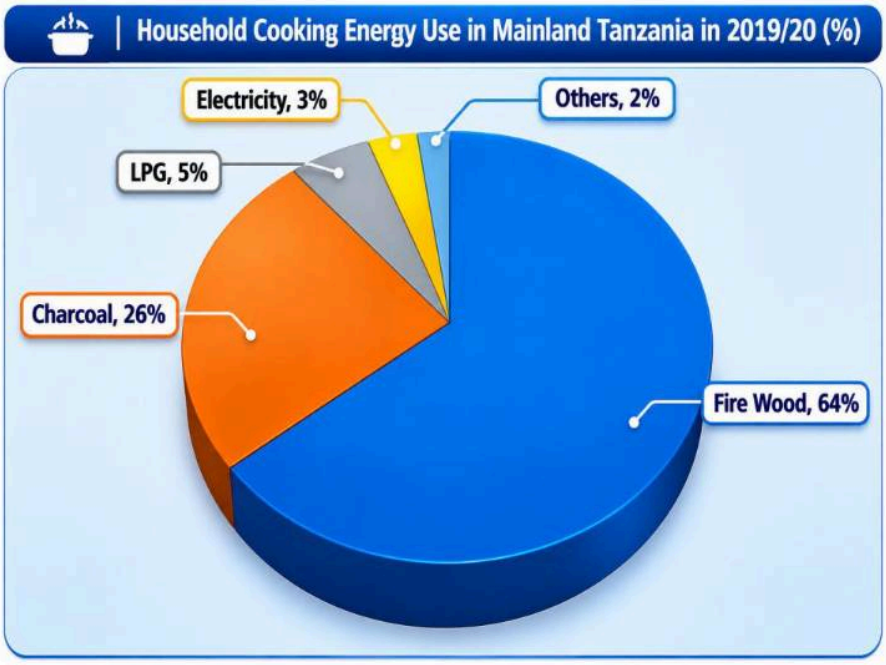



**Figure 61: Household Cooking Energy Use in Mainland Tanzania (%)**

## 10.3 Strategies for Promoting Electricity for Clean Cooking

**Figure 62** presents the strategies for promoting the use of electricity for clean cooking. The strategies focus on improving electricity access and connectivity, enhancing

affordability, promoting energy-efficient cooking appliances and strengthening policy and regulatory frameworks to accelerate clean cooking adoption.

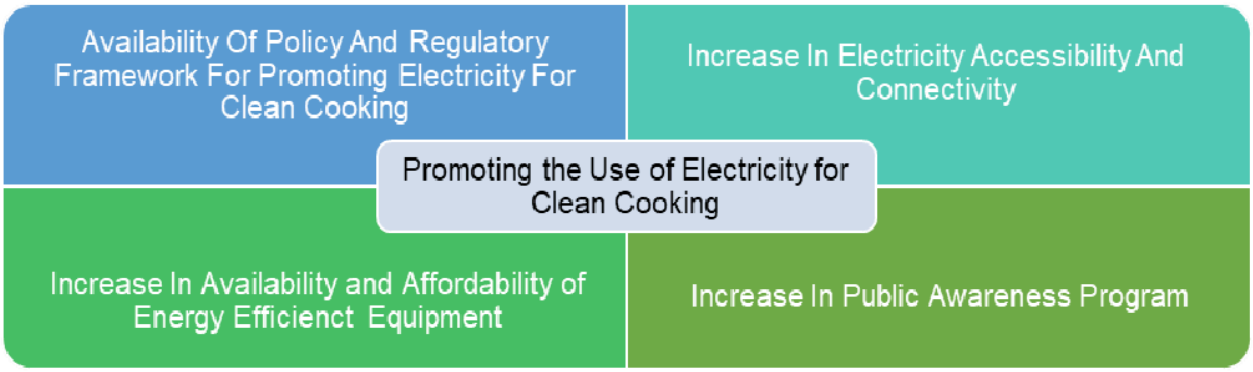



**Figure 62: Strategies for Promoting the Use of Electricity for Clean Cooking**

## 11. MARKET COMPETITION ANALYSIS

**Figure 63** presents the key aspects used to assess market competition in Tanzania's Electricity Supply Industry (ESI). The assessment considers the existing single-buyer market structure and the participation of public and private entities in electricity generation, supply and related activities presented in **Figure 1**.

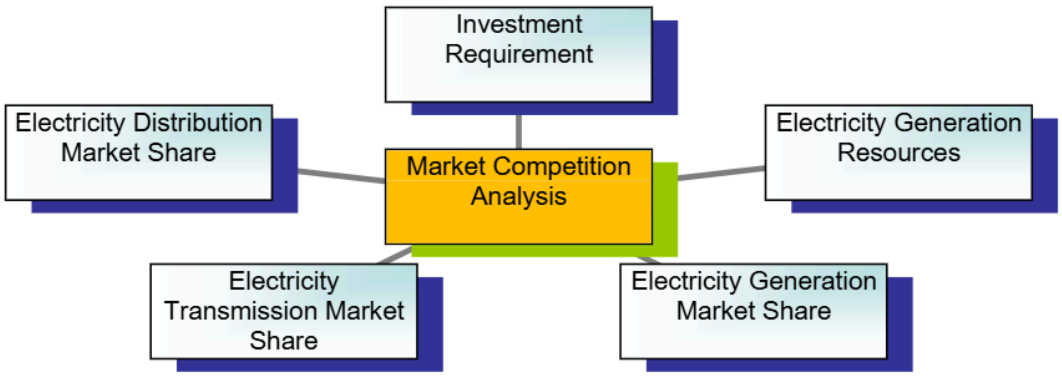



**Figure 63: Market Competition Analysis**

### 11.1 Investment Requirement

**Figure 64** presents the projected trend in peak electricity demand based on the Power System Master Plan (PSMP). The projections indicate sustained demand growth, highlighting the need for continued investment in generation, transmission and distribution infrastructure, with increased private sector participation to ensure reliable and secure electricity supply.




**Figure 64: Forecasted Electricity Demand (2025-2050)**

## 11.2 Electricity Generation Resources

**Figure 65** presents the identified electricity generation resource potential, while **Table 4** compares this potential with the existing installed generation capacity. The comparison indicates that only a limited share of the identified resources has been developed, highlighting the need for increased public and private investment in economically viable generation projects.

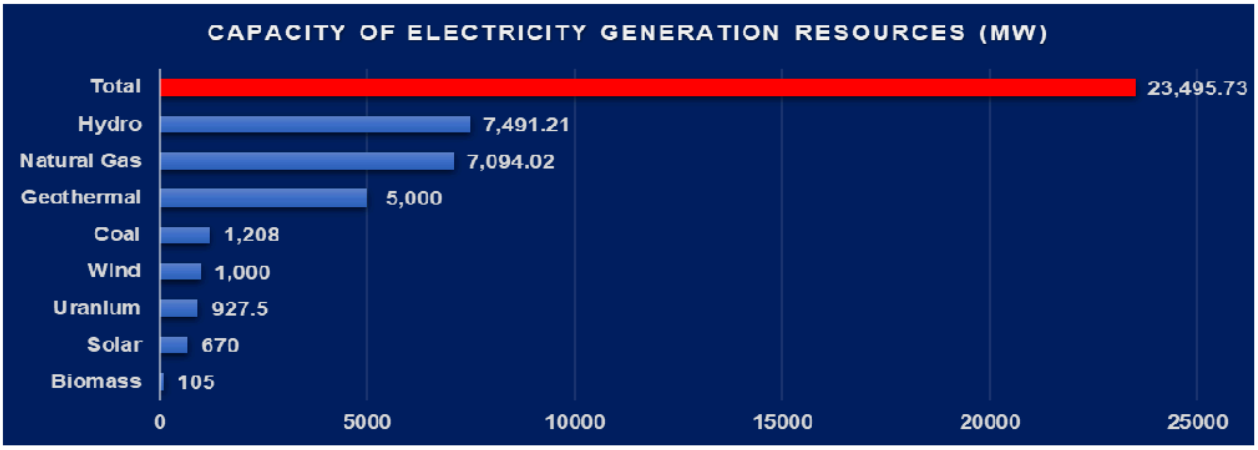



**Figure 65: Capacity of Available Electricity Generation Resources (MW)**

## 11.3 Electricity Generation Market Share

**Figure 66** and **Figure 67** present the market shares of electricity installed generation capacity and energy generation, respectively. The results indicate high market concentration, highlighting the need to strengthen private sector participation, diversify investment and enhance competition in electricity generation.

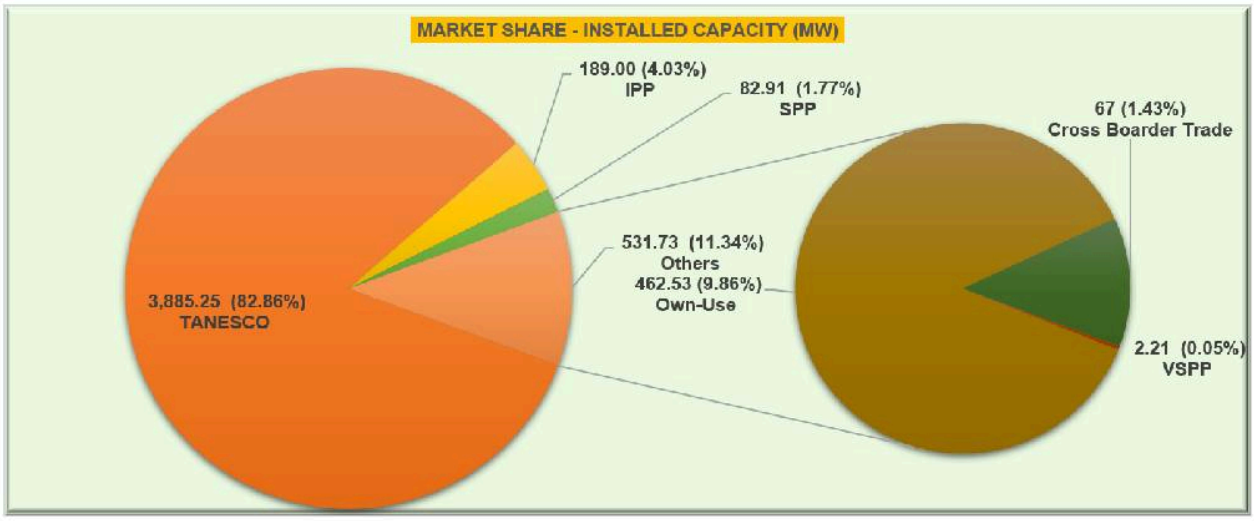



**Figure 66: Market Share – Installed Capacity (MW)**

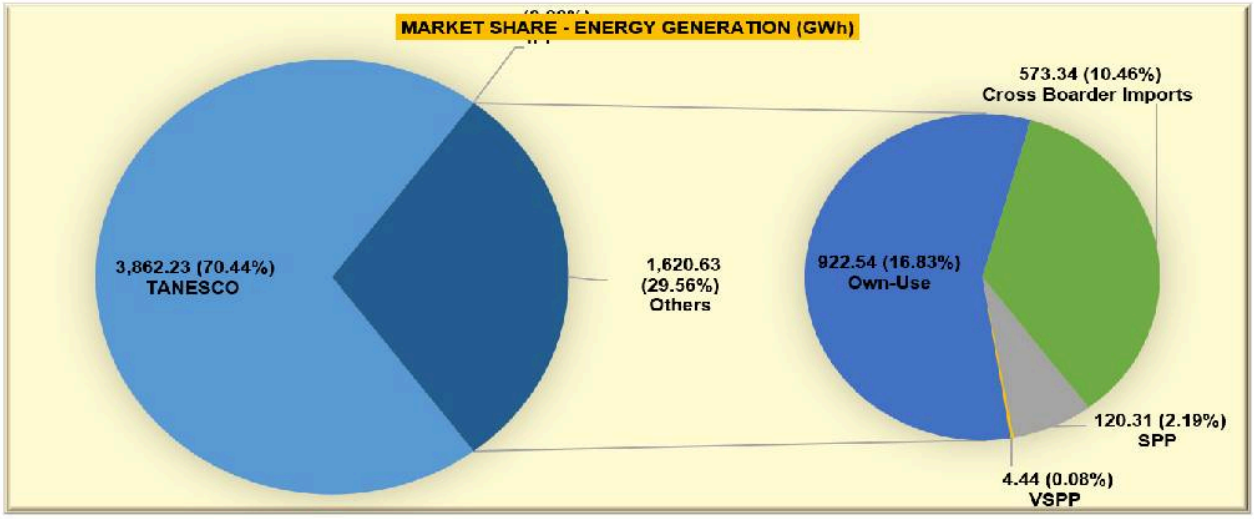



**Figure 67: Market Share – Electricity Generation**

## 11.4 Electricity Transmission and System Operations Market Share

**Figure 69** presents the market structure and participation in electricity transmission and system operation activities. The results indicate TANESCO's exclusive role in both activities, while the regulatory framework permits private sector financing of transmission infrastructure development.




**Figure 68: Market Share – Electricity Transmission**

## 11.5 Electricity Distribution Market Share

**Figure 69** and **Figure 70** present the electricity distribution market shares by customer numbers and infrastructure, respectively. The results indicate TANESCO's dominant market position, with limited private sector participation in electricity distribution activities.

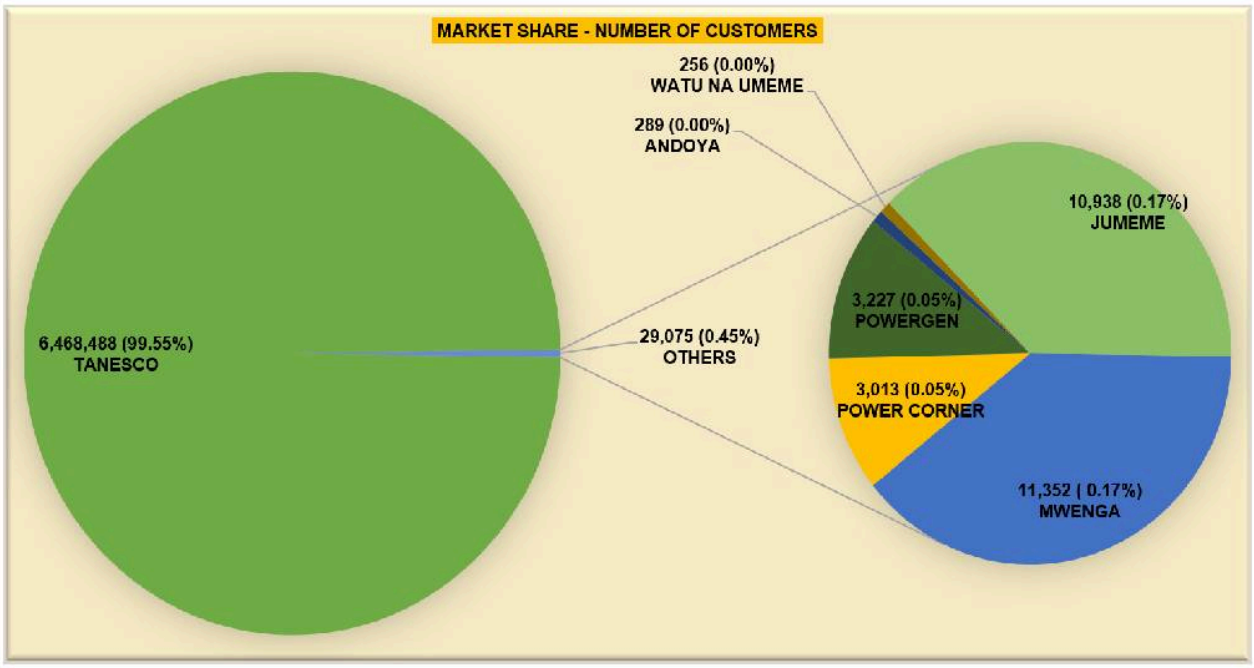



**Figure 69: Market Share – Electricity Distribution Customer**

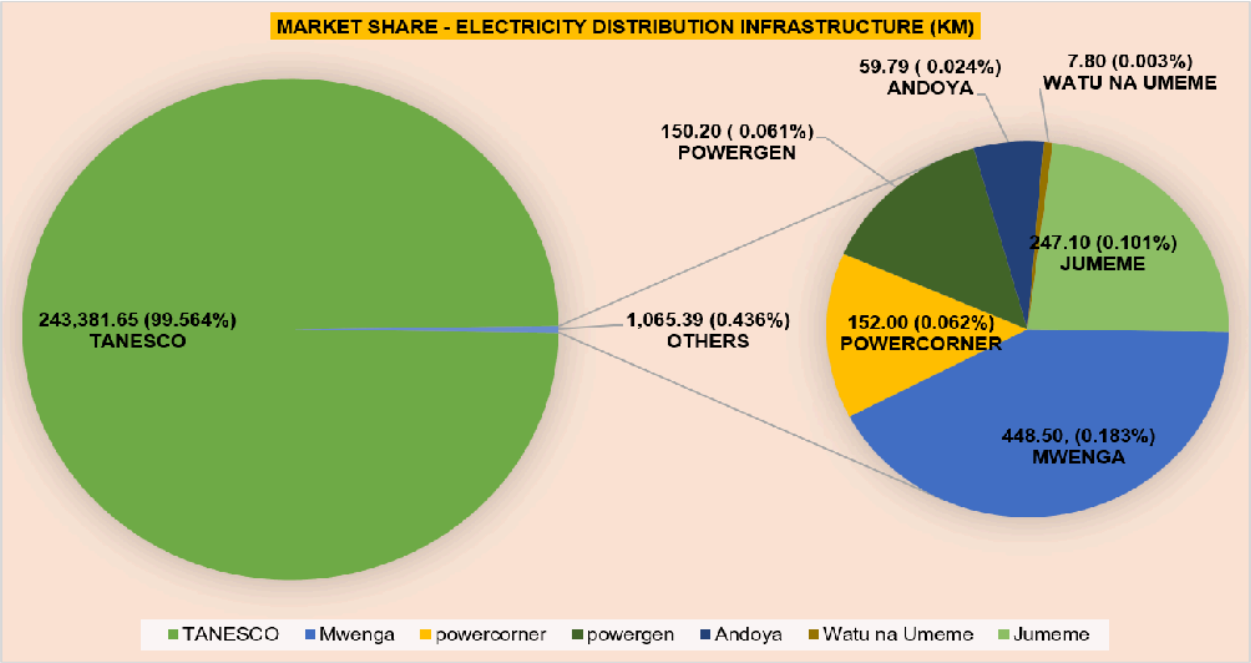



**Figure 70: Market Share – Electricity Distribution Infrastructure**

## 12. REGULATORY IMPACT

EWURA's regulatory interventions contributed to improvements in electricity access, affordability, security of supply, service quality, reliability, investment, consumer protection and operational efficiency. These interventions reflect EWURA's statutory mandate to promote efficient, reliable, affordable and sustainable electricity services.

### 12.1 Affordability and Access to Electricity Services

Regulatory oversight of tariffs, licensing, service standards, and investment contributed to the continued expansion of electricity services. Tariff regulation provided a structured basis for balancing consumer interests with the financial sustainability of regulated entities. At the same time, licensing of electrical installation service providers supported the safe and orderly expansion of connections. Electricity accessibility and connectivity continued to improve alongside expansion of the distribution network and growth in customer connections. These developments indicate that regulatory oversight, investment facilitation and service-provider performance monitoring are contributing to broader access to electricity services.

### 12.2 Security and Adequacy of Electricity Supply

The regulatory framework continued to support development of new generation capacity and diversification of electricity supply. Licensing, procurement approvals and regulatory

review of PPAs provided a structured basis for mobilising additional generation investment and strengthening the future supply pipeline. The improved reserve margin, which remained substantially above the prescribed minimum, indicates strengthened system adequacy and greater capacity to accommodate demand growth and system contingencies. Continued attention is nevertheless required to ensure that available capacity is efficiently utilised and that new generation is developed in a timely and least-cost manner.

## 12.3 Quality and Reliability of Electricity Supply

Electricity supply reliability remained generally within prescribed performance requirements. Transmission reliability indicators were better than the applicable targets, while distribution performance improved in terms of both interruption frequency and duration. However, the continued performance gap in Customer Average Interruption Duration Index (CAIDI) indicates that, although interruptions have become less frequent, their duration remains an area requiring further improvement. Regulatory focus should therefore increasingly emphasise timely restoration, network maintenance and system resilience.

## 12.4 Consumer Protection and Service Standards

Regulatory monitoring of service standards, performance agreements, tariffs and customer complaints strengthened accountability among electricity service providers. The resolution of electricity-related complaints and disputes provided customers with mechanisms for redress and enabled recurring service issues to be identified for regulatory attention. The nature of complaints, particularly those relating to property damage, customer service and connections, highlights areas where service providers should strengthen customer engagement, communication and service delivery practices.

## 12.5 Operational Efficiency and Loss Reduction

Regulatory oversight continued to promote efficiency in electricity supply operations, including monitoring of technical and commercial losses. Overall transmission and distribution losses remained within the prescribed regulatory threshold, indicating compliance with the applicable performance requirement. Nevertheless, the persistence of system losses demonstrates the need for continued investment in network reinforcement, metering, maintenance and other measures aimed at improving operational efficiency and reducing avoidable losses.

## 12.6 Investment and Infrastructure Development

The regulatory framework continued to facilitate investment in generation, transmission and distribution infrastructure through licensing, procurement approvals, tariff regulation and PPA oversight. Public investment in generation and network infrastructure is expected to strengthen system capacity, improve power evacuation, enhance reliability and support the anticipated growth in electricity demand. At the same time, the regulatory framework provides mechanisms for greater private-sector participation and investment. Continued regulatory efforts are therefore required to improve investment certainty, streamline project development and support timely implementation of priority infrastructure.

## 12.7 Market Structure, Competition And Private-Sector Participation

Private-sector participation continued to contribute to the development and diversification of the ESI, particularly in generation. The existing portfolio of licensed projects and PPAs demonstrates continued investor interest, although market participation remains concentrated and TANESCO continues to occupy a dominant position across major segments of the industry. The regulatory framework provides a basis for progressively strengthening competition, including through non-discriminatory access to transmission services and appropriate market arrangements. Further development of these mechanisms will be important for improving efficiency, attracting private capital and supporting a more competitive electricity market.

## 12.8 Overall Regulatory Impact

Overall, regulatory interventions during FY2025/26 supported the orderly development and performance of the ESI, particularly through strengthened oversight, improved service access, adequate supply, compliance monitoring, consumer protection and investment facilitation. The principal areas requiring continued regulatory attention are efficient utilisation of generation capacity, reduction of losses, improvement of interruption restoration times, network strengthening, mobilisation of private investment, and progressive development of competition.

# 13. CONSUMER PROTECTION AND SERVICE STANDARDS

Consumer protection is a fundamental component of electricity regulation under the Electricity Act. Section 31 of the Electricity Act, Cap. 131, R.E.2023, specifically requires distribution and supply licensees to establish customer protection, service quality and performance standards, appropriate customer procedures and programmes for informing customers on electricity-related matters. Licensees are also required to establish offices to receive and respond to customer questions, concerns and complaints. Accordingly, consumer safeguards during FY2025/26 focused on customer service standards,

performance accountability, compliance monitoring, customer awareness and complaint and dispute resolution.

## 13.1 Customer Service Charter

EWURA continued to monitor implementation of Customer Service Charters by regulated entities. The Act requires distribution licensees to establish and publish a Customer Service Charter reflecting customer rights and duties and procedures for handling complaints. The implementation and monitoring of Customer Service Charters strengthened transparency regarding service obligations and provided customers with a clear basis for understanding their rights, responsibilities and available channels for addressing service concerns.

## 13.2 Performance Agreements

Regulated entities entered into Performance Agreements containing measurable key performance indicators as in **Annex 21**. The Act defines a Performance Agreement as an agreement between a licensee and the Authority establishing measurable performance requirements, including incentives and penalties, to improve the efficiency and effectiveness of the licensee. Performance agreements therefore provide a structured mechanism for linking regulatory oversight with measurable improvements in service quality, reliability, efficiency and customer service.

## 13.3 Compliance Monitoring and Customer Awareness

EWURA conducted compliance monitoring of licensees to assess adherence to the Electricity Act, licence conditions, regulatory requirements and applicable standards. This function is expressly provided for under Section 32 of the Electricity Act, Cap. 131, R.E.2023, which requires the Authority to establish systems and procedures for monitoring and measuring licensee performance and compliance. EWURA also supported customer awareness programmes to improve public understanding of electricity services, customer rights and obligations. This is consistent with Section 31, which allows the Authority to conduct customer education programmes and require licensees to do so.

