

UNITED REPUBLIC OF TANZANIA MINISTRY OF ENERGY ENERGY AND WATER UTILITIES REGULATORY AUTHORITY (EWURA)



ELECTRICITY SUB-SECTOR REGULATORY PERFORMANCE REPORT FOR THE FINANCIAL YEAR 2023/24

MARCH 2025



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CHAIRMAN STATEMENT

On behalf of the Board of Directors of the Energy and Water Utilities Regulatory Authority (EWURA), I am pleased to present the Electricity Sub-Sector Regulatory Performance Report for the Financial Year 2023/2024 that has been prepared under the legislation governing the Electricity Supply Industry.

One of EWURA's strategic objectives is to ensure improved quality, availability, reliability, and affordability of regulated electricity services. These elements are key to realizing the Tanzania Development Vision 2025 and the Sustainable Development Goals. They are also key to enhancing industrialization and clean cooking, among the country's key strategic priorities.

The Electricity Supply Industry registered various achievements during the last financial year. These include improved service delivery to customers, electricity accessibility and connectivity, infrastructure investments, licensees' operational and economic efficiency, and the quality, reliability, and affordability of regulated services.

The Authority commends the government's commitment to invest in the electricity supply industry, such as the 2115MW Julius Nyerere Hydropower Project and rural electrification programmes. Equally, EWURA acknowledges the private sector's contribution to government efforts in the development of the industry. Together, these measures have played a critical role in ensuring the security of electricity supply to marshal Tanzania's much-needed socio-economic development.

I am also greatly humbled by the continued leadership, support, and cooperation of the Ministry of Energy, Ministry of Water, and all stakeholders. I would like to assure them that EWURA is committed to delivering its vision of being a World Class Regulator for Sustainable Energy and Water Services by promoting impartiality, morality, professionalism, accountability, consistency, and transparency in its decision-making processes.

Special appreciation is extended to the President of the United Republic of Tanzania, Her Excellency, Dr. Samia Suluhu Hassan, for her leadership and guidance in the regulated sectors. Much gratitude to the Deputy Prime Minister and Minister for Energy, Hon. Doto M. Biteko (MP) for his tireless support and strategic guidance in developing the energy and water sectors.

Finally, I would like to express my gratitude to EWURA's Board of Directors, Management, and Staff of EWURA for their team spirit.

Prof. Mark J. Mwandosya BOARD CHAIRMAN

FOREWORD

The Electricity Act, Cap 131, and EWURAAct, Cap. 414 mandates EWURA to undertake technical and economic regulatory functions in the Electricity Supply Industry. Section 30(1) of the Electricity Act, Cap 131 requires the Authority to establish systems and procedures to monitor and measure licensees' performance. In addition, Section 15(4) requires licensees to submit to the Authority, data and information relating to the performance of their functions. Furthermore, Section 30(7) requires EWURA to publish reports on the performance of licensees.

This report presents the performance of regulated activities in the sub-sector from 1st July 2023 to 30th June 2024, as implemented by EWURA to, among others, promote customer service through fostering competition; promote access to, and affordability of electricity services, particularly in rural areas; and promoting least-cost investment and the security of supply for the benefit of the customer. It also includes promoting improvements in the operational and economic efficiency of the electricity supply industry and efficiency in the use of electricity; promoting appropriate standards of quality, reliability, and affordability of electricity supply; and considering the impact of the industry on the environment.

Achievements made during the period under review include, among others, an increase in installed capacity by 26.15%, customer connection by 14.52%; power demand by 11.88%; energy generation and imports by 12.20%. Others are increased transmission line by 9.84%, grid substation by 0.98%, distribution line length by 14.98%, customer connection by 12.65% and public awareness on the use of electricity for clean cooking. Also, the System Average Interruption Frequency Index (SAIFI) improved by 47.7%, the System Average Interruption Duration Index (SAIDI) by 63.9%, and energy losses by 0.04%. Furthermore, there are achievements in public projects, including a 2,235.5MW electricity generation infrastructure, a 27-transmission line (5,033km), 39 substations (3,801MVA), and 39 private sector-developed electricity generation projects (179.59MW). Such achievements could not be attained without continued support from the Government through the Ministry of Energy, TANESCO as a public regulated entity, private regulated entities, development partners, and other stakeholders. I hope this report will provide the required information to all stakeholders in the Electricity Supply Industry.

Dr. James A. Mwainyekule **DIRECTOR GENERAL**

ABBREVIATIONS AND ACRONYMS

| CAIDI Cap. COD EMC ESI ESIRSR EWURA GN GO GW GWh HFO HSE IDO IMO IPP ISO Km kV LV MoE MV MVA MVA MVA MW MVA MW MVA SAIFI SAIFI-CP SPP SPPA | Andoya Hydro Electric Power Limited Customer Average Interruption Duration Index Chapter Commercial Operation Date Electricity Supply Industry Electricity Supply Industry Reform Strategy and Roadmap Energy and Water Utilities Regulatory Authority Government Notice Gas Oil Giga Watt Gigawatt-hour Heavty Fuel Oil Health, Safety and Environment Independent Market Operator Kilometre Kilometre Kilo Volt Low Voltage Mega Watt Mega Watt Mega Watt Mega Watt System Average Interruption Duration Index System Average Interruption Frequency Index at Connection Point Small Power Producer |
|--|---|
| | |
| - | 0 |
| SPPT SGR | : Standardized Small Power Projects Tariff : Standard Gauge Railway |
| TANESCO | : Tanzania Electric Supply Company Limited |
| TANWAT | Tanganyika Wattle Company Limited |
| TBS TGP | : Tanzania Bureau of Standards : 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

This report presents the regulatory performance of the Electricity Supply Industry from 1st July 2023 to 30th June 2024. It is made under Section 30(7) of the Electricity Act, Cap. 131, which requires EWURA to publish reports on the performance of licensees including, but not limited to, quality, reliability, and security of supply, the progress of electrification, investment, efficiency of operations, and other standards of customer services.

Apart from EWURA, the institutional structure of the Electricity Supply Industry comprises the Ministry of Energy (MoE), the Rural Energy Agency (REA), Tanzania Electric Supply Company (TANESCO), and private entities.

Two regulatory Rules were developed in FY 2023/24 to monitor the performance of the Electricity Supply Industry efficiently; the Electricity (Generation Transmission and Distribution Activities) Rules, 2023, and the Electricity (Supply Services) (Amendments) Rules, 2023. During the period under review, 9,059 licenses existed, while 1,572 new permits were issued. At the time, 30 entities had licenses for generating electricity above one (1) megawatt. Apart from holding a distribution license, TANESCO, being a public entity, is the only entity licensed for electricity transmission activities. At the same time, Mwenga Power Services Limited had only a license for electricity distribution activities as of June 2024.

During the period under review, 13 entities had registered to generate electricity below one (1) megawatt, and four (4) projects that account for 736MW, had approval for the Initiation of Procurement of New Electricity Supply Installations to develop power plants in partnership with TANESCO.

The Authority had approved 59 Power Purchase Agreements (PPA) as of June 2024, out of which, 27 were approved during FY2023/24 while seven (7) entities had tariff orders to sell electricity to end-user customers. Likewise, the Electricity (Standardized Small Power Projects Tariff) Order, 2019 continues to exist as an indicative tariff for Small Power Producers (SPP) to generate electricity between 100kW to 10MW for selling to the grid.

The installed capacity increased by 499.87 MW (26.2%) from 1,911.46MW in FY2022/23 to 2,411.33MW in FY2023/24 while maximum demand increased by 174.73MW (12.%) from 1,470.50MW in FY 2022/2023, to 1,645.23MW in FY 2023/2024. Further, the energy generation and imports increased by 1,203.63GWh (12.2%) from 9,864.77GWh in 2022/23 to 11,068.40 GWh in FY 2023/2024. Furthermore, the energy generation mix comprised natural gas (67.1%), hydropower (32.4%), liquid fuel (0.5%), and biomass (0.01%) in FY 2023/24.

The transmission line increased by 674km (9.84%) from 6,850km in FY2022/23 to 7,524km in FY2023/2024, while the grid substations increased by 4 (6.4%) from 63 in FY2022/2023 to 67 in 2023/2024. Further, the distribution line length increased by 24,521.67 km (15%) from 163,744.56 km in FY2022/23 to 188,266.23 km in FY2023/24.

Customers connected to the distribution network increased by 559,595 (12.7%) from 4,422,664 in FY2022/23 to 4,982,259 in FY2023/24. The reliability of electricity supply improved, whereby, the System Average Interruption Frequency Index (SAIFI) improved by 12 (48%), from 26 in FY2022/23 to 14 in FY2024. The System Average Interruption Duration Index (SAIDI) improved by 982 minutes (64%) from 1,536 in FY2022/23 to 554 in FY2023/24.

Investment in electricity infrastructure improved, and several projects were under development to ensure the security of the electricity supply. Under the public sector, four (4) power generation infrastructures, accounting for 2,235.5MW, and 27 transmission lines (5,033km) were developed. The public sector also developed 39 grid substations (3,801MVA), while the private sector developed 39 electricity generation projects worth 179.59MW.

The use of electricity for clean cooking was promoted to ensure that 80% of households use clean energy, including electricity for cooking by 2034. It includes strategies that focus on increasing accessibility and connectivity of electricity supply, availability of energy-efficient equipment, as well as policies and regulatory frameworks that incentivize affordability of electricity supply.

Market competition analysis indicates that TANESCO accounts for 91% and 83% of the installed capacity and energy generation in the electricity generation market share respectively. Likewise, it accounts for a 100% market share in electricity transmission activities. Furthermore, it accounts for 99.5% of customers and 99.5% of distribution infrastructures.

TANESCO electricity sales to general Usage Customers (T1), i.e residential, small commercial, and light industrial use, public lighting, and billboards contributed to 50%, while high voltage customers (T3) contributed to 38%. The low voltage supply (T2) customers metered at 400V with an average consumption of not more than 7,500kWh per meter reading period and demand not exceeding 500kVA per meter reading period, contributed 10% and Domestic Low Usage (D1) who on average consume less than 75kWh per month contributed to 2% of the total electricity sales. The consumption pattern of power remained the same as in the previous financial year

In complaint handling, during the period, 146 complaints and disputes between TANESCO and its respective customers were resolved.

During the year under review, the electricity supply industry experienced several challenges, including inadequate rainfall in water catchment areas. The situation affected the performance of hydropower plants at a time when emerging trends such as clean cooking, electric mobility, and standard gauge railways increased the electricity demand and enhanced the need for a robust regulatory framework. To address these challenges, the government in collaboration with stakeholders is working to improve the sustainability of the electricity supply industry

1. INTRODUCTION

Electricity plays a vital role in socio-economic development. Thus, the government has established institutions in the Electricity Supply Industry to ensure the availability and affordability of electricity supply services at acceptable quality standards in line with legislation and national development agendas.

The institutions include the Ministry of Energy, which provides an overall supervisory role in the electricity supply industry, REA for rural electrification, TANESCO for conducting regulated activities, and EWURA for providing technical and economic regulation. The industry also includes private entities that conduct regulated activities.

EWURA exercises its power in line with section 5 of the Electricity Act. It awards licenses for undertaking or seeking to undertake a licensed activity, approves and enforces tariffs and fees charged by licensees, approves licensees' terms and conditions of electricity supply, and approves initiation of the procurement of new electricity supply installations.

EWURA executes its function in line with section 6 of the Electricity Act. It protects customers' interests through the promotion of competition, accessibility, and affordability of electricity services; least-cost investment and the security or supply; improvements in the operational of the electricity supply industry and efficiency in the use of electricity; appropriate standards of quality, reliability, and affordability of electricity supply; and environment conservation.

This report presents the electricity sub-sector regulatory performance for the Financial Year 2023/2024, particularly in the generation, transmission, distribution, supply, and cross-border trade. It is in line with section 30 of the Electricity Act which requires EWURA to monitor, measure, and publish the performance of the regulated entities.

2. OVERVIEW OF THE ELECTRICITY SUPPLY INDUSTRY

An overview of the electricity supply industry is presented in this section. It consists of an institutional structure and the regulatory tools for the administration of the industry.

2.1 Institutional Structure of the Electricity Supply Industry

The electricity supply industry consists of various institutions. The key institutions and their respective roles are presented in **Figure 1**. Likewise, details of their respective roles are presented in **Annex 1**.

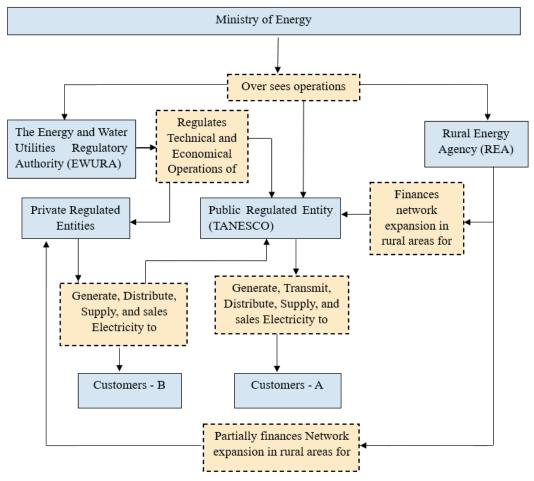


Figure 1: The Electricity Supply Industry Institutional Structure

2.2 Regulatory Tools

The regulatory tools used to administer the electricity supply industry are presented in **Figure 2**. Details for each of the tools are in **Annex 2**

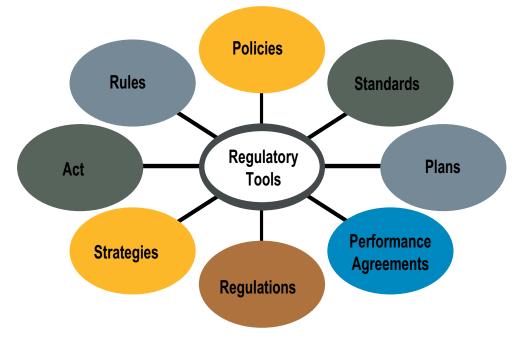


Figure 2: Regulatory Tools in The Electricity Supply Industry

Electricity Sub-Sector Regulatory Performance Report For The Financial Year 2023/24

3. LICENSING AND REGISTRATION

The Electricity Supply Industry activities above 1MW require a license in line with Section 8(1) of the Electricity Act Cap.131 as presented in **Figure 3**. Likewise, generation activities in rural areas with installed capacity below 1MW are exempted from license, but only need to be registered in line with 18(3).

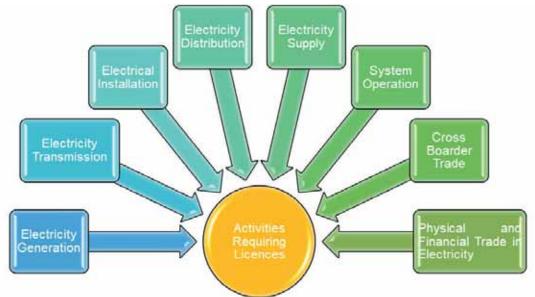


Figure 3: Activities Requiring Licence

3.1 Licensing

As of June 2024, 9,059 licences in **Figure 4** and details in **Annex 3** were issued. 1,572 licenses were issued in FY 2023/2024 as in **Figure 5**¹.

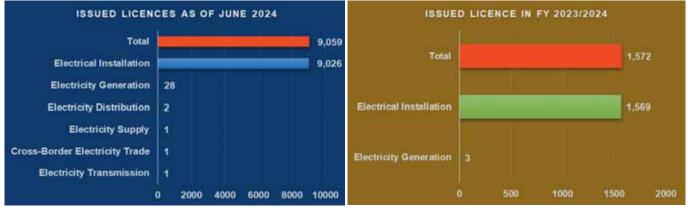


Figure 4: Issued Licences as of June 2024



3.1.1 The Electricity Generation Licences

As of June 2024, there were 30 generating licences issued in line with sections 5 and 8(1)(a) of the Electricity Act Cap. 131 as indicated in **Figure 6**. The specific licenses are in **Figure 7**. Likewise, the trend from 2017/18 to 2023/24 is depicted in **Figure 8** where three (3) licences were issued in FY2023/2024. Details are in **Annex 3**.



Figure 6: Capacity of Electricity Generation Licences Issued as of June 2024



Figure 7: Specific Capacity of Electricity Generation Licences as of June 2024

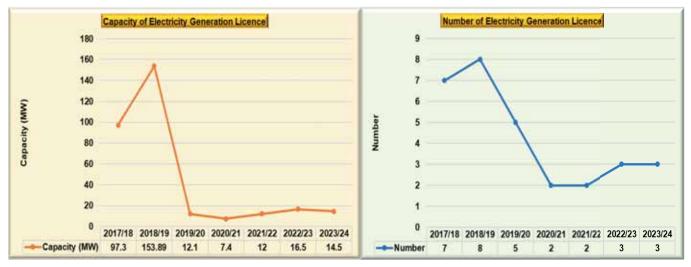


Figure 8: Electricity Generation Licence Issued (FY 2017/18 – 2023/24)

3.1.2 Electricity Transmission Licence

As of June 2024, TANESCO was the only entity licensed for electricity transmission activities in line with sections 5 and 8(1)(b) of the Electricity Act Cap. 131 as detailed in **Annex 3**. It covers transmission activities at voltage levels presented in **Figure 9**.

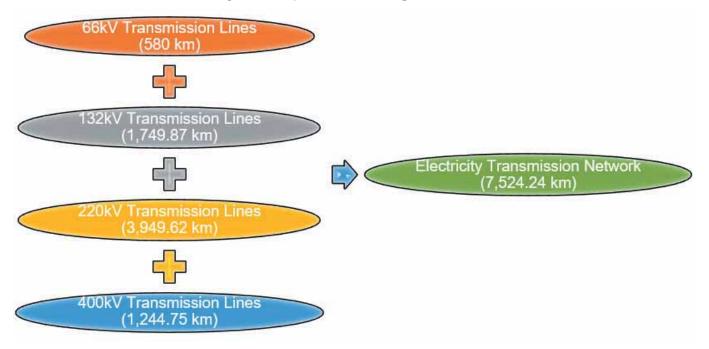


Figure 9: Electricity Transmission Network Voltage Levels as of June 2024

3.1.3 Electricity Distribution Licence

By June 2024, two (2) entities in **Figure 10** had licenses for electricity distribution activities in line with sections 5 and 8(1)(c) of the Electricity Act Cap. 131. Details are in **Annex 3.** It covers distribution activities at voltage levels presented in **Figure 11**.



Figure 10: Electricity Distribution Licensed Entities as of June 2024

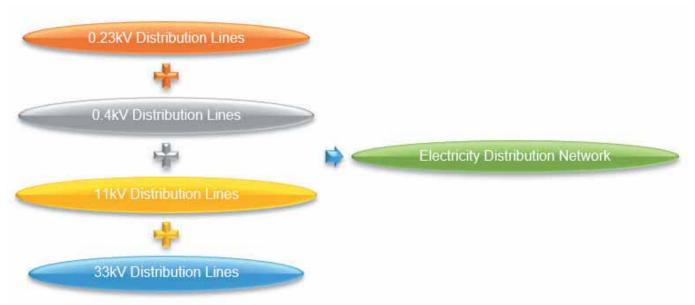


Figure 11: Electricity Distribution Network Voltage Levels as of June 2024

3.1.4 Electricity Supply Licence

In the period under review, TANESCO had a licence for electricity supply activities in line with sections 5 and 8(1)(d) of the Electricity Act Cap.131 as in **Annex 3.** It covers supply services activities to customers connected at three voltage levels presented in **Figure 11**.

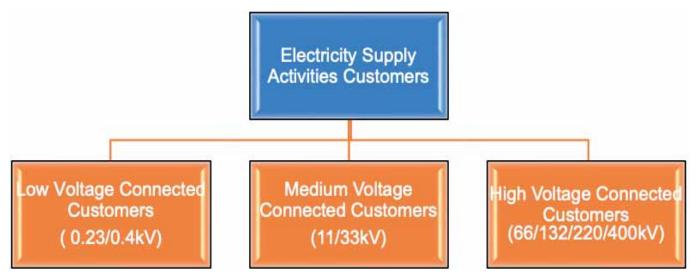


Figure 12: Electricity Supply Voltage Levels

3.1.5 Cross-Border Electricity Trade Licence

As of June 2024, TANESCO had a licence for Cross-Border Electricity Trade in line with sections 5 and 8(1)(f) of the Electricity Act Cap. 131 as depicted in **Annex 3.** It covers cross-border trade with countries and power pools presented in **Figure 13**. The countries include Uganda, under the Uganda Electricity Transmission Co. Ltd (UTCL), and Zambia, under the Zambia Electricity Supply Co. Ltd (ZESCO). Likewise, TANESCO is a non-operating member of the power pools pending the completion of the 400kV interconnection line to Kenya for the Eastern African Power Pool and Zambia for the Southern African Power Pool.

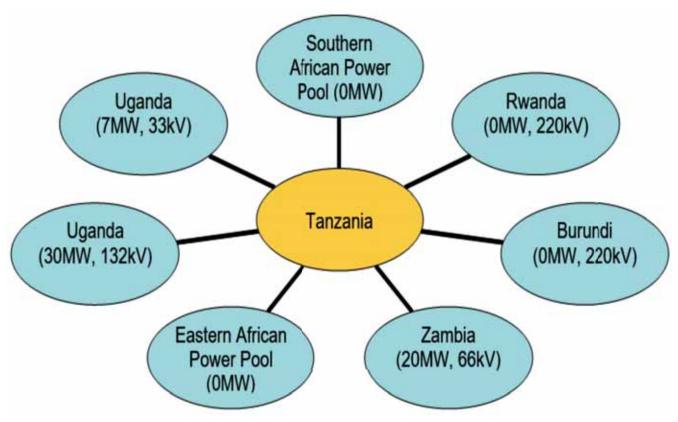


Figure 13: Interconnection and Cross-Border Electricity Trade as of June 2024

3.1.6 Electrical Installation Licences

A total of 9,026 licenses were issued to persons carrying out electrical installations in line with sections 5 and 8(h) of the Electricity Act by June 2024. It includes 1,509 licences issued in FY2023/2024 as presented in **Annex 3**.

