UNITED REPUBLIC OF TANZANIA

MINISTRY OF ENERGY

ENERGY AND WATER UTILITIES REGULATORY AUTHORITY

(EWURA)

THE ELECTRICITY SUB-SECTOR REGULATORY PERFORMANCE UPDATES – JUNE 2025

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ABBREVIATIONS AND ACRONYMS

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

EXECUTIVE SUMMARY

This report presents the regulatory performance updates of the Electricity Supply Industry from 1st July 2024 to 30th June 2025. 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.

Thirty-seven (37) electricity generation licences existed from 28 licenses in June 2024. Also, thirteen (13) entities had registered to generate electricity below one (1) megawatt. Likewise, 10,367 electrical installation licenses exist to enhance electrical installations, from 9,026 in June 2024. Furthermore, one transmission licence, two distribution licences, and one cross-border licence existed.

Two projects, accounting for 200MW (100MW solar and 100MW wind), had approval for the initiation of procurement for the Development of new electricity supply installations, in partnership with TANESCO, to build power plants. These accumulate to Six (6) projects (936MW) that have approval for the Initiation of Procurement of New Electricity Supply Installations to develop power plants in partnership with TANESCO. Sixty-seven (67) power purchase agreements (PPAs) existed from 59 in June 2024. Also, seven (7) tariff orders exist for entities/utilities selling electricity to customers. Likewise, the feed-in tariff existed for entities selling electricity in bulk to the main grid and off-grid between 100kW and 10MW.

Installed capacity reached 4,504.54 MW from 2,411.33 MW in June 2024. Electricity demand reached 2,358.54MW from 1,654.2MW in June 2025. Also, the transmission line route length reached 8,303.87km from 7,524km in June 2024. Furthermore, the distribution line route length reached 214,343.67km from 188,266.23 km in June 2024.

Connected Customers reached 5,485,676 from 4,982,259 in June 2024. Also, 104 complaints and disputes between regulated entities and respective customers were resolved.

The reliability of transmission network indicates that the System Average Interruption Frequency Index (SAIFI) was 6.4 incidents, and was within the target of <10 incidents. Also, the System Average Interruption Duration Index (SAIDI) was 3.15 hours, and was within a target of below 6.5 hours.

The reliability of distribution network indicates that the System Average Interruption Frequency Index (SAIFI) was 17.69 incidents, and within the target of below 26 incidents. Also, the System Average Interruption Duration Index (SAIDI) was 1,692.73 minutes, and above a target of < 1,536 hours. Also, customer average interruption duration index (CAIDI) was 95.55 minutes and above a target of <59 minutes

Five (5) electricity generation strategic projects with an installed capacity of 2,235.5 MW, 30 transmission line projects accounting for 15,034.63km, and 33 substations accounting for 5,980.00MVA were under construction by the public sector. Also, 8 projects accounting for 36.23 MW and 36 projects accounting for 173.39MW were at different stages of soliciting funds by the private sector.

During the year under review, the electricity supply industry experienced several challenges, including an increase in electricity demand due to socioeconomic development attributed to emerging technologies, such as clean cooking, electric mobility, and standard gauge railways. 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, EWURA for providing technical and economic regulation, REA for rural electrification, and TANESCO for conducting regulated activities. 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 the 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 subsector regulatory performance updates as of March 2025, particularly in 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 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

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**.