## 13.4 Complaint and Dispute Resolution

During FY 2025/26, EWURA resolved 79 complaints and disputes between regulated entities and their customers. This strengthened customer redress and accountability of service providers. The Act provides specific protection where customers suffer property loss or physical injury as a result of unlawful disconnection, unlawful suspension of electricity services, or poor quality of supply. It also provides for referral of payment-related disputes to the Authority.

## 13.5 Overall Consumer Protection and Service Standards

Overall, the consumer safeguard framework strengthened customers' rights, transparency, service accountability and access to redress, while providing EWURA with a clear statutory basis for monitoring and enforcing customer service standards.

# 14. FUTURE OUTLOOK OF THE ELECTRICITY SUPPLY INDUSTRY

The outlook for Tanzania's electricity supply industry remains positive, supported by rising electricity demand, planned investments in generation and transmission, increasing participation of renewable energy, emerging technologies, and reforms aimed at improving market efficiency and customer participation. The key areas expected to shape the development of the sub-sector are as follows:

## 14.1 Net-Metering Framework

The Electricity (Net-Metering) Rules, 2018 provide a framework for customers to generate electricity from renewable energy sources, particularly solar, and offset electricity consumed from the grid as shown in **Figure 71**. As we advance, increased uptake of net metering is expected to support distributed renewable generation, improve energy security, enhance efficient electricity use, and increase customer participation in electricity supply. The framework permits net-metered generation up to 5% of the utility's maximum demand. The regulatory focus will therefore include facilitating implementation, ensuring appropriate metering and interconnection arrangements, and protecting the interests of both customers and utilities.

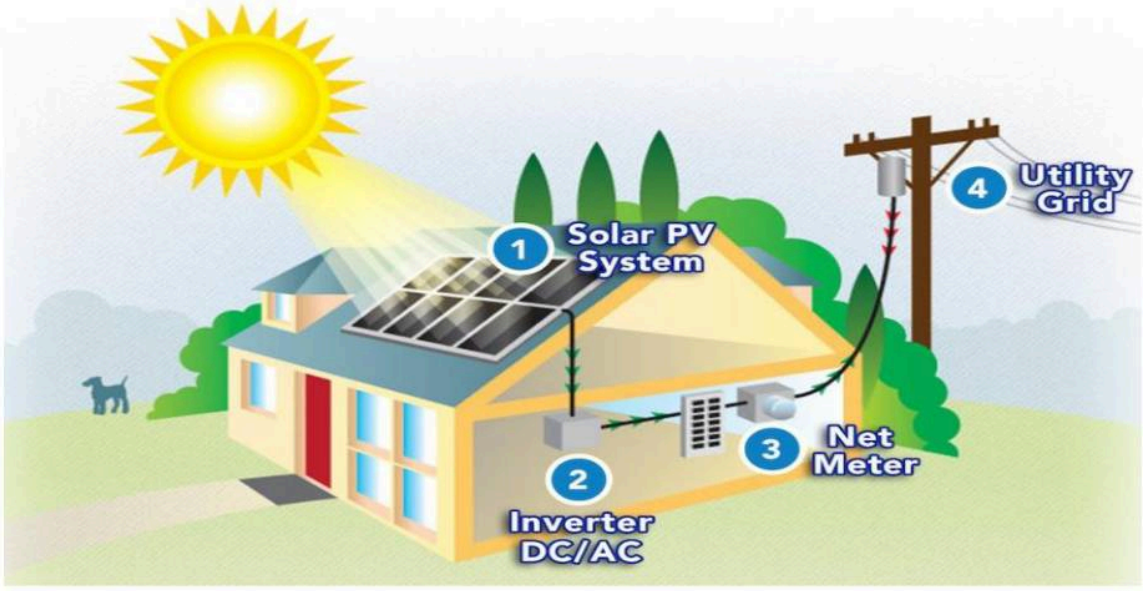



**Figure 71: Net-Metering Mechanism**

## 14.2 Private Sector Financing the Construction of an Electric Supply Line

The framework under the Electricity (General) Regulations, 2020 provides for customers to participate in financing the construction of electricity supply infrastructure, subject to the applicable regulatory requirements as depicted in **Figure 72.** Going forward, this mechanism is expected to support faster electricity connections by mobilising private capital for the development of transmission, distribution and associated supply infrastructure. The reimbursement arrangements between customers and utilities will also be important in ensuring transparency, cost recovery and equitable access to electricity. This approach is consistent with the Electricity Act, which provides for measures to attract private-sector participation in the electricity supply industry.

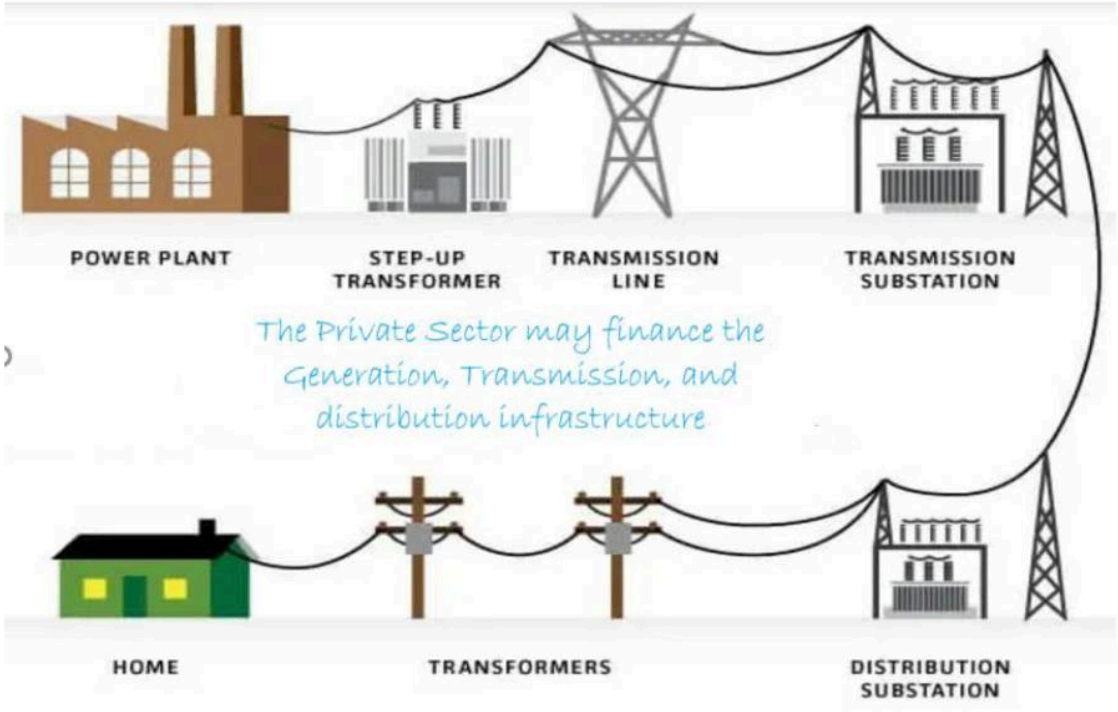



**Figure 72: Private Sector Financing the Construction of an Electric Supply Line**

## 14.3 Electro Mobility

The development of electromobility is expected to create a new source of electricity demand and introduce additional requirements for electricity supply, metering, charging infrastructure, and safety as depicted in **Figure 73**. The regulatory framework for electricity consumption associated with electric vehicles and charging stations is therefore being developed to facilitate the safe and efficient integration of electromobility into the electricity supply industry. Continued coordination among Government, EWURA, utilities, vehicle

operators and other stakeholders will be necessary to support investment in charging infrastructure and manage the associated impact on the electricity network.



**Figure 73: Electromobility**

## 14.4 Load Forecast and Generation Requirements

The Power System Master Plan 2024 Update provides a 25-year outlook for electricity demand based on historical consumption, economic growth, population growth, electrification and emerging electricity-intensive activities. Key demand drivers include electric mobility, clean cooking technologies, the Standard Gauge Railway (SGR), LNG development, and other industrial activities.

Under the Base-Case scenario, electricity demand is projected to increase from 16,007.50 GWh in 2025 to 40,932.87 GWh in 2030, while per-capita electricity consumption is projected to increase from 243 kWh to 528 kWh over the same period. The connectivity rate is also projected to increase from 50% in 2025 to 87% in 2030, as shown in **Table 11**. These developments will require timely investment in generation, transmission and distribution capacity to maintain an adequate and reliable supply of electricity.

**Table 11: Load Forecast and Generation Requirements**

| Year | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|---|---|---|---|---|---|---|
| Peak Demand -MW | 2,507.80 | 3,203.54 | 4,415.27 | 5,256.01 | 5,856.96 | 6,571.09 |
| Energy Demand-GWh | 16,007.50 | 20,941.96 | 27,579.20 | 32,800.81 | 36,517.71 | 40,932.87 |
| Number of Customer | 6,647,233.00 | 8,017,787.00 | 9,388,341.00 | 10,758,895.00 | 12,129,449.00 | 13,500,000.00 |
| Population | 65,882,543.00 | 68,043,578.00 | 70,285,232.00 | 72,610,906.00 | 75,024,165.00 | 77,528,745.00 |
| Household Population | 13,176,508.60 | 13,608,715.60 | 14,057,046.40 | 14,522,181.20 | 15,004,833.00 | 15,505,749.00 |
| **Connectivity Rate** | **50%** | **59%** | **67%** | **74%** | **81%** | **87%** |
| Per Capita Consumption-kWh | **243** | **308** | **392** | **452** | **487** | **528** |

## 14.5 Power Generation Expansion Plan

The planned expansion of generation capacity is expected to significantly transform the electricity supply mix. Total installed generation capacity is projected to increase from **3,191.71 MW in 2024 to 19,905.19 MW by 2050**, while electricity generation is projected to increase from **16,445.63 GWh to 108,203.90 GWh** over the same period, as shown in **Table 12**.

The generation portfolio is also expected to become more diversified. The contribution of **non-hydro renewable energy** is projected to increase substantially, reaching **52% of renewable generation capacity by 2050**. This expansion will require an enabling regulatory environment for private investment, competitive procurement, appropriate tariff frameworks, grid integration, and investment in flexibility and system balancing resources.

**Table 12: Power Generation Expansion Plan**

| Year | 2024 | 2025 | 2028 | 2030 | 2038 | 2050 |
|---|---|---|---|---|---|---|
| Installed Capacity-MW | 3,191.71 | 4,181.71 | 8,735.09 | 11,822.39 | 15,638.19 | 19,905.19 |
| Renewable | 59% | 69% | 65% | 62% | 62% | 57% |
| Non-Renewable | 41% | 31% | 35% | 38% | 38% | 43% |
| Renewable non-Hydro | 1% | 2% | 46% | 45% | 44% | 52% |

## 14.6 Transmission Network Expansion

The planned growth in generation and electricity demand will require substantial expansion of the transmission network to evacuate new generation and strengthen system reliability. A total of 16,552.16 km of transmission lines is planned over the planning horizon, comprising 5,360.55 km of 400 kV, 9,531.30 km of 220 kV and 1,583.31 km of 132 kV lines, as shown in the **Table 13**.

The expansion is expected to increase the total transmission network to approximately 24,284.54 km and contribute to a reduction in transmission losses from 5.80% in 2024 to 2.85% by 2048. Effective regulation of investment, network access, service quality and cost recovery will therefore remain important to achieving the planned outcomes.

**Table 13: Electricity Transmission Expansion Plan**

| S/N | Voltage Level | Transmission System Additions (km) | | | |
|---|---|---|---|---|---|
| | | 2024–2028 | 2029–2038 | 2039–2048 | Total |
| 1 | 400kV | 1,922.00 | 2,558.33 | 880.22 | 5,360.55 |
| 2 | 220kV | 2,663.58 | 5,769.72 | 1,098.00 | 9,531.30 |
| 3 | 132kV | 1,299.01 | 175.7 | 108.6 | 1,583.31 |
| | **Total** | **5,884.59** | **8,503.75** | **2,086.82** | **16,552.16** |

## 14.7 Investment Requirements

The scale of the planned generation and transmission expansion will require significant investment. The total investment requirement is projected at approximately USD 39,951.90 million by 2048, including USD 699.23 million expected to be fully financed by the Government, as depicted in **Table 14**. The remaining financing requirement is expected to be supported through a combination of debt and equity financing, based on a projected 70:30 debt-to-equity structure.

Given the magnitude of the financing requirement, strengthening the investment environment, ensuring cost-reflective and predictable regulatory arrangements, facilitating appropriate risk allocation and expanding opportunities for private-sector participation will be critical to mobilising the required capital.

**Table 14: Investment Requirements**

| Description | Investment Requirement (USD) - Million | | | |
|---|---|---|---|---|
| | Short-Term (2024-2028) | Medium-Term (2029-2038) | Long-Term (2039-2048) | Total |
| Generation | 9,302.60 | 11,466.08 | 11,073.70 | 31,842.37 |
| Transmission | 3,632.02 | 3,472.41 | 1,005.10 | 8,109.53 |
| **Total Investments** | **12,934.62** | **14,938.49** | **12,078.80** | **39,951.90** |
| **Investments Based on Debt:Equity** | | | | |
| Govt Fully Financed Investments | 666.11 | 33.12 | 0 | **699.23** |
| Debt (70%) | 8,587.96 | 10,433.76 | 8,455.16 | **27,476.87** |
| Equity (30%) | 3,680.55 | 4,471.61 | 3,623.64 | **11,775.80** |
| **Total** | **12,934.62** | **14,938.49** | **12,078.80** | **39,951.90** |

## 14.8 Energy Efficiency and Demand Side Management

Continued growth in electricity demand will increase the importance of energy efficiency and Demand-Side Management (DSM) as complementary measures to supply-side investment. An enabling regulatory and investment environment will be required to

encourage utilities, businesses and customers to adopt energy-efficient technologies and participate in DSM programmes.

EWURA, in collaboration with the Government and other stakeholders, will continue to support awareness, appropriate regulatory measures and investment mechanisms that promote efficient electricity consumption and reduce avoidable system and customer costs.

## 14.9 Electricity Market Trend

The electricity market is expected to evolve in response to increasing demand and emerging electricity-intensive activities, including LNG development, electromobility, electric railway transport, cross-border electricity trade and the increased use of electricity for clean cooking.

These developments are expected to increase both the volume and diversity of electricity demand and strengthen the need for transparent, efficient and competitive market arrangements. Accordingly, continued development of the regulatory framework will be important to facilitate investment, improve market efficiency, enhance system security and support cross-border electricity trading.

In particular, the Electricity Act provides for the designation and licensing of system and market operators. The system operator is responsible, among other functions, for coordinating the power system, dispatching generation, coordinating outages and monitoring cross-border electricity trade, while the market operator administers the wholesale electricity market.

Overall, the future outlook is therefore characterised by rapid growth in electricity demand, substantial generation and network expansion, increasing renewable energy penetration, greater private-sector participation and emerging electricity markets. The regulatory priority will be to ensure that these developments translate into adequate, reliable, affordable, safe and sustainable electricity supply while maintaining appropriate protection of electricity customers and investors.

# 15. ACHIEVEMENTS, CHALLENGES AND KEY REGULATORY PRIORITIES

The Electricity Supply Industry (ESI) recorded notable progress during FY2025/26 in licensing, investment, electricity access, supply adequacy, network expansion, reliability, and consumer protection. These achievements were supported by regulatory oversight, public and private investment, and continued implementation of Government initiatives. Nevertheless, the subsector continues to face challenges, particularly in mobilising private

investment, accommodating rapidly growing electricity demand, improving generation performance, reducing losses, and further strengthening reliability and customer service.

## 15.1 Achievements

The Electricity Supply Industry (ESI) recorded progress in regulatory licensing, investment facilitation, generation capacity, electricity supply adequacy, network expansion, customer connections and reliability. The following achievements reflect performance during the period under review.

### 15.1.1 Licensing and Regulatory Facilitation

406 licences, issued comprising two electricity generation licences with a combined capacity of 66.70 MW and 404 electrical installation licences. Consequently, the total number of active licences reached 12,187, comprising 68 licences for regulated electricity activities and 12,119 electrical installation licences. These achievements supported generation investment, strengthened regulatory oversight and enhanced the availability of qualified electrical installation service providers.

### 15.1.2 Power Purchase Agreements

A total of 69 Power Purchase Agreements (PPAs) with a combined contracted capacity of 722.72 MW were in force, compared with 67 PPAs covering 698.72 MW in FY2025/26. The increase of two PPAs and 24.00 MW reflects continued progress in facilitating private-sector participation and investment in electricity generation.

### 15.1.3 Procurement of New Electricity Supply Installations

Regulatory oversight of procurement for new electricity supply installations continued during the reporting period, supporting transparent project development and future generation investment. The previously approved procurement portfolio provides a foundation for strengthening long-term generation adequacy and security of supply.

### 15.1.4 Complaints and Dispute Resolution

20 electricity-related complaints and disputes resolved. The resolved cases mainly concerned property damage, electricity connections, compensation, billing and related service matters. Complaint resolution continued to provide consumers with access to redress and strengthen the accountability of electricity service providers.

### 15.1.5 Installed Generation Capacity

Total installed generation capacity, including cross-border imports, increased by 144.15 MW (3.20%), from 4,504.54 MW in FY 2024/25 to 4,648.69 MW in FY 2025/26. The increase strengthened the available capacity to support rising electricity demand.

Total installed generation capacity, including cross-border imports, increased by **40.20 MW (0.86%)**, from 4,648.69 MW in FY2025/26 to **4,688.89 MW** in FY2026/27. The additional capacity strengthened the electricity supply base and supported the industry's ability to meet increasing demand.

### 15.1.6 Electricity Demand and Supply

Gross electricity demand increased by 142.83 MW (5.34%), from 2,672.59 MW to 2,815.42 MW. Main-grid maximum demand increased by 126.13 MW (5.96%), from 2,114.55 MW to 2,240.68 MW, recorded on 30 September 2026. The growth highlights increasing electricity requirements and the importance of continued investment in generation and network infrastructure.

### 15.1.7 Electricity Generation and Cross-Border Imports

Total electricity generation and cross-border imports reached 5,482.86 GWh, comprising contributions from the main grid, off-grid systems, own-use generation and cross-border trade. Cross-border imports contributed 573.34 GWh (10.46%), supporting electricity supply adequacy and regional electricity trading. Hydropower and natural gas remained important components of the generation portfolio.

### 15.1.8 Transmission Infrastructure

The transmission network expanded by 131.16 km (1.54%), from 8,500.38 km in FY2025/26 to 8,631.54 km in FY2026/27. The network comprises transmission lines operating at 400 kV, 220 kV, 132 kV and 66 kV. This expansion enhanced the infrastructure available for electricity transmission, power evacuation and accommodation of growing demand.

### 15.1.9 Transmission Substations

The transmission system comprised 72 substations with a combined installed capacity of 10,225.80 MVA, based on the reported infrastructure inventory. Continued implementation of substation expansion and reinforcement projects is expected to strengthen transmission capacity, accommodate demand growth and improve system reliability.

### 15.1.10 Distribution Network Expansion

The distribution network expanded by 8,401.94 km (3.56%), from 236,045.06 km in FY2025/26 to 244,447.00 km in Q1 FY2026/27. This expansion strengthened electricity distribution infrastructure and supported increased customer connections, electrification and access to electricity services.

### 15.1.11 Infrastructure Development

Public and private investment continued to support electricity infrastructure development. The reported public infrastructure project portfolio included 24 transmission line projects covering 3,451.21 km and 32 substation projects with a combined planned capacity of 11,675 MVA. Private-sector generation projects increased to 69 projects with a combined capacity of 722.72 MW, comprising 24 operational projects (508.10 MW), eight projects under construction (36.23 MW) and 37 projects for which construction had not commenced (178.39 MW). These investments provide a foundation for strengthening generation capacity, network expansion and long-term security of supply.

### 15.1.12 Electrification and Customer Connections

The number of electricity distribution customers increased by 174,072 (2.75%), from 6,323,491 in FY2025/26 to 6,497,563 in FY2026/27. Electricity accessibility and connectivity stood at 85.50% and 52.10%, respectively. The increase in customer connections demonstrates continued progress in extending electricity services to households, businesses and productive users.

### 15.1.13 Reliability of Electricity Supply

Transmission reliability improved during Q1 FY2026/27, with SAIFI-CP declining from 7.4 to 1.1 interruptions against a target of 10.0, while SAIDI-CP decreased from 2.67 to 0.69 hours against a target of 6.50 hours. Both indicators remained within the prescribed regulatory limits. Distribution reliability also recorded satisfactory performance in interruption frequency and duration. TANESCO's SAIFI declined from 12.09 to 4.66 interruptions, against a target of 26.00, while SAIDI decreased from 1,044.77 to 722.08 minutes, against a target of 1,536 minutes. However, CAIDI increased from 86.40 to 154.90 minutes, exceeding the regulatory target of 59 minutes and highlighting the need to strengthen fault response and electricity supply restoration.

### 15.1.14 Generation Adequacy

The generation reserve margin increased from 49.36% in FY2025/26 to 57.99% in FY2026/27, representing an improvement of 8.63 percentage points and remaining substantially above the minimum regulatory target of 15%. This indicates adequate

generation capacity to accommodate prevailing demand and potential system contingencies. However, average plant availability stood at 80.62%, below the regulatory target of 88%, highlighting the importance of improving the operational performance of existing power plants.

### 15.1.15 Clean Cooking

Continued electricity infrastructure expansion and customer connections supported the Government's clean cooking agenda by strengthening the foundation for wider adoption of electric cooking technologies. Electricity accessibility and connectivity stood at 85.50% and 52.10%, respectively, providing opportunities to increase electricity use for cooking. These developments support implementation of the National Clean Cooking Strategy 2024, which targets 80% access to clean cooking solutions by 2034, although further investment, awareness and affordability measures remain necessary.

## 15.2 Challenges

Despite the progress recorded, the Electricity Supply Industry (ESI) continued to face challenges relating to market concentration, increasing electricity demand, generation performance, electricity losses, service restoration, infrastructure financing and generation diversification. These challenges require sustained regulatory oversight, targeted investment and operational improvements.

### 15.2.1 Limited Private-Sector Participation

The electricity market remained highly concentrated, with TANESCO accounting for **83.25% of installed generation capacity**, while private power producers accounted for only **5.41%**. TANESCO also controlled 100% of transmission infrastructure, approximately 99.5% of distribution infrastructure and 99.6% of distribution customers. This concentration highlights the need to strengthen competitive procurement, improve investment certainty and expand private-sector participation in electricity generation and supporting infrastructure.

### 15.2.2 Rapid Growth in Electricity Demand

Gross electricity demand increased by **142.83 MW (5.34%)**, from 2,672.59 MW in FY2025/26 to 2,815.42 MW in FY2026/27, while main-grid maximum demand increased by **5.96%**, reaching 2,240.68 MW. Continued growth in industrialisation, electrification, clean cooking, electromobility, railway transport and other electricity-intensive activities will require timely investment in generation and network infrastructure to maintain adequate and reliable electricity supply.

### 15.2.3 Generation Availability and Utilisation

Average power plant availability improved to **80.62%**, from 76.88% in FY2025/26, but remained below the regulatory target of **88%**. Average plant utilisation increased from 43.78% to **47.49%**, indicating improved utilisation of generation assets. Nevertheless, further improvement in maintenance, operational efficiency, resource availability and generation dispatch remains necessary to maximise the performance of existing power plants.

### 15.2.4 15.2.4 Electricity Losses

Combined transmission and distribution losses increased from 14.28% to 14.36%, although remaining below the regulatory target of 14.88%. Transmission losses decreased from 5.88% to 5.73%, while distribution losses increased from 8.40% to 8.63%. The upward trend in overall losses highlights the need for continued network reinforcement, improved metering, loss-reduction programmes and strengthened operational efficiency.

### 15.2.5 15.2.5 Reliability and Customer Service

Although distribution reliability improved, with TANESCO's SAIFI decreasing to 4.66 interruptions against a target of 26.00 and SAIDI declining to 722.08 minutes against a target of 1,536 minutes, the Customer Average Interruption Duration Index (CAIDI) increased from 86.40 to 154.90 minutes, exceeding the regulatory target of 59 minutes. This indicates continued challenges in restoring electricity supply to affected customers and highlights the need to strengthen fault response, preventive maintenance, network automation and outage management.

### 15.2.6 Financing Requirements for Infrastructure Expansion

The continued expansion of electricity generation, transmission and distribution infrastructure requires substantial capital investment. The projected investment requirement of approximately USD 39.95 billion by 2050 presents a significant financing challenge. Mobilising private investment, development finance and other sustainable financing mechanisms will therefore remain essential to support planned infrastructure development and meet increasing electricity demand.