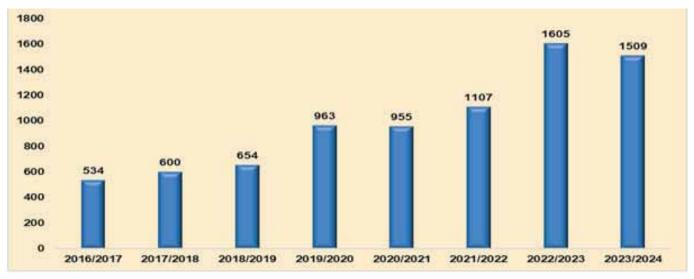


Figure 14: Trend of Electrical Installation Personal Licences from 2016/17 - 2023/2024

3.2 Registrations

During the period under review, 13 entities had registered to generate electricity below one (1) megawatt in line with Section 18 of the Electricity Act, Cap. 131 with their respective capacity and number of sites is depicted in **Figure 15**. Details are shown in **Annex 3**.

| (Annual I) | | | | | | | |
|--|---|-------|---|--------------------------------------|---------------|--|------|
| Total Jumeme Yovi Nasra Madope PowerHut Matembwe Darakuta Tembo Powercorner Kiliflora Kuliflora Ruaha Vatu na Umeme | 1,231 995 800 700 439 433 420 335 310 230 128 48 | 6,098 | Total Jumeme PowerHut Powercorner E.ON Matembwe Tembo Madope Kiliflora Ruaha Nasra Watu na Umeme Yovi | 3 1 1 1 1 1 1 1 | 22 20 2 | | . 60 |
| E.ON | 29 | | Darakuta | | | | |

Figure 15: Registered Entities Generating Electricity below 1MW as Of June 2024



Figure 16: Registered Entities from 2016/17-2023/2024

4. THE INITIATION OF PROCUREMENT OF ELECTRICITY SUPPLY INSTALLATIONS

In the procurement of power supply installations, four (4) projects with a potential of 736MW were approved for construction of power plants in line with Section 5 (d) of the Electricity Act cap.131 during the period under review. The details are provided in **Figure 17**.

| Kinyerezi III Gas Fired Powe Shangtan Power Ltd. Its cap The project is yet to start cor | acity is 300MW. | Masigira Hydropower Project by Tanzania Masigira Power Ltd. its capacity is 72MW. The project is yet to start construction. | | |
|--|------------------------------------|---|--|--|
| | Approved Project Procurement of | ct for Initiation of New Installation | | |
| Kikagati-Murongo hydropo capacity is 14MW. T commissioned and operating | he project is | Somanga Fungu Combine Cycle Gas Power Project. its capacity is 350MW. the project is yet to start construction. | | |

Figure 17: Approved Project for Initiation of Procurement of New Installation of The Electricity Supply as of June 2024

5. POWER PURCHASE AGREEMENTS

Between July 2023 and June 2024, EWURA approved 59 Power Purchase Agreements (PPAs) in line with Section 25(3) of the Electricity Act. The PPAs were signed between TANESCO and private entities within and outside the country as in **Figure 18**. The PPAs account for 629.125MW. Details are in **Annex 5**.



Figure 18: Approved Power Purchase Agreements (PPAs) of June 2024

5.1 Status of Power Purchase Agreements

A total of 20 PPAs with 449MW were under implementation as of June 2024, out of the 59 approved PPAs with a capacity of 629.125MW, as indicated in **Figure 19**. Six (6) of these PPAs (19.13MW) were under construction, and 33 (160MW) were soliciting funds to start construction.

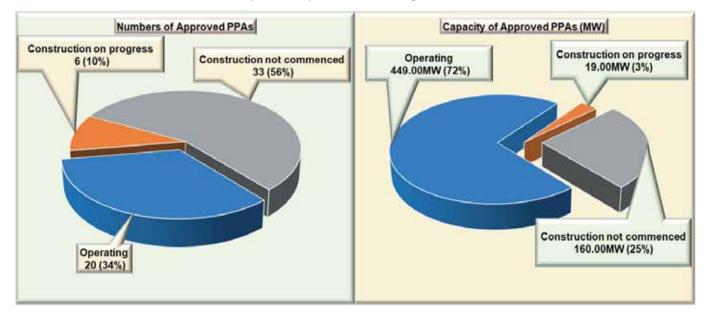


Figure 19: Status of Power Purchase Agreements as of June 2024

5.2 Trend of Power Purchase Agreements

The total approved PPAs from 2014/2015 to 2023/2024 are in **Figure 20**. The highest number and capacity of approved PPAs were in FY 2023/2024 whereby 27 PPAs with a capacity of 332MW were approved.

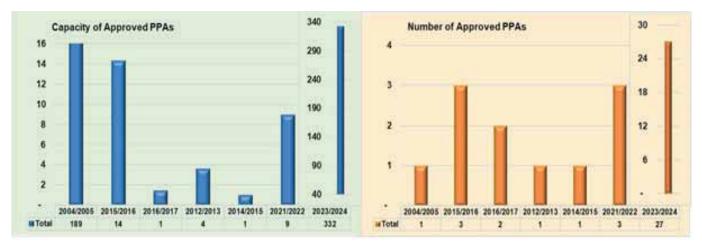


Figure 20: Power Purchase Agreements from FY 2004/2005 – 2023/2024

5.3 **Power Purchase Agreement with Operating Power Plants**

There were also 20 PPAs with operating power plants as of June 2024 which are indicated in **Figure 21**. Using natural gas, hydro, biomass, and solar technologies, the PPAs account for 449MW of installed capacity, comprising bulk supply to Zanzibar islands and imports from neighbouring countries of Uganda and Zambia.

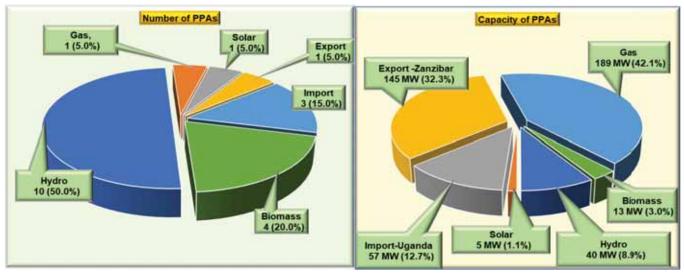


Figure 21: Power Purchase Agreement with Operating Power as of June 2024

5.4 Power Purchase Agreement with Power Plants Under Construction

The 19 PPAs whose power plants were under construction as of June 2024 are shown in **Figure 22**. They account for 19MW of installed capacity, and comprise hydro and solar technologies.

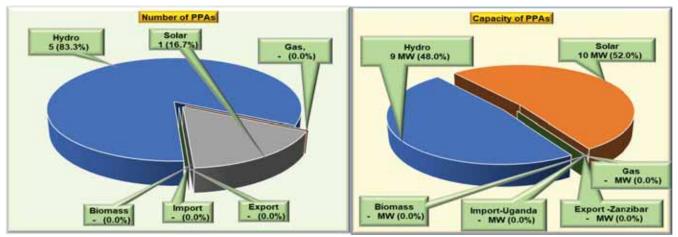


Figure 22: Power Purchase Agreements with Power Plant Under Construction as of June 2024

5.5 **Power Purchase Agreement Yet to Start Construction of Power Plants**

During the year of review, there were 33 PPAs whose power plant construction had not started yet. As indicated in **Figure 23**. The hydro and solar plants account for 157MW of installed capacity.

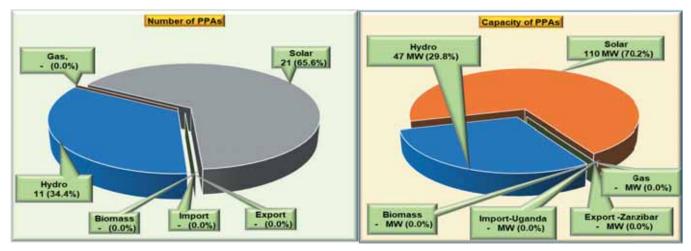


Figure 23: Power Purchase Agreements Yet to Start Construction of Power Plants as of June 2024

6. TARIFF

During the financial year under review, two (2) categories of tariff were approved as shown in **Figure 24** in line with section 5 (b) of the Electricity Act, Cap. 131.



Figure 24: Tariff Categories as Of June 2024

6.1 Tariff For Utilities Selling Electricity to End User Customers

Tariff orders form an important part of the regulatory aspect. As of June 2024, seven (7) tariff orders were approved for utilities selling electricity to their respective end-user customers as indicated in **Figure 25**.



Figure 25: Utilities with Tariffs to Sell Electricity to End-User Customers

6.1.1 Tanzania Electricity Supply Company Limited

The tariff is per the TANESCO Tariff Adjustment Order, 2016 (GN. 2016-010) and the TANESCO Tariff Adjustment Order Amendment,2020 (GN. 1020). It consists of charges depicted in **Figure 26**. Details are in **Annex 8**.

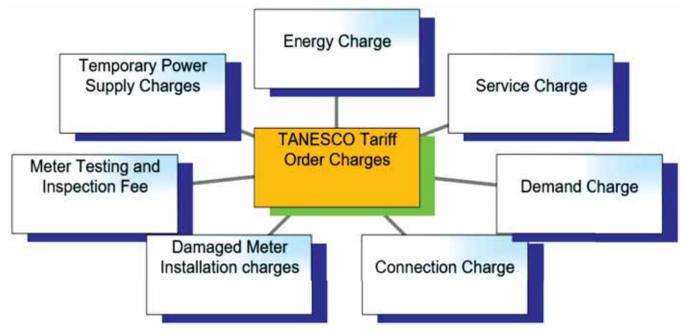


Figure 26: Tariff charges for TANESCO as of June 2024

6.1.2 Mwenga Power Services Limited Tariff Charges

The tariff is per the Mwenga Power Services Limited (MPL) Multi-Year Tariff Adjustment Order, 2022. It consists of charges depicted in **Figure 27**. Details are in **Annex 8**.



Figure 27: Tariff charges for Mwenga Power Services Limited as of June 2024

6.1.3 Powercorner Tanzania Limited

The tariff is as per the Electricity (Powercorner Tanzania Limited ("Powercorner")) (Tariff) Order, 2022. It consists of charges depicted in **Figure 28**. Details are in **Annex 6**.

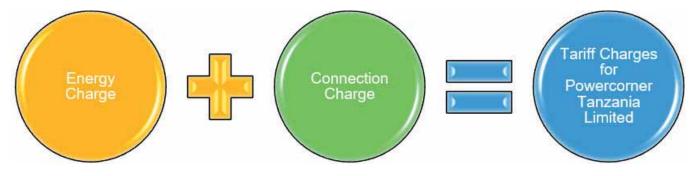


Figure 28: Tariff Charges for Power Corner Tanzania Limited as of June 2024

6.1.4 PowerGen Renewable Energy Limited

The tariff is as per the Electricity (Powercorner Tanzania Limited ("Powercorner")) (Tariff) Order, 2022. It consists of charges depicted in **Figure 29**. Details are in **Annex 6**.



Figure 29: Tariff Charges for Powergen Renewable Energy Limited as of June 2024

6.1.5 Watu Na Umeme Tanzania Limited

The tariff is as per the Watu Na Umeme Tanzania Limited ("Watu Na Umeme") Tariff Adjustment for Electricity Service) Order, 2022. It consists of charges depicted in **Figure 30**. Details are in **Annex 6**.



Figure 30: Tariff Charges for Watu Na Umeme Tanzania Limited as of June 2024

6.1.6 Jumeme Rural Power Supply

The tariff is as per The Electricity Jumeme Rural Power Supply ("Jumeme") (Tariff) Order, 2022. It consists of charges depicted in **Figure 31**. Details are in **Annex 6**.



Figure 31: Tariff Charges for Jumeme Rural Power Supply as of June 2024

6.1.7 Husk Power System Limited

The tariff is as per Electricity (Husk Power System Limited) (Husk Power) (Tariff Adjustment for Electricity Service) Order, 2022. It consists of charges depicted in **Figure 32**. Details are in **Annex 6**.





6.1.8 Standardized Small Power Projects Tariff

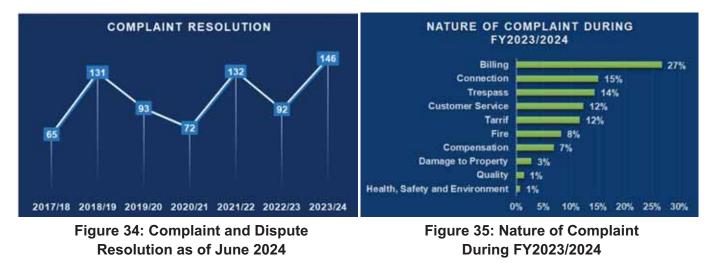
The tariff is as per The Electricity (Standardized Small Power Projects Tariff) Order, 2019. It applies to small power producers (SPP) as an indicative tariff to generate (100kW—10MW) electricity and sell it to the grid. It consists of tariff categories depicted in **Figure 33**. Its details and respective entities are in **Annex 7**.



Figure 33: Tariff category for Standardized Small power Projects tariff as of June 2024

7. COMPLAINTS AND DISPUTE RESOLUTION

During the Financial Year 2023/24, 146 complaints and disputes between TANESCO and its customers were resolved in compliance with Sections 7(1)(e), 34-38 of the EWURA Act, Cap 414, and 28(3) of the Electricity Act Cap.131, as depicted in **Figure 34**. The nature of complaints is in **Figure 35**, where billing complaints were the highest at 27%.



8. ELECTRICITY GENERATION

Electricity generation performance is analyzed based on entities licensed to undertake regulated electricity generation activities. It covers areas described in **Figure 36**.

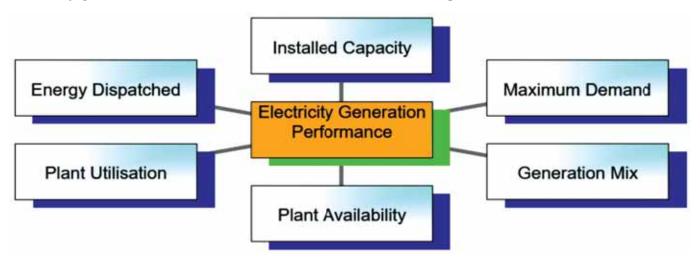


Figure 36: Description of Electricity Generation Performance

8.1 Installed Capacity

As of June 2024, the installed capacity for entities carrying out electricity generation activities for sale was 2,411.33MW as in **Table 1** and details in **Annex 10**. There was an increase of 499.87 MW (26.15%) from 1,911.46MW in 2022/23 as in **Figure 37**.

| Description | Entity | Capacity (MW) | Percentage (%) | Share of Main- Grid and Off-Grid | |
|-------------|--------------------------------|---------------|----------------|-------------------------------------|--|
| | TANESCO | 2,160.70 | 91.06% | | |
| Grid | IPP (SONGAS) | 189 | 7.96% | 98.41% | |
| G | SPP owned by private entities | 23.26 | 0.98% | 90.41% | |
| | Total | 2,372.96 | 100.00% | | |
| σ | TANESCO | 28.942 | 75.42% | | |
| Grid | SPP owned by private entities | 7.4 | 19.28% | 1.59% | |
| Off (| VSPP owned by private entities | 2.03 | 5.29% | 1.59% | |
| 0 | Total | 38.372 | 100.00% | | |
| | TANESCO | 2,189.64 | 90.81% | | |
| - | IPP (SONGAS) | 189 | 7.84% | | |
| Total | SPP (all private entities) | 30.66 | 1.27% | 100.00% | |
| F | VSPP (all private entities) | 2.03 | 0.08% | | |
| | Total | 2,411.33 | 100.00% | | |
| | | | | | |

Table 1: Summary of Installed Capacity as of June 2024

Source: TANESCO

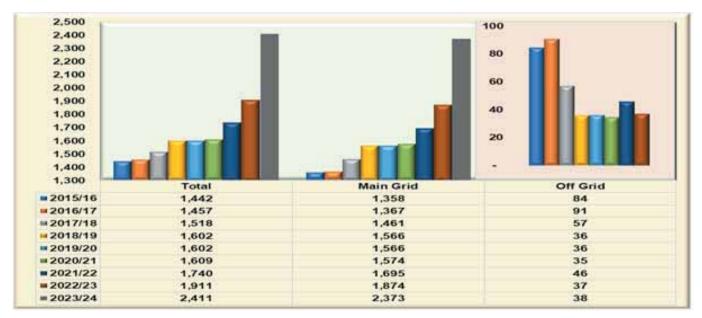


Figure 37: Trend in Installed Capacity from FY 2015/16 to 2023/24

8.2 Electricity Maximum Demand

Analysis shows that in the period under review, the maximum demand for electricity reached 1,645.23MW as in **Figure 38** and details in **Table 2**. It raised to 174.73MW (11.88%) from 1,470.50MW in FY 2022/2023. The growth is attributed to increased electricity accessibility and connectivity from 67.5% and 32.8% in June 2017 to 78.4% and 37.7% as of July 2020, respectively. It is also due to an increase in the security of electricity supply driven by growth in social-economic activities as depicted by the installed capacity increase in **Figure 37**.



FY 2017/18 to 2023/24

| Year | Maximum Demand (MW) | Date | ±MW | ±% |
|---------|---------------------|--------------------------------|--------|------|
| 2017/18 | 1,045.70 | 27 th June 2018 | - | - |
| 2018/19 | 1,116.58 | 30 th Nov.2018 | 70.88 | 6.78 |
| 2019/20 | 1,151.66 | 27 th February 2020 | 35.08 | 3.14 |
| 2020/21 | 1,201.02 | 2 nd June 2021 | 49.36 | 4.29 |
| 2021/22 | 1,340.68 | 26 th May 2022 | 139.66 | 11.6 |
| 2022/23 | 1,470.50 | 12 th June 2023 | 129.82 | 9.68 |
| 2023/24 | 1,645.23 | 14 th June 2024 | 174.73 | 11.9 |
| | | | | |

| Table | 2: Maximu | m Demand | (MD) | from I | FY 201 | 7/18 to | 2023/24 |
|-------|-----------|----------|------|--------|--------|---------|---------|
| Table | | | | | | | |

Source: TANESCO

8.3 Energy Generation Mix Main Grid

The energy generation mix comprised natural gas (67.10%), hydropower (32.42%), liquid fuel (0.47%), and biomass (0.01%) in FY 2023/24 as depicted in **Figure 39**. There was an increase in hydropower generation by 5.50% due to the commissioning of the Julius Nyerere hydropower project (470MW). Furthermore, there was a decrease in electricity generation from natural gas by 5.72%.

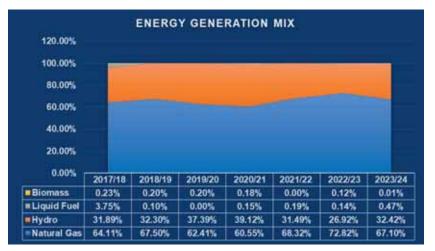


Figure 39: Energy Generation Mix (%) from FY 2017/18 – 2023/24

8.4 Energy Generation and Imports

In FY 2023/2024, the energy generated and imported by entities carrying out electricity activities for sale was 11,068.40 GWh with imports from neighboring countries accounting for 264.29GWh (2.39%) as shown in **Table 3**. It increased by 1,203.63GWh (12.20%) from 9,864.77GWh in 2022/23 as depicted in **Figure 40**.

| Table 3: Electricity Generation and Imports for 2023/24 |
|---|
|---|

| Description | Utility | Energy (GWh) | Contribution (%) |
|-------------|---------------------------------------|--------------|------------------|
| | TANESCO | 9,063.58 | 84.67% |
| Grit | IPP (Songas) | 1,520.03 | 14.20% |
| MainGrid | SPP owned by private entities | 120.85 | 1.13% |
| | Total Main Grid | 10,704.46 | 100.00% |
| | TANESCO | 81.8 | 82.09% |
| Grio | SPP owned by private entities | 13.76 | 13.81% |
| Off.Gild | VSPP owned by private entities | 4.09 | 4.10% |
| | Total Off-Grid | 99.65 | 100.00% |
| | Kigagati (Uganda) | 37.54 | 14.20% |
| Imports | kyaka (Uganda) | 116.27 | 43.99% |
| | Mbala (Zambia) | 59.55 | 22.53% |
| | Rusumo Power Company Limited (Rwanda) | 50.93 | 19.27% |
| | Total Imports | 264.29 | 100.00% |
| | TANESCO | 9,145.38 | 82.63% |
| Summary | IPP (SONGAS) | 1,520.03 | 13.73% |
| | SPP (all private entities) | 134.61 | 1.22% |
| | VSPP (all private entities) | 4.09 | 0.04% |
| | Imports | 264.29 | 2.39% |
| | Total Energy | 11,068.40 | 100.00% |
| | | | |

Source: TANESCO and EWURA

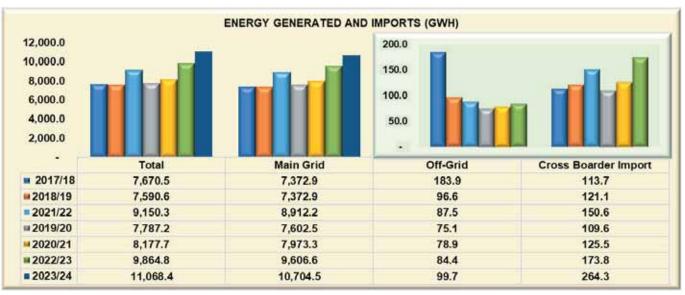


Figure 40: Energy Generated and Imports (GWh)

8.5 Availability of Power Plants

Power plant availability reached 83.48% in FY 2023/24 as in **Figure 41** and details in **Annex 11**. It decreased by 3.05% from 86.53% in FY2022/23 due to maintenance of power plants.

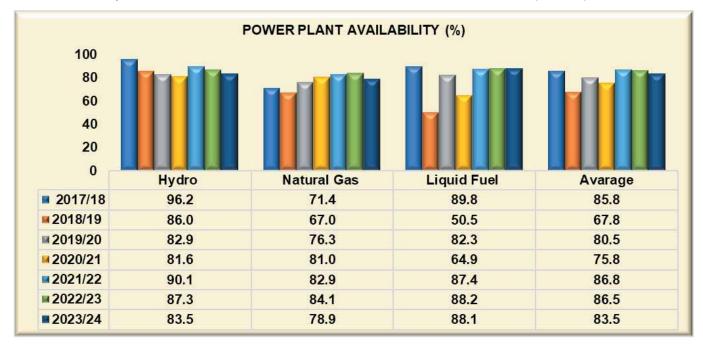


Figure 41: Power Plant Availability (%)

8.6 **Power Plants Utilization**

The power plant utilization in the main grid was 40.1% in FY2023/24 a decrease of 4.4% from 44.5% in FY 2022/23 as in **Figure 42** and details in **Annex 11**. The decrease was attributed to deteriorating hydrology conditions.

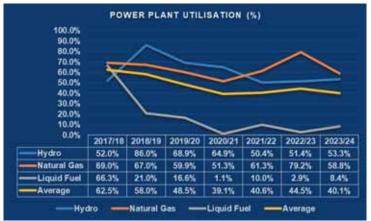
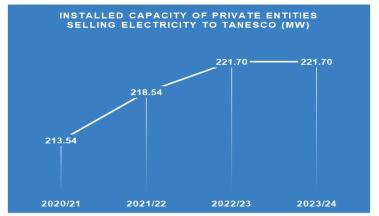


Figure 42: Power Plant Utilization (%)

8.7 Private Sector Participation in Energy Generation Segment

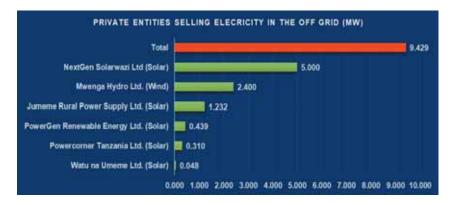
During FY 2023/24 private entities generating electricity for sale contributed 221.70MW, an increase of 3.16MW (1.45%) from FY 2021/22 as in **Figure 43**. Entities selling electricity to the main grid are in **Figure 44**. Likewise, those selling electricity in the off-grid are shown in **Figure 45**.