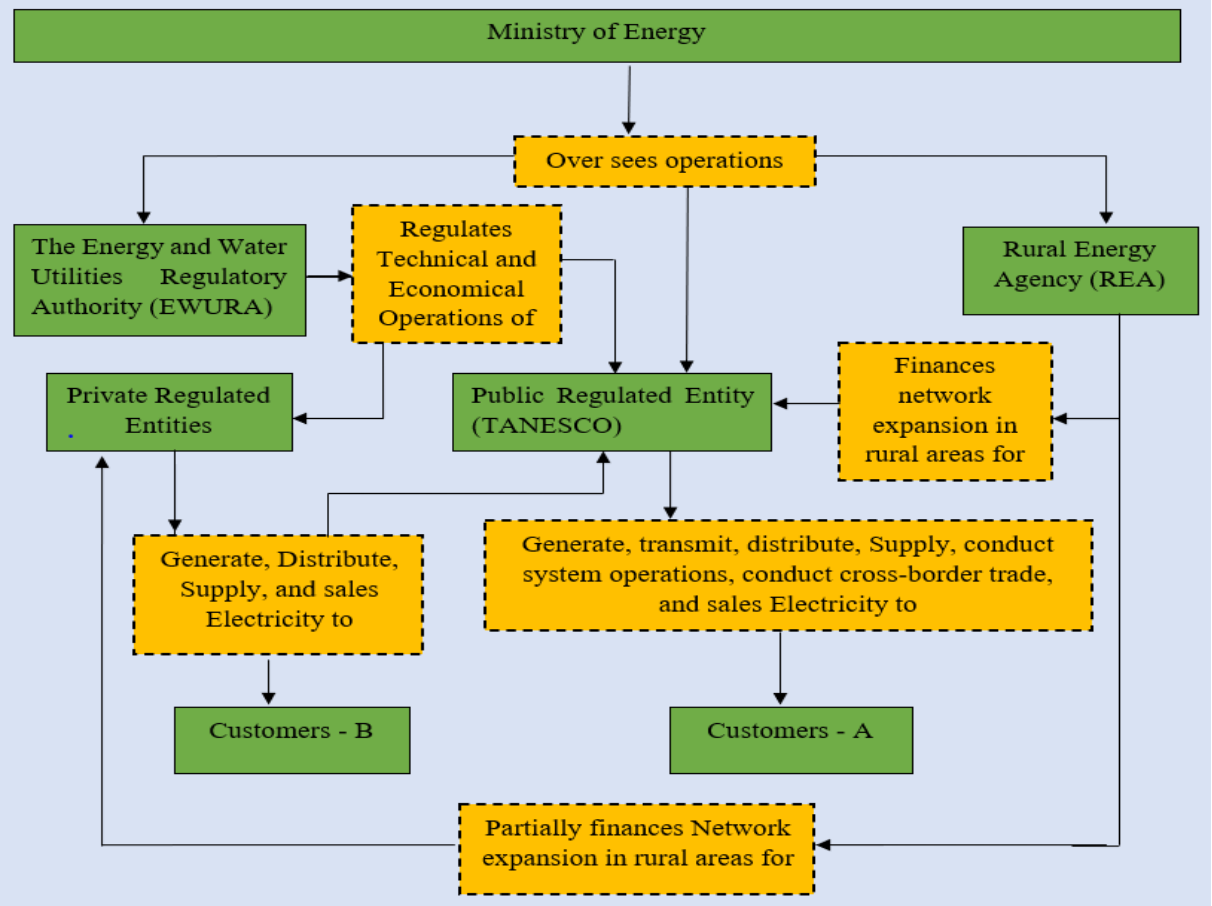


Figure 1: The Electricity Supply Industry Institutional Structure

2.2 Regulatory Tools

The regulatory tools used to administer the electricity supply industry are presented in **Figure 2**. Also accessible at *https://www.ewura.go.tz/electricity-regulatory-tools/*.