### 15.2.7 Generation and Network Diversification

The electricity supply portfolio remained concentrated in hydropower and natural gas, which together accounted for approximately 75.85% of electricity generation and cross-border imports during FY2026/27. This concentration exposes the industry to hydrological, fuel supply and operational risks. Continued diversification through solar, wind, geothermal, biomass and other suitable generation technologies, alongside transmission

network reinforcement and regional interconnections, will be important for improving system resilience and long-term electricity security.

## 15.3 Key Regulatory Priorities

Based on the performance recorded and the prevailing challenges, regulatory enforcement will continue to prioritise measures aimed at strengthening investment, operational efficiency, electricity supply reliability, market competition and consumer protection. Overall, regulatory priorities will focus on promoting adequate, reliable, affordable, efficient, competitive, safe, and sustainable electricity supply, supported by increased investment, improved operational performance, infrastructure development, and effective consumer protection, in accordance with the Electricity Act, Cap. 131, R.E. 2023.The following key regulatory priorities have been identified:

### 15.3.1 Private-Sector Investment and Competition

Strengthening the investment environment, competitive procurement arrangements, and regulatory frameworks to increase private-sector participation in electricity generation and infrastructure development. This remains important in view of the continued dominance of the public utility across key segments of the electricity supply industry.

### 15.3.2 Generation Adequacy and Performance

Facilitating timely investment in new generation capacity while improving the availability, utilisation, and operational efficiency of existing power plants. Although generation adequacy remained above the minimum requirement, plant availability continued to perform below the regulatory target, requiring further improvement in maintenance and operational performance.

### 15.3.3 Transmission and Distribution Infrastructure

Strengthening investment and regulatory oversight of transmission and distribution infrastructure to accommodate growing electricity demand, facilitate power evacuation, improve network resilience, and expand electricity access. Particular attention will be given to the timely implementation of planned infrastructure projects in response to continued growth in electricity demand.

### 15.3.4 Efficiency and Loss Reduction

Strengthening regulatory monitoring and implementation of measures to reduce technical and non-technical electricity losses and improve operational efficiency. Although combined losses remained within the regulatory target, the upward trend requires continued attention

through network reinforcement, metering improvement, maintenance, and loss-reduction initiatives.

### 15.3.5 Reliability and Customer Service

Strengthening compliance with electricity supply reliability and customer service standards, particularly through improved fault response, preventive maintenance, network automation, and timely restoration of electricity supply. While key reliability indicators remained within their regulatory targets, continued improvement is required in reducing outage restoration time.

### 15.3.6 Consumer Protection and Emerging Energy Technologies

Strengthening compliance monitoring, Performance Agreement implementation, customer service standards, and complaint-resolution mechanisms, while facilitating appropriate regulatory frameworks for renewable energy, net metering, electromobility, electric cooking, energy efficiency, and other emerging electricity technologies. These measures will support innovation, sustainable electricity use, and investment while safeguarding consumer interests, affordability, and system reliability.

## 16. CONCLUSION

The assessment demonstrates continued progress in Tanzania Mainland's Electricity Supply Industry, particularly in generation capacity, infrastructure expansion, electricity access, supply adequacy and service reliability. Installed generation capacity increased to 4,688.89 MW, while gross electricity demand reached 2,815.42 MW. The reserve margin improved to 57.99%, indicating adequate generation capacity to meet prevailing demand and system contingencies. Transmission and distribution networks expanded to 8,631.54 km and 244,447.00 km, respectively, while electricity customers increased to 6,497,563. These developments reflect continued investment and improvements in electricity infrastructure and service delivery.

Regulatory performance remained generally satisfactory, with transmission reliability indicators and distribution interruption frequency and duration remaining within their prescribed targets. However, several challenges require continued attention, particularly generation availability below the regulatory target, increasing electricity losses, prolonged customer supply restoration, limited private-sector participation and substantial infrastructure financing requirements. These challenges highlight the need to strengthen operational efficiency, service quality, investment facilitation and compliance with regulatory requirements.

Going forward, regulatory priorities will focus on facilitating timely investment in generation and network infrastructure, improving generation availability and utilisation, reducing electricity losses, strengthening supply reliability and customer service, and promoting competition and private-sector participation. Particular attention will also be given to generation diversification, energy efficiency and appropriate regulatory frameworks for emerging technologies, including net metering, electromobility and electric cooking, while safeguarding electricity affordability and consumer interests.

Overall, EWURA will continue strengthening its regulatory oversight, in collaboration with the Ministry of Energy, TANESCO, REA, private investors and other stakeholders, to ensure that the continued expansion of the Electricity Supply Industry translates into improved operational performance, investment efficiency, service quality and consumer welfare. Effective implementation of the Electricity Act, Cap. 131, R.E. 2023, and applicable regulatory instruments will remain essential to achieving an adequate, reliable, affordable, efficient, competitive, safe and sustainable electricity supply industry capable of supporting Tanzania's long-term socioeconomic development.

## Annex 1: Roles of Respective Institutions in the Electricity Supply Industry

The Electricity supply industry consists of various institutions. The institutions and their respective roles are provided hereunder.

### A. The Ministry of Energy

| S/N | Description in line with the Electricity Act, Cap. 131 R.E 2023 | Sections |
|---|---|---|
| 1) | Develop and review Government policies in the electricity supply industry | 4(10)(a) |
| 2) | Prepare, publish, and revise policies, plans, and strategies for the development of the electricity supply industry | 4(10)(b) |
| 3) | Take all measures necessary to reorganize and restructure the electricity supply industry to attract private sector and other participation, in such parts of the industry, phases, or timeframes as he deems proper | 4(10)(c) |
| 4) | through the Rural Energy Agency, prepare, revise, and publish the Rural Electrification Plan and Strategy | 4(10)(d) |
| 5) | promote the development of the electricity sub-sector, including the development of Indigenous energy resources | 4(10)(e) |
| 6) | take measures to support and promote rural electrification per the Rural Energy Act, including the provision of funding for the Rural Energy Fund; | 4(10)(f) |
| 7) | formulate a policy by which electricity may be imported or exported | 4(10)(g) |
| 8) | cause to conduct inquiries into accidents or disasters caused by electricity | 4(10)(i) |
| | | |

### B. The Energy and Water Utilities Regulatory Authority

| S/N | Description in line with the Electricity Act, Cap. 131 R.E 2023 | Sections |
|---|---|---|
| 1) | award licenses to entities undertaking or seeking to undertake a licensed activity | 5(a) |
| 2) | approve and enforce tariffs and fees charged by licensees | 5(b) |
| 3) | approve licensees' terms and conditions of electricity supply | 5(c) |
| 4) | approve the initiation of the procurement of new electricity supply installations | 5(d) |
| 5) | protect customers' interests through the promotion of competition | 6(1)(a) |
| 6) | promote access to, and affordability of, electricity services, particularly in rural areas | 6(1)(b) |
| 7) | promote the least-cost investment and the security of supply for the benefit of customers | 6(1)(c) |
| 8) | promote improvements in the operational and economic efficiency of the electricity supply industry and efficiency in the use of electricity | 6(1)(d) |
| 9) | promote appropriate standards of quality, reliability, and affordability of electricity supply | 6(1)(e) |
| 10) | Take into account the effect of the activities of the electricity supply industry on the environment | 6(1)(f) |
| 11) | protect the public from dangers arising from the activities of the electricity supply industry | 6(1)(g) |
| 12) | promote the health and safety of persons in the working environment employed in the electricity supply industry | 6(1)(h) |
| 13) | monitor and measure a licensee's performance and compliance with the Electricity Act, Cap. 131 | 30(1) |
| 14) | Approve the power purchase agreement | 25(3) |
| 15) | Concluding a performance agreement with Licensees | 14(5)(d) |
| | | |

### C. Rural Energy Agency

| S/N | Description in line with the Electricity Act, Cap. 131 R.E 2023 | Sections |
|---|---|---|
| 1) | Rural Electrification | 4(1)(d) |
| | | |

## D. Tanzania Electricity Supply Company Limited

| S/N | Description in line with the Electricity Act, Cap. 131 R.E 2023 | Sections |
|---|---|---|
| 2) | Electricity Generation | 8(1)(a) |
| 3) | Electricity Transmission | 8(1)(b) |
| 4) | Electricity Distribution | 8(1)(c) |
| 5) | Electricity Supply | 8(1)(d) |
| 6) | System Operations | 8(1)(e) |
| 7) | Cross-Border Trade in Electricity | 8(1)(e) |
| | | |

## E. Private Regulated Entities

| S/N | Description in line with the Electricity Act, Cap. 131 R.E 2023 | Sections |
|---|---|---|
| 1) | Electricity Generation | 8(1)(a) |
| 2) | Electricity Distribution | 8(1)(c) |
| 3) | Electricity Supply | 8(1)(d) |
| | | |

## Annex 2: Regulatory Tools and Standards

The regulatory tools consist of plans, strategies, acts, regulations, rules, and standards. The same are described under the respective sub-sections.

### A. Policies, Plans, and Strategies

| S/N | Description |
|---|---|
| 1) | The National Energy Policy, 2015 |
| 2) | National Five-Year Development Plan 2021/22 - 2025/26 |
| 3) | Electricity Supply Industry Reform Strategy and Roadmap |
| 4) | The Power System Master Plan 2024 |
| 5) | National Clean Cooking Strategy (2024-2034) |

### B. Acts

| S/N | Description |
|---|---|
| 1) | The Electricity Act, Cap 131 R.E 2023 |
| 2) | The Energy and Water Utilities Regulatory Authority Act, Cap. 414 |
| 3) | The Tanzania Extractive Industries (Transparency and Accountability) Act, 2015 |

### C. Regulations

| S/N | Description |
|---|---|
| 1) | The Electricity (General) Regulations, 2020 |
| 2) | The Electricity (Market Re-Organization and Promotion of Competition) Regulations, 2016 |
| 3) | The EWURA (Compounding of Offences) Regulations, 2020 |

### D. Rules

| S/N | Description |
|---|---|
| 1) | The Electricity (Generation, Transmission and Distribution Activities) Rules, 2024 |
| 2) | The Electricity (Electrical Installations Services) Rules, 2022 |
| 3) | The Electricity (Licensing and Registration Fees) Rules, 2022 |
| 4) | The Electricity and Natural Gas (Tariff Application and Rate Setting) Rules, 2021 |
| 5) | The EWURA Consumer Complaints Settlement Rules, 2020 |
| 6) | The Electricity (Development of Small Power Projects) Rules, 2020 |
| 7) | The Electricity (Procurement of Power Projects and Approval of Power Purchase Agreement) Rules 2019 |
| 8) | The Electricity (Supply Services) Rules 2019 and its amendments of 2023 |
| 9) | The Electricity (Grid and Distribution Codes) Rules 2017 |
| 10) | The Electricity (Grid and Distribution Codes) Rules 2017 |
| 11) | The Electricity System Operations Services Rules 2016 |
| 12) | Electricity Market Operations Services Rules 2016 |

### E. Standards

| S/N | Description |
|---|---|
| 1) | TZS 1373:2011 – Power Quality - Quality of supply |
| 2) | TZS 1374:2011 – Power Quality - Quality of service and reliability. |

## Annex 3: Licenses

### (a). Electricity Generation License for Sale

| S/N | Name of Licensee | Capacity for Sale (MW) |
|---|---|---|
| 1 | TANESCO | 3,885.2 |
| 2 | SONGAS | 189.0 |
| 3 | Tanganyika Plantation Co. Ltd. | 9.0 |
| 4 | Tanganyika Wattle Co. Ltd | 1.5 |
| 5 | Mwenga Hydro Ltd (Hydro) | 4.0 |
| 6 | Tulila Hydro Electric Plant Co. Ltd | 5.0 |
| 7 | Andoya Hydro Electric Power Co. Ltd | 1.0 |
| 8 | Ngombeni Power Ltd. | 1.4 |
| 9 | Luponde Hydro Limited (1.06MW) | 1.1 |
| 10 | Luponde Hydro Limited (2MW) | 2.0 |
| 11 | Madope Hydro Company Limited | 1.8 |
| 12 | Mwenga Hydro Ltd (Wind) | 3.9 |
| 13 | Nextgen Solawazi Limited | 5.0 |
| 14 | Mkulazi Holding Co. Ltd. | 7.0 |
| 15 | BXC Tanzania Ltd (Ushetu) | 22.0 |
| 16 | BXC Tanzania Ltd (Bukombe) | 5.0 |
| 17 | Bagamoyo Sugar Limited | 1.5 |
| 18 | Suma Hydro Limited | 4.5 |
| | **TOTAL** | **4,149.95** |

### (b). Electricity Generation Licence for Own Use

| S/N | Name of Licensee | Capacity for Sale (MW) |
|---|---|---|
| 1 | Tanganyika Plantation Co. Ltd. | 33.5 |
| 2 | Tanganyika Wattle Co. Ltd | 0.5 |
| 3 | Mkulazi Holding Co. Ltd. | 8.0 |
| 4 | Lake Cement Ltd. | 15.4 |
| 5 | Tanga Cement Public Limited Company | 11.5 |
| 6 | Kilombero Sugar Company Limited | 51.8 |
| 7 | Shanta Mine Co. Ltd | 8.2 |
| 8 | Kilombero Plantations Limited | 1.7 |
| 9 | Stamigold Company Limited | 7.0 |
| 10 | ALAF Limited | 4.0 |
| 11 | North Mara Goldmine Ltd | 18.0 |
| 12 | Bulyanhulu Goldmine Ltd | 40.0 |
| 13 | Dangote Cement Limited | 50.0 |
| 14 | Bagamoyo Sugar Limited | 3.5 |
| 15 | Kagera Sugar Ltd. | 27.2 |
| 16 | Tanzania Cigarette Public Ltd. Co. | 4.7 |
| 17 | Mufindi Paper Mills Ltd | 10.4 |
| 18 | Mtibwa Sugar Estates Ltd | 15.0 |
| 19 | Kioo Ltd | 12.2 |
| 20 | Gas Co. (T) Ltd (Lindi) | 10.7 |
| 21 | Gas Co. (T) Ltd (Mtwara) | 3.2 |
| 22 | Nyati Mineral Sands Ltd. | 2.0 |
| 23 | SBC Tanzania Ltd. | 4.5 |
| 24 | Tanzania Petroleum Development Corporation | 1.2 |
| 25 | Geita Gold Mining Ltd. | 47.0 |
| 26 | Goodwill Tanzania Ceramic Co. Ltd | 16.7 |
| 27 | Maweni Limestone Ltd. | 30.0 |
| 28 | Buckreef Gold Co. Ltd | 4.7 |
| 29 | Kiliflora | 0.2 |
| 30 | Tembo | 0.3 |
| 31 | Tanzania Portland Cement PLC | 18.6 |

| | | |
|---|---|---|
| 32 | Nasra | 0.8 |
| | **TOTAL** | **462.53** |

### (c). Electricity Transmission Licence

| S/N | Name of Licensee | Project Area | Duration (Years) | License Number | Date of Issue | Date of Expiry |
|---|---|---|---|---|---|---|
| 1 | TANESCO | Mainland Tanzania | 20 | ETL-2021-001 | 1-Mar-2013 | 28-Feb-2033 |
| | | | | | | |

### (d). Electricity Cross-Border Trade Licence

| S/N | Name of Licensee | Project Area | Duration (Years) | License Number | Date of Issue | Date of Expiry |
|---|---|---|---|---|---|---|
| 1 | TANESCO | Mainland Tanzania | 20 | ECBTL-2021-001 | 1-Mar-2013 | 28-Feb-1933 |

### (e). Electricity System Operation Licence

| S/N | Name of Licensee | Project Area | Duration (Years) | License Number | Date of Issue | Date of Expiry |
|---|---|---|---|---|---|---|
| 1 | TANESCO | Mainland Tanzania | 20 | SOL – 2025 – 001 | 26-Sep-2025 | 25-Sep-1945 |
| | | | | | | |

### (f). Electricity Distribution Licences

| S/N | Name of Licensee | Project Area | Duration (Years) | License Number | Date of Issue | Date of Expiry |
|---|---|---|---|---|---|---|
| 1 | TANESCO | Mainland Tanzania | 20 | ESL-2013-001 | 1-Mar-2013 | 28-Feb-2033 |
| 2 | Mwenga Power Services Ltd. | Mufindi & Njombe | 15 | EDL-2013-005 | 30-Apr-2013 | 29-Apr-2028 |
| | **Total** | | | | | |

### (g). Electricity Supply Licence

| S/N | Name of Licensee | Project Area | Duration (Years) | License Number | Date of Issue | Date of Expiry |
|---|---|---|---|---|---|---|
| 1 | TANESCO | Mainland Tanzania | 20 | ESL-2021-001 | 1-Mar-2013 | 28-Feb-1933 |
| | | | | | | |

### (h). Provisional Electricity Generation Licenses

| S/N | Licensee Name | Installed Capacity (MW) | Source | Usage |
|---|---|---|---|---|
| 1 | Lilondi Hydropower Ltd | 4.5 | Hydro | Sale |
| 2 | Armstone Hydro Ltd (Uvinza) | 5.34 | Hydro | Sale |
| 3 | Armstone Hydro Ltd (Kakonko) | 3 | Hydro | Sale |
| 4 | Puissance Associates Ltd | 5 | Solar | Sale |
| 5 | Tanzania Tooku Garments Co. Ltd. | 3 | Solar | Own-Use |
| 6 | Convivium Renewable Limited | 10 | Solar | Sale |
| 7 | Wagonanze Investment Ltd | 5 | Hydro | Sale |
| 8 | Tangulf Nakatuta Energy Co. Ltd | 10 | Hydro | Sale |
| 9 | Lung'ali Natural Resources Co. Ltd | 1.2 | Hydro | Sale |
| 10 | Mwenga Hydro Ltd | 2.5 | Solar | Own-Use |
| 11 | A TO Z Textile Mills Ltd | 2.5 | Wind | Sale |
| 12 | Mwenga Hydro Ltd | 1.6 | Solar | Sale |
| 13 | SSI Energy Tanzania Ltd | 10 | Solar | Sale |
| 14 | Quality Packaging Tanzania Ltd | 8 | Solar | Sale |
| 15 | Royal Soap and Detergent Industries Ltd | 2.45 | Gas | Own-Use |

| | | | | | |
|---|---|---|---|---|---|
| | **16** | **Grand Total** | **74.09** | | |
| | 17 | Solar | 40.1 | | |
| | 18 | Hydro | 29.04 | | |
| | 19 | Wind | 2.5 | | |
| | 20 | Gas | 2.45 | | |
| | 21 | Total by Technology | 74.09 | | |
| | 22 | Sale | 66.14 | | |
| | 23 | Own Use | 7.95 | | |
| | | **Total by Usage** | **74.09** | | |

## Annex 4: Initiation of the Procurement of New Electricity Supply Installations

…

| S/N | Project Name | Developer | Off-Taker | Capacity (Mw)) | Energy Source | Location | Status |
|---|---|---|---|---|---|---|---|
| 1. | Kisima Solar Project | Total Eren | TANESCO | 100 | Solar | Kisima, Dodoma Region | Financing Mobilisation |
| 2. | Makambako Wind Project | Sinotan Renewable Energy Ltd | TANESCO | 100 | Wind | Makambako, Njombe | Financing Mobilisation |
| 3. | Singida Wind Project | Upepo Energy Partners & Akuo Energy Afrique SAS | TANESCO | 200 | Wind | Singida Region | Financing Mobilisation |
| 4. | Masigira Hydropower Project | Tanzania Masigira Power Ltd | TANESCO | 72 | Hydro | Masigira, Songea region | Financing Mobilisation |
| 5. | Kikagati-Murongo hydropower project. | Kikagati Power co.ltd (KPCL) | TANESCO | 14 | Hydro | Murongo in Tanzania & Kikagati in Uganda | Commissioned and operating |
| 6. | Kinyerezi III Gas-Fired Power Project.. | Shangtan Power Ltd | TANESCO | 300 | Natural Gas | Kinyerezi, Dar es Salaam region | Financing Mobilisation |
| 7. | Somanga Fungu Combine Cycle Gas Power Project. | Yet to be procured | TANESCO | 350 | Natural Gas | Somanga, Coast Region | Financing Mobilisation |
| 8. | Raddy Fibre | Raddy Fibre Manufacturing Tanzania Ltd | TANESCO | 177 | Natural Gas | Mkuranga, Coast Region | Financing Mobilisation |
| | **Total** | | | **1,313** | | | |

## Annex 5: Total Registered Entities Selling Electricity

...