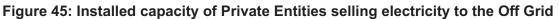




| Total | | 211.405 |
|--|-------|---------|
| Songas Tanzania Ltd. (Gas) | | 189.000 |
| Tanzania Plantations Co.Ltd (Biomass) | 9.000 | |
| Tulila Hydro Electric (Hydro) | 5.000 | |
| Mwenga Hydro Ltd. (Hydro) | 4.000 | |
| Tanganyika Wattle Co. Ltd (Biomass) | 1.500 | |
| Andoya Hydro Electric Power Ltd. (Hydro) | 1.000 | |
| Yovi Hydropower Company Limited | 0.995 | |
| Matembwe Village Company Ltd. (Hydro) | 0.590 | |
| Darakuta Hydropower Development Co. Ltd. (Hydro) | 0.320 | |

Figure 44: Installed capacity of Private Entities selling electricity to the Main Grid





9. ELECTRICITY TRANSMISSION

The performance of the electricity transmission area is analyzed based on entities licensed to undertake regulated electricity transmission activities. It covers areas described in **Figure 46**. TANESCO was the only entity with a licence for electricity transmission activities.





9.1 Electricity Transmission Infrastructure

The transmission line increased to 7,524km in FY2023/2024, an upsurge of 674km (9.84%) from 6.850km in FY2023/24 as in **Figure 47** and details in **Annex 12**. The total number of grid substations reached 67 in 2023/2024, an increase of four (4) (6.35%) from 63 in FY2022/2023 as in **Figure 48**. Its respective capacity reached 6,699 MVA in FY 2023/2024, an increase of 65 MVA (0.98%) from 6,634MVA in FY 2022/23.

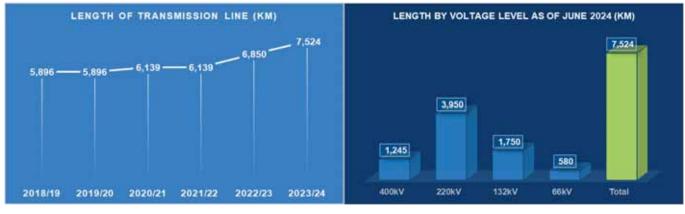


Figure 47: Length of Transmission Line

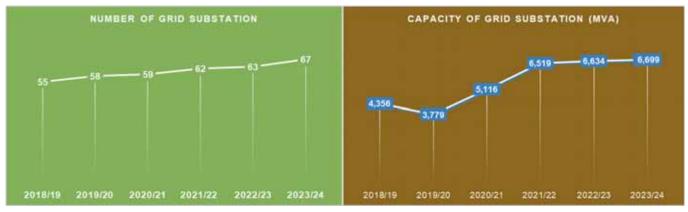


Figure 48: Number and Capacity of Grid Substation

9.2 Customers Connected to Transmission Infrastructure

As of last year, there were seven (7) customers (**Figure 49**) who were connected to the electricity transmission infrastructure. The data includes customers connected at 220kV and 132kV.

| 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 49: Customers Connected to The Transmission Infrastructure

9.3 Reliability of Electricity Transmission Infrastructure

The performance in reliability of electricity transmission infrastructure was analysed using two indices as shown in **Figure 50**. The system Average Interruption Frequency Index at Connection Point (SAIFI_{CP}) was 8.1 in FY2023/24, within a target of <10 in **Figure 51**. Likewise, the System Average Interruption Duration Index (SAIDI-CP) was 6.3 hours, within the target of 6.5 hours.



Figure 50: Description of Electricity Transmission Infrastructure Reliability Indices

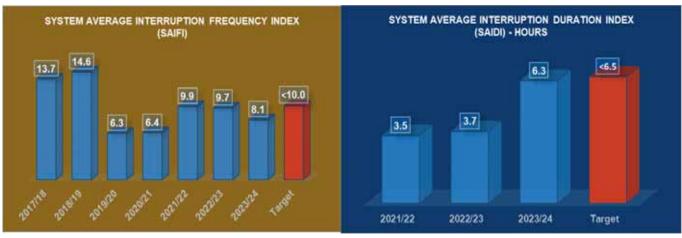


Figure 51: Performance of Electricity Transmission Infrastructure Reliability Indices

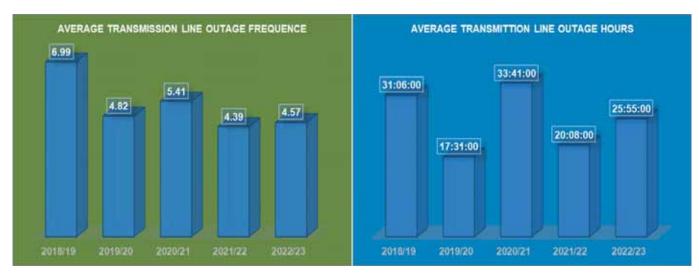


Figure 52: Average Transmission Line Outage Hours and Frequency

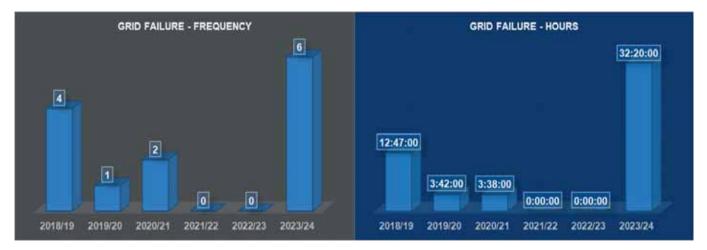


Figure 53: Total Grid Failure Frequency and Hours

9.4 Unserved Energy

The unserved energy in FY 2023/34 accounted for 818.85GWh as in **Figure 54**. It accounts for TZS 198.18 billion at an average tariff of TZS 242/kWh. It was projected to decrease significantly following the commissioning of the Julius Nyerere Hydro Power Project.

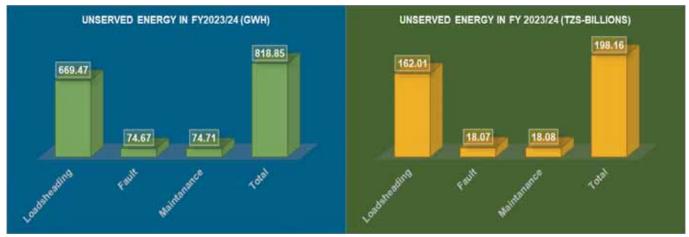


Figure 54: Unserved Energy in FY2023/24

10. ELECTRICITY DISTRIBUTION

Electricity distribution performance is analyzed based on entities licensed or registered for regulated electricity distribution activities. It covers areas described in **Figure 36**.

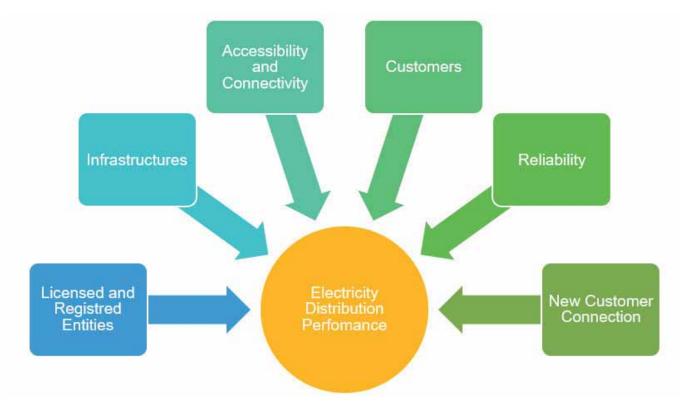


Figure 55: Description of Electricity Distribution Performance

10.1 Licensed Entities for Electricity Distribution Activities

Two (2) entities in **Figure 56** as of June 2024, had a licence for electricity distribution activities. Their capacity was above one (1) megawatt.



Figure 56: Entities Licensed for Electricity Distribution Activities

10.2 Registered Entities for Electricity Distribution Activities

Four (4) entities in **Figure 57** as of June 2024, had registered for electricity distribution activities. The entities had a capacity below one (1) megawatt.



Figure 57: Entities Registered for Electricity Distribution Activities

10.3 Electricity distribution line

The line length for licensed entities increased by 24,521.67 km (14.98%) from 163,744.56 km in FY2022/23 to 188,266.23 km in FY2023/24 as in **Figure 58**. Likewise, for registered entities, the line length remains at 617km as in **Figure 59**.





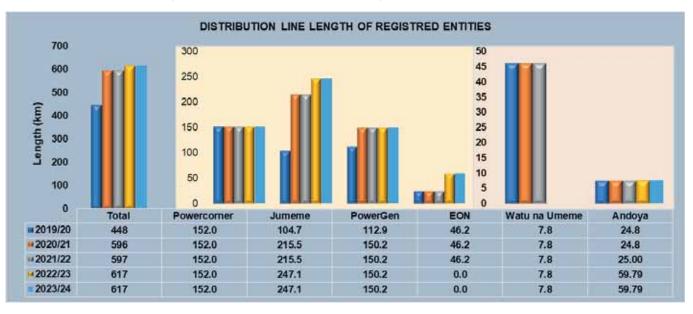


Figure 59: Distribution Line Length of Registered Entities

10.4 Electricity accessibility and connectivity

The overall electricity accessibility increased from 67.5% in FY 2016/17 to 78.4% in FY 2019/20 as in **Figure 60**. Likewise, connectivity increased from 32.8% in FY 2016/17 to 37.7% in FY 2019/20. Studies are going on to establish the current status.

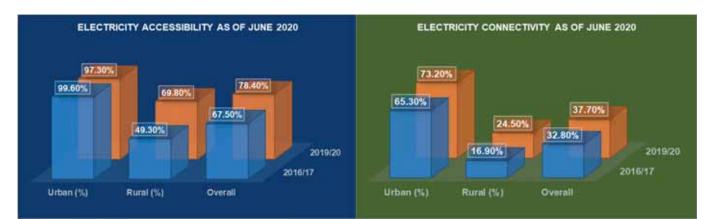


Figure 60: Electricity Accessibility and Connectivity

10.5 Customers

Customers connected to the distribution network increased by 559,595 (12.65%) from 4,422,664 in FY 2022/23 to 4,982,259 in FY 2023/24 as in **Figure 62**. Likewise, details of customers for registered entities are in **Figure 62**.



Figure 61: Customers of Licensed and Registered Entities

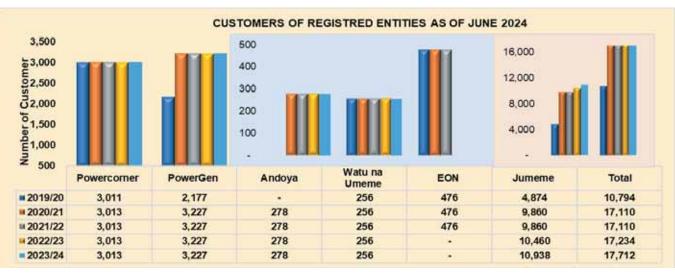


Figure 62: Customer of Registered Entities as of June 2024

10.6 Reliability Of Electricity Supply

Three indices in **Figure 63** assessed the reliability of electricity supply in line with TZS 1374:2011 (Power quality–Quality of service and reliability) standard in the main grid and off-grid. The assessment was conducted for two licensed entities for electricity distribution activities presented in **Figure 56**.

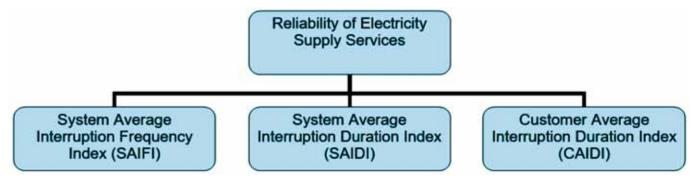


Figure 63: Indices for The Reliability of Electricity Supply

10.6.1 TANESCO

a) System Average Interruption Frequency Index (SAIFI)

SAIFI measures the average number of interruptions each customer experiences annually. Reviews indicate that it improved by 12 (47.7%) from 26 in FY 2022/23 to 14 in FY 2023/2024 as in **Figure 64**. The region's performance is indicated in **Figure 65**.

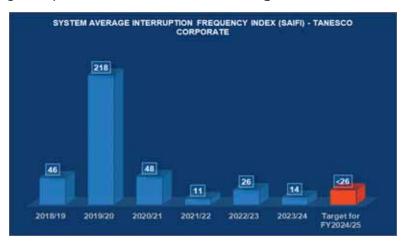


Figure 64: System Average Interruption Frequency Index (SAIFI) – TANESCO Corporate



Figure 65: System Average Interruption Frequency Index (SAIFI) in FY 2023/24 – TANESCO Regions

b) The System Average Interruption Duration Index (SAIDI)

SAIDI measures the average outage duration in minutes that each customer experiences annually. It improved by 982 minutes (63.9%) from 1,536 in FY2022/23 to 554 in FY2023/24 as in **Figure 66**. The region's performance is in **Figure 67**.

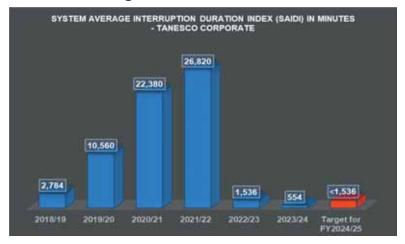


Figure 66: System Average Interruption Duration Index (SAIDI) in Minutes – TANESCO Cooperate

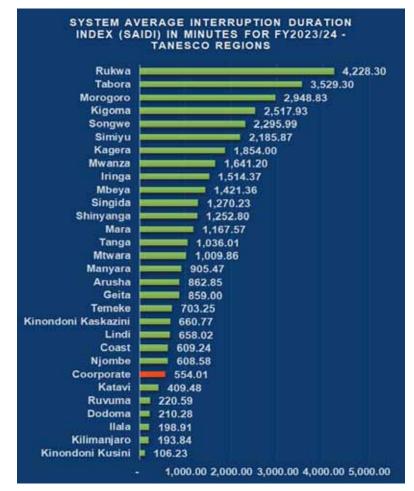


Figure 67: System Average Interruption Duration Index (SAIDI) in Minutes for FY2023/24 – TANESCO Regions

c) The Customer Average Interruption Duration Index (CAIDI)

CAIDI indicates the average duration in minutes that each outage lasts. It improved by 18.3 minutes (31%) from 59.1 in FY2022/23 to 40.8 in FY2023/24 as in **Figure 68**. The region's performance is in **Figure 69**.

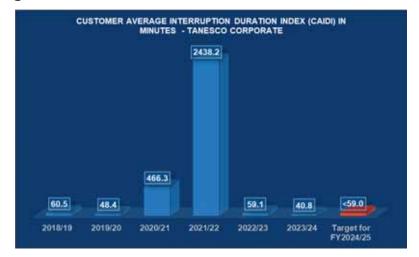


Figure 68: Customer Average Interruption Duration Index (CAIDI) in Minutes – TANESCO Corporate

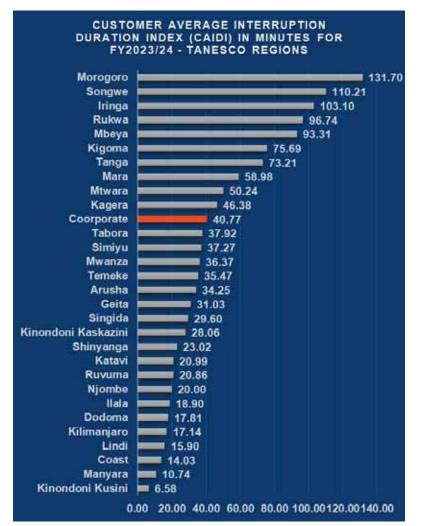


Figure 69: Customer Average Interruption Duration Index (CAIDI) in FY2023/24 – TANESCO Regions

10.6.2 Mwenga Power Services Ltd

a) System Average Interruption Frequency Index (SAIFI)

The system Average Interruption Frequency Index at Mwenga during the year under review improved by 12.3 (41%) from 30.0 in FY2022/23 to 17.7 in FY2024 as in **Figure 70**.

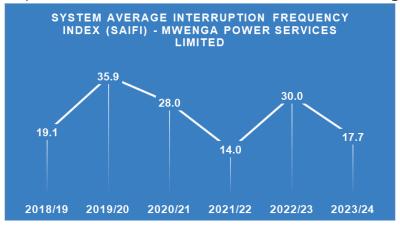


Figure 70: System Average Interruption Frequency Index (SAIFI) – Mwenga Power Services Ltd.

b) The System Average Interruption Duration Index (SAIDI)

The System Average Interruption Duration Index at Mwenga during the period under review improved by 893 minutes (51.4%) from 1,737.0 in FY2022/23 to 843.6 in FY2023/24 as in **Figure 71**.

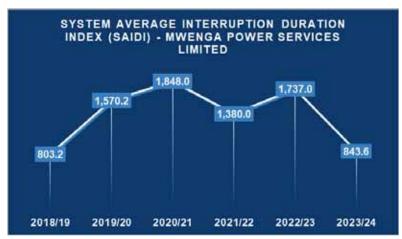


Figure 71: System Average Interruption Duration Index (SAIDI) in Minutes – Mwenga Power Services Limited

c) The Customer Average Interruption Duration Index (CAIDI)

The Customer Average Interruption Duration Index improved by 10 minutes (17.2%) from 58.0 in FY2022/23 to 48.0 in FY2023/24 as in **Figure 72**.

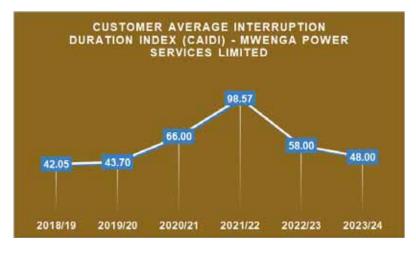


Figure 72: Customer Average Interruption Duration Index (CAIDI) in Minutes – Mwenga Power Services Limited

10.6.3 Andoya Hydro Electric Power Limited

a) System Average Interruption Frequency Index (SAIFI)

During the year under review, the SAIFI at Andoya Hydro Electric Power Limited improved by 2 (2.1%) from 97 in FY2022/23 to 95 in FY2024 as in indicated in **Figure 70**.

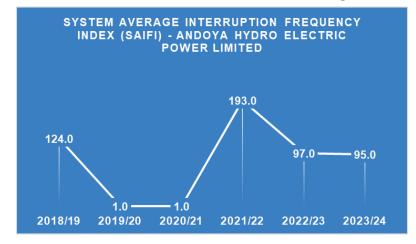
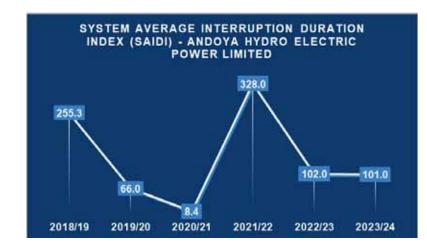


Figure 73: System Average Interruption Frequency Index (SAIFI) – Andoya Hydro Electric Power Limited

b) The System Average Interruption Duration Index (SAIDI)



Items of SAIDI, there was an improvement of one (1) minute (1.0%) from 102.0 in FY2022/23 to 101 in FY2023/24 as in **Figure 71**.

Figure 74: System Average Interruption Duration Index (SAIDI) in Minutes – Andoya Hydro Electric Power Limited

c) The Customer Average Interruption Duration Index (CAIDI)

For CAIDI It increased by 0.013 minutes (1.2%) from 1.05 in FY2022/23 to 1.06 in FY2023/24 as in **Figure 72**.

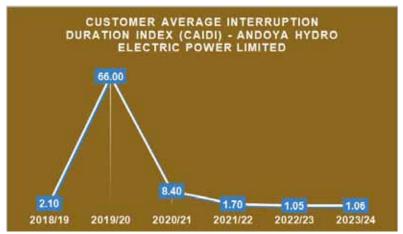


Figure 75: Customer Average Interruption Duration Index (CAIDI) in Minutes – Andoya Hydro Electric Power Limited

11. ENERGY LOSSES

Energy losses were assessed for regulated electricity transmission or distribution entities in **Figure 76**. The losses target is 14% from July 2021 to 12% in June 2025 in line with the Electricity Supply Industry Reform Strategy and Roadmap (ESI-RSR), 2014.

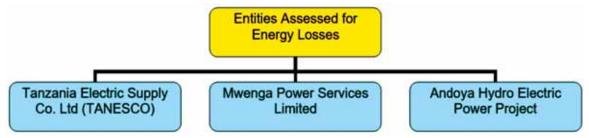


Figure 76: Entities Assessed for Energy Losses

11.1 TANESCO

The energy loss in transmission and distribution systems has increased from 14.57% in 2022/23 to 14.61% in 2023/24 as shown in **Figure 77**. To continue reducing losses, EWURA has guided TANESCO to undertake the construction and rehabilitation of infrastructure, import electricity from neighbouring countries for load centres far from generating plants, and conduct massive operational campaigns against energy theft.



Figure 77: TANESCO Energy Losses (FY 2019/20 – FY 2023/24)

11.2 Mwenga Power Services Ltd

The electricity distribution energy losses experienced by Mwenga Power Services over the period under review are shown in **Figure 78**. The losses increased by 0.01% from 5.99% in FY2022/23 to 6% in FY2023/24.

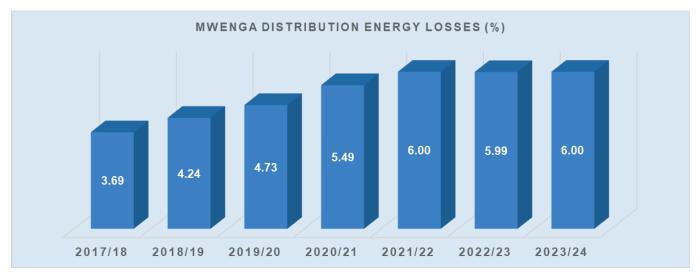


Figure 78: Mwenga Energy Losses (FY 2019/20 – FY 2023/24)

11.3 Andoya Hydro Electric Power Co. Ltd

The Andoya Electricity Distribution Energy losses are in **Figure 79**. The losses improved by 0.02% from 1.33% in FY2022/23 to 1.31% in FY2023/24.

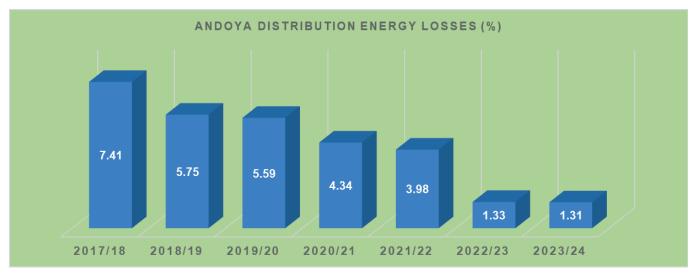


Figure 79: Andoya Electricity Distribution Energy Losses (FY 2019/20 – FY 2023/24)

12. INVESTMENT IN ELECTRICITY INFRASTRUCTURE

During the period under review, various projects were under development in line with Section 6(1) (c) of the Electricity Act 2008 which aims to promote investment and security of electricity supply in the electricity supply industry. These include both public and privately developed infrastructure as in **Figure 80**.



Figure 80: Investment in Electricity Infrastructure

12.1 Public Developed Infrastructure

The government through TANESCO is investing in the development of various electricity infrastructures. It includes electricity generation and transmission infrastructures.

12.1.1 Electricity Generation Infrastructure

Four strategic projects were under construction during the period under review. The projects will account for a total of 2,235.5MW upon commissioning. Its respective progress is shown in **Figure 81**. The strategic projects are the Julius Nyerere Hydropower Project, which is at 99.21% with four units (9,8,7, and 6), dispatching 940MW to the grid, a 50MW Kishapu-Shinyanga Solar Project (at 22%), a 49.5MW Malagarasi Hydropower Project (at 2.2%), and a 21MW Hale Hydropower Rehabilitation Project (at 31%.)