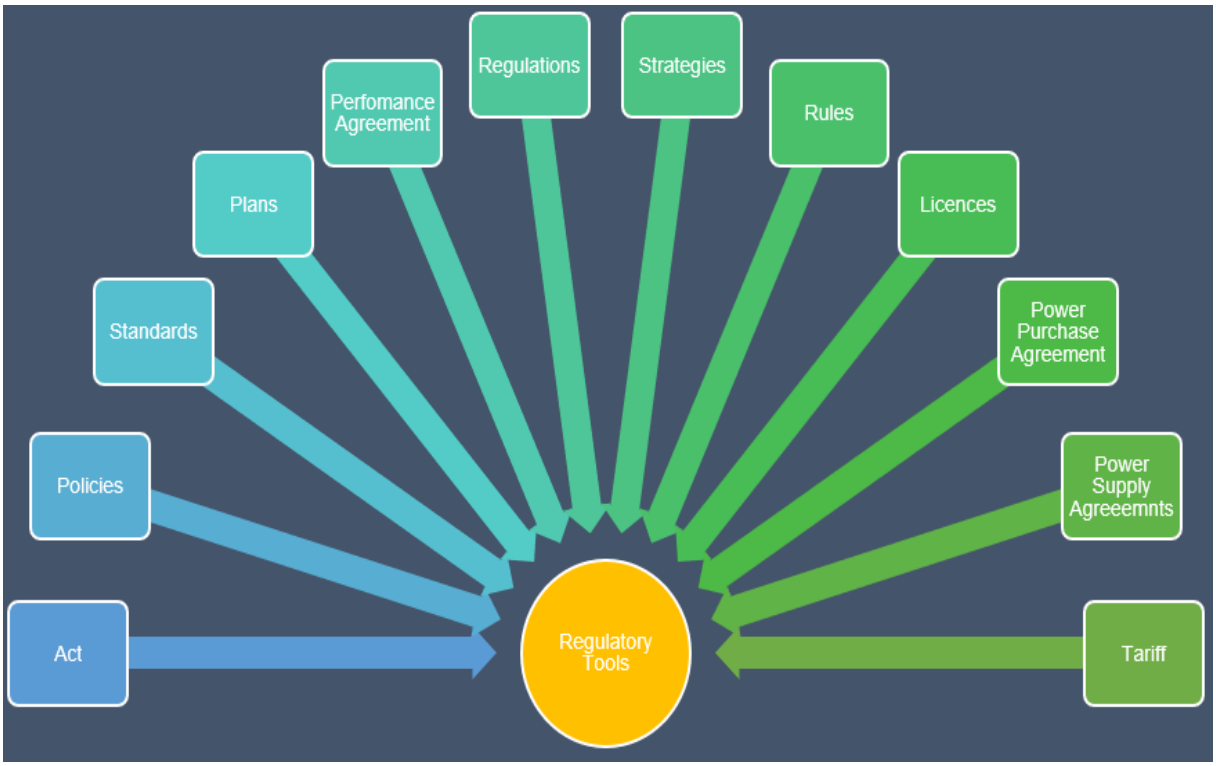


Figure 2: Regulatory Tools in The Electricity Supply Industry

2.3 Regulatory Goals

The regulatory goals used to administer the electricity supply industry are outlines in section 30(7) of the Electricity Act, Cap 131. The same is presented in **Figure 2**.

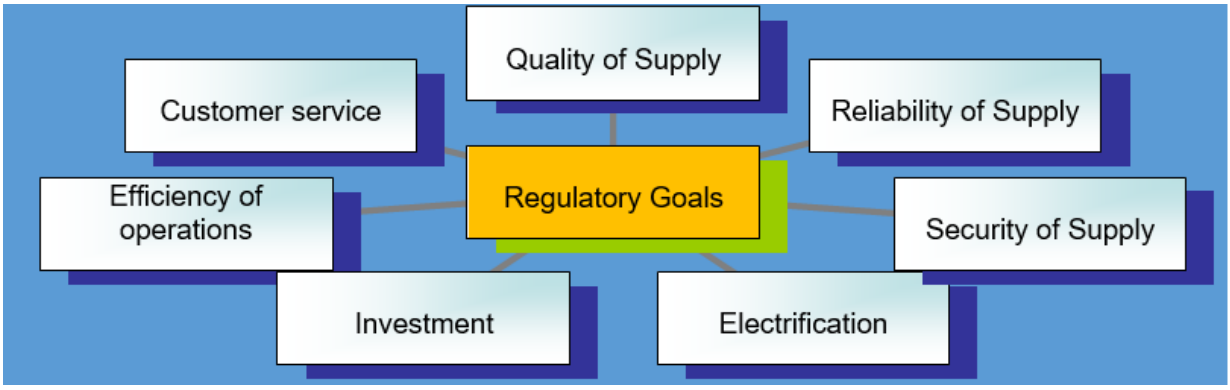


Figure 3: Regulatory Goals in The Electricity Supply Industry

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 4**. Likewise, generation activities in rural areas with installed capacity below 1MW are exempted from a license, but only need to be registered in line with 18(3).