| No. | Project Area Mini Grid | Generation Capacity (KW) | Registration No. | Duration (Years) | Date of Issue | Date of Expiry | Customer served | Line Length (km) | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 0.23/0.4kV | 11/33kV |
| **A.** | **Darakuta Hydropower Development Co. Limited (Generating using Hydro, located in the Main Grid and sells to TANESCO)** | | | | | | | | |
| 1. | Magugu – Babati District, Manyara Region | 450 | NA | 10 | 03-Jul-13 | 02-Jul-23 | 1 | 0 | 0 |
| | **Sub-Total** | **450** | | | | | **1** | **0** | **0** |
| **B.** | **Yovi Hydropower Company Limited (Generating using Hydro, located in the Main Grid and sells to TANESCO)** | | | | | | | | |
| 1. | Msolwa - Kilosa District, Morogoro Region | 995 | CRG - 2019 - 009 | 10 | 16-Apr-19 | 15-Apr-29 | 1 | 0 | 0 |
| | **Sub-Total** | **995** | | | | | **1** | **0** | **0** |
| **C.** | **PowerCorner Tanzania Limited (generating and distributing using solar, located in off-grid and sells to customers)** | | | | | | | | |
| 1 | Orkejuloongishu Village, Ketumbeine Ward, Longido District, | 15.6 | CRG-2016-001 & CRD-2016-001 | 10 | 6 October 2016 | 5 October 2026 | 81 | 2 | 0 |
| 2 | Mbaya Village, Liwale District, Lindi Region | 30 | CRG-2018-005 & CRD-2018-005 | 10 | 31 October 2018 | 30 October 2028 | 270 | 13.3 | 0 |
| 3 | Nakopi Village, Nanyumbu District, Lindi Region | 30 | CRG-2018-006 & CRD-2018-006 | 10 | 31 October 2018 | 30 October 2028 | 250 | 9.8 | 0 |
| 4 | Barikiwa Village, Liwale District, Lindi Region | 30 | CRG-2018-007 & CRD-2018-007 | 10 | 31 October 2018 | 30 October 2028 | 272 | 16.5 | 0 |
| 5 | Mwenge Village, Sikonge District, Tabora Region | 28 | CRG-2019-014 & CRD-2019-014 | 10 | 1 July 2019 | 30 June 2029 | 362 | 16.9 | 0 |
| 6 | Mgambo Village, Sikonge District, Tabora Region | 20 | CRG-2019-015 & CRD-2019-015 | 10 | 1 July 2019 | 30 June 2029 | 222 | 9.7 | 0 |
| 7 | Kiegei Village, Nachingwea District, Lindi Region | 16 | CRG-2019-016 & CRD-2019-016 | 10 | 18 December 2019 | 17 December 2029 | 256 | 12.8 | 0 |
| 8 | Matekwe Village, Nachingwea District, Lindi Region | 12 | CRG-2019-017 & CRD-2019-017 | 10 | 18 December 2019 | 17 December 2029 | 161 | 9.8 | 0 |
| 9 | Lukumbule Village, Nachingwea District, Lindi Region | 40.5 | CRG-2019-018 & CRD-2019-018 | 10 | 18 December 2019 | 17 December 2029 | 257 | 16.3 | 0 |
| 10 | Kagerankanda Village, Kasulu District, Kigoma Region | 44 | CRG-2019-019 & CRD-2019-019 | 10 | 18 December 2019 | 17 December 2029 | 442 | 17.6 | 0 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 11 | Kalya Village, Uvinza District, Kagoma Region | 28 | CRG-2019-020 & CRD-2019-020 | 10 | 18 December 2019 | 17 December 2029 | 314 | 19.7 | 0 |
| 12 | Hololа Village, Nanyumbu District, Mtwara | 16 | CRG-2019-021 & CRD-2019-021 | 10 | 27 December 2019 | 26 December 2029 | 126 | 7.6 | 0 |
| | **Sub-Total** | **310.1** | | | | | **3013** | **152.00** | **0** |
| **D.** | **Watu na Umeme Limited (generating and distributing using solar, located in the off-grid area and sale to customers)** | | | | | | | | |
| 1 | Mpale, Korogwe District, Tanga Region | 48 | CRG-2018-001& CRD-2018-001 | 10 | 23 April 2018 | 22 April 2028 | 256 | 7.75 | 0 |
| | **Sub-Total** | **48** | | | | | **256** | **7.75** | **0** |
| **G.** | **Power Gen Renewable Energy Limited (generating and distributing using solar, located in the off-grid area and sales to customers)** | | | | | | | | |
| 1 | London Village, Manyoni District, Singida Region. | 16 | CRG-2018-003 & CRD-2018-003 | 10 | 20 August 2018 | 19 August 2028 | 210 | 13 | 0 |
| 2 | Ighombwe Village, Ikungi District, Singida Region. | 3 | CRG-2018-004 & CRD-2018-004 | 10 | 20 August 2018 | 19 August 2028 | 50 | 7.1 | 0 |
| 3 | Bugalama Village, Ngara District, Kagera Region. | 3.18 | CRG-2019-001 & CRD-2019-001 | 10 | 11 January 2019 | 10 January 2029 | 52 | 2.4 | 0 |
| 4 | Murusagamba Village, Ngara District, Kagera Region. | 17.16 | CRG-2019-002 & CRD-2019-002 | 10 | 11 January 2019 | 10 January 2029 | 177 | 8.8 | 0 |
| 5 | Kalenge Village, Biharamulo District, Kagera Region. | 16.18 | CRG-2019-003 & CRD-2019-003 | 10 | 11 January 2019 | 10 January 2029 | 178 | 11.4 | 0 |
| 6 | Nyantakara Village, Biharamulo District, Kagera Region. | 17.18 | CRG-2019-004 & CRD-2019-004 | 10 | 11 January 2019 | 10 January 2029 | 95 | 7 | 0 |
| 7 | Mavota Village, Biharamulo District, Kagera Region. | 17.18 | CRG-2019-005 & CRD-2019-005 | 10 | 11 January 2019 | 10 January 2029 | 134 | 8.1 | 0 |
| 8 | Nemba Village, Biharamulo District, Kagera Region. | 23.52 | CRG-2019-006 & CRD-2019-006 | 10 | 11 January 2019 | 10 January 2029 | 182 | 0 | 0 |
| 9 | Leshata Village, Gairo District, Morogoro Region. | 15.36 | CRG-2019-007 & CRD-2019-007 | 10 | 28 March 2019 | 27 March 2029 | 145 | 7.5 | 0 |
| 10 | Kitaita & Songambele Village, Gairo District, Morogoro Region. | 15.36 | CRG-2019-008 & CRD-2019-008 | 10 | 28 March 2019 | 27 March 2029 | 103 | 3.9 | 0 |
| 11 | Itabagumba Village, Ziragula Island, Buchosa District, Mwanza Region | 30.32 | CRG-2019-010 & CRD-2019-010 | 10 | 1 July 2019 | 30 June 2029 | 218 | 9.3 | 0 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 12 | Busenge Village, Yozu Island, Buchosa District, Mwanza Region | 28.68 | CRG-2019-011 & CRD-2019-011 | 10 | 1 July 2019 | 30 June 2029 | 181 | 10.1 | 0 |
| 13 | Kanyara Village, Kasalazi island, Buchosa District, Mwanza Region | 30.32 | CRG-2019-012 & CRD-2019-012 | 10 | 1 July 2019 | 30 June 2029 | 251 | 12.2 | 0 |
| 14 | Iglansoni Village, Ikungi District, Mwanza Region | 23.96 | CRG-2019-013 & CRD-2019-013 | 10 | 1 July 2019 | 30 June 2029 | 201 | 12.1 | 0 |
| 15 | Lyegoba Island, Ukerewe District, Mwanza Region | 30.32 | CRG-2020-013 & CRD-2020-013 | 10 | 7 December 2020 | 6 December 1930 | 180 | 2.91 | 0 |
| 16 | Bezi Island, Ilemela District, Mwanza Region | 42.6 | CRG-2020-014 & CRD-2020-014 | 10 | 7 December 2020 | 6 December 1930 | 340 | 3.59 | 0 |
| 17 | Juma Island, Sengerema District, Mwanza Region | 42.6 | CRG-2020-015 & CRD-2020-015 | 10 | 7 December 2020 | 6 December 1930 | 180 | 7.64 | 0 |
| 18 | Chembaya Island, Buchosa District, Mwanza Region | 29.8 | CRG-2020-016 & CRD-2020-016 | 10 | 7 December 2020 | 6 December 1930 | 155 | 2.55 | 0 |
| 19 | Sozia Island, Bunda District, Mara Region | 29.8 | CRG-2020-017 & CRD-2020-017 | 10 | 7 December 2020 | 6 December 1930 | 130 | 15.1 | 0 |
| 20 | Raranya Village, Rorya District, Mara region | 6.36 | CRG-2020-018 & CRD-2020-018 | 10 | 7 December 2020 | 6 December 1930 | 65 | 5.5 | 0 |
| | **Sub-Total** | **438.88** | | | | | **3227** | **150.19** | **0** |
| **H.** | **Jumeme Rural Power Supply Ltd (generating and distributing using solar, located in the off-grid area and sale to customers)** | | | | | | | | |
| 1 | Bwisya - Ukara Island | 90 | | 10 | 8 April 2016 | 7 April 2026 | 682 | 16.096 | 5.798 |
| 2 | Kibumba village, Muleba District | 10 | CRG-2020-001 & CRD-2020-001 | 10 | 14 May 2020 | 13 May 2030 | 70 | 1.572 | 0 |
| 3 | Kasenyi village, Muleba District | 20 | CRG-2020-002 & CRD-2020-002 | 10 | 14 May 2020 | 13 May 2030 | 334 | 3.022 | 0 |
| 4 | Nabweko village, Ukerewe District | 100 | CRG-2020-003 & CRD-2020-003 | 10 | 14 May 2020 | 13 May 2030 | 557 | 25.388 | 3.276 |
| 5 | Kerebe village, Muleba District | 35 | CRG-2020-004 & CRD-2020-004 | 10 | 14 May 2020 | 13 May 2030 | 279 | 2.503 | 0 |
| 6 | Goziba village, Muleba District | 45 | CRG-2020-005 & CRD-2020-005 | 10 | 14 May 2020 | 13 May 2030 | 379 | 3.635 | 0 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 7 | Lukuba village, Musoma District | 10 | CRG-2020-006 & CRD-2020-006 | 10 | 14 May 2020 | 13 May 2030 | 155 | 4.732 | 0 |
| 8 | Kanoni village, Buchosa District | 100 | CRG-2020-007 & CRD-2020-007 | 10 | 14 May 2020 | 13 May 2030 | 666 | 18.457 | 7.05 |
| 9 | Bunyozi village, Muleba District | 45 | CRG-2020-008 & CRD-2020-008 | 10 | 14 May 2020 | 13 May 2030 | 417 | 7.004 | 0 |
| 10 | Mahaiga village, Muleba District | 20 | CRG-2020-009 & CRD-2020-009 | 10 | 14 May 2020 | 13 May 2030 | 210 | 1.418 | 0 |
| 11 | Bukiko village, Ukerewe District | 100 | CRG-2020-010 & CRD-2020-010 | 10 | 14 May 2020 | 13 May 2030 | 708 | 20.836 | 7.61 |
| 12 | Chifule village, Ukerewe District | 100 | CRG-2020-011 & CRD-2020-011 | 10 | 14 May 2020 | 13 May 2030 | 544 | 18.538 | 5.49 |
| 13 | Herembe village, Uvinza District | 56 | CRG-2021-001 & CRD-2021-001 | 10 | 1 June 2021 | 31 May 2031 | 323 | 8.56 | 0.87 |
| 14 | Igalula village, Uvinza District | 56 | CRG-2021-002 & CRD-2021-002 | 10 | 1 June 2021 | 31 May 2031 | 712 | 10.18 | 2.17 |
| 15 | Kashagulu village, Uvinza District | 102 | CRG-2021-003 & CRD-2021-003 | 10 | 1 June 2021 | 31 May 2031 | 831 | 9.3 | 0 |
| 16 | Katumbi village, Uvinza District | 20 | CRG-2021-004 & CRD-2021-004 | 10 | 1 June 2021 | 31 May 2031 | 367 | 4.06 | 0 |
| 17 | Lubengela village, Uvinza District | 20 | CRG-2021-005 & CRD-2021-005 | 10 | 1 June 2021 | 31 May 2031 | 337 | 3.73 | 0 |
| 18 | Mgambo village, Uvinza District | 72 | CRG-2021-006 & CRD-2021-006 | 10 | 1 June 2021 | 31 May 2031 | 513 | 8.27 | 1.67 |
| 19 | Nkona village, Uvinza District | 36 | CRG-2021-007 & CRD-2021-007 | 10 | 1 June 2021 | 31 May 2031 | 280 | 5.45 | 0 |
| 20 | Rukoma village, Uvinza District | 46 | CRG-2021-008 & CRD-2021-008 | 10 | 1 June 2021 | 31 May 2031 | 641 | 13.14 | 0 |
| 21 | Sibwesa village, Uvinza District | 92 | CRG-2021-009 & CRD-2021-009 | 10 | 1 June 2021 | 31 May 2031 | 682 | 8.71 | 0 |
| 22 | Sigunga village, Uvinza District | 56 | CRG-2021-010 & CRD-2021-010 | 10 | 1 June 2021 | 31 May 2031 | 773 | 13.83 | 4.75 |
| | **Sub-Total** | **1231** | | | | | **10460** | **208.431** | **38.684** |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | **Total** | **3472.98** | | | | | **16958** | **518.371** | **38.684** |

| GENERAL SUMMARY FOR ALL COMPANIES | | | | | | |
|---|---|---|---|---|---|---|
| **A** | **Generation Capacity (kW)** | **2020/21** | **2021/22** | **2022/23** | **%±** | **Description** |
| 1 | Total VSPP (kW)_Hydro + Solar | 3,620.51 | 3,620.51 | 3472.98 | 23% | All registered entities |
| 2 | Total_VSPP_solar_Main Grid | 0 | 0 | 0 | 0% | No registered entity in this category |
| 3 | Total_VSPP_Solar_Off Grid | 2,175.50 | 2,175.50 | 2027.98 | 33% | PowerCorner (310.10kW) + Watu na Umeme (48.00kW) + Powergen (438.88kW) + Jumeme (1,231.00kW). |
| 4 | Total_VSPP_Hydro_Main Grid | 1,315.00 | 1,315.00 | 1445 | 0% | Darakuta (450kW) +Yovi (995kW) |
| 5 | Total_VSPP_Hydro_Off Grid | 0 | 0 | 0 | 0% | No registered entity in this category |
| 6 | Total_VSPP_Main-Grid (2+4) | 1,315.00 | 1,315.00 | 1445 | 0% | Darakuta (450kW) +Yovi (995kW) |
| 7 | Total_VSPP_Off-Grid (3+5) | 2,175.50 | 2,175.50 | 2027.98 | 33% | PowerCorner (310.10kW) + Watu na Umeme (48.00kW) + Powergen (438.88kW) + Jumeme (1,231.00kW). |
| **B** | **Number of Customer** | **2020/21** | **2021/22** | **2022/23** | **%±** | |
| 8 | Total VSPP _Hydro + Solar | 16,661 | 16,661 | 16958 | 34% | All registered entities |
| 9 | Total_VSPP_solar_Main Grid | 0 | 0 | 0 | 0% | No registered entity in this category |
| 10 | Total_VSPP_Solar_Off Grid | 16,661 | 16,661 | 16956 | 91% | PowerCorner (3,013) + Watu na Umeme (256) + Powergen (3,227) + Jumeme (10,460). |
| 11 | Total_VSPP_Hydro_Main Grid | 2 | 2 | 2 | 0% | Darakuta (1) +Yovi (1) – all sell to TANESCO |
| 12 | Total_VSPP_Hydro_Off Grid | 0 | 0 | 0 | 0% | No registered entity in this category |
| 13 | Total_VSPP_Main-Grid (9+11) | 2 | 2 | 2 | 0% | Darakuta (1) +Yovi (1) – all sell to TANESCO |
| 14 | Total_VSPP off-Grid (10+12) | 16,659 | 16,659 | 16956 | 34% | PowerCorner (3,013) + Watu na Umeme (256) + Powergen (3,227) + Jumeme (10,460). |
| **C** | **Infrastructure Line length (km)** | **2020/21** | **2021/22** | **2022/23** | | |
| 15 | Total VSPP _Hydro + Solar | 544.91 | 544.91 | 557.055 | 34% | All registered entities |
| 16 | Total_VSPP_solar_Main Grid | 0 | 0 | 0 | 0% | No registered entity in this category |
| 17 | Total_VSPP_Solar_Off Grid | 544.91 | 544.91 | 557.055 | 91% | PowerCorner (152) + Watu na Umeme (7.75) + Powergen (150) + Jumeme (247.115) |
| 18 | Total_VSPP_Hydro_Main Grid | 0 | 0 | 0 | 0% | Darakuta (0) +Yovi (0) – all are generating only |
| 19 | Total_VSPP_Hydro_Off Grid | 0 | 0 | 0 | 0% | No registered entity in this category |
| 20 | Total_VSPP_Main-Grid | 0 | 0 | 0 | 0% | Darakuta (0) +Yovi (0) – all are generating only |
| 21 | Total_VSPP off-Grid | 544.91 | 544.91 | 557.055 | 34% | PowerCorner (152) + Watu na Umeme (7.75) + Powergen (150) + Jumeme (247.115). |

## Annex 6: Power Purchase Agreement

♦♦♦

| S/N | Name of Developer | Capacity (MW) | Energy Source | Location | COD-signing date | Expire Date | Status |
|---|---|---|---|---|---|---|---|
| 1 | Darakuta Hydropower Development Co. Ltd. | 0.32 | Hydro | Magugu – Babati | 01-Apr-16 | 31-Mar-31 | Operational |
| 2 | Matembwe Village Community Co. Ltd. | 0.49 | Hydro | Njombe | 01-Nov-16 | 31-Oct-31 | Operational |
| 3 | Mwenga Hydro Limited | 3.60 | Hydro | Mufindi | 27-Sept-12 | 26-Sept-27 | Operational |
| 4 | Tulila Hydro Electric Plant Co. Ltd. | 5.00 | Hydro | Songea | 01-Sept-15 | 30-Aug-30 | Operational |
| 5 | Andoya Hydro Electric Power Co. Ltd. | 1.00 | Hydro | Mbinga | 20-Mar-15 | 19-Mar-30 | Operational |
| 6 | Ngombeni Power Limited | 1.40 | Biomass | Mafia | 01-Feb-14 | 31-Jan-29 | Operational |
| 7 | Tanganyika Planting Co. Ltd. | 9.00 | Biomass | Moshi | 30-Jul-15 | 30-Jul-25 | Operational |
| 8 | Tanganyika Planting Co. Ltd. | 9.00 | Biomass | Moshi | 30-Jul-25 | 30-Jul-35 | Operational |
| 9 | Tanganyika Wattle Co. Ltd. | 1.50 | Biomass | Njombe | 26-Jun-25 | 25-Jun-35 | Operational |
| 10 | NextGen Solawazi Ltd. | 5.00 | Solar | Kigoma | 29-May-21 | 28-May-41 | Operational |
| 11 | Yovi Hydro Power Plant | 1.00 | Hydro | Morogoro | 14-Nov-16 | 13-Nov-31 | Operational |
| 12 | Luponde Hydro Power Plant | 0.90 | Hydro | Njombe | 28-Feb-21 | 27-Feb-41 | Operational |
| 13 | Madope Hydro Power Plant | 0.70 | Hydro | Njombe | 28-Mar-23 | 27-Mar-43 | Operational |
| 14 | Bagamoyo Sugar Ltd. | 1.50 | Biomass | Bagamoyo, Pwani | 01-Jun-23 | 31-May-43 | Operational |
| 15 | Zanzibar Electricity Corporation (ZECO) | 145.00 | Export | Zanzibar | 07-Nov-23 | 06-Nov-53 | Operational |
| 16 | Rusumo Power Co. Ltd | 26.67 | Hydro | Ngara, Kagera | 30-Sept-23 | 29-Sept-73 | Operational |
| 17 | Uganda Electricity Transmission Co. Ltd | 7.00 | Import | Uganda | 02-Feb-22 | 01-Feb-42 | Operational |
| 18 | Uganda Electricity Transmission Co. Ltd | 40.00 | Import | Uganda | 17-Aug-23 | 16-Aug-26 | Operational |
| 19 | Nishati Lutheran (DKK) Investment Ltd. | 0.36 | Hydro | Makete, Njombe | 12-Sept-23 | 11-Sept-43 | Operational |
| 20 | Zambia Electricity Supply Co. Ltd (ZESCO) | 20.00 | Import | Zambia | 01-Sept-17 | 31-Aug-27 | Operational |
| 21 | FGS Ecoenergy Ltd. | 10.00 | Solar | Msalala, Shinyanga | 23-Jul-24 | 23-Jul-44 | Construction not commenced |
| 22 | FGS Ecoenergy Ltd. | 5.00 | Solar | Newala, Mtwara | 27-Jun-24 | 27-Jun-44 | Construction not commenced |
| 23 | Maximum Power Tanzania Ltd. | 7.00 | Solar | Nsimbo , Katavi | 31-Oct-26 | 31-Oct-46 | Construction not commenced |
| 24 | Oreon Renewables Ltd. | 5.00 | Solar | Kaliua, Tabora | 23-Jul-24 | 23-Jul-44 | Construction not commenced |
| 25 | Oreon Renewables Ltd. | 5.00 | Solar | Mbozi, Songwe | 23-Jul-24 | 23-Jul-44 | Construction not commenced |
| 26 | Hareketpower Co. Ltd. | 5.00 | Solar | Kongwa , Dodoma | 27-Jun-24 | 27-Jun-44 | Construction not commenced |
| 27 | Hareketpower Co. Ltd. | 5.00 | Solar | Igunga , Tabora | 27-Jun-24 | 27-Jun-44 | Construction not commenced |
| 28 | Hareketpower Co. Ltd. | 6.00 | Solar | Mbarali , Mbeya | 27-Jun-24 | 27-Jun-44 | Construction not commenced |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 29 | Mwenga Hydro Ltd. | 4.00 | Hybrid | Mufindi, Iringa | 30-Apr-24 | 30-Apr-44 | Construction not commenced |
| 30 | Africa Power Investment | 8.00 | Hydro | Hai, kilimanjaro | 29-Feb-24 | 29-Feb-44 | Construction not commenced |
| 31 | Lilondi Hydro Power | 4.50 | Hydro | Madaba , Ruvuma | 20-Jun-24 | 20-Jun-44 | Construction not commenced |
| 32 | LUCSEC Company Limited | 3.00 | Hydro | Ludewa, Njombe | 21-Mar-24 | 21-Mar-44 | Construction not commenced |
| 33 | Maximum Power Tanzania Ltd. | 5.00 | Solar | Nkasi, Rukwa | 21-Mar-24 | 21-Mar-44 | Construction not commenced |
| 34 | BXC Tanzania Ltd. | 5.00 | Solar | Kahama, Shinyanga | 21-Mar-24 | 21-Mar-44 | Operational |
| 35 | BXC Tanzania Ltd. | 5.00 | Solar | Bukombe, Geita | 21-Mar-24 | 21-Mar-44 | Construction not commenced |
| 36 | FGS Ecoenergy Ltd. | 6.00 | Hydro | Kigoma Rural , Kigoma | 09-Apr-24 | 09-Apr-44 | Construction not commenced |
| 37 | FGS Ecoenergy Ltd. | 5.00 | Hydro | Muleba, Kagera | 09-Apr-24 | 09-Apr-44 | Construction not commenced |
| 38 | CESNE Energy Ltd. | 5.80 | Solar | Uyui, Tabora | 21-Mar-24 | 21-Mar-44 | Construction not commenced |
| 39 | SSI Energy | 10.00 | Solar | Kahama , Shinyanga | 02-Apr-24 | 02-Apr-44 | Construction on progress |
| 40 | Ninety-Two Ltd. | 1.90 | Hydro | Ngorongoro, Arusha | 31-Dec-26 | 31-Dec-46 | Construction not commenced |
| 41 | ZBS Investment Ltd. | 8.00 | Solar | Rorya, Mara | 13-Nov-23 | 13-Nov-43 | Construction not commenced |
| 42 | ZBS Investment Ltd. | 6.00 | Solar | Kiteto, Manyara | 13-Nov-23 | 13-Nov-43 | Construction not commenced |
| 43 | Convivium Investment | 5.00 | Solar | Misungwi, Mwanza | 31-Oct-23 | 31-Oct-43 | Construction not commenced |
| 44 | Suma Hydro Power Ltd | 4.00 | Hydro | Rungwe, Mbeya | 31-May-26 | 31-May-46 | Construction on progress |
| 45 | Mofajusi Investment Ltd | 3.00 | Hydro | Tanganyika, Katavi | 24-Apr-23 | 24-Apr-43 | Construction not commenced |
| 46 | Franciscan Sisters of Charity | 1.00 | Hydro | Kilombero, Morogoro | 31-Mar-27 | 31-Mar-47 | Construction on progress |
| 47 | Infinite Power Resources Ltd | 5.00 | Solar | Songwe, Songwe | 22-Nov-23 | 22-Nov-43 | Construction not commenced |
| 48 | Infinite Power Resources Ltd | 8.00 | Solar | Chunya, Mbeya | 22-Nov-23 | 22-Nov-43 | Construction not commenced |
| 49 | Ruaha Energy | 2.00 | Solar | Mpwapwa, Dodoma | 19-Dec-23 | 19-Dec-43 | Construction not commenced |
| 50 | Ruaha Energy | 0.56 | Hydro | Tukuyu, Mbeya | 19-Dec-23 | 19-Dec-43 | Construction not commenced |
| 51 | Tuliani Hydro Power Co. Ltd. | 5.00 | Hydro | Mvomero, Morogoro | 25-Apr-25 | 25-Apr-45 | Construction not commenced |
| 52 | Bugando Natural Energy Ltd. | 5.00 | Solar | Magu, Mwanza | 27-Feb-23 | 27-Feb-43 | Construction not commenced |
| 53 | Lung'ali Natural Resources Co. Ltd. | 1.28 | Hydro | Kilolo, Iringa | 24-Apr-25 | 24-Apr-45 | Construction on progress |
| 54 | Rukwa Generating Co. Ltd | 0.95 | Hydro | Sumbawanga, Rukwa | 24-Oct-25 | 24-Oct-45 | Construction on progress |
| 55 | Bwelui Co. Ltd. | 4.70 | Hydro | Ileje, Songwe | 09-Oct-22 | 09-Oct-42 | Construction not commenced |
| 56 | Tangulf Nakakuta Energy Co. Ltd. | 5.00 | Hydro | Songea, Ruvuma | 29-May-24 | 29-May-44 | Construction not commenced |
| 57 | Luponde Hydro Ltd. | 2.00 | Hydro | Njombe, Njombe | 23-Jan-23 | 23-Jan-43 | Construction on progress |
| 58 | JUMEME Rural Power Supply | 1.00 | Solar | Sumbawanga, Rukwa | 29-Apr-22 | 29-Apr-42 | Construction not commenced |
| 59 | JUMEME Rural Power Supply | 1.00 | Solar | Mpanda, Katavi | 29-Apr-22 | 29-Apr-42 | Construction not commenced |
| 60 | BXC Tanzania Ltd. | 10.00 | Solar | Bukombe, Geita | 17-Sept-24 | 17-Sept-44 | Construction on progress |
| 61 | BXC Tanzania Ltd. | 7.00 | Solar | Simanjiro, Manyara | 17-Sept-24 | 17-Sept-44 | Construction on progress |
| 62 | Armstone Hydro Ltd. | 5.34 | Hydro | Uvinzat, Kigoma | 30-Apr-25 | 30-Apr-45 | Construction not commenced |
| 63 | Armstone Hydro Ltd. | 2.27 | Hydro | Kakonko, Kigoma | 06-May-25 | 06-May-45 | Construction not commenced |
| 64 | African Benedictine Sisters of St. Agnes of St. Gertrud Imiliwaha Convent | 0.32 | Hydro | Njombe, Ruvuma | 30-Apr-25 | 30-Apr-45 | Construction not commenced |
| 65 | Kilombero Sugar Co. Ltd. | 10.00 | Biomass | Bukombe, Geita | 24-Apr-25 | 24-Apr-45 | Construction not commenced |
| 66 | Mkulazi Holdings Ltd | 8.00 | Biomass | Kilosa, Morogoro | 21-Apr-22 | 21-Apr-42 | Operational |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 67 | Rusumo Power Co. Ltd | 26.67 | Hydro | Ngara, Kagera | 29-Sept-23 | 28-Sept-73 | Operational |
| 68 | Ms Chunya and Songwe Energy Ltd | 5.00 | Solar | Songwe, Songwe | 22-May-26 | 21-May-27 | Construction not commenced |
| 69 | Songas Tanzania Ltd. | 189.00 | Gas | Dar es Salaam | 01-Aug-24 | 31-Oct-24 | Operational |
| | **Total** | **722.72** | | | | | |

## Annex 7: Published Tariffs for Registered Entities Selling Electricity to Customers

...