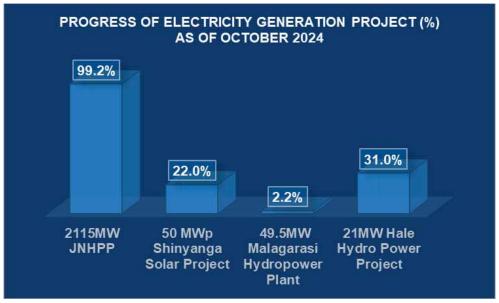


Figure 81: Progress of Electricity Generation Projects (%)

12.1.2 Electricity Transmission Line

In electricity transmission line development, 27 projects were under construction during the review period. The projects will account for 5,033km upon commissioning. Its respective progress is indicated in **Figure 82**. The projects will increase the security of the electricity supply in the main grid.

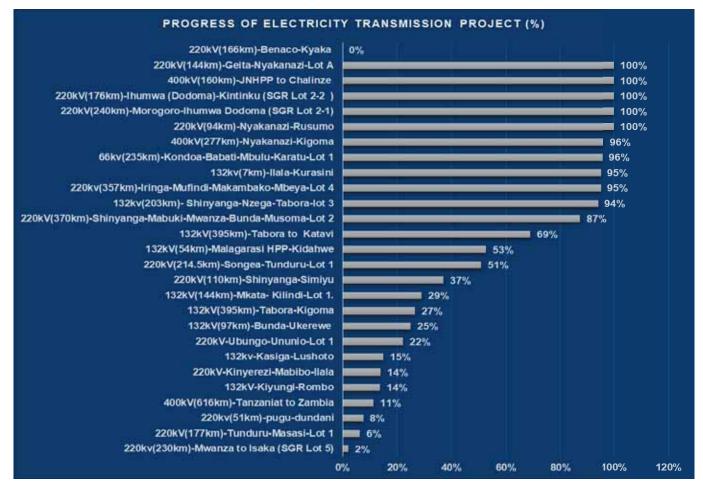


Figure 82: Progress of Electricity Transmission Line Projects (%)

12.1.3 Electricity Grid Substation

During the period under review, the grid substation saw the introduction of 39 projects that were under construction. The projects accounts for 3,801MVA upon commissioning. The progress of the projects is in **Figure 83**.

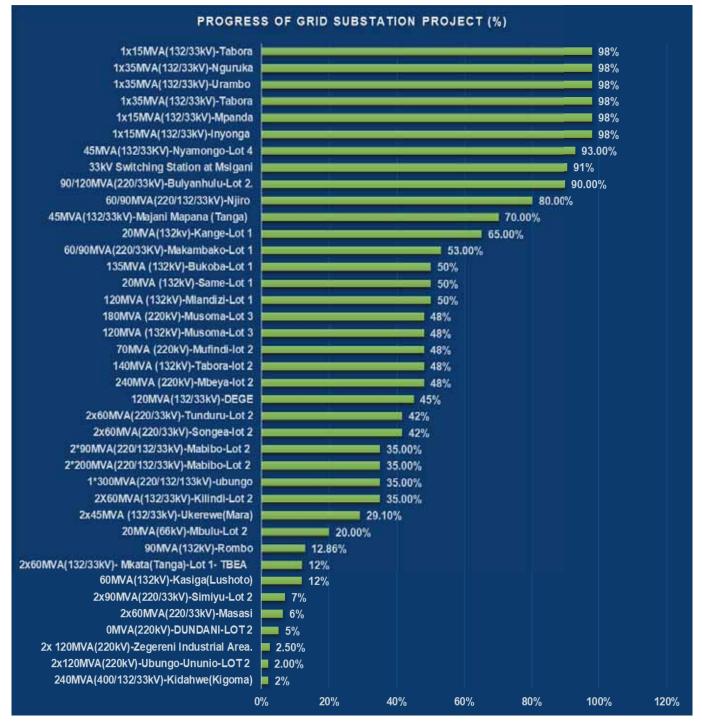


Figure 83: Progress of Grid Substation Projects (%)

12.2 Private Developed Infrastructure

In the private sector, 39 electricity generation projects signed a Small Power Purchase Agreement (SPPA) for generating electricity as shown in **Figure 84**. The projects account for 179.59MW upon commissioning. Details are in **Annex 13**.

PRIVATE ENTITIES WITH SMALL POWER PURCHASE AGREEMENT FOR GENERATING ELECTRICITY (MW)



Figure 84: Private Entities with Standardized Power Purchase Agreements (SPPA) for Generating Electricity

13. CLEAN COOKING

Electricity as a source of clean energy for cooking is a critical government agenda. To that effect, the clean cooking strategy, known as *The National Clean Cooking Strategy 2024*, was developed and launched in April 2024.

13.1 Access to Clean Fuels and Technologies for Cooking

The National Clean Cooking Strategy 2024 indicates the population using clean cooking solutions has gradually increased from 1.5% in 2010 to 6.9% in 2021 as shown in **Figure 85**. The National Clean Cooking Strategy 2024 aims to ensure that 80% of the population uses clean energy for cooking by 2034.

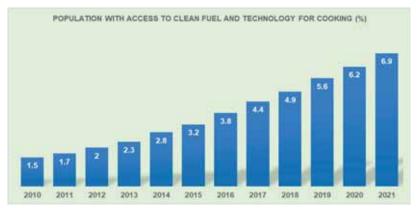


Figure 85: Population with Access to Clean Fuels and Technologies for Cooking

13.2 Fuels And Technologies Used for Cooking

Figure 86 indicates household cooking energy use in mainland Tanzania in 2019/20 as The National Clean Cooking Strategy 2024. It indicates that 64% use firewood, 26% charcoal, 5% Liquefied Petroleum Gas (LPG), 3% electricity, and 2% other sources of energy. Thus, the National Clean Cooking Strategy 2024 aims to ensure that 80% of the population uses clean energy for cooking by 2034.

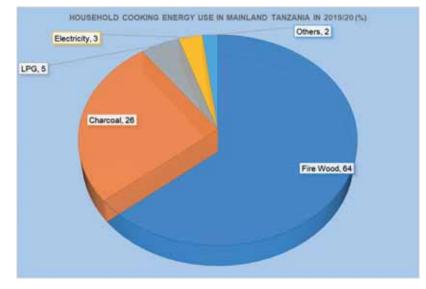


Figure 86: Household Cooking Energy Use in Mainland Tanzania In 2019/20 (%)

13.3 Strategies for Promoting Electricity for Clean Cooking

The National Clean Cooking Strategy 2024 provides that 80% of the population will use clean energy for cooking by 2034. Thus, electricity is envisaged to play an important along with other technologies. This is supported by government incentives on clean technologies, whereby there has been an increase in accessibility of electricity from 67.5% in 2017 to 78.4% in 2020, an increase in connectivity of electricity from 32.8% in 2017 to 37.7% in 2020, an increase in the availability of energy-efficient equipment, as well as policies and regulatory framework as in **Figure 87**.

| Availability Of Policy And Regulatory Framework For Promoting Electricity For Clean Cooking | | Increase In Electricity Accessibility And Connectivity | |
|---|-----------------------------|---|------------|
| | Promoting the Us Clean C | | |
| Increase In Availability and Affordability of Energy Efficienct Equipment | | Increase In Public Awarenes | is Program |

Figure 87: Strategies for Promoting the Use of Electricity for Clean Cooking

14. FINANCIAL PERFORMANCE

TANESCO is Tanzania's main electricity supplier. The company imports power from Uganda (37 MW) and Zambia (20MW) for the Kagera and Rukwa regions respectively. Also, the utility has long-term power purchase agreements with Independent Power Producers and Small Power Producers (IPPs and SPPs), namely, Songas Tanzania Limited (189MW), Tanganyika Wattle Company Limited (1.5MW), Tanganyika Planting Company Limited (9MW), Andoya Hydro Electric Power Company Limited (1MW), Mwenga Hydro Limited (4MW), and Tulila Hydro Electric Plant Company Limited (5MW).

Others are Yovi Hydropower Company Limited (0.95MW), Matembwe Village Company Limited (0.59MW), Darakuta Hydropower Development Company Limited (0.32MW), Luponde Hydro Limited (0.9MW) and NextGen Solawazi Limited (5MW). Therefore, this section focuses on the financial performance of 12 entities from FY 2020/21 to 2023/24.

14.1 Revenue Generation

In FY 2023/24, the average revenue from the sale of electricity of all entities increased by 10% compared to an increase of 4% recorded in FY 2022/23. The revenue increased from TZS 2,205.93 billion to TZS 2,418.26 billion. Revenue from other sources increased by 63% compared to a decrease of 25% recorded in previous financial year. The overall revenue increased by 15%. In addition, 85% of revenue was generated from the sale of electricity and 15% from other sources. **Figure 88** shows the four-year trend of revenues from the sale of electricity and other income and is detailed in **Annex 14**.

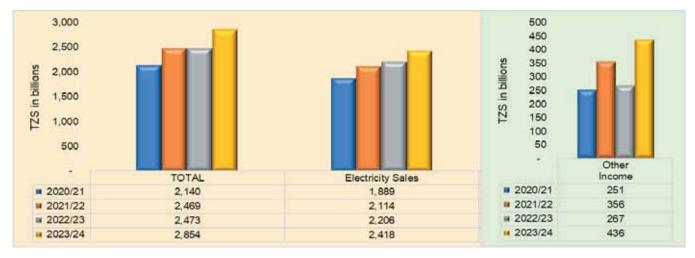


Figure 88: Total Revenue by Source (TZS in million)

During FY 2023/24, the increased revenue generated from the sale of electricity was associated with Mwenga Hydro Limited (43%) which stands out among the utilities, NextGen Solawazi (25%), Mwenga Power (33%), Matembwe Village Company Limited (82%) TANESCO (12%) and Darakuta Hydropower Development Company Limited (31%). However, utilities that recorded a decrease in revenue from the sale of electricity were Yovi Hydropower Company Limited (1%), Songas Tanzania Limited (4%), Tulila (8%), Tanganyika Planting Company (26%), Andoya Hydro Electric Power Company Limited (28%), Luponde (71%) as well as Tanganyika Wattle Company Limited (89%). The main reasons for the decrease in revenue were the mechanical breakdown of generating units and inadequate hydrology conditions. Revenue generated by each utility is presented in **Figure 89** and detailed in **Annex 14**.

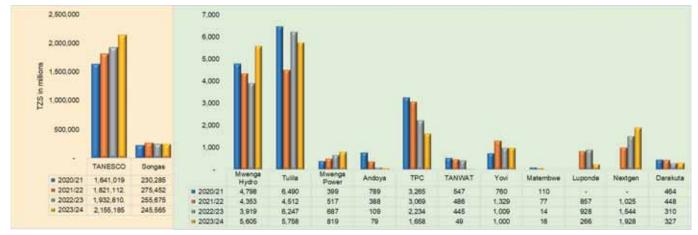


Figure 89: Revenue from the Sale of Electricity by Utility

TANESCO being a public service provider generates most of its revenue from selling electricity. During the period under review, the sales made to general Usage Customers (T1) contributed to 50%, High Voltage supply customers (T3) 38%, whilst Low Voltage Supply (T2) and Domestic Low Usage (D1) customers amounted to 10% and 2% of the total electricity sales revenue respectively. The consumption pattern of power remained the same as the previous financial year.

During FY 2023/24, TANESCO recorded a general increase in sales from electricity by 12%, compared to an increase of 6% recorded in the previous year. The rise was associated with an increase in new connections of 554,867 customers. The increased revenue was also associated with increased power consumption by an average of 10%, by Domestic Low Usage (10%), General Usage (12%), High Voltage Supply (8%), and Low Voltage Supply (11%). **Figure 90** shows three years of TANESCO revenue by customer category and is detailed in **Annex 16**. The electricity consumption by region/location is in **Figure 91**.

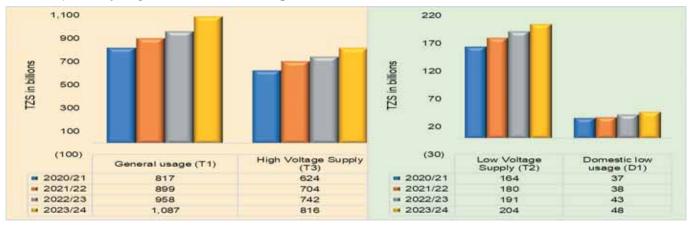


Figure 90: TANESCO Revenue by Customer Category (TZS Billions)

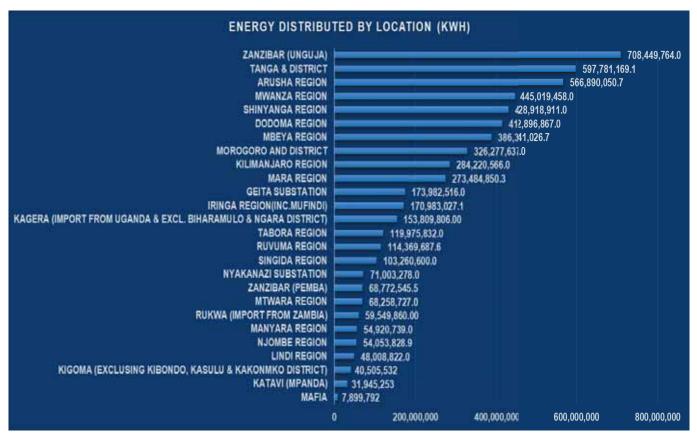


Figure 91: Energy Distributed by Location (kWh)

14.2 Large Power Users of TANESCO

The electricity consumption generated by TANESCO was largely consumed by Bulyanhulu and Geita mines; Commercial Centers; Beverage Industries (Breweries, Coca-Cola, Pepsi); Steel Industries; Cement Industries (Twiga Cement); and government and private Institutions.

14.3 TANESCO Cost Structure

The cost structure for TANESCO's operations was mainly dominated by generation and transmission business segments that covered TZS 1,088.12 billion. Electricity distribution covered TZS 404.98 billion, depreciation (TZS 418.60 billion), purchase of electricity (TZS 319.08 billion), administration costs (TZS 261.85 billion), income tax (TZS 13.84 billion), finance costs (TZS 37.37 billion) and impairment of financial assets (TZS 39.17 billion). Further, staff costs amounted to TZS 365.72 billion equivalent to 14% of total costs. **Figure 92** shows TANESCO's composition of the cost structure.

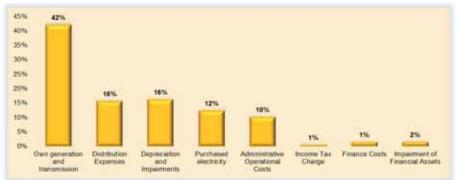


Figure 92: TANESCO's Cost Structure

During the year under review, the overall costs of TANESCO decreased by 22% compared to a decrease of 0.9% recorded in the previous FY. In FY 2023/24, distribution expenses and income tax charges decreased by 11% and 9% respectively. The costs of the remaining categories such as own generation and transmission, depreciation and impairments, purchase of electricity, administrative operational costs, finance costs as well as impairment of financial assets and generation costs increased. **Figure 93** shows the trend of TANESCO's costs.

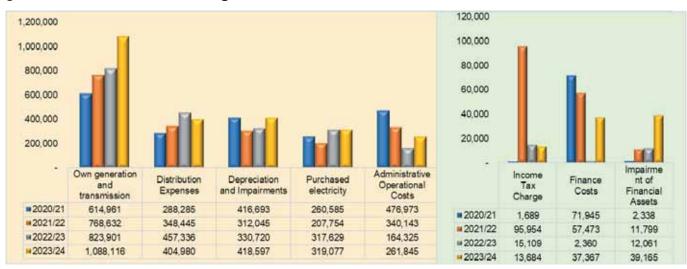


Figure 93: TANESCO's Costs Components Trend

14.4 Cost per Unit Sold

Comparing total costs against total units sold, in FY 2023/24, the average unit cost of electricity sold by TANESCO increased by 10% compared to a decrease of 7% recorded in FY 2022/23. The overall average costs of units sold increased from TZS 256/kWh in FY 2022/23 to TZS 283/kWh in FY 2023/24. **Figure 94** shows the trend of TANESCO's costs.



Figure 94: TANESCO's Average Cost

The increase in generation cost by 32% was associated with an increase in generation activities whereby units sold increased by 10%. Furthermore, to reduce power deficits in the country, TANESCO imported 59,550,860 kWh from Zambia to feed the Rukwa region and 153,810,806 kWh from Uganda to feed the Kagera region. **Figure 95** shows imported electricity from Uganda and Zambia from FY 2020/21 to FY 2023/23 in MW.

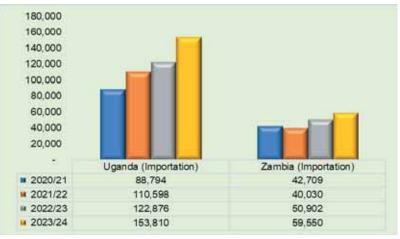


Figure 95: TANESCO's imported Electricity in MW

14.5 PROFIT MARGIN RATIO ANALYSIS

The objective of analyzing the profit margin ratio is to assess the utility performance in terms of net profit generated from electricity income. The general rule of thumb considers a 10% net profit margin as average, a 20% margin as good, and a 5% margin as low. The Profit Margin Ratio was computed as the net profit percentage of sales from electricity. **Table 4** shows the years' profit margin ratio by utilities.

Table 4: Profit Margin Ratio

| Utility | 2020/21 | 2021/22 | 2022/23 | 2023/24 |
|--------------|---------|---------|---------|---------|
| TANESCO | 5% | 6% | 4% | 0.3% |
| SONGAS | 8% | 17% | -10% | 3% |
| Mwenga Power | -172% | -110% | -54% | -60% |
| Mwenga Hydro | -6% | 14% | -21% | -5% |
| | | | | |

Source: Licensee's Financial Statement

In FY 2023/24, TANESCO's profit margin ratio was 0.3% equivalent to TZS 6.09 billion, whereas in the previous year, the profit margin was 3.7% equivalent to TZS 72.4 billion. The profit margin was associated with increased sales from electricity by 12% (TZS 222 billion) and the rise in new connections (554,867 customers) equivalent to 13%. Songas Tanzania Limited recorded a profit margin of 83.1% equivalent to TZS 7.5 billion. On the other hand, Mwenga Power Services and Mwenga Hydro Limited recorded negative profit margins. The analysis showed that TANESCO maintained a positive profit margin ratio for four consecutive years while Mwenga Power Services recorded a negative profit margin ratio for four years consecutively. The positive ratio implied profit while the negative ratio implied utilities did not generate profit.

14.5.1 CURRENT RATIO ANALYSIS

The current ratio analysis is a liquidity ratio that measures a company's ability to pay short-term obligations or those due within one year. It tells how a company can maximize the current assets on its balance sheet to satisfy its current debt and other payables. A good current ratio ranges from 1 to 2, which means that the business has two times more current assets than liabilities to cover its debts. A current ratio below one means that the company does not have enough liquid

assets to cover its short-term liabilities. **Figure 96** shows the current ratios trend from FY 2020/21 to 2023/24 by utilities.

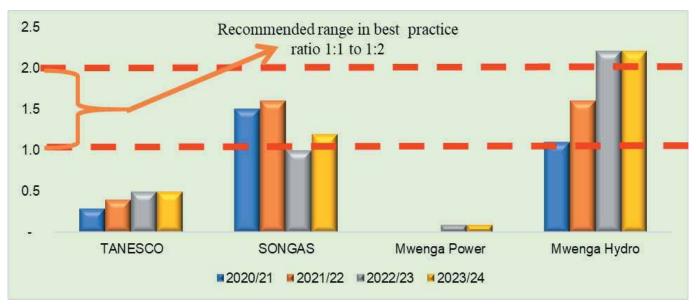
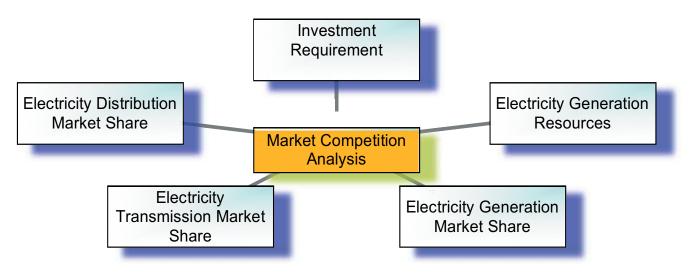


Figure 96: Current Ratio by Utilities

The analysis shows that, for four consecutive years, Songas Tanzania Limited recorded the current ratio recommended in best practice. This implies the company was better positioned to meet short-term obligations and efficiently utilize its working capital. In FY 2023/24 Mwenga Hydro Limited recorded an excessive current ratio. TANESCO and Mwenga Power Services Limited were unable to pay short-term obligations on time as they recorded a ratio below 1.

15. MARKET COMPETITION ANALYSIS

The current Electricity Supply Industry market structure is the single buyer model as in **Figure 1**. The public utility, namely TANESCO conducts electricity generation, transmission, distribution, supply, cross-border trade, and system operation, among others. Likewise, private entities generate, and sell electricity to TANESCO with the option to sell to other customers whom TANESCO does not supply. Therefore, this section highlights market completion analysis based on issues described in **Figure 97**.





15.1 Investment Requirement

The Power System Master Plan (PSMP) of 2020 indicates the continuous growth in electricity demand. The demand is forecasted to grow from 2,677MW in 2025 to 17,611MW in 2034 as shown in **Figure 98**. This indicates the need for a significant investment in electricity generation, transmission, and distribution infrastructures.

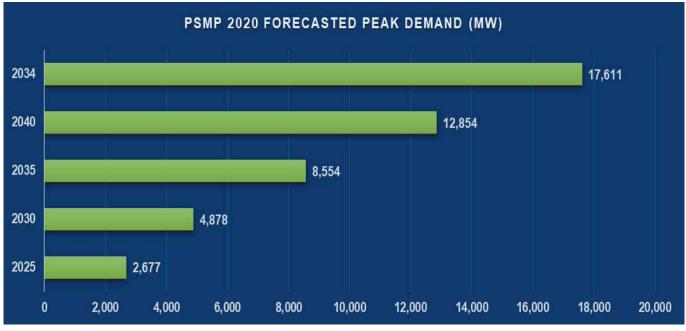


Figure 98: Forecasted Electricity Demand (2025-2034)

15.2 Electricity Generation Resources

The PSMP indicates the availability of significant resources for electricity generation. The resources account for 23,495.73MW as in **Figure 99**. The developed resources as of June 2024, accounted for 2,411.00 MW (10.3%) in **Figure 37**. This indicates a need for significant investment to develop the available resources, thereby requiring private participation where economically viable.

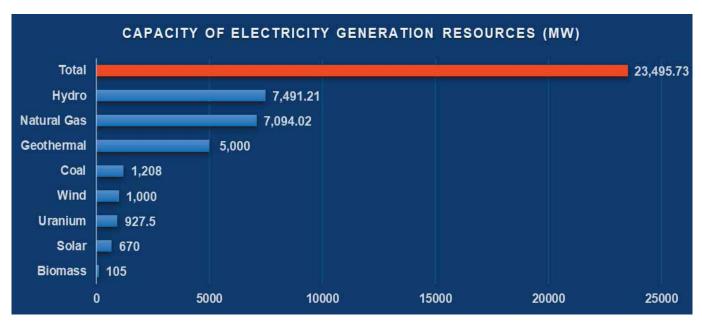


Figure 99: Capacity of Available Electricity Generation Resources (MW)

15.3 Electricity Generation Market Share

The market share by installed capacity as of June 2024 indicated that TANESCO accounts for 91% and private entities 9% as in **Figure 100**. Likewise, in electricity generation, TANESCO accounts for 83% and private entities 17% as in **Figure 101**. This indicates a need for more private investment in the electricity supply industry.