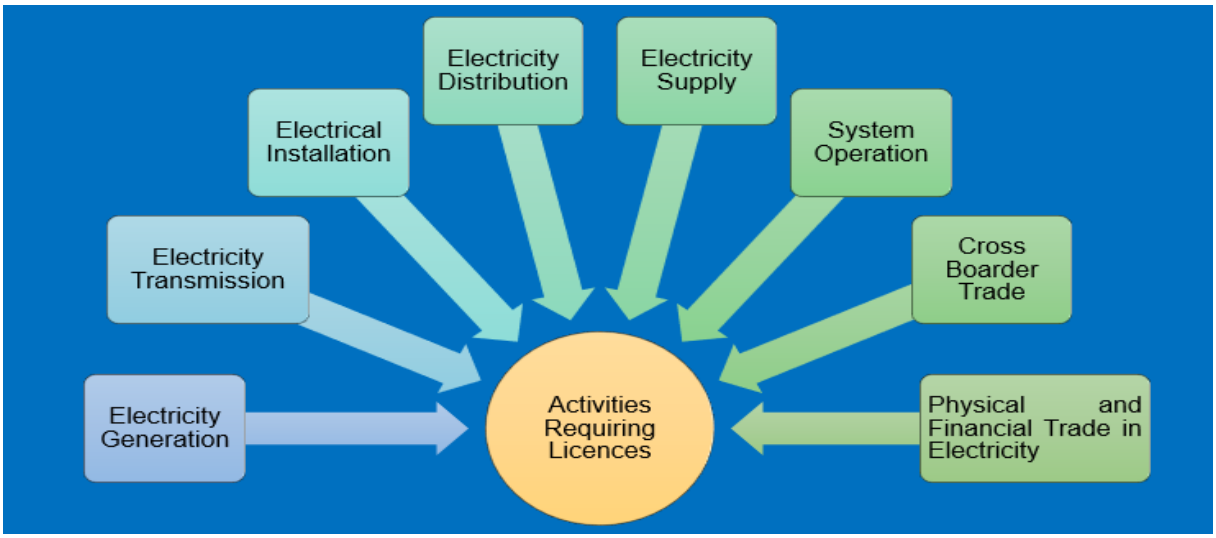


Figure 4: Activities Requiring Licence

3.1 Licensing

As of June 2025, 10,446 licences in **Figure 5** and details in **Annex 3** were issued. 1,384 licenses were issued in FY 2024/2025 as in **Figure 6**[i].

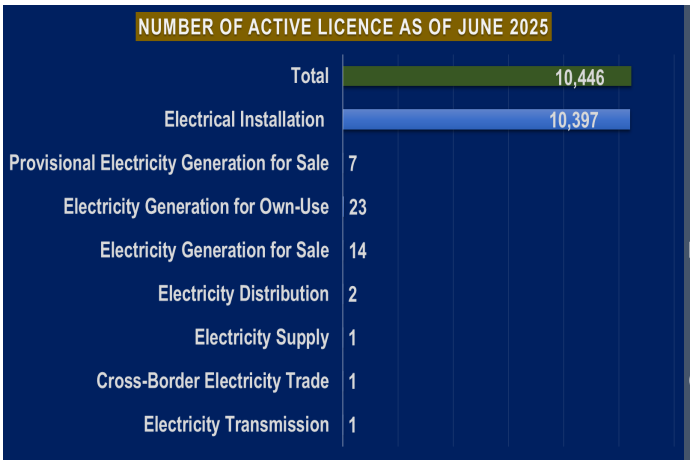


Figure 5: Issued Licenses as of June 2025

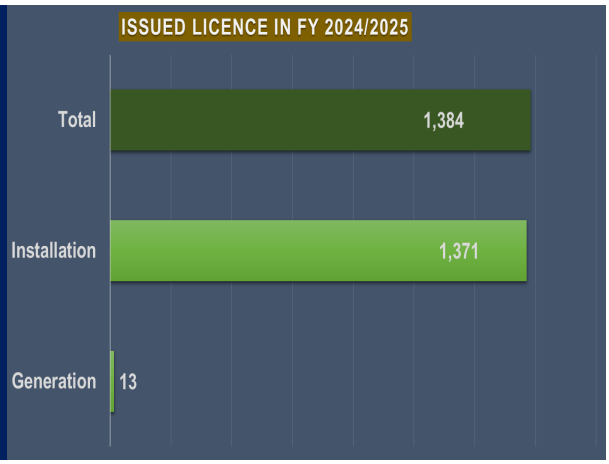


Figure 6: Issued Licenses in FY2024/2025

3.1.1 The Electricity Generation Licences

As of June 2025, there were 37 generating licences issued in line with sections 5 and 8(1)(a) of the Electricity Act Cap. 131 as in **Figure 7**.. Likewise, the trend from 2017/18

to 2024/25 is depicted in **Figure 8** where thirteen (13) licences were issued in FY2024/2025. Details are in **Annex 3**.