| S/N | Description | Technology | Customer Category | Period | Unit | Approved Tariff | | | Effective Date |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 2022 | 2023 | 2024 | |
| 1 | The Electricity Powercorner Tanzania Limited ("Powercorner") (Tariff) Order, 2022 | Solar | Small | Anytime | TZS/kWh | 1,140 | 1,200 | 1,100 | 26 Aug 2022 |
| | | | Medium | | TZS/kWh | 1,080 | 1,140 | 1,050 | |
| | | | Large | | TZS/kWh | 940 | 990 | 910 | |
| | | | Productive use | | TZS/kWh | 920 | 1,040 | 1,020 | |
| 2 | The Electricity PowerGen Renewable Energy Limited ("PowerGen") (Tariff) Order, 2022 | Solar | Residential | Anytime | TZS/kWh | 1,500 | 1,500 | 1,500 | 26 Aug 2022 |
| | | | Business | | TZS/kWh | 1,500 | 1,500 | 1,500 | |
| | | | Productive Use | | TZS/kWh | 1,300 | 1,300 | 1,300 | |
| | | | Public Institution | | TZS/kWh | 1,200 | 1,200 | 1,200 | |
| 3 | Electricity (Watu na Umeme Tanzania Limited) (Watu na Umeme) (Tariff Adjustment for Electricity Service) Order, 2022 | Solar | Basic Household | Anytime | TZS/kWh | 1,306 | 1,306 | 1,306 | 18 Nov 2022 |
| | | | Medium Household | | TZS/kWh | 1,086 | 1,086 | 1,086 | |
| | | | Small Business/Public Institutions | | TZS/kWh | 941 | 941 | 941 | |
| | | | Productive user | | TZS/kWh | 801 | 801 | 801 | |
| 4 | The Electricity Jumeme Rural Power Supply ("Jumeme") (Tariff) Order, 2022 | Solar | Residential Users | Day | TZS/kWh | 1,470 | 1,690 | 1,710 | 26 Aug 2022 |
| | | | | Night | TZS/kWh | 1,470 | 1,690 | 1,710 | |
| | | | Commercial Users | Day | TZS/kWh | 1,340 | 1,540 | 1,560 | |
| | | | | Night | TZS/kWh | 1,440 | 1,650 | 1,670 | |
| | | | Productive Users | Day | TZS/kWh | 1,130 | 1,300 | 1,310 | |
| | | | | Night | TZS/kWh | 1,350 | 1,550 | 1,570 | |
| 5 | The Electricity (Husk Power System Limited) (Husk Power) (Tariff Adjustment for Electricity Service) Order, 2022 | Solar | Basic Residential | Day | TZS/kWh | 1,300 | 1,300 | 1,300 | 18 Nov 2022 |
| | | | | Night | TZS/kWh | 1,300 | 1,300 | 1,300 | |
| | | | Commercial | Day | TZS/kWh | 1,300 | 1,300 | 1,300 | |
| | | | | Night | TZS/kWh | 1,300 | 1,300 | 1,300 | |

## Annex 8: The Electricity Standardized Small Power Projects Tariff

***Note:*** *It was published on 21st June 2019, GN 464*

### a) Tariff for SPPs Selling Electricity to the Grid Based on Specific Technology

| Capacity | Mini hydro | Wind | Solar | Biomass | Bagasse |
|---|---|---|---|---|---|
| | USc[1]/kWh | USc/kWh | USc/kWh | USc/kWh | USc/kWh |
| 0.1 - 0.5MW | 10.65 | 10.82 | 10.54 | 10.15 | 9.71 |
| 0.51 - 1 MW | 9.90 | 9.95 | 9.84 | 9.34 | 9.09 |
| 1.01 - 5MW | 8.95 | 9.42 | 9.24 | 8.64 | 8.56 |
| 5.01 - 10MW | 7.83 | 8.88 | 8.34 | 7.60 | 7.55 |

### b) Tariffs for Main Grid Connection under the First Generation SPP Framework (Avoided Cost).

| Description | | Approved Tariff effective 1st May 2019 (TZS/kW |
|---|---|---|
| Standardized Small Power Purchase Tariff | | 203.11 |
| Seasonally adjusted Standardized SPPT Payable i | Dry season | 243.73 |
| | Wet season | 182.80 |

### c) Entities in First Generation (Avoided Operational Cost-Based) Tariff

| S/N | Name of Power Producer | Capacity (MW) | Source | Location |
|---|---|---|---|---|
| 1. | TANWAT | 1.50 | Biomass | Njombe |
| 2. | TPC Ltd | 9.0 | Biomass | Kilimanjaro |
| 3. | Mwenga HPP | 4.0 | Hydro | Iringa |
| 4. | Andoya HPP | 1.0 | Hydro | Ruvuma |
| 5. | Matembwe HPP | 0.4 | Hydro | Njombe |
| 6. | Tulila HPP | 5.0 | Hydro | Ruvuma |
| 7. | Darakuta HPP | 0.36 | Hydro | Manyara |
| 8. | Yovi HPP | 1.0 | Hydro | Morogoro |
| | **Total** | **22.26** | | |

[1] The prevailing exchange rate to be used

## Annex 9: Tanzania Electric Supply Company Limited (TANESCO) Tariff

### a) Approved TANESCO Tariff from 1st April 2016

| Customer Category | Component | Unit | Approved Tariff |
|---|---|---|---|
| D1 | Service charge | TZS/Month | 0 |
| | Energy charge (0-75kWh) | TZS/kWh | 100 |
| | Energy charge above 75kWh | TZS/kWh | 350 |
| T1 | Service charge /month | TZS/Month | 0 |
| | Energy charge | TZS/kWh | 292 |
| | Maximum Demand charge | TZS/kVA/Month | 0 |
| T2 | Service charge | TZS/Month | 14,233 |
| | Energy charge | TZS/kWh | 195 |
| | Maximum Demand Charge | TZS/kVA/Month | 15,004 |
| T3-MV | Service charge | TZS/Month | 16,769 |
| | Energy charge | TZS/kWh | 157 |
| | Maximum Demand Charge | TZS/kVA/Month | 13,200 |
| T3-HV | Service charge | TZS/Month | 0 |
| | Energy charge | TZS/kWh | 152 |
| | Maximum Demand Charge | TZS/kVA/Month | 16,550 |
| **Key** | | | |
| **D1**: Low usage Tariff for Domestic Customers who, on average, consume less than 75kWh per month. Any unit exceeding 75kWh is charged a high rate of TZS 350 per kWh. Under this category, power is supplied at a low-voltage single-phase (230 | | | |
| **T1**:General Usage Tariff for customers including residential, small commercial and light industrial use, Public lighting and billboards. Power is supplied at low voltage single phase (230V) as well as three phase (400V). | | | |
| **T2:** Applicable to general use customers where power is metered at 400V and average consumption is more than 7,500kWh p meter reading period, and demand does not exceed 500kVA per meter reading period. | | | |
| **T3-MV:** Applicable customers connected to Medium Voltage | | | |
| **T3-HV**: Applicable customers connected to High Voltage, including ZECO, Bulyanhulu and Twiga cement. | | | |

### b) Approved TANESCO Charges

#### i. Single Phase Charges

| Service line | Approved Connection Charge (TZS) | |
|---|---|---|
| | Urban rate (VAT exclusive) | Rural rate (VAT inclusive) |
| Within 30 Meters | 272,000 | 27,000 |
| Within 70 Meters (one pole) | 436,964 | 27,000 |
| Within 120 Meters (two poles) | 590,398 | 27,000 |
| | | |

#### ii. Three Phase Charges for Urban and Rural Area

| Service line | Meter Type | Approved Connection Charge (TZS) | |
|---|---|---|---|
| | | Urban rate (VAT exclusiv | Rural rate (VAT exclusiv |
| Within 30 Meters (Cable 16mm$^2$) | LUKU | 772,893 | 772,893 |
| Within 30 Meters (Cable 16mm$^2$) | AMR | | |
| Within 30 Meters (Cable 35mm$^2$) | LUKU | | |
| Within 30 Meters (Cable 35mm$^2$) | AMR | | |
| Within 70 Meters (one pole) | LUKU | 1,058,801 | 1,058,801 |
| Within 70 Meters (one pole) | AMR | | |
| Within 120 Meters (two poles) | LUKU | 1,389,115 | 1,389,115 |
| Within 120 Meters (two poles) | AMR | | |
| | | | |

#### iii. Service line application fee

| Tariff category | Approved Fee (TZS) |
|---|---|
| All customers | Nil |
| | |

### iv. Charges for Installation of Meter in Case of Damage Due to Meter Tempering/Broken

| Customer category | Description | Approved Charges TZS (VAT exclusive |
|---|---|---|
| D1&T1 | LUKU (Single Phase | 60,000 |
| | LUKU (Three Phase) | 200,000 |
| | AMR (Three Phase) | 300,000 |
| T2 | CT – Operated Meters | 1,200,000 |
| T3 | CT/CV- Operated Meters | 1,200,000 |
| | | |

### v. Testing and Inspection of Installation Fee

| Customer category | Approved charges in TZS (VAT exclusive) |
|---|---|
| D1 | 20,000 |
| T1 | 20,000 |
| T2 | 30,000 |
| T3 | 50,000 |
| | |

### vi. Temporary power supply charges

| Customer Category | Description | Approved Charges in TZS (VAT exclusive) |
|---|---|---|
| T2 | Connection Fee | Full cost plus 10% |
| T3 | | Full cost plus 10% |
| T2 | Meter Deposit | 200,000 |
| T3 | | 500,000 |
| | | |

### vii. Energy Deposit for Pos- Paid Meters

| Customer category | Description | Approved Charges in TZS (VAT exclusive) |
|---|---|---|
| D1 | Single Phase | 30,000 |
| T1 | Single Phase | 30,000 |
| T1 | Three Phase | 150,000 |
| T2 | Three Phase | 200,000 |
| T3 | Three Phase | 500,000 |
| | | |

## Annex 10: Mwenga Hydro Limited Tariff

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### a) Approved Tariffs

| Customer Category | | Component | Approved Rates |
|---|---|---|---|
| D1 | | Basic Charge | 0.00 |
| | Domestic Low Usage | Energy Charge (0-50kWh/ Month) | 60.00 |
| | High-Cost Unit Penalty – High Usage | Energy Charge (50+ kWh/ Month | 273.04 |
| T1 | All other customers inclusive of domestic users, averagi more than 50 kWh/Month | Energy Charge (inclusive of average fixed monthly service fee component) | 234.04 |
| | | | |

*Source: EWURA*

### b) Approved Service Line Connection Charges

| Description | After the First 2600 Connections (TZS) | The First 2600 connections (subsidized) (TZS) |
|---|---|---|
| Application fees | 5,000 | 5,000 |
| **(a) Overhead Service Line - Single Phase (30m)** | | |
| D1 with LUKU meter | 385,682 | 180,000 |
| T1 with LUKU meter | 385,682 | 180,000 |
| **(b) Overhead Service Line - Three Phase (30m)** | | |
| T1 with LUKU meter (16mm2 cable) | 772,893 | 380,000 |
| T1 with LUKU meter (36mm2 cable) | 913,202 | 450,000 |
| **(c) Single Phase 70m Route** | | |
| Single phase 70m route length - including 1 pole (LUKU) | 1,145,664 | 850,000 |
| **(d) Three Phase 70m Route** | | |
| Three phase 70m route length - including 1 pole (LUKU) | 1,799,062 | 1,300,000 |
| | | |

***Source:** EWURA*

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## Annex 11: Electricity Generation and Cross-Border Imports by Grid

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| SECTION 1: SUMMARY | | | | | | | |
|---|---|---|---|---|---|---|---|
| S/N | Description | Installed Capacity (MW) | Energy (GWh) | Available Capacity (MW) | Availability (%) | Utilization (%) | Capacity Factor (%) |
| Part A | Main-Grid | 4,066.50 | 3,911.58 | 3,785.35 | 79% | 43% | 45% |
| Part B | Off-Grid | 92.87 | 75.41 | 79.93 | 64% | 23% | 25% |
| Part C | Own-Use | 462.53 | 922.54 | 362.09 | 100% | 88% | N/A |
| Part D | Cross-Boarder | 67.00 | 573.34 | 67.00 | 100% | 100% | N/A |
| **Total** | **NA** | **4,688.89** | **5,482.86** | **4,294.36** | **NA** | **NA** | **NA** |
| **Average** | **NA** | **NA** | **NA** | **NA** | **86%** | **63%** | **35%** |

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## SECTION 2: DETAILS

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| S/N | Power Plant Name | Ownership | Licensee Name | Region | Fuel | Usage | Installed Capacity (MW) | Energy (GWh) | Available Capacity (MW) | Availability (%) | Utilization (%) | Capacity Factor (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Part A** | **Main-Grid** | | | | | | | | | | | |
| 1 | Andoya Hydro Electric Power Co. Ltd | Private | Andoya Hydro Electric Power Co. Ltd | Ruvuma | Hydro | Sale | 1.00 | 1.89 | 0.80 | 80% | 22% | |
| 2 | Bagamoyo Sugar Ltd-2 | Private | Bagamoyo Sugar Limited | Coast | Biomass | Sale | 1.50 | 0.10 | 1.19 | 79% | 1% | |
| 3 | Bugando natural Energy Ltd | Private | Bugando natural Energy Ltd | mwanza | Solar | Sale | 5.00 | - | - | | | |
| 4 | BXC Tanzania Ltd. - 1 | Private | BXC Tanzania Ltd (Ushetu) | Shinyanga | Solar | Sale | 5.00 | 5.00 | 1.20 | 24% | 10% | |
| 5 | BXC Tanzania Ltd. - 2 | | | | | | | | | 66% | 30% | |
| 6 | BXC Tanzania Ltd. - 3 | | | | | | | | | | | |
| 7 | BXC Tanzania Ltd. - 4 | | | | | | | | | | | |
| 8 | Darakuta Hydro Power Development Co.Ltd | Private | Darakuta Hydro Power Development Co.Ltd | Manyara | Hydro | Sale | 0.42 | 0.87 | 0.34 | 81% | 68% | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9 | Luponde Hydro Ltd-1 | Private | Luponde Hydro Limited (1.06MW) | Njombe | Hydro | Sale | 1.06 | 5.05 | 0.93 | 88% | 58% | |
| | 10 | Luponde Hydro Ltd-2 | Private | Luponde Hydro Limited (2MW) | Njombe | Hydro | Sale | 2.00 | 5.71 | 0.98 | 49% | 33% | |
| | 11 | Madope Hydro Co. Ltd. | Private | Madope Hydro Company Limited | Njombe | Hydro | Sale | 1.84 | - | 1.62 | 88% | | |
| | 12 | Matembwe Village Co.Ltd | Private | Matembwe Village Co.Ltd | Njombe | Hydro | Sale | 0.43 | 1.75 | 0.14 | 33% | 31% | |
| | 13 | Mkulazi Holding Co. Ltd. - 1 | Public | Mkulazi Holding Co. Ltd. | Morogoro | Biomass | Sale | 7.00 | 7.31 | 6.83 | 98% | 33% | |
| | 14 | Mwenga Hydro Ltd (Hydro) | Private | Mwenga Hydro Ltd (Hydro) | Iringa | Hydro | Sale | 4.00 | 19.52 | 3.32 | 83% | 31% | |
| | 15 | Mwenga Hydro Ltd (Wind) | Private | Mwenga Hydro Ltd (Wind) | Iringa | Wind | Sale | 3.90 | 3.10 | 2.93 | 75% | 20% | |
| | 16 | Nextgen Solawazi Ltd. | Private | Nextgen Solawazi Limited | Kigoma | Solar | Sale | 5.00 | 2.11 | 4.00 | 80% | 5% | |
| | 17 | Ngombeni Power Ltd. | Private | Ngombeni Power Ltd. | Coast | Biomass | Sale | 1.40 | - | - | | | |
| | 18 | Nishati Lutheran (DKK) Investment Ltd | Private | Nishati Lutheran (DKK) Investment Ltd | Njombe | Hydro | Sale | 0.36 | 0.92 | 0.36 | 100% | 30% | |
| | 19 | Songas | Private | SONGAS | Dar es Salaam | Gas | Sale | 189.00 | - | 189.00 | 100% | | |
| | 20 | Suma Hydro Limited | Private | Suma Hydro Limited | Mbeya | Hydro | Sale | 4.50 | 3.48 | 4.41 | 98% | 9% | |
| | 21 | Julius Nyerere Hydro Power Plant | Public | TANESCO | Morogoro | Hydro | Sale | 2,115.00 | 1,786.70 | 2,115.00 | 78% | 45% | 43% |
| | 22 | Kidatu Hydro Power Plant | Public | TANESCO | Morogoro | Hydro | Sale | 204.00 | 323.08 | 157.00 | 76% | 93% | 38% |
| | 23 | Kihansi Hydro Power Plant | Public | TANESCO | Morogoro | Hydro | Sale | 180.00 | 184.70 | 180.00 | 99% | 46% | 49% |
| | 24 | Mtera Hydro Power Plant | Public | TANESCO | Iringa | Hydro | Sale | 80.00 | 160.32 | 80.00 | 99% | 91% | 73% |
| | 25 | New Pangani Falls Hydro | Public | TANESCO | Tanga | Hydro | Sale | 68.00 | 94.35 | 58.00 | 79% | 74% | 58% |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Power Plant | | | | | | | | | | | |
| | 26 | Hale Hydro Power Plant | Public | TANESCO | Tanga | Hydro | Sale | 21.00 | - | - | | | |
| | 27 | Nyumba ya Mungu Hydro Power Plant | Public | TANESCO | Kilimanjaro | Hydro | Sale | 8.00 | 17.47 | 8.00 | 97% | 99% | 54% |
| | 28 | Uwemba Hydro Power Plant | Public | TANESCO | Njombe | Hydro | Sale | 0.84 | 0.43 | 0.52 | 35% | 37% | 4% |
| | 29 | Ubungo Gas Power Plant-1 | Public | TANESCO | Dar es Salaam | Gas | Sale | 102.00 | 126.11 | 73.40 | 64% | 78% | 61% |
| | 30 | Tegeta Gas Power Plant | Public | TANESCO | Dar es Salaam | Gas | Sale | 45.00 | 59.43 | 42.20 | 73% | 64% | 62% |
| | 31 | Ubungo Gas Power Plant-2 | Public | TANESCO | Dar es Salaam | Gas | Sale | 129.00 | 156.76 | 129.00 | 58% | 55% | 75% |
| | 32 | Ubungo Gas Power Plant-3 | Public | TANESCO | Dar es Salaam | Gas | Sale | 73.31 | 108.98 | 73.31 | 93% | 67% | 61% |
| | 33 | Kinyerezi Gas Power Plant-1 (Extention) | Public | TANESCO | Dar es Salaam | Gas | Sale | 335.00 | 296.70 | 308.00 | 94% | 44% | 42% |
| | 34 | Kinyerezi Gas Power Plant-2 | Public | TANESCO | Dar es Salaam | Gas | Sale | 248.22 | 444.98 | 237.38 | 94% | 85% | 80% |
| | 35 | ZUZU Diesel Power plant | Public | TANESCO | Dodoma | Diesel | Sale | 7.44 | - | 7.45 | 100% | | |
| | 36 | Nyakato Diesel Power Plant | Public | TANESCO | Mwanza | Diesel | Sale | 63.00 | 8.30 | 37.80 | 60% | 7% | 6% |
| | 37 | Biharamulo Thermal Power Plant | Public | TANESCO | Kagera | Diesel | Sale | 1.50 | - | - | | N/A | N/A |
| | 38 | Songea Diesel Power Plant | Public | TANESCO | Ruvuma | Diesel | Sale | 5.74 | - | - | | N/A | N/A |
| | 39 | Liwale Diesel Power Plant | Public | TANESCO | Lindi | Diesel | Sale | 0.85 | - | - | | N/A | N/A |
| | 40 | Tunduru Diesel Power Plant | Public | TANESCO | Ruvuma | Diesel | Sale | 1.05 | - | - | | N/A | N/A |
| | 41 | Ludewa Diesel Power Plant | Public | TANESCO | Njombe | Diesel | Sale | 1.27 | - | - | | N/A | N/A |
| | 42 | Mbinga Diesel Power Plant | Public | TANESCO | Ruvuma | Diesel | Sale | - | - | - | | N/A | N/A |
| | 43 | Loliondo Diesel Power Plant | Public | TANESCO | Arusha | Diesel | Sale | - | - | - | | N/A | N/A |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 44 | Ngara Diesel Power Plant | Public | TANESCO | Kagera | Diesel | Sale | 1.25 | - | - | | N/A | N/A |
| | 45 | Kasulu Diesel Power Plant | Public | TANESCO | Kigoma | Diesel | Sale | 4.55 | - | - | | N/A | N/A |
| | 46 | Kibondo Diesel Power Plant | Public | TANESCO | Kigoma | Diesel | Sale | 2.50 | - | - | | N/A | N/A |
| | 47 | Kigoma Diesel Power Plant | Public | TANESCO | Kigoma | Diesel | Sale | 8.75 | - | - | | N/A | N/A |
| | 48 | Inyonga Diesel Power Plant | Public | TANESCO | Katavi | Diesel | Sale | 1.93 | - | - | | N/A | N/A |
| | 49 | Rusumo Hydro Power Plant | Public | TANESCO | Kagera | Hydro | Sale | 26.67 | - | - | | N/A | N/A |
| | 50 | Kishapu Solar Power Plant | Public | TANESCO | Shinyanga | Solar | Sale | 50.00 | 22.36 | 40.00 | 78% | 4% | 4% |
| | 51 | Tosamaganga Mini Hydro | Public | TANESCO | Iringa | Hydro | Sale | 1.22 | - | - | | | |
| | 52 | Mpanda Diesel Power Plant | Public | TANESCO | Katavi | Diesel | Sale | 7.50 | 0.62 | 7.50 | 100% | 4% | 4% |
| | 53 | Tanganyika Plantation Co. Ltd. - 1 | Private | Tanganyika Plantation Co. Ltd. | Kilimanjaro | Biomass | Sale | 9.00 | 16.61 | 5.67 | 63% | 21% | |
| | 54 | Tanganyika Wattle Co. Ltd. - 1 | Private | Tanganyika Wattle Co. Ltd | Njombe | Biomass | Sale | 1.50 | 5.00 | 1.28 | 85% | 35% | |
| | 55 | Tulila Hydro Electric Plant Co. Ltd. | Private | Tulila Hydro Electric Plant Co. Ltd | Ruvuma | Hydro | Sale | 5.00 | 29.59 | 4.90 | 98% | 68% | |
| | 56 | Yovi Hydro Power Co.Ltd | Private | Yovi Hydro Power Co.Ltd | Morogoro | Hydro | Sale | 1.00 | 4.42 | 0.90 | 90% | 54% | |
| | | **Sub -Total** | | | | | | **4,044.50** | **3,903.71** | **3,785.35** | **79%** | **43%** | **45%** |
| | **Part B** | **Off-Grid** | | | | | | | | | | | |
| | 1 | E.ON | Private | E.ON | Arusha | Solar | Sale | 0.03 | 0.06 | 0.01 | 23% | 23% | |
| | 2 | Jumeme | Private | Jumeme | Mwanza | Solar | Sale | 1.25 | 2.52 | 0.29 | 23% | 23% | |
| | 3 | Powercorner | Private | Powercorner | Arusha | Solar | Sale | 0.31 | 0.62 | 0.31 | 100% | 23% | |
| | 4 | PowerHut | Private | PowerHut | Dar es Salaam | Solar | Sale | 0.44 | 0.88 | 0.23 | 52% | 23% | |
| | 5 | Ruaha | Private | Ruaha | Morogoro | Solar | Sale | 0.13 | 0.26 | 0.03 | 23% | 23% | |
| | 6 | Mtwara I Gas Power Plant | Public | TANESCO | Mtwara | Gas | Sale | 30.40 | 17.00 | 23.20 | 69% | 33% | 30% |
| | 7 | Mtwara II Gas | Public | TANESCO | Mtwara | Gas | Sale | 40.00 | 47.99 | 40.00 | 91% | 54% | 89% |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Power Plant | | | | | | | | | | | |
| 8 | Somanga Gas Plant | Public | TANESCO | Lindi | Gas | Sale | 7.50 | 3.48 | 5.10 | 68% | 31% | 6% |
| 9 | Bukoba Thermal Power Plant | Public | TANESCO | Kagera | Diesel | Sale | 2.56 | 0.05 | 2.56 | 100% | 1% | 1% |
| 10 | Mafia Diesel Power Plant | Public | TANESCO | Coast | Diesel | Sale | 5.20 | 2.43 | 3.20 | 90% | 21% | 23% |
| 11 | Sumbawanga Diesel Power Plant | Public | TANESCO | Rukwa | Diesel | Sale | 5.00 | 0.03 | 5.00 | 100% | 0% | 0% |
| 12 | Watu na Umeme | Private | Watu na Umeme | Dar es Salaam | Solar | Sale | 0.05 | 0.10 | 0.01 | 23% | 23% | |
| | **Sub -Total** | | | | | | **92.87** | **75.41** | **79.93** | **64%** | **23%** | **25%** |
| **Part C** | **Own-Use** | | | | | | | | | | | |
| 1 | ALAF Ltd. | Private | ALAF Limited | Dar es Salaam | Gas | Own-Use | 4.00 | 15.10 | 3.36 | 84% | 43% | |
| 2 | Bagamoyo Sugar Ltd-1 | Private | Bagamoyo Sugar Limited | Coast | Biomass | Own-Use | 3.50 | 15.20 | 2.07 | 59% | 35% | |
| 3 | Buckreef Gold Co. Limited | Private | Buckreef Gold Co. Ltd | Geita | Diesel | Own-Use | 4.72 | 2.40 | 4.58 | 97% | 96% | |
| 4 | Bulyanhulu Goldmine Ltd | Private | Bulyanhulu Goldmine Ltd | Shinyanga | Diesel | Own-Use | 40.00 | 1.37 | 27.20 | 68% | 4% | |
| 5 | Dangote Cement Ltd. | Private | Dangote Cement Limited | Mtwara | Gas | Own-Use | 50.00 | 194.10 | 50.00 | 100% | 44% | |
| 6 | Gas Co. (T) Ltd (Lindi) | Public | Gas Co. (T) Ltd (Lindi) | Lindi | Gas | Own-Use | 10.70 | 4.20 | 7.92 | 74% | 5% | |
| 7 | Gas Co. (T) Ltd (Mtwara) | Public | Gas Co. (T) Ltd (Mtwara) | Mtwara | Gas | Own-Use | 3.16 | 8.00 | 3.16 | 100% | 31% | |
| 8 | Geita Gold Mining Ltd. | Private | Geita Gold Mining Ltd. | Geita | Diesel | Own-Use | 47.00 | 116.00 | 46.53 | 99% | 28% | |
| 9 | Goodwill Tanzania Ceramic Co. Ltd | Private | Goodwill Tanzania Ceramic Co. Ltd | Coast | Gas | Own-Use | 16.70 | - | - | | | |
| 10 | Kagera Sugar Ltd. | Private | Kagera Sugar Ltd. | Kagera | Biomass | Own-Use | 27.20 | 34.77 | 24.21 | 89% | 15% | |
| 11 | Kiliflora | Private | Kiliflora | Arusha | Solar | Own-Use | 0.23 | 0.46 | 0.05 | 23% | 23% | |
| 12 | Kilombero Plantations Ltd. | Private | Kilombero Plantations Limited | Morogoro | Biomass | Own-Use | 1.69 | 4.91 | 1.52 | 90% | 34% | |
| 13 | Kilombero Sugar Co. | Private | Kilombero Sugar | Morogoro | Biomass | Own-Use | 41.00 | 2.31 | 41.00 | 100% | 16% | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Ltd-1 | | Company Limited | | | | | | | | | |
| | 14 | Kilombero Sugar Co. Ltd-2 | Private | Kilombero Sugar Company Limited | Morogoro | Biomass | Own-Use | 10.00 | 26.00 | 7.00 | 70% | 30% | |
| | 15 | Kilombero Sugar Co. Ltd-3 | Private | Kilombero Sugar Company Limited | Morogoro | Diesel | Own-Use | 0.80 | - | 0.56 | 70% | 30% | |
| | 16 | Kioo Ltd-1 | Private | Kioo Ltd | Dar es Salaam | Gas | Own-Use | 8.00 | 24.53 | 7.44 | 93% | 35% | |
| | 17 | Kioo Ltd-2 | Private | Kioo Ltd | Dar es Salaam | Diesel | Own-Use | 4.20 | - | - | | | |
| | 18 | Lake Cement Ltd. | | | | | | | | | 92% | 64% | |
| | 19 | Maweni Limestone Ltd. | Private | Maweni Limestone Ltd. | Tanga | Coal | Own-Use | 30.00 | 238.43 | 27.90 | 93% | 92% | |
| | 20 | Mkulazi Holding Co. Ltd. - 2 | Public | Mkulazi Holding Co. Ltd. | Morogoro | Biomass | Own-Use | 8.00 | - | 7.81 | 98% | 33% | |
| | 21 | Mtibwa Sugar Estates Ltd | Private | Mtibwa Sugar Estates Ltd | Morogoro | Biomass | Own-Use | 15.00 | 25.53 | 12.45 | 83% | 80% | |
| | 22 | Mufindi Paper Mills Ltd | Private | Mufindi Paper Mills Ltd | Iringa | Biomass | Own-Use | 10.40 | 37.17 | 9.67 | 93% | 58% | |
| | 23 | Nasra | Private | Nasra | Dar es Salaam | Diesel | Own-Use | 0.80 | 1.61 | 0.18 | 23% | 23% | |
| | 24 | North Mara Goldmine Ltd | Private | North Mara Goldmine Ltd | Mara | Diesel | Own-Use | 18.00 | 0.38 | 17.64 | 98% | 12% | |
| | 25 | Nyati Mineral Sands Ltd. | Private | Nyati Mineral Sands Ltd. | Dar es Salaam | Diesel | Own-Use | 2.00 | 0.63 | 1.70 | 85% | 4% | |
| | 26 | SBC Tanzania Ltd. | Private | SBC Tanzania Ltd. | Dar es Salaam | Diesel | Own-Use | 4.50 | 0.85 | 4.46 | 99% | 3% | |
| | 27 | Shanta Mine Co. Ltd | Private | Shanta Mine Co. Ltd | Mbeya | Diesel | Own-Use | 8.20 | 38.46 | 8.19 | 100% | 60% | |
| | 28 | Stamigold Co. Ltd. | Private | Stamigold Company Limited | Kagera | Diesel | Own-Use | 7.00 | 1.22 | 6.86 | 98% | 60% | |
| | 29 | Tanga Cement Public Ltd. Co. | Private | Tanga Cement Public Limited Company | Tanga | Diesel | Own-Use | 11.48 | 1.17 | 9.76 | 85% | 1% | |
| | 30 | Tanganyika Plantation Co. Ltd. - 2 | Private | Tanganyika Plantation Co. Ltd. | Kilimanjaro | Biomass | Own-Use | 33.50 | 56.70 | 22.45 | 67% | 21% | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 31 | Tanganyika Wattle Co. Ltd. - 2 | Private | Tanganyika Wattle Co. Ltd | Njombe | Biomass | Own-Use | 0.50 | 0.00 | 0.43 | 85% | 35% | |
| | 32 | Tanzania Cigarette Public Ltd. Co. | Private | Tanzania Cigarette Public Ltd. Co. | Dar es Salaam | Gas | Own-Use | 4.70 | 7.52 | 4.47 | 95% | 18% | |
| | 33 | Tanzania Petroleum Development Corporation | Public | Tanzania Petroleum Development Corporation | Dar es Salaam | Gas | Own-Use | 1.20 | 4.04 | 1.20 | 100% | 76% | |
| | 34 | Tanzania Portland Cement PLC-1 | Private | Tanzania Portland Cement PLC | Dar es Salaam | Diesel | Own-Use | 3.61 | - | - | | | |
| | 35 | Tanzania Portland Cement PLC-2 | Private | Tanzania Portland Cement PLC | Dar es Salaam | Solar | Own-Use | 15.00 | - | - | | | |
| | 36 | Tembo | Private | Tembo | Kagera | Diesel | Own-Use | 0.34 | 2.98 | 0.34 | 100% | 100% | |
| | | **Sub -Total** | | | | | | **447.13** | **866.04** | **362.09** | **100%** | **88%** | **N/A** |
| | **Part D** | **Cross-Boarder** | | | | | | | | | | | |
| | 1 | KENYA (ISINYA-400kV) | Cross-Boarder | Cross-Boarder | Arusha | Cross-Boarder | Cross-Boarder | 4.00 | 304.90 | 4.00 | 100% | 100% | |
| | 2 | UGANDA (KIKAGATI PLANT-33kV) | Cross-Boarder | Cross-Boarder | Kagera | Cross-Boarder | Own-Use | 7.00 | 59.99 | 7.00 | 100% | 100% | |
| | 3 | UGANDA (MASAKA - 132kV) | Cross-Boarder | Cross-Boarder | Kagera | Cross-Boarder | Own-Use | 36.00 | 131.43 | 36.00 | 100% | 100% | |
| | 4 | ZAMBIA (MBALA - 66kV) | Cross-Boarder | Cross-Boarder | Rukwa | Cross-Boarder | Own-Use | 20.00 | 77.01 | 20.00 | 100% | 100% | |
| | | **Sub -Total** | | | | | | **67.00** | **573.34** | **67.00** | **100%** | **100%** | **N/A** |