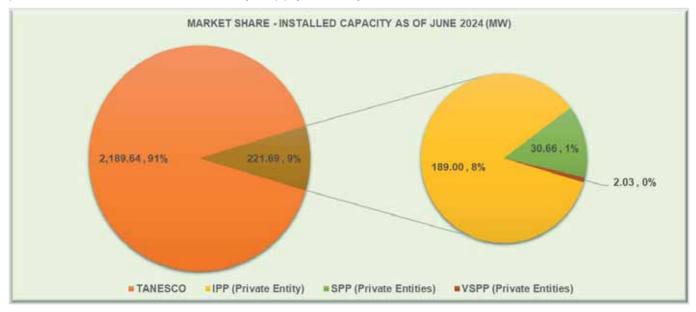


Figure 100: Market Share – Installed Capacity as of June 2024 (MW)

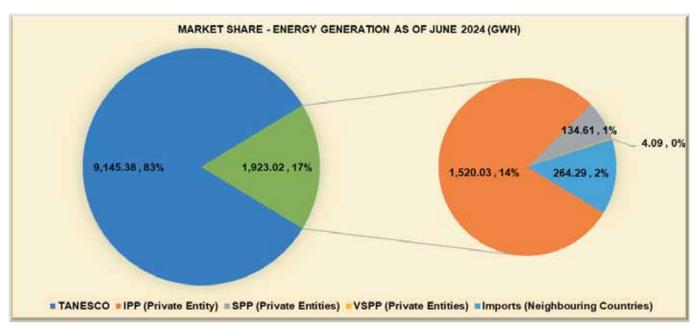


Figure 101: Market Share – Electricity Generation as of June 2024 (MWh)

15.4 Electricity Transmission Market Share

TANESCO, being the oldest and a state-owned company, enjoys a 100% share in electricity transmission activities. This aligns with Rule 5(4) of the Electricity (Generation, Transmission and Distribution Activities) rules, 2024. Private entities can finance the construction of the transmission infrastructures in line with Regulation 4 of the Electricity (General) Regulations, 2020.

15.5 Electricity Distribution Market Share

The market share by the customer as of June 2024 was 99.50% for TANESCO and 0.50% for other entities as in **Figure 102** and details in **Figure 61** and **Figure 62**. Likewise, the largest infrastructure market shareholder is TANESCO is 99.44%, while 0.56% are for private entities as in **Figure 103** and details in **Figure 58** and **Figure 59** respectively. This indicates a need for more private investment in the electricity supply industry.

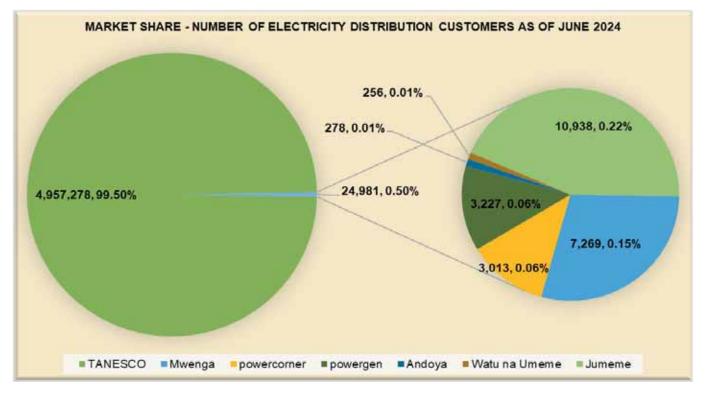


Figure 102: Market Share – Electricity Distribution Customer as of June 2024

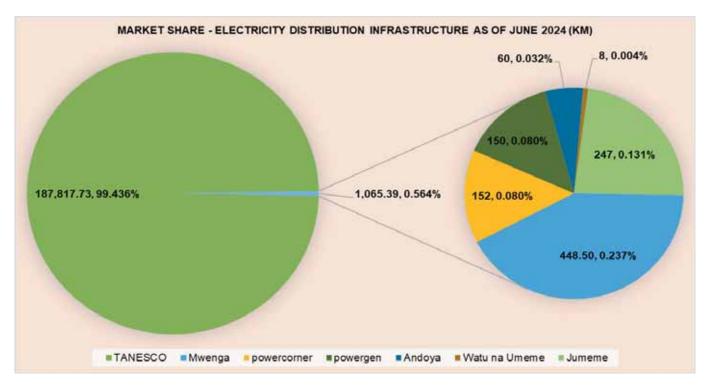


Figure 103: Market Share – Electricity Distribution Infrastructure as of June 2024 (KM)

16. REGULATORY IMPACT

During the period under review, EWURA made the following regulatory impact as a result of its duties and responsibilities upon the electricity sub-sector.

16.1 Affordability of electricity services:

Electrical Installation Licences: During the year under review, 1,569 licenses were issued, hence increasing the number of licensed personnel to provide electrical installation services, particularly in rural areas thereby promoting customer service through competition. Furthermore, it increased the safety of people and their property.

Tariff Order: Seven (7) tariff orders were approved for utilities supplying electricity to end-user customers. Likewise, one (1) tariff order was issued to small power project selling electricity to the grid. The approved tariff rates are meant to ensure the affordability of electricity services to customers as well as the efficient operation of regulated entities.

16.2 Security Of Electricity Supply

Generation Licence: Three-generation licences were issued of which its commissioning will complement the Government's effort to ensure the security of power supply by adding 14.5MW at the National Grid.

Power Purchase Agreement (PPA): The regulator approved 27 PPAs for private entities to develop power plants during the year under review. When commissioned, the approved PPA will account for 332MW, ensuring the security of the electricity supply.

16.3 Quality and Reliability of Services

Performance agreement: In June 2024, EWURA signed with TANESCO performance agreement that establish key performance indicators necessary for promoting the quality and reliability of electricity supply.

Compliance Monitoring: Compliance monitoring inspections were carried out to all regulated entities to ensure efficient operation and compliance with relevant legislations, aiming at ensuring the quality of electricity supply.

Reliability Of Electricity Supply: The System Average Interruption Frequency Index (SAIFI) improved by 12 (47.7%) from 26 in FY2022/23 to 14 in FY2024. The System Average Interruption Duration Index (SAIDI) improved by 982 minutes (63.9%) from 1,536 in FY2022/23 to 554 in FY2023/24.

16.4 Investments

Several projects that will increase the security of electricity supply upon commissioning were under implementation as follows: For the public sector, there were four (4) Electricity Generation Infrastructures (2,235.5MW), 27 transmission lines (5,033km), and 39 grid substations (3,801MVA). Meanwhile, the private sector developed 39 electricity generation projects accounting for 179.59MW.

16.5 Sustainability of Regulated Entities

In promoting efficient operations and sustainability of regulated entities, tariffs for six (6) mini-grid operators were approved to ensure cost-reflective tariffs and hence sustainability of mini-grids. Likewise, compliance monitoring continued to be conducted as part of enforcing compliance with the approved tariffs for the regulated entities. Furthermore, regulated entities were monitored and measured in compliance with performance agreements to ensure efficient and effective operation.

16.6 Electrification

Compliance monitoring on the performance of regulated entities was going on in line with the performance agreement and relevant legislation to ensure the timely connection of customers to the power supply. As a result, 554,867 new customers were connected in FY2023/2024.

17. CONSUMER SAFEGUARD

17.1 Customer Service Charter

EWURA continued to monitor the services provided by the regulated entities to ensure the quality and reliability of services EWURA enforced the regulated entities supplying electricity to implement a Customer Service Charter for monitoring service provision. TANESCO complied by 82% on the Customer Service Charter's requirements.

17.2 Compliance Monitoring

EWURA conducted compliance monitoring inspections to 29 TANESCO regions, Mwenga Power Services Limited, and Andoya Hydro Electric Power Limited to monitor the quality and reliability of the services provided. Further, the regulator carried out awareness seminars to the general public to enhance awareness of their rights and obligations on services provided by the service providers.

17.3 Performance Agreement

Further, on 14th June 2024, EWURA entered into a Performance Agreement with Key Performance Indicators (KPIs) with TANESCO to ensure the provision of reliable and quality services to the services consumers. EWURA will continue to monitor the implementation of the Performance Agreement.

18. FUTURE OUTLOOK OF THE ELECTRICITY SUPPLY INDUSTRY

The future outlook of electricity industry is encouraging. The following are some anticipated future outlooks of the sub-sector.,

18.1 Generation Mix

As of June 2024, the Tanzania Grid System comprised hydro, thermal, and biomass units owned by TANESCO and IPPs with a total capacity of 2,372.96 MW, out of which hydro was 1,071.27 MW (45.1%), natural gas was 1,198.82 MW (50.5%), liquid fuel was 92.35 MW (3.9%) and biomass was 10.50 MW (0.4%).

Based on the Power System Master Plan 2020, the generation plan indicates that the total installed capacity for the planning horizon (2020–2044) is 20,194 MW of which the overall generation mix is hydro (5,684 MW) 26.28%, natural gas (6,700MW) 36.50%, coal (5,300 MW) 24.55%, wind (800MW) 5.08%, solar (715 MW) 1.52%, and geothermal (995 MW) 6.06%. Further, it indicates that the total power supply capacity in the short term required is 3,966 MW, medium is 12,257MW and long term is 20,194 MW.

Achieving the balanced generation mix will require the implementation of the projects as per the timeline stipulated under PSMP, which requires the involvement of both private and public investments through competitive procurement. In collaboration with the government, EWURA will continue to promote investments and put in place conducive regulatory investment frameworks.

18.2 Generation Forecast

The trends show that there was an increase of 1,203.63 GWh (12.20%) in generated and imported energy, from 9,864.77 GWh in 2023/24 to 11,068.40 GWh in FY 2023/24. The energy generated was expected to continue increasing as per PSMP 2020 projections which indicate that energy generation of 15,271GWh in 2025, 28,663GWh in 2030, 51,496GWh in 2035, 78,657GWh in 2040, and 107,937GWh by 2044. To achieve the intended generation forecast, the private investors should be incentivized to participate in the development of the power projects.

18.3 Power Demand

The trends indicate that there was an increase of maximum demand by 174.73MW (11.88%) from 1,470.50MW in FY 2022/2023 to 1,645.23MW in FY 2023/2024. The electricity demand was expected to continue increasing as per PSMP 2020, whereby the demand is expected to grow at an average of 11.7%, resulting in a demand of 2,677MW in 2025, 4,878MW in 2030, 8,554MW in 2035, 12,854MW in 2040, and 17,611MW in 2044. To achieve that there should be incentives for both grid and off-grid extension investments to promote both private and public investments.

18.4 Electrification

The government through REA in fostering rural electrification in collaboration with TANESCO and private entities, has contributed to the increase of customers connected to the power supply by 559,595 (12.65%) from 4,422,664 in FY 2022/23 to 4,982,259 in FY 2023/24 as in **Figure 61**. Likewise, details of customers for registered entities are presented in **Figure 62**.

The trend indicates that 4,982,259 customers were connected to electricity, an increase of 559,595 (12.65%) from the previous year. Under the PSMP 2020, electricity connectivity is expected to grow to 36.2% in 2025, 48.5% in 2030, 75.7% in 2035, 86.3% in 2040, and 96.1% in 2044. To achieve that, it is imperative that incentives should continue to be provided to both public and private entities to promote increased electricity access and connection.

18.5 System Losses

The trend indicates that the system losses for FY 2023/24 were 14.61%, an increase of 0.04% from 14.57% in the previous year. To reduce the energy losses, the utility is undertaking several initiatives, including the construction of new and rehabilitation of the existing transmission and distribution infrastructure, as well as conducting operational campaigns against energy theft. In future, the system losses are expected to be 12.3% by 2025 to 12% by 2026 as per PSMP 2020 provided that investments are carried out as planned.

18.6 Energy Efficiency and Demand Side Management

To ensure the security of power supply to meet the demand in the sector based on the current growth and the need to preserve the environment, there should be a conducive setting that attracts public and private capital investments in energy efficiency and demand side management. Furthermore, such a conducive setting and incentives should encourage customers to participate in the energy efficiency and demand-side management frameworks. In collaboration with the government, EWURA will continue to create awareness, promote investments, and put in place conducive regulatory frameworks.

18.7 Electricity Market Trend

The country has witnessed several market trends requiring significant amounts of electricity. These include the development of the Liquefied Natural Gas Project; the ongoing adoption of electric mobility technology, the introduction of electric trains following the commencement of construction of the Standard Gauge Railway project (SGR), and country commitments to modern cooking technology, including electricity cooking (e-cooking) to reduce carbon emissions. Thus, EWURA, under the guidance of the government, and in collaboration with other stakeholders will continue to develop the regulatory framework for enhancing the smooth adoption of emerging issues in the electricity supply industry.

19. ACHIEVEMENTS AND CHALLENGES

19.1 Achievements

During the period under review, the positive regulatory environment in the country has led to achievements in the electricity sub-sector that include the following:-

- a) Issuance of three (3) generation licenses with a capacity of 14.5MW upon its commissioning to enhance the security of electricity supply.
- b) Issuance of 1,569 electrical installation licences to enhance electrical installations, particularly in rural areas.
- c) Approval of 27 power purchase agreements for private entities to develop power plants that account for 332MW upon its commissioning, hence increasing the security of the electricity supply.
- d) Compliance monitoring for ensuring the efficient operation of 30 entities licensed for electricity generation above one (1) megawatt, one (1) entity licensed for electricity transmission, two (2) entities lilicensed for electricity distribution, 13 entities registered for electricity below one (1) megawatt.
- e) Approval of 27 Power Purchase Agreements (PPA) for private entities to develop power plants that account for 332MW upon its commissioning, hence ensuring the security of electricity supply.
- f) Compliance monitoring to ensure the performance of fifty-nine (59) existing approved Power Purchase Agreements (PPAs) with a capacity of 629.125MW

- g) Compliance monitoring to ensure the performance of tariff orders to Seven (7) entities selling electricity to customers. As well as to entities selling electricity in bulk to the main and off-grid through the Electricity (Standardized Small Power Projects Tariff) Order, 2019.
- h) Resolving 146 complaints and disputes between regulated entities and respective customers.
- i) Increased installed capacity by 499.87 MW (26.15%) from 1,911.46MW in FY2022/23 to 2,411.33MW in FY 2023/2024.
- j) Increased maximum demand by 174.73MW from (11.88%) from 1,470.50MW in FY 2022/2023 to 1,645.23MW in FY 2023/2024.
- k) Increase in energy generation and Imports by 1,203.63GWh (12.20%) from 9,864.77GWh in FY 2022/23 to 11,068.40 GWh in FY 2023/2024.
- I) Increased transmission line by 674km (9.84%) from 6.7,524km in FY 2023/2024.
- m) Increased grid substations by four (4) (6.35%) from 63 in to 67 in FY 2023/2024.
- n) Increased distribution infrastructure by 24,521.67 km (14.98%) from 163,744.56 km in FY 2022/23 to 188,266.23 km in FY 2023/24.
- o) Increased customer connection by 559,595 (12.65%) from 4,422,664 in FY 2022/23 to 4,982,259 in FY 2023/24.
- p) Improvement in reliability of electricity supply where the SAIFI improved by 12 (47.7%) from 26 in FY 2022/23 to 14 in FY 2023/2024. Likewise, the SAIDI improved by 982 minutes (63.9%) from 1,536 in FY 2022/23 to 554 in FY 2023/24.
- q) Increased investment whereby, for the public sector, there were four (4) Electricity Generation Infrastructures (2,235.5MW), 27 transmission lines (5,033km), and 39 grid substations (3,801MVA). Meanwhile, the private sector developed 39 electricity generation projects accounting for 179.59MW.
- r) Promoting electricity for clean cooking to ensure that 80% of households use clean energy, including electricity for cooking by 2034.

19.2 Challenges

During the period under review, the sub-sector faced some challenges which include the following:

- a) Poor hydrology in water catchment areas that affected the performance of hydropower plants; and
- b) Inadequate private sector investments in the sub-sector.

20. CONCLUSION

Generally, there is no doubt that electricity demand is growing. To manage the demand, there is a need for more investment in the sub-sector. In this regard, EWURA, in collaboration with the government and other key stakeholders, will continue to regulate and promote more investments in the electricity sub-sector to meet the growing demand.

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 | 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 | Sections |
|-----|--|----------|
| 1) | award licenses to entities undertaking or seeking to undertake a licensed | 5(a) |
| | activity | |
| 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 customer's interests through the promotion of competition | 6(1)(a) |
| 6) | promote access to, and affordability of, electricity services particularly in the | 6(1)(b) |
| | rural area | |
| 7) | promote least-cost investment and the security of supply for the benefit of | 6(1)(c) |
| | customers | |
| 8) | promote improvements in the operational and economic efficiency of the | 6(1)(d) |
| | electricity supply industry and efficiency in the use of electricity | |
| 9) | promote appropriate standards of quality, reliability, and affordability of | 6(1)(e) |
| | electricity supply | |
| 10) | take into account the effect of the activities of the electricity supply industry on | 6(1)(f) |
| | the environment | |
| 11) | protect the public from dangers arising from the activities of the electricity | 6(1)(g) |
| | supply industry | |

| 12) | promote the health and safety of persons in the working environment employed | 6(1)(h) |
|-----|--|----------|
| | in the electricity supply industry | |
| 13) | monitor and measure a licensee's performance and compliance with the | 30(1) |
| | Electricity Act, Cap. 131 | |
| 14) | Approve power purchase agreement | 25(3) |
| 15) | Concluding a performance agreement with Licensees | 14(5)(d) |
| | | |

C. Tanzania Electricity Supply Company Limited

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

D. Private Regulated Entities

| S/N | Description in line with the Electricity Act, Cap. 131 | 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 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 2020 |
| 5) | National Clean Cooking Strategy (2024-2034) |
| | |

B. Acts

| S/N | Description |
|-----|--|
| 1) | The Electricity Act, Cap.131 |
| 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, 2023 | | | | | |
| 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: ACTIVE LICENCES AS OF JUNE 2023

(a). Electricity Generation License for Sale as of June 2024

| | | | | | Canacity | | | | |
|---------|--|-------------------|-------------------------------------|-------------------|------------------|---------------------|----------------|---------------|----------------|
| S/N | Name of Licensee | Project Area | Energy Source | Capacity (MW) | for Sale (MW) | Duration (Years) | License No. | Date of Issue | Date of Expiry |
| - | Songas | Ubungo | Natural Gas | 189 | 189 | 33 | I | 11-Oct-2001 | 10-Oct-2034 |
| 7 | TANESCO | Mainland Tanzania | Hydro, Natural Gas, HFO & Diesel | 2189.64 | 2189.64 | 20 | EGL-2013-001 | 3-Jan-2013 | 28-Feb-2033 |
| TPC Ltd | 3 Ltd | Moshi | Biomass | 20.00 | 00.6 | 13 | EGL-2012-006 | 18-Jun-2012 | 17-Jun-2025 |
| 4 | Tanganyika Wattle Company Ltd | Njombe | Biomass | 2.75 | 1.50 | 13 | EGL-2012-005 | 18-Jun-2012 | 17-Jun-2025 |
| 2 | Mwenga Hydro Limited | Mufindi | Hydro | 4.00 | 4.00 | 15 | EGL-2013-001 | 3-Jan-2013 | 28-Feb-2028 |
| 9 | Tulila Hydro Electric Plant Co. Ltd | Songea | Hydro | 7.50 | 5.00 | 20 | EGL-2016-001 | 8-Mar-2016 | 8-Feb-2030 |
| 7 | Andoya Hydro Electric Power Co. Ltd | Mbinga | Hydro | 1.00 | 1.00 | 15 | EGL-2016-002 | 22-Aug-2016 | 21-Aug-2031 |
| ω | Ngombeni Power Limited | Mafia | Biomass | 1.40 | 1.40 | 15 | EGL-2016-003 | 9-Jul-2016 | 9-Jun-1931 |
| 6 | Luponde Hydro Limited | Njombe | Hydro | 1.06 | 06.0 | 15 | EGL-2020-001 | 30-Jun-2020 | 29-Jun-2035 |
| 10 | Madope Hydro Company Ltd. | Ludewa | Hydro | 1.84 | 1.70 | 15 | EGL-2020-002 | 30-Jun-2020 | 29-Jun-2035 |
| 1 | Mwenga Hydro Limited | Mufindi | Wind | 2.40 | 0 | 15 | EGL-2020-003 | 29-Dec-2020 | 28-Dec-2035 |
| 12 | NextGen Solawazi Ltd. | Kigoma | Solar | 5.00 | 5.00 | 20 | EGL–2021 - 002 | 31-May-2020 | 30-May-2041 |
| | Total | | | 46.95 2,425.59 | 29.5 2,408.14 | | | | |

(b). Electricity Generation Licence for Own Use as of June 2024

| | | - | Energy | Capacity | Duration | | | L |
|----|---------------------------------------|-------------------------|----------------------|----------|----------|----------------|---------------|----------------|
| Z | Name of Licensee | Project Area | Source | (MM) | (Years) | LICENSE NO. | Date of Issue | Uate of Expiry |
| - | Ashanti Goldfields T Ltd | Geita | Diesel | 31 | 25 | P/G 1134 | 12-Mar-1999 | 12-Feb-2024 |
| 7 | Lake Cement Limited | Kimbiji Village, Temeke | Coal | 15.4 | 15 | BEGL-2016-001 | 29-Mar-2016 | 28-Mar-2031 |
| с | Tanga Cement Public Limited Co. | Tanga | Diesel | 11.48 | 15 | SEGL-2016-001 | 10-Apr-2016 | 10-Mar-2031 |
| 4 | Kilombero Sugar Company Ltd. | Kidatu - Morogoro | Biomass | 12.552 | 15 | BEGL-2017-001 | 18-Apr-2017 | 17-Apr-2032 |
| വ | Kagera Sugar Limited | Misenyi - Kagera | Biomass | 6.2 | 15 | BEGL-2017-002 | 18-Apr-2017 | 17-Apr-2032 |
| 9 | Shanta Mine Co. Ltd | Songwe | Diesel | 8.2 | 15 | BEGL-2018-001 | 2-Feb-2018 | 2-Jan-2033 |
| 2 | Kilombero Plantations Limited | Morogoro | Biomass | 1.692 | 15 | EGL-2018-001 | 30/2/2018 | 29-Aug-2033 |
| ∞ | Geita Gold Mining Limited | Geita | Diesel | 40 | 25 | BEGL-2018-002 | 12-Mar-1999 | 12-Feb-2024 |
| 6 | Tanzania Cigarette Public Ltd. Co. | Dar es Salaam | Natural Gas | 3.8 | 5 | BEGL-2019-001 | 22-Mar-2019 | 21-Mar-2024 |
| 10 | Stamigold Co. Ltd. | Biharamulo | Diesel | 7 | 15 | BEGL-2019-002 | 22-Mar-2019 | 21-Mar-2034 |
| 11 | Dangote Cement Ltd. | Mtwara | Natural Gas | 45 | 5 | BEGL-2019-003 | 30-Mar-2019 | 29-Apr-2024 |
| 12 | ALAF Ltd. | Dar es Salaam | Natural Gas | 4 | 5 | BEGL-2020-001 | 30-Jan-2020 | 29-Jan-2025 |
| 13 | North Mara Goldmine Ltd | Tarime | Heavy Fuel Oil | 18 | 5 | EGOWL-2020-001 | 27-Nov-2020 | 26-Nov-2025 |
| 14 | Bulyanhulu Goldmine Ltd | Kahama | Heavy Fuel Oil | 39.1 | 5 | EGOWL-2020-002 | 27-Nov-2020 | 26-Nov-2025 |
| 15 | Dangote Cement Limited | Mtwara | Natural Gas | 50 | 5 | EGOWL-2021-001 | 28-Jun-2020 | 27-Jun-2026 |
| 16 | Maweni Limestone Ltd. | Tanga | Coal | 7.5 | 5 | EGOWL-2022-002 | 29-Sep-2022 | 28-Sep-2027 |
| 17 | Bagamoyo Sugar Ltd. | Bagamoyo | Biomass | 5 | 5 | EGOWL-2022-001 | 9-Sep-2022 | 8-Sep-2027 |
| 18 | Kagera Sugar Ltd. | Kagera | Diesel, Bio- mass | 27.5 | 15 | EGOWL-2022-003 | 18-Apr-2017 | 17-Apr-2032 |
| | Total | | | 333.424 | | | | |