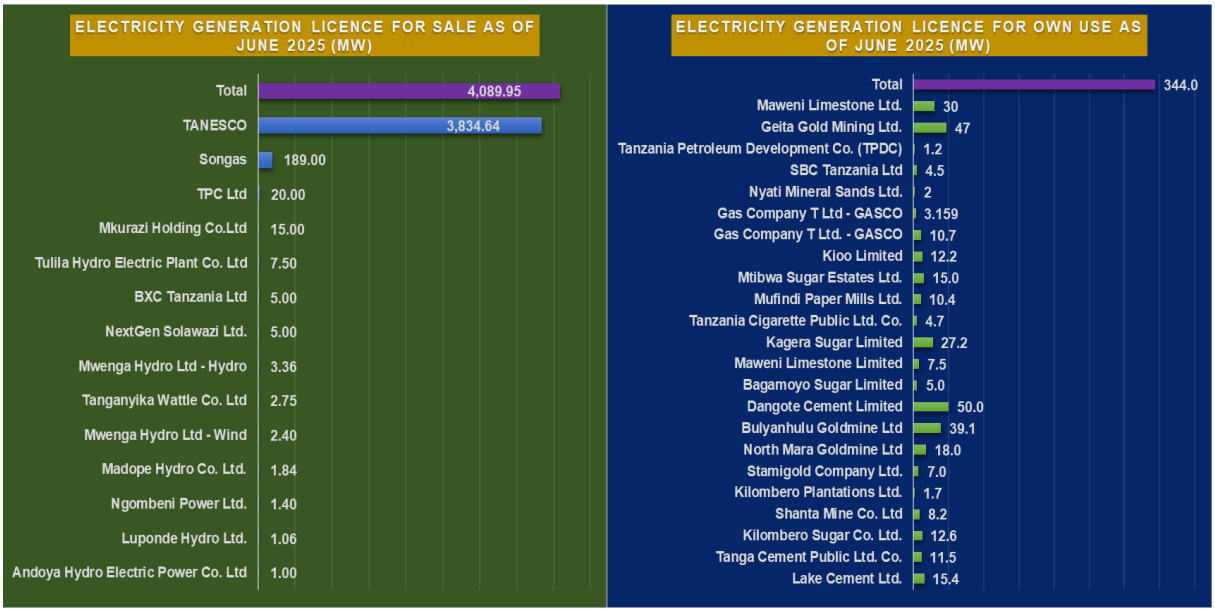


Figure 7: Specific Capacity of Electricity Generation Licences as of June 2025

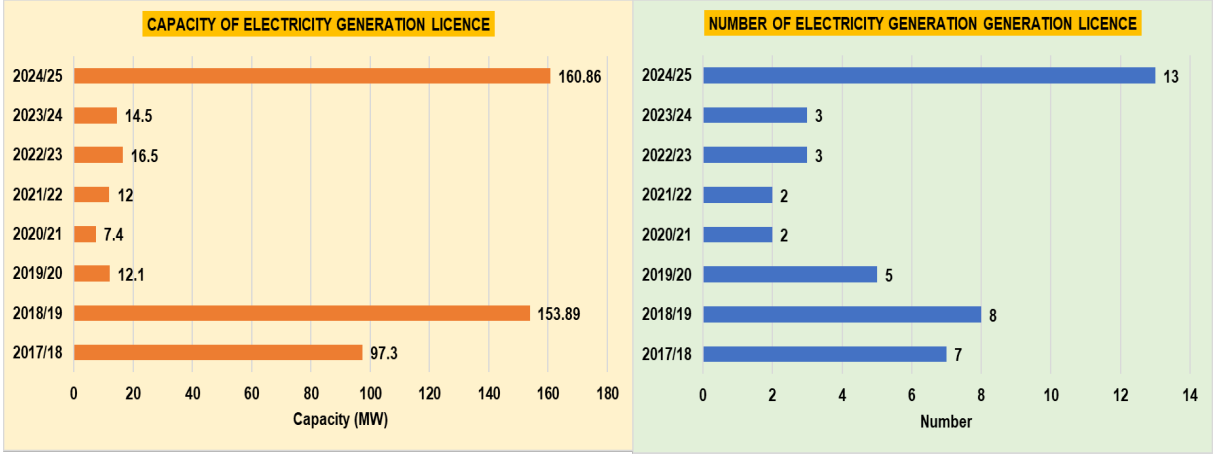


Figure 8: Electricity Generation Licence Issued (FY 2017/18 – 2024/25)

3.1.2 Electricity Transmission Licence

As of June 2025, 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. It covers transmission activities at voltage levels presented in **Figure 9**.