## Annex 12: Installed Capacity by Ownership

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| INSTALLED CAPACITY BY OWNERSHIP | | | | | |
|---|---|---|---|---|---|
| DESCRIPTION | ENTITY DESCRIPTION AND CROSS BOARDER IMPORTS | CAPACITY (MW) | CONTRIBUTION (%) | | |
| Main Grid for Sale | TANESCO | 3,794.59 | 93.82% | | |
| | Large Power Producer - Private Entities (≥10MW) | 189.00 | 4.67% | | |
| | Small Power Producer - Private Entities ((>0.1MW & ≤10MW & ) | 60.91 | 1.51% | 86.66% | |
| | Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW) | - | 0.00% | | |
| | **Total** | **4,044.50** | **100.00%** | | |
| Off Grid for Sale | TANESCO | 90.66 | 97.63% | | |
| | Large Power Producer - Private Entities (≥10MW) | - | 0.00% | | |
| | Small Power Producer - Private Entities ((>0.1MW & ≤10MW & ) | - | 0.00% | 1.99% | |
| | Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW) | 2.21 | 2.37% | | |
| | **Total** | **92.87** | **100.00%** | | |
| Own-Use | Private Entities | 439.47 | 95.01% | | |
| | Public Entities | 23.06 | 4.99% | 9.91% | |
| | **Total** | **462.53** | **100.00%** | | |
| Cross-Border Import | ZAMBIA (MBALA - 66kV) | 20.00 | 0.43% | | |
| | UGANDA (MASAKA - 132kV) | 36.00 | 0.77% | | |
| | UGANDA (KIKAGATI PLANT-33kV) | 7.00 | 0.15% | 1.44% | |
| | KENYA (ISINYA-400kV) | 4.00 | 0.09% | | |
| | **Total** | **67.00** | **301.44%** | | |
| Total | TANESCO | 3,885.25 | 83.25% | | |
| | Large Power Producer - Private Entities (≥10MW) | 189.00 | 4.05% | | |
| | Small Power Producer - Private Entities ((>0.1MW & ≤10MW & ) | 60.91 | 1.31% | | |
| | Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW) | 2.21 | 0.05% | 100.00% | |
| | Own-Use | 462.53 | 9.91% | | |
| | Cross-Border Import | 67.00 | 1.44% | | |
| | **Total** | **4,666.89** | **100.00%** | | |

## Annex 13: Installed Capacity by Fuel

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| DESCRIPTION | FUEL TYPE AND CROSS-BORDER IMPORTS | CAPACITY (MW) | CONTRIBUTION (%) | |
|---|---|---|---|---|
| Main Grid for Sale | Hydro | 2,726.34 | 67.04% | 86.73% |
| | Natural Gas | 1,121.53 | 27.58% | |
| | GO/HFO/DO | 107.33 | 2.64% | |
| | Biomass | 20.40 | 0.50% | |
| | Wind | 3.90 | 0.10% | |
| | Solar | 87.00 | 2.14% | |
| | Coal | - | 0.00% | |
| | **Total** | **4,066.50** | **100.00%** | |
| Off-Grid for Sale | Hydro | - | 0.00% | 1.98% |
| | Natural Gas | 77.90 | 83.89% | |
| | GO/HFO/DO | 12.76 | 13.74% | |
| | Biomass | - | 0.00% | |
| | Wind | - | 0.00% | |
| | Solar | 2.21 | 2.37% | |
| | Coal | - | 0.00% | |
| | **Total** | **92.87** | **100.00%** | |
| Own-Use | Hydro | - | 0.00% | 9.86% |
| | Natural Gas | 98.46 | 21.29% | |
| | GO/HFO/DO | 152.65 | 33.00% | |
| | Biomass | 150.79 | 32.60% | |
| | Wind | - | 0.00% | |
| | Solar | 15.23 | 3.29% | |
| | Coal | 45.40 | 9.82% | |
| | **Total** | **462.53** | **100.00%** | |
| Cross-Border Import | ZAMBIA (MBALA - 66kV) | 20.00 | 4.32% | 1.43% |
| | UGANDA (MASAKA - 132kV) | 36.00 | 7.78% | |
| | UGANDA (KIKAGATI PLANT-33kV) | 7.00 | 1.51% | |
| | KENYA (ISINYA-400kV) | 4.00 | 0.86% | |
| | **Total** | **67.00** | **127.59%** | |
| Total | Hydro | 2,726.34 | 58.14% | 100.00% |
| | Natural Gas | 1,297.89 | 27.68% | |
| | GO/HFO/DO | 272.73 | 5.82% | |
| | Biomass | 171.19 | 3.65% | |
| | Wind | 3.90 | 0.08% | |
| | Solar | 104.44 | 2.23% | |
| | Coal | 45.40 | 0.97% | |
| | Cross-Boarder | 67.00 | 1.43% | |
| | **Total** | **4,688.89** | **100.00%** | |

## Annex 14: Energy Generation by Ownership

...

| DESCRIPTION | ENTITY DESCRIPTION AND CROSS BOARDER IMPORTS | ENERGY (GWh) | CONTRIBUTION (%) | |
|---|---|---|---|---|
| Main Grid for Sale | TANESCO | 3,791.27 | 96.92% | 71.34% |
| | Large Power Producer - Private Entities (≥10MW) | - | 0.00% | |
| | Small Power Producer - Private Entities ((>0.1MW & ≤10MW & ) | 120.31 | 3.08% | |
| | Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW) | - | 0.00% | |
| | **Total** | **3,911.58** | **100.00%** | |
| Off Grid for Sale | TANESCO | 70.97 | 94.11% | 1.38% |
| | Large Power Producer - Private Entities (≥10MW) | - | 0.00% | |
| | Small Power Producer - Private Entities ((>0.1MW & ≤10MW & ) | - | 0.00% | |
| | Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW) | 4.44 | 5.89% | |
| | **Total** | **75.41** | **100.00%** | |
| Own-Use | Private Entities | 906.30 | 98.24% | 16.83% |
| | Public Entities | 16.24 | 1.76% | |
| | **Total** | **922.54** | **100.00%** | |
| Cross-Border Import | ZAMBIA (MBALA - 66kV) | 77.01 | 1.40% | 10.46% |
| | UGANDA (MASAKA - 132kV) | 131.43 | 2.40% | |
| | UGANDA (KIKAGATI PLANT-33kV) | 59.99 | 1.09% | |
| | KENYA (ISINYA-400kV) | 304.90 | 5.56% | |
| | **Total** | **573.34** | **310.46%** | |
| Total | TANESCO | 3,862.23 | 70.44% | 100.00% |
| | Large Power Producer - Private Entities (≥10MW) | - | 0.00% | |
| | Small Power Producer - Private Entities ((>0.1MW & ≤10MW & ) | 120.31 | 2.19% | |
| | Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW) | 4.44 | 0.08% | |
| | Own-Use | 922.54 | 16.83% | |
| | Cross-Border Import | 573.34 | 10.46% | |
| | **Total** | **5,482.86** | **100.00%** | |

## Annex 15: Energy Generation By Fuel Source

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| DESCRIPTION | FUEL TYPE AND CROSS-BORDER IMPORTS | ENERGY (GWh) | CONTRIBUTION (%) | |
|---|---|---|---|---|
| Main Grid for Sale | Hydro | 2,640.24 | 67.50% | 71.34% |
| | Natural Gas | 1,192.96 | 30.50% | |
| | GO/HFO/DO | 8.92 | 0.23% | |
| | Biomass | 29.02 | 0.74% | |
| | Wind | 3.10 | 0.08% | |
| | Solar | 37.34 | 0.95% | |
| | Coal | - | 0.00% | |
| | **Total** | **3,911.58** | **100.00%** | |
| Off-Grid for Sale | Hydro | - | 0.00% | 1.38% |
| | Natural Gas | 68.46 | 90.79% | |
| | GO/HFO/DO | 2.50 | 3.32% | |
| | Biomass | - | 0.00% | |
| | Wind | - | 0.00% | |
| | Solar | 4.44 | 5.89% | |
| | Coal | - | 0.00% | |
| | **Total** | **75.41** | **100.00%** | |
| Own-Use | Hydro | - | 0.00% | 16.83% |
| | Natural Gas | 257.49 | 27.91% | |
| | GO/HFO/DO | 167.07 | 18.11% | |
| | Biomass | 202.59 | 21.96% | |
| | Wind | - | 0.00% | |
| | Solar | 0.46 | 0.05% | |
| | Coal | 294.93 | 31.97% | |
| | **Total** | **922.54** | **100.00%** | |
| Cross-Border Import | ZAMBIA (MBALA - 66kV) | 77.01 | 8.35% | 10.46% |
| | UGANDA (MASAKA - 132kV) | 131.43 | 14.25% | |
| | UGANDA (KIKAGATI PLANT-33kV) | 59.99 | 6.50% | |
| | KENYA (ISINYA-400kV) | 304.90 | 33.05% | |
| | **Total** | **573.34** | **194.17%** | |
| Total | Hydro | 2,640.24 | 48.15% | 100.00% |
| | Natural Gas | 1,518.91 | 27.70% | |
| | GO/HFO/DO | 178.49 | 3.26% | |
| | Biomass | 231.61 | 4.22% | |
| | Wind | 3.10 | 0.06% | |
| | Solar | 42.25 | 0.77% | |
| | Coal | 294.93 | 5.38% | |
| | Cross-Boarder | 573.34 | 10.46% | |
| | **Total** | **5,482.86** | **100.00%** | |

## Annex 16: Availability by Ownership

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| DESCRIPTION | ENTITY DESCRIPTION AND CROSS BOARDER IMPORTS | AVAILABILITY (MW) | AVAILABILITY (%) | CONTRIBUTION (%) | |
|---|---|---|---|---|---|
| Main Grid for Sale | TANESCO | 3,554.56 | 43.01% | 93.82% | |
| | Large Power Producer - Private Entities (≥10MW) | 189.00 | 100.00% | 4.99% | |
| | Small Power Producer - Private Entities ((>0.1MW & ≤10MW & ) | 45.09 | 72.88% | 1.19% | 87.87% |
| | Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW) | - | N/A | 0.00% | |
| | **AVERAGE** | **3,788.65** | **71.96%** | **100%** | |
| Off Grid for Sale | TANESCO | 79.06 | 86.36% | 98.91% | |
| | Large Power Producer - Private Entities (≥10MW) | - | N/A | 0.00% | |
| | Small Power Producer - Private Entities ((>0.1MW & ≤10MW & ) | - | N/A | 0.00% | 1.85% |
| | Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW) | 0.87 | 40.67% | 1.09% | |
| | **AVERAGE** | **79.93** | **63.51%** | **100%** | |
| Own-Use | Private Entities | 356.17 | 83.50% | 94.66% | |
| | Public Entities | 20.09 | 92.90% | 5.34% | 8.73% |
| | **AVERAGE** | **376.25** | **88.20%** | **100%** | |
| Cross-Border Import | ZAMBIA (MBALA - 66kV) | 20.00 | 100.00% | 29.85% | |
| | UGANDA (MASAKA - 132kV) | 36.00 | 100.00% | 53.73% | |
| | UGANDA (KIKAGATI PLANT-33kV) | 7.00 | 100.00% | 10.45% | 1.55% |
| | KENYA (ISINYA-400kV) | 4.00 | 100.00% | 5.97% | |
| | **AVERAGE** | **67.00** | **100.00%** | **100%** | |
| Total | TANESCO | 3,633.61 | 49.86% | 84.27% | |
| | Large Power Producer - Private Entities (≥10MW) | 189.00 | 100.00% | 4.38% | |
| | Small Power Producer - Private Entities ((>0.1MW & ≤10MW & ) | 45.09 | 72.88% | 1.05% | |
| | Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW) | 0.87 | 40.67% | 0.02% | 100.00% |
| | Own-Use | 376.25 | 84.67% | 8.73% | |
| | Cross-Border Import | 67.00 | 100.00% | 1.55% | |
| | **AVERAGE** | **4,311.83** | **74.68%** | **100.00%** | |

## Annex 17: Contribution of Small Power Project in the Installed Capacity

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**SECTION 1: SUMMARY**

| S/N | Description | Installed Capacity (MW) | Energy (GWh) | Available Capacity (MW) | Availability (%) | Utilization (%) | Capacity Factor (%) | Number of Entities/Plants |
|---|---|---|---|---|---|---|---|---|
| Part A | TANESCO | 3,885.25 | 3,862.23 | 3,885.25 | 82.37% | 46.99% | 39.21% | 38 |
| Part B | Large Power Producer - Private Entities (≥10MW) | 189.00 | - | - | 100.00% | N/A | N/A | 1 |
| Part C | Small Power Producer - Private Entities ((>0.1MW & ≤10MW & ) | 82.91 | 120.31 | 81.91 | 75.98% | 29.69% | N/A | 20 |
| Part D | Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW) | 2.21 | 4.44 | 2.21 | 40.67% | 23.00% | N/A | 6 |
| Part E | Own-Use | 462.53 | 922.54 | 462.53 | 84.67% | 37.74% | N/A | 35 |
| Part F | Cross-Boarder | 67.00 | 573.34 | 67.00 | 100.00% | 100.00% | N/A | 4 |
| **Total** | **NA** | **4,688.89** | **5,482.86** | **4,498.89** | **NA** | **NA** | **NA** | **104** |
| **Average** | **NA** | **NA** | **NA** | **NA** | **80.62%** | **47.49%** | **39.21%** | |