(c). Electricity Transmission Licence as of June 2024

| S/N | Name of Licensee | Project Area | Capacity (km) | Duration (Years) | License Number | Date of Issue | Date of Expiry |
|-----|---------------------|-------------------|------------------|---------------------|----------------|---------------|----------------|
| 1 | TANESCO | Mainland Tanzania | 6110.28 | 20 | ETL-2021-001 | 1-Mar-2013 | 28-Feb-2033 |
| | | | | | | | |

(d). Electricity Cross Boarder Trade Licence as of June 2024

| 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 Distribution Licences as of June 2024

| S/N | Name of Licensee | Project Area | Length (km) | Customers | Duration (Years) | License Number | Date of Issue | Date of Expiry |
|-----|-------------------------------|----------------------|----------------|-----------|---------------------|-------------------|------------------|-------------------|
| 1 | TANESCO | Mainland Tanzania | 163,296.06 | 4,400,070 | 20 | ESL-2013-001 | 1-Mar-2013 | 28-Feb-2033 |
| 2 | Mwenga Power Services Ltd. | Mufindi & Njombe | 495.10 | 5,636 | 15 | EDL-2013-005 | 30-Apr-2013 | 29-Apr-2028 |
| | Total | | 163,791.16 | | | | | |

(f). Electricity Supply Licence as of June 2024

| S/N | Name of Licensee | Project Area | Customer | Duration (Years) | License Number | Date of Issue | Date of Expiry |
|-----|---------------------|----------------------|-----------|---------------------|----------------|---------------|----------------|
| 1 | TANESCO | Mainland Tanzania | 4,400,070 | 20 | ESL-2021-001 | 1-Mar-2013 | 28-Feb-1933 |
| | | | | | | | |

(g). Provisional Electricity Generation Licenses as of June 2024

| S/N | Licensee | Project Area | Energy Source | Capacity (MW) | Duration (Years) | License Number | Date of Issue | Date of Expiry |
|-----|---------------------------|-----------------|------------------|------------------|---------------------|-------------------|---------------------|---------------------|
| 1 | SSI Energy (T) Limited | Kahama | Solar | 10 | 3 | PEGL-2022-001 | 29 April 2022 | 28 April 2025 |
| 2 | Suma Hydro Limited | Rungwe | Hydro | 4 | 3 | PEGL-2023-001 | 18 February 2023 | 17 February 2026 |
| | | | | | | | | |

ANNEX 4: TOTAL REGISTERED ENTITIES SELLING ELECTRICITY AS OF JUNE 2023

| | | Generation | | | | | | | |
|--------------|--|-----------------------------|--------------------------------|---------------|---|---------------------|----------|------------------|----------|
| Z | Project Area Mini Grid | Canacity | Redistration No | Duration | Date of Issue | Date of Exnirv | Customer | Line Lengtn (km) | gtn (km) |
| | | (KW) | | (Years) | | | served | 0.23/0.4kV | 11/33kV |
| Ŕ | Darakuta Hydropower Development Co. Limited (Gener | nt Co. Limited | (Generating using H | lydro, locate | ating using Hydro, located in the Main Grid and sells to TANESCO) | id sells to TANESCO | • | | |
| . | Magugu – Babati District, Manyara Region | 450 | AN | 10 | 03-Jul-13 | 02-Jul-23 | - | 0 | 0 |
| | Sub-Total | 450 | | | | | - | 0 | 0 |
| ю | Yovi Hydropower Company Limited (Generating using | d (Generating | | d in the Mai | Hydro, located in the Main Grid and sells to TANESCO) | (NESCO) | | | |
| ~ | Msolwa - Kilosa District, Morogoro Region | 995 | CRG - 2019 - 009 | 10 | 16-Apr-19 | 15-Apr-29 | - | 0 | 0 |
| | Sub-Total | 995 | | | | | - | 0 | 0 |
| ပ | PowerCorner Tanzania Limited (generating and distributing using solar, located in off-grid and sells to customers) | nerating and | distributing using so | lar, located | in off-grid and sells t | o customers) | | | |
| - | Orkejuloongishu Village, Ketumbeine Ward. Longido District. | 15.6 | CRG-2016-001 & CRD-2016-001 | 10 | 6 October 2016 | 5 October 2026 | 81 | 5 | 0 |
| 7 | Mbaya Village, Liwale District, Lindi Region | 30 | CRG-2018-005 & CRD-2018-005 | 10 | 31 October 2018 | 30 October 2028 | 270 | 13.3 | 0 |
| с | 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 |
| ъ | Mwenge Village, Sikonge District, Tabora Region | 28 | CRG-2019-014 & CRD-2019-014 | 10 | 1 July 2019 | 30 June 2029 | 362 | 16.9 | 0 |
| 9 | Mgambo Village, Sikonge District, Tabora Region | 20 | CRG-2019-015 & CRD-2019-015 | 10 | 1 July 2019 | 30 June 2029 | 222 | 9.7 | 0 |
| ~ | Kiegei Village, Nachingwea District, Lindi Region | 16 | CRG-2019-016 & CRD-2019-016 | 10 | 18 December 2019 | 17 December 2029 | 256 | 12.8 | 0 |
| ω | Matekwe Village, Nachingwea District, Lindi Region | 12 | CRG-2019-017 & CRD-2019-017 | 10 | 18 December 2019 | 17 December 2029 | 161 | 9.8 | 0 |
| ი | 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 |
| 9 | Kagerankanda Village, Kasulu District. Kigoma Region | 44 | CRG-2019-019 & CRD-2019-019 | 10 | 18 December 2019 | 17 December 2029 | 442 | 17.6 | 0 |
| £ | Kalya Village, Uvinza District, Kaqoma Region | 28 | CRG-2019-020 & CRD-2019-020 | 10 | 18 December 2019 | 17 December 2029 | 314 | 19.7 | 0 |
| 12 | Holola 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 |
| ġ | Watu na Umeme Limited (generating and distributing using solar, located in the off-grid and sells to customers) | <mark>ng and distrib</mark> | uting using solar, loc | cated in the | off-grid and sells to c | customers) | | | |

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| - | 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 |
| ບ່ | Power Gen Renewable Energy Limited (generating and | ited (generat | | ısing solar, | distributing using solar, located in the off-grid and sells to customers) | and sells to custom | iers) | | |
| - | 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. | ო | CRG-2018-004 & CRD-2018-004 | 10 | 20 August 2018 | 19 August 2028 | 50 | 7.1 | 0 |
| ო | 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 |
| 2 | 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 |
| 9 | 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 |
| 80 | Nemba Village, Biharamulo District, Kagera Region. | 23.52 | CRG-2019-006 & CRD-2019-006 | 10 | 11 January 2019 | 10 January 2029 | 182 | 0 | 0 |
| റ | 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 |
| 5 | 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 | 119-011 19-011 | 10 | 1 July 2019 | 30 June 2029 | 181 | 10.1 | 0 |
| 13 | Kanyara Village, Kasalazi island, Buchosa District, Mwanza Region | 30.32 | 19-012 19-012 | 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, Ìlemela 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 |

| Ŧ | Jumeme Rural Power Supply Ltd (generating | generating a | and distributing using a | solar, locate | solar, located in the off-grid and s | sells to customers) | | | |
|----|---|--------------|--------------------------------|---------------|--------------------------------------|---------------------|-------|---------|--------|
| - | Bwisya - Ukara Island | 90 | | 10 | 8 April 2016 | 7 April 2026 | 682 | 16.096 | 5.798 |
| 7 | Kibumba village, Muleba District | 10 | CRG-2020-001 & CRD-2020-001 | 10 | 14 May 2020 | 13 May 2030 | 70 | 1.572 | 0 |
| с | 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 |
| ъ | Kerebe village, Muleba District | 35 | CRG-2020-004 & CRD-2020-004 | 10 | 14 May 2020 | 13 May 2030 | 279 | 2.503 | 0 |
| 9 | Goziba village, Muleba District | 45 | CRG-2020-005 & CRD-2020-005 | 10 | 14 May 2020 | 13 May 2030 | 379 | 3.635 | 0 |
| 2 | Lukuba village, Musoma District | 10 | CRG-2020-006 & CRD-2020-006 | 10 | 14 May 2020 | 13 May 2030 | 155 | 4.732 | 0 |
| ω | Kanoni village, Buchosa District | 100 | CRG-2020-007 & CRD-2020-007 | 10 | 14 May 2020 | 13 May 2030 | 666 | 18.457 | 7.05 |
| ര | 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 |
| 7 | 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 |

| GEN | GENERAL SUMMARY FOR ALL COMPANIES | | | - | |
|-----|--|----------|----------|---------|--|
| ٩ | Generation Capacity (kW) | 2020/21 | 2021/22 | 2022/23 | %± Description |
| - | 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 |
| с | 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 |
| 9 | 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). |
| В | Number of Customer | 2020/21 | 2021/22 | 2022/23 | % T |
| ∞ | Total VSPP_Hydro + Solar | 16,661 | 16,661 | 16958 | 34% All registered entities |
| 6 | 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) + |
| 5 | Total VSDD Hvdro Main Grid | · · · | · · · | · · | 0% Darakita (1) + Vovi (1) – all sall to TANESCO |
| -12 | Total VSPP Hvdro Off Grid | 1 0 | 10 | 1 0 | |
| 13 | - | 0 | 5 | 0 | |
| 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). |
| ပ | Infrastructure Line length (km) | 2020/21 | 2021/22 | 2022/23 | |
| 15 | 5 Total VSPP_Hydro + Solar | 544.91 | 544.91 | 557.055 | 34% All registered entities |
| 16 | 3 Total_VSPP_solar_Main Grid | 0 | 0 | 0 | 0% No registered entity in this category |
| 17 | 17 Total_VSPP_Solar_Off Grid | 544.91 | 544.91 | 557.055 | 91% PowerCorner (152) + Watu na Umeme (7.75) + Powergen |
| 18 | 3 Total VSPP Hydro Main Grid | 0 | 0 | 0 | 0% Darakuta (0) +Yovi (0) – all are generating only |
| 19 | <pre> 1 Total_VSPP_Hydro_Off Grid </pre> | 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). |
| | | | _ | _ | |

Electricity Sub-Sector Regulatory Performance Report For The Financial Year 2023/24

ANNEX 5: POWER PURCHASE AGREEMENT

| S/N | Name of Developer | Capacity (MW) | Energy Source | Location | Expected COD | Expire Date | Status |
|-----|--|------------------|------------------|-----------------------|-----------------|-------------|-------------------------------|
| 1 | Songas Tanzania Ltd. | 189.00 | Gas | Dar es Salaam | 01-Aug-04 | 31-Jul-24 | Operational |
| 2 | Darakuta Hydropower Development Co. Ltd. | 0.32 | Hydro | Magugu – Babati | 01-Apr-16 | 31-Mar-31 | Operational |
| 3 | Matembwe Village Community Co. Ltd. | 0.49 | Hydro | Njombe | 01-Nov-16 | 31-Oct-31 | Operational |
| 4 | Mwenga Hydro Limited | 3.60 | Hydro | Mufindi | 27-Sep-12 | 26-Sep-27 | Operational |
| 5 | Tulila Hydro Electric Plant Co. Ltd. | 5.00 | Hydro | Songea | 01-Sep-15 | - | Operational |
| 6 | Andoya Hydro Electric Power Co. Ltd. | 1.00 | Hydro | Mbinga | 20-Mar-15 | | Operational |
| 7 | Ngombeni Power Limited | 1.40 | Biomass | Mafia | 01-Feb-14 | | Operational |
| 8 | Tanganyika Planting Co. Ltd. | 9.00 | Biomass | Moshi | 16-Sep-15 | • | Operational |
| 9 | Tanganyika Wattle Co. Ltd. | 1.50 | Biomass | Njombe | 15-Jun-10 | 14-Jun-25 | 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 | ZECO | 145.00 | Export | Zanzibar | 07-Nov-23 | 06-Nov-53 | Operational |
| 16 | Rusumo Power Co. Ltd | 26.67 | Hydro | Ngara, Kagera | 30-Sep-23 | 29-Sep-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 | 30.00 | Import | Uganda | 17-Aug-23 | 16-Aug-26 | Operational |
| 19 | Nishati Lutheran (DKK) Investment Ltd. | 0.36 | Hydro | Makete, Njombe | 12-Sep-23 | | Operational |
| 20 | Zambia Electricity Supply Co. Ltd (ZESCO) | 20.00 | Import | Zambia | 01-Sep-17 | - | Operational |
| 21 | FGS Ecoenergy Ltd. | 10.00 | Solar | Msalala, Shinyanga | 27-Jun-24 | | Construction not commenced |
| 22 | FGS Ecoenergy Ltd. | 5.00 | Solar | Newala, Mtwara | 27-Jun-24 | | Construction not commenced |
| 23 | Maximum Power Tanzania Ltd. | 7.00 | Solar | Nsimbo, Katavi | 27-Jun-24 | | Construction not commenced |
| 24 | Oreon Renewables Ltd. | 5.00 | Solar | Kaliua, Tabora | 27-Jun-24 | | Construction not commenced |
| 25 | Oreon Renewables Ltd. | 5.00 | Solar | Mbozi, Songwe | 27-Jun-24 | | Construction not commenced |
| 26 | Hareketpower Co. Ltd. | 5.00 | Solar | Kongwa, Dodoma | 27-Jun-24 | | Construction not commenced |
| 27 | Hareketpower Co. Ltd. | 5.00 | Solar | Igunga, Tabora | 27-Jun-24 | | Construction not commenced |
| 28 | Hareketpower Co. Ltd. | 6.00 | Solar | Mbarali, Mbeya | 27-Jun-24 | | Construction not commenced |
| 29 | Mwenga Hydro Ltd. | 4.00 | Hybrid | Mufindi, Iringa | 30-Apr-24 | | Construction not commenced |
| 30 | Africa Power Investment | 8.00 | Hydro | Hai, Kilimanjaro | 29-Feb-24 | | Construction not commenced |
| 31 | Lilondi Hydro Power | 4.50 | Hydro | Madaba , Ruvuma | 29-Feb-24 | | Construction not commenced |
| 32 | LUCSEC Company Limited | 3.00 | Hydro | Ludewa, Njombe | 29-Feb-24 | | Construction not commenced |
| 33 | Maximum Power Tanzania Ltd. | 5.00 | Solar | Nkasi, Rukwa | 29-Feb-24 | Ū. | Construction not commenced |
| 34 | BXC Tanzania Ltd. | 5.00 | Solar | Kahama, Shinyanga | 29-Feb-24 | 29-Aug-25 | Construction not commenced |

| | Total | 629.125 | | | | | not commenced |
|-----|-------------------------------|---------|---------|--------------------------|-------------|-------------|-------------------------------|
| 59 | JUMEME Rural Power Supply | 1.00 | Solar | Mpanda, Katavi | 29-Apr-22 | 29-Oct-23 | Construction not commenced |
| 50 | Supply | 1 00 | Color | Rukwa | 00 4 | 00.0-+.00 | not commenced |
| 58 | JUMEME Rural Power | 1.00 | Solar | Sumbawanga, | 29-Apr-22 | 29-Oct-23 | Construction |
| 5. | | 2.00 | | Njombe | | | progress |
| 57 | Luponde Hydro Ltd. | 2.00 | Hydro | Njombe, | 16-Aug-22 | 16-Aua-25 | Construction on |
| 50 | Co. Ltd. | 0.00 | i iyuru | Ruvuma | 10-7uy-22 | 10-Aug-23 | not commenced |
| 56 | Tangulf Nakakuta Energy | 5.00 | Hydro | Songea, | 16-Aug-22 | 16_100_25 | not commenced Construction |
| 55 | Bwelui Co. Ltd. | 4.70 | Hydro | lleje, Songwe | 16-Aug-22 | 16-Aug-25 | Construction |
| | | 1 = 0 | | Rukwa | 10.4 55 | 40.1.5- | progress |
| 54 | Rukwa Generating Co. Ltd | 0.95 | Hydro | Sumbawanga, | 16-Aug-22 | 16-Aug-25 | Construction on |
| | Co. Ltd. | | , | | | | progress |
| 53 | Lung'ali Natural Resources | 1.28 | Hydro | Kilolo, Iringa | 24-Nov-22 | 24-Nov-25 | Construction on |
| 52 | Ltd. | 0.00 | 50101 | waya, wwanza | 20-060-22 | 20-0011-24 | not commenced |
| 52 | Bugando Natural Energy | 5.00 | Solar | Magu, Mwanza | 29-Dec-22 | 29- lun-24 | not commenced Construction |
| 51 | Tuliani Hydro Power Co. Ltd. | 5.00 | Hydro | Mvomero, Morogoro | 28-Jan-23 | 28-Jan-26 | Construction |
| E1 | Tulioni Hudro Doutor Co. 1 td | E 00 | Lludro | Muomoro | 20 Jan 22 | 20 Jan 00 | not commenced |
| 50 | Ruaha Energy | 0.56 | Hydro | Tukuyu, Mbeya | 23-Mar-23 | 23-Mar-26 | Construction |
| | | | | Dodoma | | | not commenced |
| 49 | Ruaha Energy | 2.00 | Solar | Mpwapwa, | 23-Mar-23 | 23-Sep-24 | Construction |
| | Ltd | | | ,, <u>.</u> | | · | not commenced |
| 48 | Infinite Power Resources | 8.00 | Solar | Chunya, Mbeya | 30-Mar-23 | 30-Sep-24 | Construction |
| | Ltd | 0.00 | 20.04 | Songwe | 20 | | not commenced |
| 47 | Infinite Power Resources | 5.00 | Solar | Songwe, | 30-Mar-23 | 30-Sep-24 | Construction |
| -10 | Charity | 1.00 | inguio | Morogoro | 2-+ /\pi-20 | 2-i Api-20 | progress |
| 46 | Franciscan Sisters of | 1.00 | Hydro | Kilombero, | 24-Apr-23 | 24-Anr-26 | Construction on |
| 43 | Mofajusi Investment Ltd | 3.00 | Hydro | Tanganyika, Katavi | 24-Apr-23 | 24-Api-26 | Construction not commenced |
| 45 | Mofaiusi Invostment Ltd | 3.00 | Hydro | Mbeya | 24 Apr 22 | 24 Apr 26 | progress |
| 44 | Suma Hydro Power Ltd | 4.00 | Hydro | Rungwe, | 24-Apr-23 | 24-Apr-26 | Construction on |
| | | 4.00 | | Mwanza | 04.4 | 04.4 00 | not commenced |
| 43 | Convivium Investment | 5.00 | Solar | Misungwi, | 04-Aug-23 | 04-Feb-25 | Construction |
| | | | | | - | | not commenced |
| 42 | ZBS Investment Limited | 6.00 | Solar | Kiteto, Manyara | 04-Aug-23 | 04-Feb-25 | Construction |
| | | 2.00 | | ,, | | | not commenced |
| 41 | ZBS Investment Limited | 8.00 | Solar | Rorya, Mara | 04-Aug-23 | 04-Feb-25 | Construction |
| 40 | | 1.50 | i iyuru | Arusha | 30-1100-23 | JU-INUV-20 | not commenced |
| 40 | Ninety-Two Limited | 1.90 | Hydro | Shinyanga Ngorongoro, | 30-Nov-23 | 30-Nov-26 | progress Construction |
| 39 | SSI Energy | 10.00 | Solar | Kahama , Shinyanga | 28-Dec-23 | 28-Jun-25 | Construction on |
| 20 | | 10.00 | Solar | Kahama | 20 Dec 00 | 20 1 | not commenced |
| 38 | CESNE Energy Ltd. | 5.80 | Solar | Uyui, Tabora | 29-Feb-24 | 29-Aug-25 | Construction |
| | | | | | | | not commenced |
| 37 | FGS Ecoenergy Ltd. | 5.00 | Hydro | Muleba, Kagera | 29-Feb-24 | 01-Mar-27 | Construction |
| | | | - | Kigoma | | | not commenced |
| 36 | FGS Ecoenergy Ltd. | 6.00 | Hydro | Kigoma Rural, | 29-Feb-24 | 01-Mar-27 | Construction |
| 00 | | 0.00 | 2 Jiai | 2 chornso, Sond | | _0 / kug 20 | not commenced |
| 35 | BXC Tanzania Ltd. | 5.00 | Solar | Bukombe, Geita | 29-Feb-24 | 29-Aua-25 | Construction |

ANNEX 6: PUBLISHED TARIFFS FOR REGISTERED ENTITIES SELLING ELECTRICITY TO CUSTOMERS

| The Electricity Powercorner Tanzania Limited ("Powercorner") (Tariff) Order, 7be 2Electricity PowerGen Renewable | Solar Solar | Category Small Medium Large Productive use Residential | Anytime | TZS/kWh TZS/kWh | 2022 1,140 1,080 | 2023 1,200 | 2024 1,100 | Date 26 Aug 2022 |
|--|---|--|--|---|--|---|---|--|
| Powercorner Tanzania Limited ("Powercorner") (Tariff) Order, 7be 2 Electricity PowerGen Renewable | | Medium Large Productive use | Anytime | | | | 1,100 | 26 Aug 2022 |
| Tanzania Limited ("Powercorner") (Tariff) Order, 2be 2Electricity PowerGen Renewable | Solar | Large Productive use | | TZS/kWh | 1 080 | 4 4 4 0 | | |
| ("Powercorner") (Tariff) Order, 2bg2 Electricity PowerGen Renewable | Solar | Productive use | | | 1,000 | 1,140 | 1,050 | |
| (Tariff) Order, 7be 2Electricity PowerGen Renewable | Solar | | 1 | TZS/kWh | 940 | 990 | 910 | |
| ⊉b<u>₽</u>£ lectricity PowerGen Renewable | Solar | Residential | | TZS/kWh | 920 | 1,040 | 1,020 | |
| Renewable | | rtooraoritiar | 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 | |
| (Tariff) Order, 2022 | | Public Institution | | TZS/kWh | 1,200 | 1,200 | 1,200 | |
| Electricity (Watu na Umeme | Solar | Basic Household | Anytime | TZS/kWh | 1,306 | 1,306 | 1,306 | 18 Nov 2022 |
| Tanzania Limited) | | Medium Household | | TZS/kWh | 1,086 | 1,086 | 1,086 | |
| Umeme) (Tariff Adjustment for Electricity | | Small Business/ Public Institutions | | TZS/kWh | 941 | 941 | 941 | |
| Service) Order, 2022 | | Productive user | | TZS/kWh | 801 | 801 | 801 | |
| The Electricity | Solar | Residential | Day | TZS/kWh | 1,470 | 1,690 | 1,710 | 26 Aug 2022 |
| | | Users | Night | TZS/kWh | 1,470 | 1,690 | 1,710 | |
| | | Commercial | Day | TZS/kWh | 1,340 | 1,540 | 1,560 | |
| · / | | Users | Night | TZS/kWh | 1,440 | 1,650 | 1,670 | |
| 2022 | | Productive | Day | TZS/kWh | 1,130 | 1,300 | 1,310 | |
| | | Users | Night | TZS/kWh | 1,350 | 1,550 | 1,570 | |
| The Electricity | Solar | Basic | Day | TZS/kWh | 1,300 | 1,300 | 1,300 | 18 Nov 2022 |
| | | Residential | Night | TZS/kWh | 1,300 | 1,300 | 1,300 | |
| • | | Commercial | Day | TZS/kWh | 1,300 | 1,300 | 1,300 | |
| Power) (Tariff Adjustment for Electricity Service) Order, 2022 | | | Night | TZS/kWh | 1,300 | 1,300 | 1,300 | |
| | 2022 Electricity (Watu na Umeme Tanzania Limited) (Watu na Umeme) (Tariff Adjustment for Electricity Service) Order, 2022 The Electricity Jumeme Rural Power Supply ("Jumeme") (Tariff) Order, 2022 The Electricity (Husk Power System Limited) (Husk Power) (Tariff Adjustment for Electricity Service) Order, | ("PowerGen") (Tariff) Order, 2022 Electricity (Watu na Umeme Tanzania Limited) (Watu na Umeme) (Tariff Adjustment for Electricity Service) Order, 2022 The Electricity Jumeme Rural Power Supply ("Jumeme") (Tariff) Order, 2022 The Electricity (Husk Power System Limited) (Husk Power) (Tariff Adjustment for Electricity Service) Order, | Energy Limited ("PowerGen") (Tariff) Order, 2022UsePublic InstitutionPublic InstitutionElectricity (Watu na Umeme Tanzania Limited) (Watu na Umeme) (Tariff Adjustment for Electricity 2022SolarBasic HouseholdMedium HouseholdSmall Business/ Public InstitutionsSmall Business/ Public InstitutionsThe Electricity 2022SolarResidential UsersThe Electricity ("Jumeme") (Tariff) Order, 2022SolarResidential UsersThe Electricity ("Jumeme") (Tariff) Order, 2022SolarBasic Residential UsersThe Electricity (Husk Power System Limited) (Husk Power) (Tariff Adjustment for Electricity Service) Order,Commercial Commercial Users | Energy Limited ("PowerGen") (Tariff) Order, 2022Use Public Institution(Tariff) Order, 2022SolarBasic HouseholdElectricity (Watu na Umeme Tanzania Limited) (Watu na Umeme) (Tariff Adjustment for Electricity 2022Medium HouseholdImage: Adjustment for Electricity 2022SolarBasic HouseholdMedium HouseholdSmall Business/ Public InstitutionsAnytime Adjustment for ElectricityThe Electricity 2022SolarResidential UsersDay NightPower Supply ("Jumeme") (Tariff) Order, 2022SolarResidential UsersDay NightThe Electricity (Sumeme") (Tariff) Order, 2022SolarResidential Day UsersDay NightThe Electricity (System Limited) (Husk Power) (Tariff Adjustment for Electricity Service) Order,SolarBasic Day NightCommercial Day NightDay NightDay Night | Linergy Limited ("PowerGen") (Tariff) Order, 2022UseUseTZS/kWhResidential (Tariff) Order, 2022SolarBasic HouseholdAnytime TZS/kWhTZS/kWhElectricity (Watu na Umeme Tanzania Limited) (Watu na (Watu na Umeme) (Tariff Adjustment for Electricity Service) Order, 2022SolarBasic HouseholdAnytime TZS/kWhTZS/kWhService) Order, 2022SolarSmall Business/ Public InstitutionsTZS/kWhTZS/kWhThe Electricity Jumeme Rural Power Supply ("Jumeme") (Tariff) Order, 2022SolarResidential UsersDayTZS/kWhThe Electricity (Sumeme") (Tariff) Order, 2022SolarResidential UsersDayTZS/kWhThe Electricity (Husk Power System Limited) (Husk Power) (Tariff Adjustment for Electricity Service) Order,SolarBasic Residential DayTZS/kWhTore Electricity Service) Order,SolarBasic Residential DayTZS/kWhThe Electricity (Husk Power System Limited) (Husk Power) (Tariff Adjustment for Electricity Service) Order,SolarBasic Residential DayTZS/kWhTZS/kWhTZS/kWhTZS/kWhTZS/kWhTZS/kWhNightTZS/kWhTZS/kWhTZS/kWhCommercial | Energy Limited ("PowerGen") (Tariff) Order, 2022 Electricity (Watu na Umeme Tanzania Limited) (Watu na Umeme) (Tariff Adjustment for Electricity 2022 The Electricity Service) Order, 2022 The Electricity Summer") (Tariff) Order, 2022 The Electricity Solar The Elec | Energy Limited ("PowerGen") (Tariff) Order, 2022 Electricity (Watu na Umeme Tanzania Limited) (Watu na Umeme) (Tariff Adjustment for Electricity 2022 The Electricity Service) Order, 2022 The Electricity Solar The Electricity Solar The Electricity Solar The Electricity Solar Solar Solar Solar Household Small Business/ Productive user Household Small Business/ Productive user Day TZS/kWh 1,086 TZS/kWh 1,086 1,086 TZS/kWh 941 941 941 941 941 941 941 941 | Lnergy Limited ("PowerGen") (Tariff) Order, 2022UseTZS/kWh1,2001,2001,2002022Solar HouseholdBasic HouseholdAnytime HouseholdTZS/kWh1,3061,3061,3062022InstitutionMedium HouseholdTZS/kWh1,0861,0861,0861,0862024Medium HouseholdMedium HouseholdTZS/kWh1,0861,0861,0862024Small Business/ Public InstitutionsSmall Business/ Public InstitutionsTZS/kWh9419419412022Productive userTZS/kWh1,4701,6901,7102022SolarResidential UsersDayTZS/kWh1,4701,6901,7102022Commercial UsersDayTZS/kWh1,4401,6501,6702022SolarResidential UsersDayTZS/kWh1,3001,3001,3002022SolarResidential UsersDayTZS/kWh1,4401,6501,6707Commercial UsersDayTZS/kWh1,3001,3001,3001,3007TSSolarBasic ResidentialDayTZS/kWh1,3001,3001,3007The Electricity System Limited) (Husk Power) (Tariff Adjustment for ElectricitySolarBasic ResidentialDayTZS/kWh1,3001,3001,3001MightTZS/kWh1,3001,3001,3001,300 <td< td=""></td<> |

ANNEX 7: 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 |
|-------------|------------|---------|---------|---------|---------|
| - apacity | USc¹/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 1 st May 2019 (TZS/kWh) |
|--|------------|--|
| Standardized Small Power Purchase Tariff | | 203.11 |
| Seasonally adjusted Standardized SPPT | Dry season | 243.73 |
| Payable in | 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 | | |

ANNEX 8: 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 (230V).

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 per 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 inclusi | | | | |
| 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 exclusive) | Rural rate (VAT exclusive) | | |
| 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 |
| Т3 | 50,000 |

vi. Temporary power supply charges

| Customer Category | Description | Approved Charges in TZS (VAT exclusive) |
|-------------------|----------------|---|
| T2 | Connection Fee | Full cost plus 10% |
| Т3 | | Full cost plus 10% |
| T2 | Meter Deposit | 200,000 |
| Т3 | | 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 |
| Т3 | Three Phase | 500,000 |

ANNEX 9: MWENGA HYDRO LIMITED TARIFF

a) Approved Tariffs

| | Customer Category | Component | Approved Rates | | |
|------|--|--|----------------|--|--|
| | | Basic Charge | 0.00 | | |
| D1 | 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 averaging more than 50 kWh/Month | Energy Charge (inclusive of average fixed monthly service fee component) | 234.04 | | |
| Sour | 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 | | | |

ANNEX 10: ENERGY LOSSES

TANESCO

Transmission Energy Losses for TANESCO

| Description | 2017/18 | 2018/19 | 2019/20 | 2020/212 | 2021/223 | 2022/23 | 2023/24 |
|------------------------------------|----------|----------|----------|----------|----------|----------|-----------|
| Energy Received in Transmission | 6,742.41 | 7,413.95 | 7,531.11 | 7,891.33 | 8,821.89 | 9,505.20 | 10,451.33 |
| System (GWh) | | | | | | | |
| Energy Sent for Distribution (GWh) | 6,341.68 | 6,975.21 | 7,085.79 | 7,424.12 | 8,232.26 | 8,943.69 | 9,835.924 |
| Energy for Auxiliaries | 3.56 | 3.17 | 2.41 | 2.76 | 70.37 | 2.92 | 2.79 |
| Losses (GWh) | 397.16 | 435.55 | 442.92 | 464.46 | 519.26 | 558.60 | 612.61 |
| Losses (%) | 5.89 | 5.87 | 5.89 | 5.89 | 5.89 | 5.88 | 5.86 |

Source: TANESCO

Electricity Distribution Losses for TANESCO

| Year | Energy Distributed (GWh)4 | Energy Sales (GWh)5 | Losses (GWh) | Losses (%) |
|---------|---------------------------|---------------------|--------------|------------|
| 2023/24 | | | | |
| 2022/23 | 8,403.65 | 7,673.69 | 729.96 | 8.69 |
| 2021/22 | 7,854.39 | 7,167.31 | 687.09 | 8.75 |
| 2020/21 | 7,622.27 | 6,898.49 | 723.78 | 9.50 |
| 2019/20 | 7,257.64 | 6,574.70 | 682.94 | 9.41 |
| 2018/19 | 7,314.14 | 6,557.13 | 757.01 | 10.35 |
| 2017/18 | 6,642.67 | 6,341.68 | 300.99 | 4.53 |
| | | | | |

Source: TANESCO

(a) Mwenga Power Services Ltd

| Year | Energy Distributed (GWh) | Energy Sales (GWh) | Losses (GWh) | Losses (%) |
|---------|--------------------------|--------------------|--------------|------------|
| 2923/24 | | | | |
| 2022/23 | 21.55 | 20.26 | 1.29 | 5.99 |
| 2021/22 | 30.00 | 29.00 | 1.8 | 6.00 |
| 2020/21 | 25.28 | 23.891 | 1.389 | 5.49 |
| 2019/20 | 20.68 | 19.701 | 0.979 | 4.73 |
| 2018/19 | 15.86 | 15.182 | 0.673 | 4.24 |
| 2017/18 | 19.18 | 18.473 | 0.707 | 3.69 |

Source: Mwenga Power Services Ltd

(b) Andoya Hydro Electric Power Co. Ltd

| Energy Distributed (GWh) | Energy Sales (GWh) | Losses (GWh) | Losses (%) |
|--------------------------|---|---|---|
| | | | |
| 0.602 | 0.594 | 0.008 | 1.330 |
| 3.013 | 2.893 | 0.120 | 3.980 |
| 4.041 | 3.865 | 0.180 | 4.340 |
| 2.792 | 2.640 | 0.156 | 5.590 |
| 2.742 | 2.584 | 0.158 | 5.750 |
| 2.995 | 2.773 | 0.222 | 7.410 |
| | 0.602 3.013 4.041 2.792 2.742 | 0.602 0.594 3.013 2.893 4.041 3.865 2.792 2.640 2.742 2.584 | 0.602 0.594 0.008 3.013 2.893 0.120 4.041 3.865 0.180 2.792 2.640 0.156 2.742 2.584 0.158 |

Source: Andoya Hydro Electric Power Co. Ltd

ANNEX 11: INSTALLED CAPACITY

(a) Grid and Off-Grid installed capacity by Power Plant

| | Part I: Main Grid Power Plants | No. of Units | Energy Source | Installed Capacity (MW) |
|-----|---------------------------------------|--------------|---------------|-------------------------|
| (a) | Power Plant Owned by TANESCO | | | |
| Нус | Iro Power Plants | | | |
| 1. | JNHPP | 2 | Hydro | 470 |
| 2. | Kidatu | 4 | Hydro | 204 |
| 3. | Kihansi | 3 | Hydro | 180 |
| 4. | Mtera | 2 | Hydro | 80 |
| 5. | New Pangani Falls | 2 | Hydro | 68 |
| 6. | Rusumo | | | |
| 7. | Hale | | Hydro | 21 |
| 8. | Nyumba ya Mungu | | Hydro | 8 |
| 9. | Uwemba | 3 | Hydro | 0.84 |
| Sul | o-Total Hydro | | | 1,058.51 |
| Nat | ural Gas | | | |
| 1. | Ubungo I | 12 | Natural Gas | 102 |
| 2. | Ubungo II | 3 | Natural Gas | 129 |
| 3. | Ubungo III | 5 | Natural Gas | 112.5 |
| 4. | Tegeta | 5 | Natural Gas | 45 |
| 5. | Kinyerezi I | 4 | Natural Gas | 150 |
| 6. | Kinyerezi I Ext | 4 | Natural Gas | 185 |
| 7. | Kinyerezi II | 6 | Natural Gas | 248.22 |
| 8. | Mtwara | 9 | Natural Gas | 30.6 |
| 9. | Somanga | 3 | Natural Gas | 7.5 |
| Sul | o-Total Natural Gas | | • | 1,009.82 |
| Liq | uid Fuels | | | · |
| 1. | Zuzu (Tanesco) | 3 | HFO | 7.444 |
| 2. | Nyakato Plant | 10 | HFO | 63.000 |
| 3. | Biharamulo (Tanesco) | 4 | GO | 2.722 |
| 4. | Songea | 3 | GO | 5.736 |
| 5. | Liwale | 2 | GO | 0.848 |
| 6. | Tunduru | 2 | GO | 1.048 |
| 7. | Ludewa | 3 | GO | 1.270 |
| 8. | Mbinga | 1 | GO | 1.000 |
| 9. | Loliondo | 1 | GO | 1.000 |
| 10. | Ngara (Tanesco) | 1 | GO | 1.250 |
| 11. | Kasulu | 4 | GO | 4.550 |
| 12. | Kibondo | 2 | | 2.500 |
| 13. | | 7 | | 8.750 |
| | o-Total HFO/GO | <u>،</u> | · | 101.12 |
| | o-Total Main Grid Power Plant Owned I | by TANESCO | | 2,160.70 |

| (b) Power Plant owned by Independent P | ower Producer (IPP) | | |
|--|---------------------|---------------|----------|
| 1. Songas | 6 | Natural Gas | 189 |
| Sub-Total Main Grid Power Plant owned b | y IPP | | 189 |
| (c) Small Power Producers (SPP) owned | by Private Entity | | |
| 1. TANWAT | 1 | Biomass | 1.5 |
| 2. TPC | 1 | Biomass | 9 |
| 3. Mwenga Hydro Limited | 1 | Hydro | 4 |
| 4. Andoya | 1 | Hydro | 1 |
| 5. Tulila | 2 | Hydro | 5 |
| 6. Yovi | 1 | Hydro | 0.95 |
| 7. Darakuta | 1 | Hydro | 0.45 |
| 8. Matembwe | 1 | Hydro | 0.59 |
| 9. Luponde | 1 | Hydro | 0.9 |
| Sub-Total Main Grid Small Power Produce | ers (SPP) | | 23.26 |
| Total Main Grid Installed Capacity | | | 2,372.96 |
| Part II: Off-Grid Power Plant | | | |
| (a) Off-Grid Power Plant owned by TANE | SCO | | |
| 1. Kigoma | 7 | GO | 8.75 |
| 2. Mpanda | 5 | GO | 6.25 |
| 3. Mafia | 5 | GO | 3.2 |
| 4. Sumbawanga | 4 | GO | 5 |
| 5. Inyonga | 3 | GO | 1.932 |
| 6. Bukoba | 4 | GO | 2.56 |
| Sub-Total Off-Grid Power Plant owned by | TANESCO | | 28.942 |
| (b) Power Plant owned by Small Power Producers (SPP) | | | |
| 1. Mwenga Hydro Limited | 3 | Wind | 2.4 |
| 2. NextGen Solawazi | 16,160 | Solar | 5 |
| Sub-Total Off-Grid Power Plant owned by | SPP | | 7.4 |
| (c) Sub-Total Off-Grid Power Plant owned by Private Entities - Refer Annex 5 | | | 2.03 |
| Total Off-Grid Installed Capacity | | | 38.372 |
| National System Total (Main Grid and Off-Grid) | | | 2,411.33 |
| Source: Daily Operation Report from TANES | SCO and EWURA Licen | see Data Base | |

(b) Grid and Off-Grid installed capacity by Technology

| S/N | Power Plant Name | Location | Installed Capacity (MW) | Energy Source |
|-----|---------------------|--|----------------------------|------------------|
| 1. | Kidatu | Morogoro | 204.00 | Hydro |
| 2. | Kihansi | Morogoro | 180.00 | Hydro |
| 3. | Mtera | Iringa | 80.00 | Hydro |
| 4. | N/P Falls | Tanga | 68.00 | Hydro |
| 5. | Hale | Tanga | 21.00 | Hydro |
| 6. | Nyumba ya Mungu | Kilimanjaro | 8.00 | Hydro |
| 7. | Uwemba | Njombe | 0.84 | Hydro |
| 8. | Mwenga | Njombe | 4.00 | Hydro |
| 9. | Matembwe | Njombe | 0.59 | Hydro |
| 10. | Yovi | Morogoro | 0.95 | Hydro |
| 11. | Andoya | Ruvuma | 1.00 | Hydro |
| 12. | Tulila | Ruvuma | 5.00 | Hydro |
| 13. | Darakuta | Manyara | 0.32 | Hydro |
| 14. | Luponde | Njombe | 0.90 | Hydro |
| 15. | Songas | Dar es Salaam | 189.00 | Natural Gas |
| 16. | Ubungo I | Dar es Salaam | 102.00 | Natural Gas |
| 17. | Ubungo II | Dar es Salaam | 129.00 | Natural Gas |
| 18. | Ubungo III | Dar es Salaam | 120.00 | Natural Gas |
| 19. | Tegeta | Dar es Salaam | 45.00 | Natural Gas |
| 20. | Kinyerezi I | Dar es Salaam | 150.00 | Natural Gas |
| 20. | Kinyerezi II | Dar es Salaam | 248.22 | Natural Gas |
| 21. | Mtwara | Mtwara | 30.60 | Natural Gas |
| 22. | | Lindi | 7.50 | Natural Gas |
| 23. | Somanga Liwale | Lindi | 0.85 | Diesel |
| | | | | |
| 25. | Zuzu | Dodoma | 7.40 63.00 | Diesel |
| 26. | Nyakato | Mwanza | | Diesel |
| 27. | Bihalamulo | Kagera | 4.14 | Diesel |
| 28. | Songea | Ruvuma | 5.77 | Diesel |
| 29. | Tunduru | Ruvuma | 1.72 | Diesel |
| 30. | Mbinga | Ruvuma | 1.00 | Diesel |
| 31. | Madaba | Ruvuma | 0.48 | Diesel |
| 32. | Ludewa | Njombe | 1.27 | Diesel |
| 33. | Ngara | Kagera | 2.50 | Diesel |
| 34. | Kigoma | Kigoma | 6.25 | Diesel |
| 35. | Mpanda | Katavi | 5.05 | Diesel |
| 36. | Mafia | Coast | 3.20 | Diesel |
| 37. | Sumbawanga | Rukwa | 6.25 | Diesel |
| 38. | Kasulu | Kigoma | 2.50 | Diesel |
| 39. | Kibondo | Kigoma | 2.50 | Diesel |
| 40. | Loliondo | Manyara | 3.50 | Diesel |
| 41. | Inyonga | Njombe | 0.82 | Diesel |
| 42. | Bukoba | Kagera | 2.56 | Diesel |
| 43. | PowerCorner | Manyara, Lindi, Mtwara, Tabora | 0.31 | Solar |
| 44. | E.O. N | Dodoma | 0.03 | Solar |
| 45. | Ruaha Energy | Morogoro | 0.13 | Solar |
| 46. | Watu na Umeme | Tanga | 0.05 | Solar |
| 47. | PowerGen | Singida, Kagera, Morogoro, Mwanza, Mara | 0.44 | Solar |
| 48. | Jumeme | Mwanza and Kagera | 1.23 | Solar |

ANNEX 12: POWER PLANTS OPERATION PERFORMANCE DATA

(a). Main Grid Power Plants Utilization for FY 2023/24

| Plants Name | Energy Source | Installed Capacity (MW) | Unit to be Generated (kWh) | Units Generated (kWh) | Plant Utilization (%) |
|-------------------------------|---------------|-------------------------------|----------------------------------|-----------------------------|-----------------------------|
| Part A: Hydro Power Plant | S | | | | |
| Kidatu | Hydro | 204 | 1,787,040,000 | 1,208,393,550 | 67.62% |
| Kihansi | Hydro | 180 | 1,576,800,000 | 600,556,749 | 38.09% |
| Mtera | Hydro | 80 | 700,800,000 | 520,828,000 | 74.32% |
| Hale | Hydro | 21 | 183,960,000 | 27,719,993 | 15.07% |
| New Pangani Falls | Hydro | 68 | 595,680,000 | 146,755,460 | 24.64% |
| Nyumba ya Mungu | Hydro | 8 | 70,080,000 | 19,729,720 | 28.15% |
| Hydro Plant Utilization | - I | 561 | 4,914,360,000 | 2,523,983,472 | 51.36% |
| Part B: Natural Gas Power | · Plants | | I | | |
| Songas | Natural Gas | 189.0 | 1,655,640,000 | 1,411,495,406 | 85.25% |
| UGP1 | Natural Gas | 102.5 | 897,900,000 | 454,782,000 | 50.65% |
| UGP2 | Natural Gas | 129.0 | 1,130,040,000 | 1,034,709,000 | 91.56% |
| UGP3 | Natural Gas | 112.5 | 985,500,000 | 739,787,801 | 75.07% |
| TGP | Natural Gas | 43.7 | 382,812,000 | 268,068,000 | 70.03% |
| Kinyerezi I | Natural Gas | 150.0 | 1,314,000,000 | 1,192,210,480 | 90.73% |
| Kinyerezi II | Natural Gas | 248.2 | 2,174,232,000 | 1,791,281,890 | 82.39% |
| Mtwara | Natural Gas | 30.4 | 266,304,000 | 122,173,585 | 45.88% |
| Somanga | Natural Gas | 7.5 | 65,700,000 | 9,335,000 | 14.21% |
| Natural Gas Plant Utilization | on | 1,013 | 8,872,128,000 | 7,023,843,162 | 79.17% |
| Part C: Liquid Fuel Power | Plants | | | | |
| TANESCO Diesel (Zuzu) | HFO&Diesel | 7.44 | 65,174,400 | 1,622,780 | 2.49% |
| Nyakato | HFO&Diesel | 63.00 | 551,880,000 | 10,936,986 | 1.98% |
| Biharamulo | Diesel | 1.25 | 10,950,000 | 237,440 | 2.17% |
| Ngara | Diesel | 1.25 | 10,950,000 | 847,131 | 7.74% |
| Loliondo | Diesel | 1.00 | 8,760,000 | - | - |
| Kasulu | Diesel | 3.75 | 32,850,000 | 4,534,665 | 13.80% |
| Kibondo | Diesel | 2.50 | 21,900,000 | 2,098,265 | 9.58% |
| Liquid Fuel Plant Utilization | on | 80.19 | 702,464,400 | 20,277,267 | 2.89% |
| TOTAL MAIN GRID | | | 14,488,952,400 | 9,568,103,901 | 66.04% |