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**SECTION 2: DETAILS**

| S/N | Power Plant Name | Ownership | Licensee Name | Region | Fuel | Usage | Installed Capacity (MW) | Energy (GWh) | Available Capacity (MW) | Availability (%) | Utilization (%) | Caoacity Factor (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Part A** | **TANESCO** | | | | | | | | | | | |
| 1 | Julius Nyerere Hydro Power Plant | Public | TANESCO | Morogoro | Hydro | Sale | 2,115.00 | 1,786.70 | 2,115.00 | 78% | 45% | 43% |
| 2 | Kidatu Hydro Power Plant | Public | TANESCO | Morogoro | Hydro | Sale | 204.00 | 323.08 | 157.00 | 76% | 93% | 38% |
| 3 | Kihansi Hydro Power Plant | Public | TANESCO | Morogoro | Hydro | Sale | 180.00 | 184.70 | 180.00 | 99% | 46% | 49% |
| 4 | Mtera Hydro | Public | TANESCO | Iringa | Hydro | Sale | 80.00 | 160.32 | 80.00 | 99% | 91% | 73% |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Power Plant | | | | | | | | | | | |
| 5 | New Pangani Falls Hydro Power Plant | Public | TANESCO | Tanga | Hydro | Sale | 68.00 | 94.35 | 58.00 | 79% | 74% | 58% |
| 6 | Hale Hydro Power Plant | Public | TANESCO | Tanga | Hydro | Sale | 21.00 | - | - | | | |
| 7 | Nyumba ya Mungu Hydro Power Plant | Public | TANESCO | Kilimanjaro | Hydro | Sale | 8.00 | 17.47 | 8.00 | 97% | 99% | 54% |
| 8 | Uwemba Hydro Power Plant | Public | TANESCO | Njombe | Hydro | Sale | 0.84 | 0.43 | 0.52 | 35% | 37% | 4% |
| 9 | Ubungo Gas Power Plant-1 | Public | TANESCO | Dar es Salaam | Gas | Sale | 102.00 | 126.11 | 73.40 | 64% | 78% | 61% |
| 10 | Tegeta Gas Power Plant | Public | TANESCO | Dar es Salaam | Gas | Sale | 45.00 | 59.43 | 42.20 | 73% | 64% | 62% |
| 11 | Ubungo Gas Power Plant-2 | Public | TANESCO | Dar es Salaam | Gas | Sale | 129.00 | 156.76 | 129.00 | 58% | 55% | 75% |
| 12 | Ubungo Gas Power Plant-3 | Public | TANESCO | Dar es Salaam | Gas | Sale | 73.31 | 108.98 | 73.31 | 93% | 67% | 61% |
| 13 | Kinyerezi Gas Power Plant-1 (Extention) | Public | TANESCO | Dar es Salaam | Gas | Sale | 335.00 | 296.70 | 308.00 | 94% | 44% | 42% |
| 14 | Kinyerezi Gas Power Plant-2 | Public | TANESCO | Dar es Salaam | Gas | Sale | 248.22 | 444.98 | 237.38 | 94% | 85% | 80% |
| 15 | ZUZU Diesel Power plant | Public | TANESCO | Dodoma | Diesel | Sale | 7.44 | - | 7.45 | 100% | | |
| 16 | Nyakato Diesel Power Plant | Public | TANESCO | Mwanza | Diesel | Sale | 63.00 | 8.30 | 37.80 | 60% | 7% | 6% |
| 17 | Biharamulo Thermal Power Plant | Public | TANESCO | Kagera | Diesel | Sale | 1.50 | - | - | | N/A | N/A |
| 18 | Songea Diesel Power Plant | Public | TANESCO | Ruvuma | Diesel | Sale | 5.74 | - | - | | N/A | N/A |
| 19 | Liwale Diesel | Public | TANESCO | Lindi | Diesel | Sale | 0.85 | - | - | | N/A | N/A |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Power Plant | | | | | | | | | | | |
| | 20 | Tunduru Diesel Power Plant | Public | TANESCO | Ruvuma | Diesel | Sale | 1.05 | - | - | | N/A | N/A |
| | 21 | Ludewa Diesel Power Plant | Public | TANESCO | Njombe | Diesel | Sale | 1.27 | - | - | | N/A | N/A |
| | 22 | Mbinga Diesel Power Plant | Public | TANESCO | Ruvuma | Diesel | Sale | - | - | - | | N/A | N/A |
| | 23 | Loliondo Diesel Power Plant | Public | TANESCO | Arusha | Diesel | Sale | - | - | - | | N/A | N/A |
| | 24 | Ngara Diesel Power Plant | Public | TANESCO | Kagera | Diesel | Sale | 1.25 | - | - | | N/A | N/A |
| | 25 | Kasulu Diesel Power Plant | Public | TANESCO | Kigoma | Diesel | Sale | 4.55 | - | - | | N/A | N/A |
| | 26 | Kibondo Diesel Power Plant | Public | TANESCO | Kigoma | Diesel | Sale | 2.50 | - | - | | N/A | N/A |
| | 27 | Kigoma Diesel Power Plant | Public | TANESCO | Kigoma | Diesel | Sale | 8.75 | - | - | | N/A | N/A |
| | 28 | Inyonga Diesel Power Plant | Public | TANESCO | Katavi | Diesel | Sale | 1.93 | - | - | | N/A | N/A |
| | 29 | Rusumo Hydro Power Plant | Public | TANESCO | Kagera | Hydro | Sale | 26.67 | - | - | | N/A | N/A |
| | 30 | Mtwara I Gas Power Plant | Public | TANESCO | Mtwara | Gas | Sale | 30.40 | 17.00 | 23.20 | 69% | 33% | 30% |
| | 31 | Mtwara II Gas Power Plant | Public | TANESCO | Mtwara | Gas | Sale | 40.00 | 47.99 | 40.00 | 91% | 54% | 89% |
| | 32 | Somanga Gas Plant | Public | TANESCO | Lindi | Gas | Sale | 7.50 | 3.48 | 5.10 | 68% | 31% | 6% |
| | 33 | Kishapu Solar Power Plant | Public | TANESCO | Shinyanga | Solar | Sale | 50.00 | 22.36 | 40.00 | 78% | 4% | 4% |
| | 34 | Tosamaganga Mini Hydro | Public | TANESCO | Iringa | Hydro | Sale | 1.22 | - | - | | | |
| | 35 | Bukoba | Public | TANESCO | Kagera | Diesel | Sale | | | | 100% | 1% | 1% |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Thermal Power Plant | | | | | | 2.56 | 0.05 | 2.56 | | | |
| 36 | Mafia Diesel Power Plant | Public | TANESCO | Coast | Diesel | Sale | 5.20 | 2.43 | 3.20 | 90% | 21% | 23% |
| 37 | Sumbawanga Diesel Power Plant | Public | TANESCO | Rukwa | Diesel | Sale | 5.00 | 0.03 | 5.00 | 100% | 0% | 0% |
| 38 | Mpanda Diesel Power Plant | Public | TANESCO | Katavi | Diesel | Sale | 7.50 | 0.62 | 7.50 | 100% | 4% | 4% |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | **Sub -Total** | | | | | | **3,885.25** | **3,862.23** | | **82%** | **47%** | **39%** |
| **Part B** | **Large Power Producer - Private Entities (≥10MW)** | | | | | | | | | | | |
| 1 | Songas | Private | SONGAS | Dar es Salaam | Gas | Sale | 189.00 | - | 189.00 | 100% | | |
| | | | | | | | | | | | | |
| | **Sub -Total** | | | | | | **189.00** | **-** | | **100%** | **N/A** | **N/A** |
| **Part C** | **Small Power Producer - Private Entities ((>0.1MW & ≤10MW & )** | | | | | | | | | | | |
| 1 | Andoya Hydro Electric Power Co. Ltd | Private | Andoya Hydro Electric Power Co. Ltd | Ruvuma | Hydro | Sale | 1.00 | 1.89 | 0.80 | 80% | 22% | |
| 2 | Bagamoyo Sugar Ltd-2 | Private | Bagamoyo Sugar Limited | Coast | Biomass | Sale | 1.50 | 0.10 | 1.19 | 79% | 1% | |
| 3 | Bugando natural Energy Ltd | Private | Bugando natural Energy Ltd | mwanza | Solar | Sale | 5.00 | - | - | | | |
| 4 | BXC Tanzania Ltd. - 1 | Private | BXC Tanzania Ltd (Ushetu) | Shinyanga | Solar | Sale | 5.00 | 5.00 | 1.20 | 24% | 10% | |
| 5 | BXC Tanzania Ltd. - 2 | Private | BXC Tanzania Ltd (Bukombe) | Geita | Solar | Sale | 5.00 | 7.87 | 3.30 | 66% | 30% | |
| 6 | BXC Tanzania | Private | BXC Tanzania | Geita | Solar | Sale | 10.00 | - | - | | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ltd. - 3 | | Ltd (Ushetu) | | | | | | | | | |
| 7 | BXC Tanzania Ltd. - 4 | Private | BXC Tanzania Ltd (Ushetu) | Manyara | Solar | Sale | 7.00 | - | - | | | |
| 8 | Darakuta Hydro Power Developme nt Co.Ltd | Private | Darakuta Hydro Power Developm ent Co.Ltd | Manyara | Hydro | Sale | 0.42 | 0.87 | 0.34 | 81% | 68% | |
| 9 | Luponde Hydro Ltd-1 | Private | Luponde Hydro Limited (1.06MW) | Njombe | Hydro | Sale | 1.06 | 5.05 | 0.93 | 88% | 58% | |
| 10 | Luponde Hydro Ltd-2 | Private | Luponde Hydro Limited (2MW) | Njombe | Hydro | Sale | 2.00 | 5.71 | 0.98 | 49% | 33% | |
| 11 | Madope Hydro Co. Ltd. | Private | Madope Hydro Company Limited | Njombe | Hydro | Sale | 1.84 | - | 1.62 | 88% | | |
| 12 | Matembwe Village Co.Ltd | Private | Matembwe Village Co.Ltd | Njombe | Hydro | Sale | 0.43 | 1.75 | 0.14 | 33% | 31% | |
| 13 | Mkulazi Holding Co. Ltd. - 1 | Public | Mkulazi Holding Co. Ltd. | Morogor o | Bioma ss | Sale | 7.00 | 7.31 | 6.83 | 98% | 33% | |
| 14 | Mwenga Hydro Ltd (Hydro) | Private | Mwenga Hydro Ltd (Hydro) | Iringa | Hydro | Sale | 4.00 | 19.52 | 3.32 | 83% | 31% | |
| 15 | Mwenga Hydro Ltd (Wind) | Private | Mwenga Hydro Ltd (Wind) | Iringa | Wind | Sale | 3.90 | 3.10 | 2.93 | 75% | 20% | |
| 16 | Nextgen Solawazi Ltd. | Private | Nextgen Solawazi Limited | Kigoma | Solar | Sale | 5.00 | 2.11 | 4.00 | 80% | 5% | |
| 17 | Ngombeni Power Ltd. | Private | Ngombeni Power Ltd. | Coast | Bioma ss | Sale | 1.40 | - | - | | | |
| 18 | Nishati Lutheran (DKK) Investment Ltd | Private | Nishati Lutheran (DKK) Investment Ltd | Njombe | Hydro | Sale | 0.36 | 0.92 | 0.36 | 100% | 30% | |
| 19 | Suma | Private | Suma | Mbeya | Hydro | Sale | | | | 98% | 9% | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hydro Limited | | Hydro Limited | | | | 4.50 | 3.48 | 4.41 | | | |
| 20 | Tanganyika Plantation Co. Ltd. - 1 | Private | Tanganyika Plantation Co. Ltd. | Kilimanjaro | Biomass | Sale | 9.00 | 16.61 | 5.67 | 63% | 21% | |
| 21 | Tanganyika Wattle Co. Ltd. - 1 | Private | Tanganyika Wattle Co. Ltd | Njombe | Biomass | Sale | 1.50 | 5.00 | 1.28 | 85% | 35% | |
| 22 | Tulila Hydro Electric Plant Co. Ltd. | Private | Tulila Hydro Electric Plant Co. Ltd | Ruvuma | Hydro | Sale | 5.00 | 29.59 | 4.90 | 98% | 68% | |
| | **Yovi Hydro Power Co.Ltd** | | | | | | **81.91** | **115.89** | | **76%** | **30%** | **N/A** |
| **Part D** | **Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW)** | | | | | | | | | | | |
| 1 | E.ON | Private | E.ON | Arusha | Solar | Sale | 0.03 | 0.06 | 0.01 | 23% | 23% | |
| 2 | Jumeme | Private | Jumeme | Mwanza | Solar | Sale | 1.25 | 2.52 | 0.29 | 23% | 23% | |
| 3 | Powercomer | Private | Powercomer | Arusha | Solar | Sale | 0.31 | 0.62 | 0.31 | 100% | 23% | |
| 4 | PowerHut | Private | PowerHut | Dar es Salaam | Solar | Sale | 0.44 | 0.88 | 0.23 | 52% | 23% | |
| 5 | Ruaha | Private | Ruaha | Morogoro | Solar | Sale | 0.13 | 0.26 | 0.03 | 23% | 23% | |
| 6 | Watu na Umeme | Private | Watu na Umeme | Dar es Salaam | Solar | Sale | 0.05 | 0.10 | 0.01 | 23% | 23% | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | **2.21** | **4.44** | | **41%** | **23%** | **N/A** |
| **Part E** | **Own-Use** | | | | | | | | | | | |
| 1 | ALAF Ltd. | Private | ALAF Limited | Dar es Salaam | Gas | Own-Use | 4.00 | 15.10 | 3.36 | 84% | 43% | |
| 2 | Bagamoyo Sugar Ltd-1 | Private | Bagamoyo Sugar Limited | Coast | Biomass | Own-Use | 3.50 | 15.20 | 2.07 | 59% | 35% | |
| 3 | Buckreef Gold Co. Limited | Private | Buckreef Gold Co. Ltd | Geita | Diesel | Own-Use | 4.72 | 2.40 | 4.58 | 97% | 96% | |
| 4 | Bulyanhulu | Private | Bulyanhulu | Shinyang | Diesel | Own- | | | | 68% | 4% | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Goldmine Ltd | | Goldmine Ltd | a | | Use | 40.00 | 1.37 | 27.20 | | | |
| 5 | Dangote Cement Ltd. | Private | Dangote Cement Limited | Mtwara | Gas | Own-Use | 50.00 | 194.10 | 50.00 | 100% | 44% | |
| 6 | Gas Co. (T) Ltd (Lindi) | Public | Gas Co. (T) Ltd (Lindi) | Lindi | Gas | Own-Use | 10.70 | 4.20 | 7.92 | 74% | 5% | |
| 7 | Gas Co. (T) Ltd (Mtwara) | Public | Gas Co. (T) Ltd (Mtwara) | Mtwara | Gas | Own-Use | 3.16 | 8.00 | 3.16 | 100% | 31% | |
| 8 | Geita Gold Mining Ltd. | Private | Geita Gold Mining Ltd. | Geita | Diesel | Own-Use | 47.00 | 116.00 | 46.53 | 99% | 28% | |
| 9 | Goodwill Tanzania Ceramic Co. Ltd | Private | Goodwill Tanzania Ceramic Co. Ltd | Coast | Gas | Own-Use | 16.70 | - | - | | | |
| 10 | Kagera Sugar Ltd. | Private | Kagera Sugar Ltd. | Kagera | Biomass | Own-Use | 27.20 | 34.77 | 24.21 | 89% | 15% | |
| 11 | Kiliflora | Private | Kiliflora | Arusha | Solar | Own-Use | 0.23 | 0.46 | 0.05 | 23% | 23% | |
| 12 | Kilombero Plantations Ltd. | Private | Kilombero Plantations Limited | Morogoro | Biomass | Own-Use | 1.69 | 4.91 | 1.52 | 90% | 34% | |
| 13 | Kilombero Sugar Co. Ltd-1 | Private | Kilombero Sugar Company Limited | Morogoro | Biomass | Own-Use | 41.00 | 2.31 | 41.00 | 100% | 16% | |
| 14 | Kilombero Sugar Co. Ltd-2 | Private | Kilombero Sugar Company Limited | Morogoro | Biomass | Own-Use | 10.00 | 26.00 | 7.00 | 70% | 30% | |
| 15 | Kilombero Sugar Co. Ltd-3 | Private | Kilombero Sugar Company Limited | Morogoro | Diesel | Own-Use | 0.80 | - | 0.56 | 70% | 30% | |
| 16 | Kioo Ltd-1 | Private | Kioo Ltd | Dar es Salaam | Gas | Own-Use | 8.00 | 24.53 | 7.44 | 93% | 35% | |
| 17 | Kioo Ltd-2 | Private | Kioo Ltd | Dar es Salaam | Diesel | Own-Use | 4.20 | - | - | | | |
| 18 | Lake Cement Ltd. | Private | Lake Cement Ltd. | Dar es Salaam | Coal | Own-Use | 15.40 | 56.50 | 14.17 | 92% | 64% | |
| 19 | Maweni Limestone Ltd. | Private | Maweni Limestone Ltd. | Tanga | Coal | Own-Use | 30.00 | 238.43 | 27.90 | 93% | 92% | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20 | Mkulazi Holding Co. Ltd. - 2 | Public | Mkulazi Holding Co. Ltd. | Morogoro | Biomass | Own-Use | 8.00 | - | 7.81 | 98% | 33% | |
| | 21 | Mtibwa Sugar Estates Ltd | Private | Mtibwa Sugar Estates Ltd | Morogoro | Biomass | Own-Use | 15.00 | 25.53 | 12.45 | 83% | 80% | |
| | 22 | Mufindi Paper Mills Ltd | Private | Mufindi Paper Mills Ltd | Iringa | Biomass | Own-Use | 10.40 | 37.17 | 9.67 | 93% | 58% | |
| | 23 | Nasra | Private | Nasra | Dar es Salaam | Diesel | Own-Use | 0.80 | 1.61 | 0.18 | 23% | 23% | |
| | 24 | North Mara Goldmine Ltd | Private | North Mara Goldmine Ltd | Mara | Diesel | Own-Use | 18.00 | 0.38 | 17.64 | 98% | 12% | |
| | 25 | Nyati Mineral Sands Ltd. | Private | Nyati Mineral Sands Ltd. | Dar es Salaam | Diesel | Own-Use | 2.00 | 0.63 | 1.70 | 85% | 4% | |
| | 26 | SBC Tanzania Ltd. | Private | SBC Tanzania Ltd. | Dar es Salaam | Diesel | Own-Use | 4.50 | 0.85 | 4.46 | 99% | 3% | |
| | 27 | Shanta Mine Co. Ltd | Private | Shanta Mine Co. Ltd | Mbeya | Diesel | Own-Use | 8.20 | 38.46 | 8.19 | 100% | 60% | |
| | 28 | Stamigold Co. Ltd. | Private | Stamigold Company Limited | Kagera | Diesel | Own-Use | 7.00 | 1.22 | 6.86 | 98% | 60% | |
| | 29 | Tanga Cement Public Ltd. Co. | Private | Tanga Cement Public Limited Company | Tanga | Diesel | Own-Use | 11.48 | 1.17 | 9.76 | 85% | 1% | |
| | 30 | Tanganyika Plantation Co. Ltd. - 2 | Private | Tanganyika Plantation Co. Ltd. | Kilimanjaro | Biomass | Own-Use | 33.50 | 56.70 | 22.45 | 67% | 21% | |
| | 31 | Tanganyika Wattle Co. Ltd. - 2 | Private | Tanganyika Wattle Co. Ltd | Njombe | Biomass | Own-Use | 0.50 | 0.00 | 0.43 | 85% | 35% | |
| | 32 | Tanzania Cigarette Public Ltd. Co. | Private | Tanzania Cigarette Public Ltd. Co. | Dar es Salaam | Gas | Own-Use | 4.70 | 7.52 | 4.47 | 95% | 18% | |
| | 33 | Tanzania Petroleum Development | Public | Tanzania Petroleum Development | Dar es Salaam | Gas | Own-Use | 1.20 | 4.04 | 1.20 | 100% | 76% | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Corporation | | Corporation | | | | | | | | | | |
| 34 | Tanzania Portland Cement PLC-1 | Private | Tanzania Portland Cement PLC | Dar es Salaam | Diesel | Own-Use | 3.61 | - | - | | | | |
| 35 | Tanzania Portland Cement PLC-2 | Private | Tanzania Portland Cement PLC | Dar es Salaam | Solar | Own-Use | 15.00 | - | - | | | | |
| 36 | Tembo | Private | Tembo | Kagera | Diesel | Own-Use | 0.34 | 2.98 | 0.34 | 100% | 100% | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | **Sub -Total** | | | | | | **462.53** | **922.54** | | **85%** | **38%** | **N/A** | |
| **Part F** | **Cross-Boarder** | | | | | | | | | | | | |
| 1 | KENYA (ISINYA-400kV) | Cross-Boarder | Cross-Boarder | Arusha | Cross-Boarder | Cross-Boarder | 4.00 | 304.90 | 4.00 | 100% | 100% | | |
| 2 | UGANDA (KIKAGATI PLANT-33kV) | Cross-Boarder | Cross-Boarder | Kagera | Cross-Boarder | Own-Use | 7.00 | 59.99 | 7.00 | 100% | 100% | | |
| 3 | UGANDA (MASAKA - 132kV) | Cross-Boarder | Cross-Boarder | Kagera | Cross-Boarder | Own-Use | 36.00 | 131.43 | 36.00 | 100% | 100% | | |
| 4 | ZAMBIA (MBALA - 66kV) | Cross-Boarder | Cross-Boarder | Rukwa | Cross-Boarder | Own-Use | 20.00 | 77.01 | 20.00 | 100% | 100% | | |
| | **Sub -Total** | | | | | | **67.00** | **573.34** | | **100%** | **100%** | **N/A** | |

## Annex 18: Details of Transmission Line Infrastructure

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| S/N | VOLTAGE LEVELS (kV) | TRANSMISSION LINE ROUTE LENGTH (KM) |
|---|---|---|
| 1 | 400kV | 1,869.75 |
| 2 | 220kV | 3,856.22 |
| 3 | 132kV | 2,325.57 |
| 4 | 66kV | 580.00 |
| | **Total** | **8,631.54** |

| S/N | Name of Transmission Line | TRANSMISSION LINE ROUTE LENGTH (KM) - 400kV |
|---|---|---|
| 1 | 400kV Iringa-Dodoma 1 | 225.00 |
| 2 | 400kV Dodoma-Singida 1 | 164.00 |
| 3 | 400kV Singida-Shinyanga 1 | 282.00 |
| 4 | 400kV Singida-Lemugur | 300.00 |
| 5 | 400kV Lemugur -Isinya | 114.00 |
| 6 | 400kV JNHPP -New CH1 | 159.75 |
| 7 | 400kv-Nyakanazi-Kidahwe | 280.00 |
| 8 | 400kV Chalinze-Dodoma | 345.00 |
| | **Total** | **1,869.75** |

| S/N | Name of Transmission Line | TRANSMISSION LINE ROUTE LENGTH (KM) - 220kV |
|---|---|---|
| 1 | 220kV Ubungo-Luguruni | 15.00 |
| 2 | 220kV Ubungo-Kinyerezi | 15.00 |
| 3 | 220kV Luguruni-New Chalinze | 68.00 |
| 4 | 220kV Kinyerezi-New Chalinze | 83.00 |
| 5 | 220kV Morogoro-New Chalinze 1 | 89.00 |
| 6 | 220kV Morogoro-New Chalinze 2 | 89.00 |
| 7 | 220kV Morogoro-Kidatu 1 | 128.00 |
| 8 | 220kV Morogoro-Kidatu 2 | 130.00 |
| 9 | 220kV Kidatu-Iringa | 160.00 |
| 10 | 220kV Kidatu-Ifakara | 116.00 |
| 11 | 220kV Ifakara-Kihansi | 64.00 |
| 12 | 220kV Kihansi-Iringa | 96.50 |
| 13 | 220kV Iringa-Mufindi | 130.00 |
| 14 | 220kV Iringa-Mtera | 107.00 |
| 15 | 220kV Mtera-Dodoma | 130.00 |
| 16 | 220kV Dodoma-Singida old | 210.00 |
| 17 | 220kV Singida/Shinyanga old | 200.00 |
| 18 | 220kV Shinyanga-Mwanza | 140.00 |
| 19 | 220kV Shinyanga-Bulyanhulu | 129.46 |
| 20 | 220kV Mufindi-Makambako | 38.90 |
| 21 | 220kV Makabako-Madaba | 110.00 |
| 22 | 220kV Makambako-Mbeya | 181.10 |
| 23 | 220kV Madaba-Songea | 140.00 |
| 24 | 220kV Singida-Babati | 150.00 |
| 25 | 220kV Babati-Lemugur | 146.00 |
| 26 | 220kV Lemugur-Njiro | 16.00 |
| 27 | 220kV Shinyanga-Buzwagi | 108.00 |
| 28 | 220kV-Bulyanhuru-Geita | 55.00 |
| 29 | 220kV-Geita-Nyakanazi | 143.16 |
| 30 | 220kV-Nyakanazi-Rusumo | 94.10 |
| 31 | 220kv-SGR Dar - Moro | 159.00 |
| 32 | 220kv-SGR Msanvu (Morogoro)-Ihumwa (Dodoma)-Kintinku (Dodoma)-Zuzu (Dodoma) | 415.00 |
| | **Total** | **3,856.22** |

| S/N | Name of Transmission Line | TRANSMISSION LINE ROUTE LENGTH (KM) - 132kV |
|---|---|---|
| 1 | 132kV Ubungo-New Chalinze | 92.00 |
| 2 | 132kV New Chalinze/Old Chalinze | 5.00 |
| 3 | 132kV Morogoro-Chalinze | 82.00 |
| 4 | 132kV Chalinze-Hale | 175.00 |

| | | |
|---|---|---|
| 5 | 132kV Ilala-Jangwani(OHL) | 1.30 |
| 6 | 132kV Jangwani-NCC(UNDERGROUND) | 1.80 |
| 7 | 132kV Ilala-Kurasini | 7.10 |
| 8 | 132kV Ubungo-Ilala 1ST | 9.50 |
| 9 | 132kV Ubungo-Ilala 2ND | 9.50 |
| 10 | 132kV Ubungo-Kunduchi 1ST | 12.00 |
| 11 | 132kV Ubungo-Kunduchi 2ND | 12.00 |
| 12 | 132kV Ubungo-Makumbusho | 7.00 |
| 13 | 132kV Kunduchi-Zanzibar 1 | 64.00 |
| 14 | 132kV Kunduchi-Zanzibar 2 | 63.60 |
| 15 | 132kV Mwanza-Musoma | 210.00 |
| 16 | 132kV Musoma-Nyamongo | 90.00 |
| 17 | 132kV Shinyanga-Tabora | 203.00 |
| 18 | 132kV Kiyungi-Kia 1ST | 35.00 |
| 19 | 132kV Kiyungi-Kia 2ND | 35.00 |
| 20 | 132kV Kia-Njiro 1ST | 35.00 |
| 21 | 132kV Kia-Njiro 2ND | 35.00 |
| 22 | 132kV Makumbusho-NCC | 6.67 |
| 23 | 132kV Gongo la Mboto-Kinyerezi | 3.00 |
| 24 | 132kV Ubungo-Kipawa | 12.00 |
| 25 | 132kV Kipawa-Mbagala | 7.40 |
| 26 | 132kV-Mbagala-Gongolamboto | 16.20 |
| 27 | 132kV-Mbagala-Dege | 28.00 |
| 28 | 132kV-Dege-Kurasini | 22.00 |
| 29 | 132kV Rhino-Tanga | 8.50 |
| 30 | 132kV Hale-Rhino | 51.50 |
| 31 | 132kV Pangani-Tanga | 60.00 |
| 32 | 132kV Hale-NPF | 8.50 |
| 33 | 132kV Kyaka-Bukoba | 54.00 |
| 34 | 132kV Hale-Kiyungi | 275.00 |
| 35 | 132kV Mtwara-Mahumbika | 80.00 |
| 36 | 132kV-Mtukula-Kyaka | 115 |
| 37 | 132kV Tabora-Urambo | 102 |
| 38 | 132kV Tabora-Ipole | 133 |
| 39 | 132kV Ipole-Inyonga | 125.00 |
| 40 | 132kV Kunduci-Wazo | 3 |
| 41 | 132kV MTUKULA- KYAKA | 30 |
| | **Total** | **2,325.57** |

| S/N | Name of Transmission Line | TRANSMISSION LINE ROUTE LENGTH (KM) - 132kV |
|---|---|---|
| 1 | 66kV Kiyungi-Nyumba ya Mungu | 53.00 |
| 2 | 66kV Kiyungi-Arusha | 78.00 |
| 3 | 66kV Kiyungi-Makuyuni | 34.00 |
| 4 | 66kV Babati-Kondoa | 85.00 |
| 5 | 66kV Babati-Mbulu | 85.00 |
| 6 | 66kV Mbulu-Karatu | 65.00 |
| 7 | 66KV Bunda-Kibara | 60.00 |
| 8 | 66kV Mbala-Sumbawanga | 120.00 |
| | **Total** | **580.00** |