(b). Off-Grid Power Plants Operation Performance for FY 2023/24

| Plants Name | Energy Source | Installed Capacity (kW) | Plant Availability (%) | Plant Utilization (%) |
|-------------|---------------|-------------------------|------------------------|-----------------------|
| Kigoma | Diesel | 8750 | 99.00 | 46.00 |
| Mpanda | Diesel | 6250 | 90.32 | 48.95 |
| Mafia | Diesel | 3200 | 89.87 | 28.42 |
| Sumbawanga | Diesel | 5000 | 97.74 | 38.50 |
| Bukoba | Diesel | 2460 | 94.61 | 45.25 |
| Inyonga | Diesel | 1932 | 48.48 | 23.09 |
| Average | | | 86.67 | 38.37 |

ANNEX 13: DETAILS OF TRANSMISSION LINE INFRASTRUCUTURE

| 0.01 | | Voltage | Route | Capacity | Peak Load | Demand to |
|------|---------------------------------|---------------|--------|----------|----------------|-----------------------|
| S/N | Name of Transmission Line | Level (kV) | (km) | (MW) | Demand (MW) | Capacity Ratio (%) |
| 1 | 400kV Iringa-Dodoma 1 | 400 | 225 | 329 | 226.1 | 69% |
| 2 | 400kV Dodoma-Singida 1 | 400 | 164 | 411 | 277 | 67% |
| 3 | 400kV Singida-Shinyanga 1 | 400 | 282 | 274 | 149.33 | 55% |
| 4 | 400kV Singida-Lemugur | 400 | | 1000 | 124.54 | 12% |
| 5 | 400kV Lemugur -Isinya | 400 | 414 | 1000 | | 0% |
| 6 | 400kV JNHPP -New CH1 | 400 | 159.75 | 1247.04 | 340.15 | 27% |
| 7 | 220kV Ubungo-Luguruni | 220 | 15 | 274 | 164.22 | 60% |
| 8 | 220kV Ubungo-Kinyerezi | 220 | 15 | 274 | 204 | 74% |
| 9 | 220kV Luguruni-New Chalinze | 220 | 62 | 274 | 186.53 | 68% |
| 10 | 220kV Kinyerezi-New Chalinze | 220 | 95 | 274 | 123.29 | 45% |
| 11 | 220kV Morogoro-New Chalinze 1 | 220 | 89 | 274 | 227.01 | 83% |
| 12 | 220kV Morogoro-New Chalinze 2 | 220 | 89 | 274 | 233.25 | 85% |
| 13 | 220kV Morogoro-Kidatu 1 | 220 | 128 | 274 | 163.62 | 60% |
| 14 | 220kV Morogoro-Kidatu 2 | 220 | 130 | 274 | 164.61 | 60% |
| 15 | 220kV Kidatu-Iringa | 220 | 160 | 274 | 231 | 84% |
| 16 | 220kV Kidatu-Ifakara | 220 | | 274 | 124 | 45% |
| 17 | 220kV Ifakara-Kihansi | 220 | 180 | 274 | 130 | 47% |
| 18 | 220kV Kihansi-Iringa | 220 | 96.9 | 274 | 233.2 | 85% |
| 19 | 220kV Iringa-Mufindi | 220 | 130 | 154 | 135.1 | 88% |
| 20 | 220kV Iringa-Mtera | 220 | 107 | 206 | 98.87 | 48% |
| 21 | 220kV Mtera-Dodoma | 220 | 130 | 206 | 124 | 60% |
| 22 | 220kV Dodoma-Singida old | 220 | 210 | 206 | 198 | 96% |
| 23 | 220kV Singida/Shinyanga old | 220 | 200 | 206 | 109.09 | 53% |
| 24 | 220kV Shinyanga-Mwanza | 220 | 140 | 154 | 139.5 | 91% |
| 25 | 220kV Shinyanga-Bulyanhulu | 220 | 129.46 | 102.88 | 89.95 | 87% |
| 26 | 220kV Mufindi-Makambako | 220 | 38.9 | 154 | 120 | 78% |
| 27 | 220kV Makabako-Madaba | 220 | 110 | 109 | 29.12 | 27% |
| 28 | 220kV Makambako-Mbeya | 220 | 181.1 | 109 | 86.83 | 80% |
| 29 | 220kV Madaba-Songea | 220 | 140 | 109 | 20 | 19% |
| 30 | 220kV Singida-Babati | 220 | 150 | 206 | 84.12 | 41% |
| 31 | 220kV Babati-Lemugur | 220 | 146 | 206 | 51 | 25% |
| 32 | 220kV Lemugur-Njiro | 220 | 16 | 154 | 95.56 | 62% |
| 33 | 220kV Shinyanga-Buzwagi | 220 | 108 | 57 | 17 | 30% |
| 34 | 220kV-Bulyanhuru-Geita | 220 | 55 | 301.8 | 60.06 | 20% |
| 35 | 220kV-Geita-Nyakanazi | 220 | 143.16 | 329.2 | 21.73 | 7% |
| 36 | 220kV-Nyakanazi-Rusumo | 220 | 94.1 | 342.9 | 21.28 | 6% |
| 37 | 220kv-SGR Dar - Moro | 220 | 159 | 274 | 171 | 62% |
| 38 | 220kv-SGR Moro-Dodoma | 220 | 415 | 274 | 237 | 86% |
| 39 | 132kV Ubungo-New Chalinze | 220 | 87 | 133.75 | 65.96 | 49% |
| 40 | 132kV New Chalinze/Old Chalinze | 132 | 5 | 164 | 151.44 | 92% |
| 41 | 132kV Morogoro-Chalinze | 132 | 82 | 82.3 | 29 | 35% |
| 42 | 132kV Chalinze-Hale | 132 | 175 | 133.75 | 91 | 68% |
| 43 | 132kV Ilala-Jangwani(OHL) | 132 | 1.3 | 123.46 | 73.8 | 60% |
| 44 | 132kV Jangwani- | 132 | | | | 65% |
| | NCC(UNDERGROUND) | | 1.8 | 113 | 73.8 | |
| 45 | 132kV Ubungo-Ilala 1ST | 132 | 9.5 | 205.76 | 95 | 46% |
| 46 | 132kV Ubungo-Ilala 2ND | 132 | 9.5 | 205.76 | 95 | 46% |
| 47 | 132kV Ubungo-Kunduchi 1ST | 132 | 12 | 92.59 | 80 | 86% |
| 48 | 132kV Ubungo-Kunduchi 2ND | 132 | 12 | 102.88 | 121 | 118% |

| S/N | Name of Transmission Line | Voltage Level (kV) | Route (km) | Capacity (MW) | Peak Load Demand (MW) | Demand to Capacity Ratio (%) |
|-----|--------------------------------|--------------------------|---------------|------------------|-----------------------------|------------------------------------|
| 49 | 132kV Ubungo-Makumbusho | 132 | 7 | 133.75 | 118 | 88% |
| 50 | 132kV Kunduchi-Zanzibar 1 | 132 | 64 | 41.15 | 28.3 | 69% |
| 51 | 132kV Kunduchi-Zanzibar 2 | 132 | 63.6 | 102.88 | 94 | 91% |
| 52 | 132kV Mwanza-Musoma | 132 | 210 | 82.3 | 55.1 | 67% |
| 53 | 132kV Musoma-Nyamongo | 132 | 90 | 41.15 | 30 | 73% |
| 54 | 132kV Shinyanga-Tabora | 132 | 203 | 30.86 | 25.8 | 84% |
| 55 | 132kV Kiyungi-Kia 1ST | 132 | 35 | 90.54 | 16.96 | 19% |
| 56 | 132kV Kiyungi-Kia 2ND | 132 | 35 | 90.54 | 24.26 | 27% |
| 57 | 132kV Kia-Njiro 1ST | 132 | 36.6 | 90.54 | 30.74 | 34% |
| 58 | 132kV Kia-Njiro 2ND | 132 | 35 | 90.54 | 31.08 | 34% |
| 59 | 132kV Makumbusho-NCC | 132 | 6.67 | 154 | 40 | 26% |
| 60 | 132kV Gongo la Mboto-Kinyerezi | 132 | 3 | 82.3 | 41 | 50% |
| 61 | 132kV Ubungo-Kipawa | 132 | 11 | 197.73 | 196 | 99% |
| 62 | 132kV Kipawa-Mbagala | 132 | 7.4 | 98.77 | 98.8 | 100% |
| 64 | 132kV-Mbagala-Dege | 132 | 28 | 98.77 | 67 | 68% |
| 65 | 132kV-Dege-Kurasini | 132 | 22 | 98.77 | 30 | 30% |
| 67 | 132kV Rhino-Tanga | 132 | 8.5 | 61.73 | 28.62 | 46% |
| 68 | 132kV Hale-Rhino | 132 | 60 | 61.73 | 35.2 | 57% |
| 69 | 132kV Pangani-Tanga | 132 | 63.5 | 61.73 | 13.68 | 22% |
| 69 | 132kV Hale-NPF | 132 | 13.5 | 61.73 | 52 | 84% |
| 70 | 132kV-Mtukula-Kyaka | 132 | 30 | 49.38 | 28.95 | 59% |
| 71 | 132kV Kyaka-Bukoba | 132 | 54 | 41.15 | 13 | 30% |
| 72 | 132kV Hale-Kiyungi | 132 | 275 | 98.77 | 31.89 | 32% |
| 73 | 132kV Mtwara-Mahumbika | 132 | 80 | 65.84 | 16 | 24% |
| 74 | 66kV Kiyungi-Nyumba ya Mungu | 66 | 53 | 10 | 7.47 | 75% |
| 75 | 66kV Kiyungi-Arusha | 66 | 78 | 10 | - | |
| 76 | 66kV Kiyungi-Makuyuni | 66 | 34 | 20 | 15.31 | 77% |
| 77 | 66kV Babati-Kondoa | 66 | 85 | 15 | 9.3 | 62% |
| 78 | 66kV Babati-Mbulu | 66 | 85 | 34 | 13.8 | 41% |
| 79 | 66kV Mbulu-Karatu | 66 | 65 | 15 | 9.48 | 63% |
| 80 | 66kV-Mbala-Sumbawanga | 66 | 120 | | 14.5 | |
| 81 | 66KV Bunda-Kibara | 66 | 60 | 15 | 3.8 | 25% |
| | Total | | 7,524 | | | |

ANNEX 14: PRIVATE ENTITIES WITH SMALL POWER PURCHASE AGREEMENTS (SPPA) FOR GENERATING ELECTRICITY

| S/N | Name of Developer | Capacity (MW) | Energy Source | Location | Approval Date | Tentative COD |
|-----|--|------------------|------------------|-------------------------|---------------|------------------|
| 1 | FGS Ecoenergy Ltd. | 10.00 | Solar | Msalala, Shinyanga | 27-Jun-24 | 27-Dec-25 |
| 2 | FGS Ecoenergy Ltd. | 5.00 | Solar | Newala, Mtwara | 27-Jun-24 | 27-Dec-25 |
| 3 | Maximum Power Tanzania Ltd. | 7.00 | Solar | Nsimbo, Katavi | 27-Jun-24 | 27-Dec-25 |
| 4 | Oreon Renewables Ltd. | 5.00 | Solar | Kaliua, Tabora | 27-Jun-24 | 27-Dec-25 |
| 5 | Oreon Renewables Ltd. | 5.00 | Solar | Mbozi, Songwe | 27-Jun-24 | 27-Dec-25 |
| 6 | Hareketpower Co. Ltd. | 5.00 | Solar | Kongwa, Dodoma | 27-Jun-24 | 27-Dec-25 |
| 7 | Hareketpower Co. Ltd. | 5.00 | Solar | Igunga, Tabora | 27-Jun-24 | 27-Dec-25 |
| 8 | Hareketpower Co. Ltd. | 6.00 | Solar | Mbarali, Mbeya | 27-Jun-24 | 27-Dec-25 |
| 9 | Mwenga Hydro Ltd. | 4.00 | Hybrid | Mufindi, Iringa | 30-Apr-24 | 30-Oct-26 |
| 10 | Africa Power Investment | 8.00 | Hydro | Hai, kilimanjaro | 29-Feb-24 | 01-Mar-27 |
| 11 | Lilondi Hydro Power | 4.50 | Hydro | Madaba, Ruvuma | 29-Feb-24 | 01-Mar-27 |
| 12 | LUCSEC Company Limited | 3.00 | Hydro | Ludewa, Njombe | 29-Feb-24 | 01-Mar-27 |
| 13 | Maximum Power Tanzania Ltd. | 5.00 | Solar | Nkasi, Rukwa | 29-Feb-24 | 29-Aug-25 |
| 14 | BXC Tanzania Ltd. | 5.00 | Solar | Kahama, Shinyanga | 29-Feb-24 | 29-Aug-25 |
| 15 | BXC Tanzania Ltd. | 5.00 | Solar | Bukombe, Geita | 29-Feb-24 | 29-Aug-25 |
| 16 | FGS Ecoenergy Ltd. | 6.00 | Hydro | Kigoma Rural, Kigoma | 29-Feb-24 | 01-Mar-27 |
| 17 | FGS Ecoenergy Ltd. | 5.00 | Hydro | Muleba, Kagera | 29-Feb-24 | 01-Mar-27 |
| 18 | CESNE Energy Ltd. | 5.80 | Solar | Uyui, Tabora | 29-Feb-24 | 29-Aug-25 |
| 19 | SSI Energy | 10.00 | Solar | Kahama , Shinyanga | 28-Dec-23 | 28-Jun-25 |
| 20 | Ninety-Two Limited | 1.90 | Hydro | Ngorongoro, Arusha | 30-Nov-23 | 30-Nov-26 |
| 21 | ZBS Investment Limited | 8.00 | Solar | Rorya, Mara | 04-Aug-23 | 04-Feb-25 |
| 22 | ZBS Investment Limited | 6.00 | Solar | Kiteto, Manyara | 04-Aug-23 | 04-Feb-25 |
| 23 | Convivium Investment | 5.00 | Solar | Misungwi, Mwanza | 04-Aug-23 | 04-Feb-25 |
| 24 | Suma Hydro Power Ltd | 3.90 | Hydro | Rungwe, Mbeya | 24-Apr-23 | 24-Apr-26 |
| 25 | Mofajusi Investment Ltd | 3.00 | Hydro | Tanganyika, Katavi | 24-Apr-23 | 24-Apr-26 |
| 26 | Franciscan Sisters of Charity | 1.00 | Hydro | Kilombero, Morogoro | 24-Apr-23 | 24-Apr-26 |
| 27 | Infinite Power Resources Ltd | 5.00 | Solar | Songwe, Songwe | 30-Mar-23 | 30-Sep-24 |
| 28 | Infinite Power Resources Ltd | 8.00 | Solar | Chunya, Mbeya | 30-Mar-23 | 30-Sep-24 |
| 29 | Ruaha Energy | 2.00 | Solar | Mpwapwa, Dodoma | 23-Mar-23 | 23-Sep-24 |
| 30 | Ruaha Energy | 0.56 | Hydro | Tukuyu, Mbeya | 23-Mar-23 | 23-Mar-26 |
| 31 | Tuliani Hydro Power Co. Ltd. | 5.00 | Hydro | Mvomero, Morogoro | 28-Jan-23 | 28-Jan-26 |
| 32 | Bugando Natural Energy Ltd. | 5.00 | Solar | Magu, Mwanza | 29-Dec-22 | 29-Jun-24 |
| 33 | Lung'ali Natural Resources Co. Ltd. | 1.28 | Hydro | Kilolo, Iringa | 24-Nov-22 | 24-Nov-25 |

| S/N | Name of Developer | Capacity (MW) | Energy Source | Location | Approval Date | Tentative COD |
|-----|-------------------------------------|------------------|------------------|----------------------|---------------|------------------|
| 34 | Rukwa Generating Co. Ltd | 0.95 | Hydro | Sumbawanga, Rukwa | 16-Aug-22 | 16-Aug-25 |
| 35 | Bwelui Co. Ltd. | 4.70 | Hydro | lleje, Songwe | 16-Aug-22 | 16-Aug-25 |
| 36 | Tangulf Nakakuta Energy Co. Ltd. | 5.00 | Hydro | Songea, Ruvuma | 16-Aug-22 | 16-Aug-25 |
| 37 | Luponde Hydro Ltd. | 2.00 | Hydro | Njombe, Njombe | 16-Aug-22 | 16-Aug-25 |
| 38 | JUMEME Rural Power Supply | 1.00 | Solar | Sumbawanga, Rukwa | 29-Apr-22 | 29-Oct-23 |
| 39 | JUMEME Rural Power Supply | 1.00 | Solar | Mpanda, Katavi | 29-Apr-22 | 29-Oct-23 |
| | Total | 179.59 | | | | |

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| TOTAL |
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| ANNEX |

| Description | Electricity S | Electricity Sales (Million TZS) | 3) | Other Inc | Other Income (Million TZS) | ZS) | 101 | TOTAL (Million TZS) | S) |
|--------------|---------------|---------------------------------|-----------|-----------|----------------------------|---------|-----------|---------------------|------------|
| FΥ | 2020/21 | | 2022/23 | 2020/21 | 2021/22 | 2022/23 | 2020/21 | 2021/22 | 2022/23 |
| TANESCO | 1,641,019 | 1,821,113 | 1,932,810 | 224,187 | 344,636 | 265,174 | 1,865,206 | 2,165,749 | 2, 197,984 |
| Songas | 230,285 | 275,452 | 255,675 | 25,270 | 9,093 | • | 255,555 | 284,545 | 255,675 |
| Mwenga Hydro | 4,798 | 4,353 | 3,919 | 1,657 | 1,749 | 2,194 | 6,455 | 6,102 | 6,113 |
| Tulila | 6,490 | 4,512 | 6,247 | 104 | 104 | | 6,594 | 4,616 | 6,247 |
| Mwenga Power | 399 | 517 | 687 | 9 | 78 | 64 | 407 | 596 | 751 |
| Andoya | 789 | 388 | 109 | 34 | 0 | · | 823 | 388 | 109 |
| TPC | 3,265 | 3,069 | 2,234 | - | • | - | 3,265 | 3,069 | 2,234 |
| TANWAT | 547 | 486 | 445 | | | | 547 | 486 | 445 |
| Yovi | 760 | 1,329 | 1,009 | - | • | - | 760 | 1,329 | 1,009 |
| Matembwe | 110 | 77 | 14 | - | | • | 110 | 77 | 14 |
| Luponde | • | 857 | 928 | - | • | - | - | 857 | 928 |
| Nextgen | • | 1,025 | 1,544 | • | • | • | • | 1,025 | 1,544 |
| Darakuta | 464 | 448 | 310 | - | | - | 464 | 448 | 310 |
| TOTAL | 1,888,927 | 2,113,626 | 2,205,932 | 251,260 | 355,661 | 267,433 | 2,140,187 | 2,469,287 | 2,473,365 |

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| Description | Electr | Electricity Sales | | đ | Other Income | | | TOTAL | |
|--------------|---------|-------------------|---------|---------|--------------|---------|---------|---------|---------|
| FY | 2020/21 | 2021/22 | 2022/23 | 2020/21 | 2021/22 | 2022/23 | 2020/21 | 2021/22 | 2022/23 |
| TANESCO | 11% | 11% | 6% | 54% | 54% | -23% | 16% | 16% | 1% |
| Songas | 3% | 20% | -7% | -64% | -64% | -100% | -6% | 11% | -10% |
| Mwenga Hydro | -10% | -9% | -10% | 6% | 6% | 25% | -6% | -5% | 0% |
| Tulila | -30% | -30% | 38% | 0% | 0% | -100% | -30% | -30% | 35% |
| Mwenga Power | 10% | 30% | 33% | 820% | 820% | -18% | 25% | 46% | 26% |
| Andoya | -51% | -51% | -72% | -99% | -99% | -100% | -53% | -53% | -72% |
| TPC | | -6% | -27% | | | | | -6% | -27% |
| TANWAT | | -11% | -8% | | | | | -11% | -8% |
| Yovi | | 75% | -24% | | | | | 75% | -24% |
| Matembwe | | -30% | -82% | | | | | -30% | -82% |
| Luponde | | | 8% | | | | | | 8% |
| Nextgen | | | 51% | | | | | | 51% |
| Darakuta | | -4% | -31% | | | | | -4% | -31% |
| TOTAL | 5% | 12% | 4% | -5% | 42% | -25% | 3% | 15% | 0.2% |

| CATEGORY |
|-----------------------|
| ALES PER CUSTOMER (|
| SALES PER |
| 17: TANESCO SA |
| ANNEX 17: |

| Customer Category | | Sales (TZS Bil | lions) | | | Sales | (MWh) | |
|--------------------------|---------|----------------|---------|---------|---------|---------|---------|---------|
| FY | 2019/20 | 2020/21 | 2021/22 | 2022/23 | 2019/20 | 2020/21 | 2021/22 | 2022/23 |
| Domestic low usage (D1) | 34 | 37 | 38 | 43 | 314 | 337 | 351 | 393 |
| General usage (T1) | 775 | 817 | 899 | 958 | 2633 | 2773 | 3063 | 3313 |
| Low Voltage Supply (T2) | 161 | 164 | 180 | 191 | 614 | 623 | 684 | 691 |
| High Voltage Supply (T3) | 594 | 624 | 704 | 742 | 3055 | 3269 | 3667 | 3884 |
| TOTAL | 1,564 | 1,641 | 1,821 | 1,933 | 6,616 | 7,002 | 7,765 | 8,281 |

Percentage Contribution

| reiceillage collilibulioli | | | | | | | | |
|----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| FΥ | 2019/20 | 2020/21 | 2021/22 | 2022/23 | 2019/20 | 2020/21 | 2021/22 | 2022/23 |
| Domestic low usage (D1) | 2% | 2% | 2% | 2% | 5% | 5% | 5% | 5% |
| General usage (T1) | 50% | 50% | 49% | 50% | 40% | 40% | 39% | 40% |
| Low Voltage Supply (T2) | 10% | 10% | 10% | 10% | 9% | 9% | 9% | 8% |
| High Voltage Supply (T3) | 38% | 38% | 39% | 38% | 46% | 47% | 47% | 47% |

REFERENCE

ⁱAccessible at https://www.ewura.go.tz/electricity-regulatory-tools/.

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