## Annex 19: Details of Grid Substation Infrastructure

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| S/N | Name of Substation (400/220/132/66kV) | Installed Capacity (MVA) |
|---|---|---|
| 1 | Lemugur | 250 |
| 2 | Singida | 250 |
| 3 | Dodoma | 310 |
| 4 | Chalinze | 1,000 |
| 5 | JNHPP | 250 |
| 6 | Ubungo 220kV | 900 |
| 7 | Msamvu | 260 |
| 8 | Kidatu | 68 |
| 9 | Ifakara | 20 |
| 10 | Tagamenda | 53 |
| 11 | Mufindi | 70 |
| 12 | Makambako | 30 |
| 13 | Madaba | 30 |
| 14 | Songea | 60 |
| 15 | Mbeya | 150 |
| 16 | Shinyanga | 170 |
| 17 | Bulyanhulu | 140 |
| 18 | Buzwagi | 60 |
| 19 | Mwanza | 235 |
| 20 | Mabuki | 45 |
| 21 | Babati | 66 |
| 22 | Njiro | 210 |
| 23 | Mpomvu-Geita | 100 |
| 24 | Nyakanazi | 80 |
| 25 | Kidahwe | 60 |
| 26 | Luguruni | 180 |
| 27 | Kinyerezi1 | 350 |
| 28 | Kinyerezi2 | 225 |
| 29 | Kihansi | 10 |
| 30 | Mtera | 20 |
| 31 | 132-Ubungo | 180 |
| 32 | Kunduchi | 180 |
| 33 | Makumbusho | 135 |
| 34 | NCC | 100 |
| 35 | Ilala | 180 |
| 36 | Kipawa | 180 |
| 37 | Malandizi | 250 |
| 38 | Chalinze | 45 |
| 39 | Tabora | 75 |
| 40 | Uhuru/Urambo | 35 |
| 41 | Ipole | 15 |
| 42 | Inyonga | 15 |
| 43 | Mpanda | 35 |
| 44 | Lusu | 15 |
| 45 | Bunda | 20 |
| 46 | Musoma | 75 |
| 47 | Nyamongo | 90 |
| 48 | KIA | 40 |
| 49 | Kiyungi | 90 |
| 50 | Same | 15 |
| 51 | Mwanga | 20 |
| 52 | Kasiga | 25 |
| 53 | Kange | 50 |
| 54 | Majani Mapana | 95 |
| 55 | Mbagala | 170 |
| 56 | Gongolamboto | 120 |
| 57 | Kurasini | 50 |
| 58 | Dege-Kigamboni | 60 |
| 59 | Maweni | 47 |
| 60 | Mahumbika | 35 |
| 61 | Mtwara | 30 |
| 62 | Kyaka | 40 |

| S/N | Name of Substation (400/220/132/66kV) | Installed Capacity (MVA) |
|---|---|---|
| 63 | Kibeta | 70 |
| 64 | Hale | 30 |
| 65 | NPF | 80 |
| 66 | Kibara | 5 |
| 67 | Kondoa | 17 |
| 68 | Mbulu | 8 |
| 69 | Karatu | 18 |
| 70 | Makuyuni | 20 |
| 71 | Sumbawanga | 35 |
| 72 | NYM | 15 |
| | | |

## Annex 20: Transmission Infrastructure Projects

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| S/N | Project Name | Project Type | Voltage level (kV) | Length(km)/Capacity (MVA) | Progress (%) |
|---|---|---|---|---|---|
| 1. | 160Km, 400kv from JNHPP-Chalinze | Line | 400 | 160 | 100% |
| 2. | 400/220/132KV at Chalinze | Substation | 400/220/132 | 250 | 99% |
| 3. | 345Km, 400kV from Chalinze-Dodoma (Lot 1) | Line | 400 | 345 | 100% |
| 4. | 400KV bay extension at Chalinze, Dodoma and Dundani(Lot 2) | Reactor | 400/220/132/33 | 340 | 61% |
| 5. | SGR Lot 5 from Isaka to Nyakato (232Km) | Line | 220 | 232 | 2% |
| 6. | 214Km, 220KV from Songea to Tunduru (Lot 1) | Line | 220 | 214 | 50% |
| 7. | 220/33KV, 2x60MVA Substation at Tunduru (Lot 2) | Substation | 220/33 | 120 | 49% |
| 8. | 177Km, 220KV from Tunduru to Masasi (Lot 1) | Line | 220 | 177 | 33% |
| 9. | 220/33KV, 2x60MVA Substation at Masasi (Lot 2) | Substation | 220/33 | 120 | 33% |
| 10. | | | | | |
| 11. | 109Km, 220kV from Shinyanga to Simiyu (Lot 1) | Line | 220 | 109 | 58% |
| 12. | 220/33kV, 2x90MVA at Bariadi (Lot 2) | Substation | 220 | 180 | 0% |
| 13. | 47Km, 220kV from Pugu to Dundani (Lot 1) | Line | 220 | 51 | 13% |
| 14. | 220/33kV, 2x120MVA at Dundani (Lot 2) | Substation | 220 | 240 | 11% |
| 15. | 220kV from Kimara to Mabibo (Lot 1) | Line | 220 | 17 | 57% |
| 16. | 2x200MVA, 220/132kV at Mabibo and 300MVA, 220/33kV GIS at Ubungo (Lot 2) | Substation | 220/132/33 | 880 | 84% |
| 17. | 220kV from Ubungo to Ununio (Lot 1) | Line | 220 | 18 | 34% |
| 18. | 220/132/33kV, 2x120MVA GIS at Ununio (Lot 2) | Substation | 220 | 240 | 2% |
| 19. | 5.2km, 220kV and 220/33kv, 2x120MVA at Zegereni Industrial Area | Substation | 220 | 240 | 2.5% |
| 20. | 132kV from Urambo to Kidahwe (Tabora to Kigoma phase II) | Line | 132 | 280 | 57% |
| 21. | 143km, 132kV from Mkata to Kilindi (Lot 1) | Line | 132 | 144 | 33% |
| 22. | 132/33kV, 2x60MVA at Kilindi (Lot 2) | Substation | 132/33 | 120 | 35% |
| 23. | 132/33kV, 2x60MVA at Mkata (Lot 1) | Substation | 132/33 | 120 | 28% |
| 24. | 33kV from Mkata to Kwamsisi (Lot 2) | Line | 33 | 45 | 22% |
| 25. | 98.6m, 132kV from Bunda to Ukerewe (Lot 1) | Line | 132 | 99 | 27% |
| 26. | 132/33kV, 2x45MVA at Ukerewe (Lot 2) | Substation | 132/33 | 90 | 46% |

| | | | | | |
|---|---|---|---|---|---|
| 27. | 61.310km, 132kV from Kiyungi to Rombo (Lot 1) | Line | 132 | 61 | 30% |
| 28. | 132/33kV, 2x45MVA at Rombo (Lot 2) | Substation | 132/33 | 90 | 13% |
| 29. | 37km, 132kV from Kasiga to Lushoto (Lot 1) | Line | 132 | 37 | 15% |
| 30. | 132/33kV, 2x30MVA at Lushoto (Lot 2) | Substation | 132/33 | 60 | 13% |
| 31. | 132/33kv, 120MVA at Dege | Substation | 132/33 | 120 | 78% |
| 32. | 208km, 33kV from Lemugur substation | Line | 33 | 208 | 62% |
| 33. | 106km, 400kV from Iringa to Kisada (Lot 1) | Line | 400 | 106 | 99% |
| 34. | 185km, 400kV from Kisada to Mbeya (Lot 2) | Line | 400 | 185 | 89% |
| 35. | 122km, 400kV from Mbeya to Tunduma (Lot 3) | Line | 400 | 122 | 98% |
| 36. | 203km, 400kV from Tunduma to Sumbawanga (Lot 4) | Line | 400 | 203 | 99% |
| 37. | 400/220/33kV at Iringa and Kisada (Lot 1) | Substation | 400/220/33 | 1,270 | 75% |
| 38. | 400/220/33kV at Mbeya and Tunduma (Lot 2) | Substation | 400/220/33 | 1,500 | 76% |
| 39. | 400/220/33kV at Sumbawanga (Lot 3) | Substation | 400/220/33 | 480 | 76% |
| 40. | 400/330kV at Tunduma and 4km to Zambia Border (Lot 4) | Substation | 400/330 | 945 | 67% |
| 41. | 280km, 400kV from Nyakanazi to Kigoma (Lot 1&2) | Line | 400 | 280 | 99% |
| 42. | 400/220/132kV at Nyakanazi and Kidahwe ss | Substation | 400/220/132 | 480 | 54% |
| 43. | 138km, 400kV Chalinze to Kinyerezi to Mkuranga (Lot 1) | Line | 400 | 138 | 72% |
| 44. | 400/220/132kV at Kinyerezi, 400/220kV, 2X150MVA, 400/220/33kV,2X90 at Mkuranga and 220/33kV , 2X150MVA at Morogoro (Lot 2) | Substation | 400/220/132 | 2,355 | 52% |
| 45. | 167km, 220kV Benaco-Kyaka T/Line | Line | 220 | 167 | 14% |
| 46. | 220/33kV, 2x60MVA Benaco Substation | Substation | 220/33 | 120 | 13% |
| 47. | TTGRUP-132/33/11kV at Mlandizi, Same and Bukoba (Lot 1) | Substation | 132/33/11 | 240 | 95% |
| 48. | TTGRUP-220/33/11kV at Mbeya,Mufindi and 132/33/11kV AT Tabora (Lot 2) | Substation | 220/33/11 and 132/33/11 | 210 | 94% |
| 49. | TTGRUP-220/33kV at Mwanza and Musoma LOT 3 | Substation | 220/132/33 and 132/33 | 120 | 86% |
| 50. | TTGRUP-SCADA-EMS and Telcom Equipment | Substation | NA | - | 99% |
| 51. | 400/220/33kV at Shinyanga Substation | Substation | 400/220/33 | 880 | 57% |
| 52. | 60MVA,220/33kV at Imalilo Substation | Substation | 220/33 | 60 | 67% |
| 53. | 50MVA, 132/33kV at | Substation | 132/33 | 50 | 100% |

| | | | | | |
|---|---|---|---|---|---|
| | Mlandizi substation | | | | |
| 54. | 15MVA,33/11kV at Changombe Substation | Substation | 33/11 | 15 | 100% |
| 55. | 15MVA,132/33kV at Mahumbika Substation | Substation | 132/33 | 15 | 100% |
| 56. | 50MVA, 220/132/33KV at Ibadakuli Substation | Substation | 220/132/33 | 50 | 100% |
| 57. | 15MVA,132/33kV at KIA Substation | Substation | 132/33 | 15 | 98% |
| 58. | 132kV, 54km Malagarasi to Kidahwe Substation | Line | 132 | 54 | 100% |
| | | | | | |

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## Annex 21: Performance Agreement Key Performance Indicators

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| Description of Performance Criteria | Agreed KPI |
|---|---|
| **Part A: Accident** | |
| **Addendum 1: Accidents** | |
| (a) Fatal | 0 |
| (b) Non-Fatal | 0 |
| **Part B: Staff** | |
| **Addendum 2: Staff** | |
| a) Technical | Above 75% |
| b) Non - Technical | Above 75% |
| c) Overall Staffing | Above 75% |
| **Part C: Financial** | |
| **Addendum 3: Customer Energy Profile and Tariff charged** | |
| (a) Charging appropriate tariff | 100% |
| **Addendum 4: Collection Efficiency for Post-Paid Meter** | |
| (a) Collection efficiency | Above 96% |
| (b) Debtors Aging above 90 days - region-wise | Below 75% |
| **Addendum 5: Creditors & Debtors aging Analysis** | |
| | |
| (a) Creditors Aging above 120 days - Corporate | Below 68% |
| (b) Debtors Aging above 90 days - Corporate | Below 68% |
| **Addendum 6: Loan Status** | |
| Normal Loan | For Information |
| On-lent Loans | For Information |
| Overall Interest Rate (%) | For Information |
| **Addendum 7: Grant Status** | |
| (a) Total Grant (TZS) | For Information |
| (b) Grant Amortised (TZS) | For Information |
| (c) Grant Utilization (%) | For Information |
| **Addendum 8: Equity Implementation Status** | |
| (a) Equity per Share/Shareholder's value (TZS) | Above TZS 29.87 |
| **Addendum 9: Income Statement** | |
| (a) Gross Profit Margin = Profit before Tax / Revenue | Above 6.25% |
| (b) Operating Expense Ratio = Operating Expenses / Revenue | Below 114% |
| (c) Working ratio | Below 97% |
| (d) Generation Indicative Tariff | For Information |
| (e) Transmission Indicative Tariff | For Information |
| (f) Distribution Indicative Tariff | For Information |
| (g) Overall Indicative Tariff | For Information |
| **Addendum 10: Balance Sheet & Cashflow KPIs** | |
| (a) Debt Ratio (Total loan / Total Assets) | Below 80% |
| (b) Current Ratio (Current Assets / Current Liabilities) | Above 2 |
| (c) Quick Ratio/Acid-Test Ratio = (Current Assets - Inventories) / Current Liabilities | Above 1 |
| (d) Return on Equity (ROE) = Net Income / Shareholders' Equity | For Information |
| (e) Operating Cash Flow / Capital Expenditure | For Information |
| **Part D: Generation** | |
| **Addendum 11: Reserve Margin - Main Grid** | |
| (a) Reserve Margin | 15% - 20% |
| **Addendum 12: Power Plant Availability** | |
| (a) Overall Availability of power plant | Above 88% |
| (b) Auxiliary Use (%) | For Information |
| (c) Overall Capacity Factor (%) | For Information |
| (d) Overall Utilization (%) | For Information |
| **Capacity Factor** | |
| Coal | For Information |
| Hydro | For Information |
| Natural Gas | For Information |
| Geothermal | For Information |
| Nuclear | For Information |
| Hydrogen | For Information |
| Wind | For Information |
| Biomass | For Information |
| Solar | For Information |
| Diesel | For Information |
| **Utilization Factor** | |
| Coal | For Information |
| Hydro | For Information |
| Natural Gas | For Information |
| Geothermal | For Information |
| Nuclear | For Information |
| Hydrogen | For Information |

| | |
|---|---|
| Wind | For Information |
| Biomass | For Information |
| Solar | For Information |
| Diesel | For Information |
| **Availability Factor** | |
| Coal | For Information |
| Hydro | For Information |
| Natural Gas | For Information |
| Geothermal | For Information |
| Nuclear | For Information |
| Hydrogen | For Information |
| Wind | For Information |
| Biomass | For Information |
| Solar | For Information |
| Diesel | For Information |
| **Addendum 13: Generation Costs - (a) Generation Costs including depreciation** | |
| Coal | Below 155.82 |
| Hydro | Below 105.60 |
| Natural Gas | Below 197.87 |
| Geothermal | Below 43.99 |
| Nuclear | Below 85.86 |
| Hydrogen | Below 97.785 |
| Wind | Below 38.16 |
| Biomass | Below 45.05 |
| Solar | Below 83.21 |
| Diesel | Below 1,536 |
| Average | For Information |
| **Addendum 13: Generation Costs - (b) Fuel Cost** | |
| Coal | Below 50.35 |
| Hydro | Below 0.44 |
| Natural Gas | Below 162.18 |
| Geothermal | N/A |
| Nuclear | Below 27.295 |
| Hydrogen | Below 13.515 |
| Wind | N/A |
| Biomass | Below 9.01 |
| Solar | N/A |
| Diesel | Below 973.99 |
| Average | For Information |
| (c) Staff Cost | Below 30% |
| **Addendum 14: Implementation of Maintenance - Power Plants** | |
| (a) Cost Variation - power plant maintanance | 5% |
| (b) Completed Maintenance (%) | For Information |
| (c) Maintanance Budget Utilization (%) | For Information |
| **Addendum 15: Notification for Power Interruptions -Generation** | |
| (a) Planned Power Interruptions | 100% |
| (b) Un-planned Power Interruptions | 100% |
| (c) Load Shedding | 100% |
| **Part E: Transmission** | |
| **Addendum 16: Notification for Power Interruptions-Transmission** | |
| (a) Timely issuance of Notice of Power Interruptions | 100% |
| **Addendum 17: Electricity Transmission Losses** | |
| (a) System Losses | Below 5.88% |
| **Addendum 18: Reliability and Capacity of Transmission Line** | |
| (a) Average Frequency of transmission line interruption per year. | Below 4.57 times |
| (b) Demand to Capacity Ratio | Below 80% |
| (c) Average Duration of transmission line interruption per year. | Below 1,533 minutes |
| (d) Duration of Total Grid Failure (Minutes) | For Information |
| (e) Frequency of Total Grid Failure | For Information |
| **Addendum 19: Reliability of the Electricity on Transmission Network** | |
| (a) System Average Interruption Frequency Index at Transmission Connection Point (SAIFITCP) | Below 10 |
| (b) System Average Interruption Duration Index at Transmission Connection Point (SAIDITCP) | Below 6.5 |
| **Addendum 20: Unserved Energy** | |
| (a) Unserved energy due to load-shedding. | Below 3.44% |
| (b) Unserved energy due to fault. | Below 0.53% |
| (c) Unserved energy due to maintenance | Below 0.56% |
| (d) Total Unserved energy | Below 4.53% |
| **Addendum 21: Capacity of Grid Substation** | |
| (a) Demand to Capacity Ratio | Below 80% |
| **Addendum 22: Substation (Grid & Primary) Maintenance** | |
| (a) Cost Variation - substation maintanance | 5% |
| (b) Completed Maintenance (%) | For Information |
| (c) Maintanance Budget Utilization (%) | For Information |
| **Addendum 23: Grid System Frequency** | |
| (a) Deviation from nominal System frequency | ±2.5% |
| **Part F: Projects** | |

| | |
|---|---|
| **Addendum 24: Development and Expansion of Generation Facilities** | |
| (a) Cost Variation - generation projects | Below 5% |
| (b) Time Variation - generation projects | Below 10% |
| **Addendum 25: Development and Expansion of Transmission Line & Substations** | |
| (a) Cost Variation - transmission & projects | 5% |
| (b) Time Variation - transmission & projects | 10% |
| **Addendum 26: Net-Metering Customer** | |
| (a) Publication of the Bi-Directional Net-Metering specifications for measuring the imported and exported energy of each net-metering customer. | Publish |
| (b) Submission of the bi-directional net-metering specification. | Submit |
| **Addendum 27: Management Of Power Purchase Agreement** | |
| (a) Payment efficiency | Above 62% |
| **Part G: Distribution** | |
| **Addendum 28: Distribution Energy Losses** | |
| (a) Distribution System Losses | Below 9% |
| **Addendum 29: Electricity Distribution Projects** | |
| (a) Cost Variation - distribution projects | 5% |
| (b) Completed Project (%) | For Information |
| (c) Budget Utilization (%) | For Information |
| **Addendum 30: Reliability of Electricity Distribution System** | |
| (a) Average Frequency of Distribution Feeder interruption per year | Below 18 times |
| (b) Average Duration of Distribution line interruption per year | Below 1,106 minutes |
| (c) System Average Interruption Frequency Index (SAIFI) | Below 26 |
| (d) System Average Interruption Duration Index (SAIDI) | Below 1,536 |
| (e) Customer Average Interruption Duration Index (CAIDI) | Below 59 |
| **Addendum 31: Customer Identified Per Feeder** | |
| (a) Customers Identification with Coordinates | Above 60% |
| **Addendum 32: Inspection and Testing of Meters** | |
| (a) Annual Inspection of Larger Customer | 100% |
| (b) Annual Inspection of Other Customer | Above 50% |
| (c) Reading of Larger Customer' Meter | 100% |
| (d) Reading of Other Customer | 100% |
| **Addendum 33: Replacement of Defective Transformer** | |
| (a) Number of defective transformers | Below 361 |
| **Addendum 34: Implementation of Maintenance Plan in Electricity Distribution and Supply Network** | |
| (a) Maintenance Cost Variation | Below 5% |
| **Addendum 35: Demand to Capacity Ratio of Primary Substation** | |
| (a) Demand to Capacity Ratio | Below 80% |
| **Addendum 36: Quality of Power Supply and capacity of distribution feeder** | |
| (a) Deviation from the nominal value of medium voltage | ±5 |
| (b) Deviation from the nominal value of low voltage | ±10 |
| (c) Demand to capacity ratio of distribution feeder | <80 |
| **Addendum 37: Issuance of Service Line Quotation After Receiving Application** | |
| (a) Quotations Issued for Service Line Applications Within 30m | 100% |
| (b) Quotations Issued for Service Line Applications between 30-100m | 100% |
| (c) Quotations Issued for Service Line Applications ≥100m | 100% |
| **Addendum 38: Service Line Construction** | |
| (a) Connection of service line <30m | 100% |
| (b) Connection of service line between 30-100m | 100% |
| (c) Connection of service line ≥100m | 100% |
| **Addendum 39: Reimbursing Customers Who Financed the Construction of the Service Supply Line.** | |
| (a) Reimbursing Customers who financed the Construction of the Service Supply Line | 100% |
| (b) Publishing standard agreement form | Submit The Form |
| **Addendum 40: Construction Standards for Secondary Substations** | |
| (a) Construction of the secondary substation as per standards and industrial best practice. | 100% |
| **Addendum 41:Electrical Installation Activities** | |
| (a) All service line application forms are dully filled and signed by a licensed electrical installation personnel. | 100% |
| (b) All Service line application forms are accompanied by a copy of "as installed drawing". | 100% |
| (c) All Service line application forms are accompanied by a copy of "certificates of completion". | 100% |
| (d) installation parameters are verified before connecting power to the premise. | 100% |
| **Addendum 42: Attending Temporary Breakdown (TBs)** | |
| (a) Timely attending to Temporary Breakdown (TB) | 100% |
| **Part H: Customer Service** | |
| **Addendum 43: Customer Complaints** | |
| (a) Timely response to written customer complaints | 100% |
| **Addendum 44: Notification for Power Interruptions** | |
| (a) Timely issuance of Notice of Planned Power Interruptions | 100% |
| (b) Timely issuance of Notice of Unplanned Power Interruptions | 100% |
| **Addendum 45: Meetings with Customer Representatives** | |
| (a) Timely conducting and publicizing planned meetings with customer representatives. | 100% |
| **Addendum 46: Management of Customer Calls** | |
| (a) Calls Answered | ≥ 90% |

| Document | Requirement |
|---|---|
| a) Approved Budget | Submission |

| | |
|---|---|
| b) Implementation status of Approved Budget | Submission |
| c) Audited Financial Statements after issuance of audited accounts | Submission |
| d) Publishing standard agreement form for reimbursing customers who financed the Construction of the Service Supply Line | Publication |
| e) Publish in websites and newspapers a list of areas that have been determined to be strategic for Small Power Projects. | Publication |
| f) Publication of the Bi-Directional Net-Metering specifications for measuring the imported and exported energy of each net-metering customer. | Publication |
| | |

REFERENCE

[i] Accessible at https://www.ewura.go.tz/electricity-regulatory-tools/.