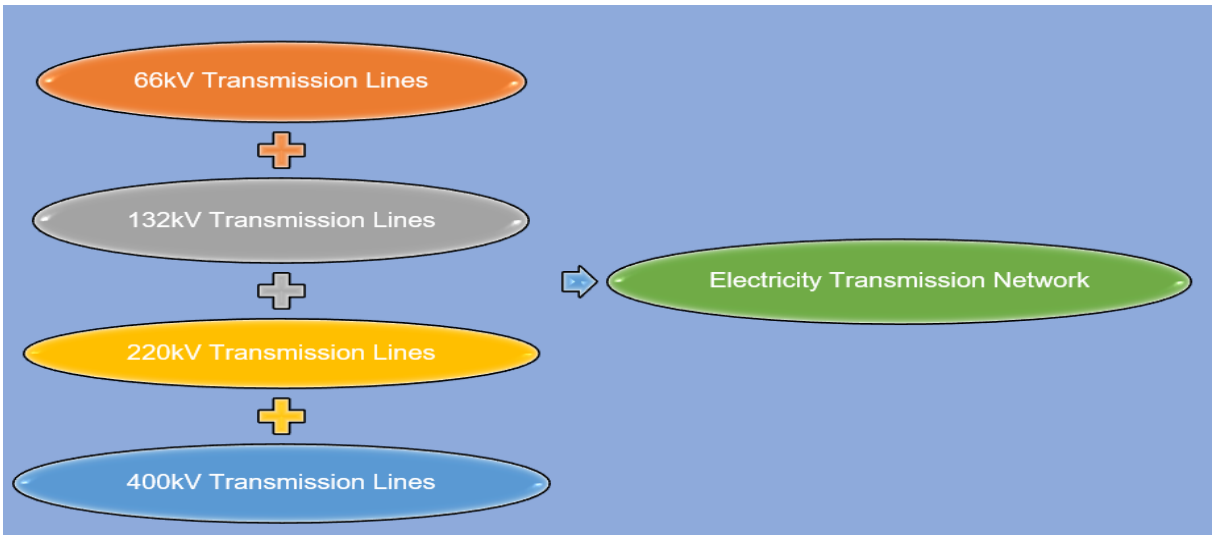


Figure 9: Electricity Transmission Network Voltage Levels as of June 2025

3.1.3 Electricity Distribution Licence

By June 2025, 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 the voltage levels presented in **Figure 11**.

Figure 10: Electricity Distribution Licensed Entities as of June 2025

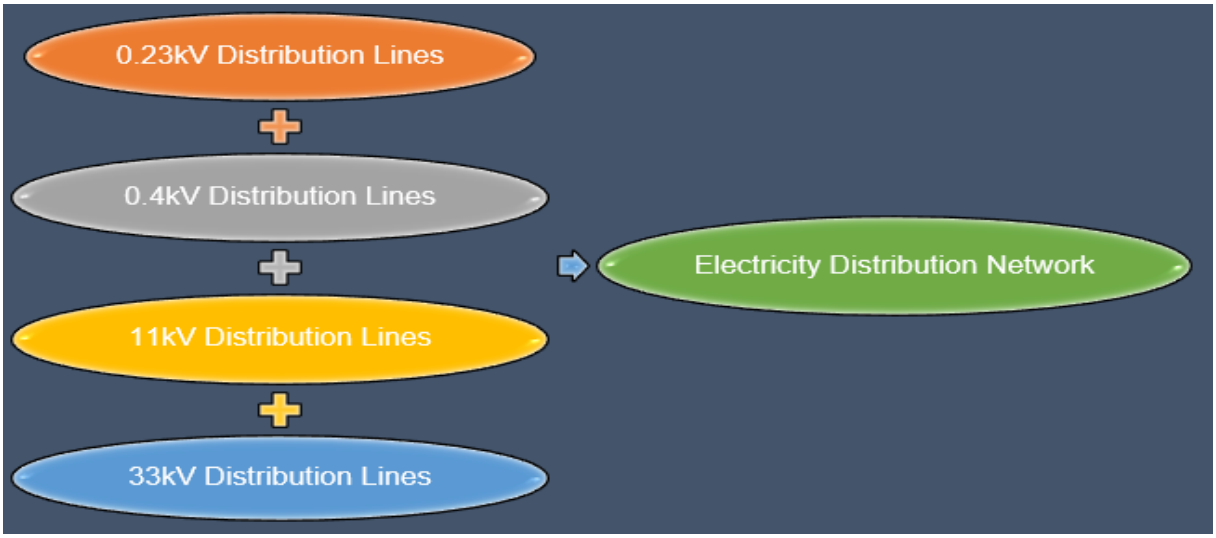


Figure 11: Electricity Distribution Network Voltage Levels as of June 2024

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 Error! Reference source not found.. It covers supply services activities to customers connected at three voltage levels presented in **Figure 11**.

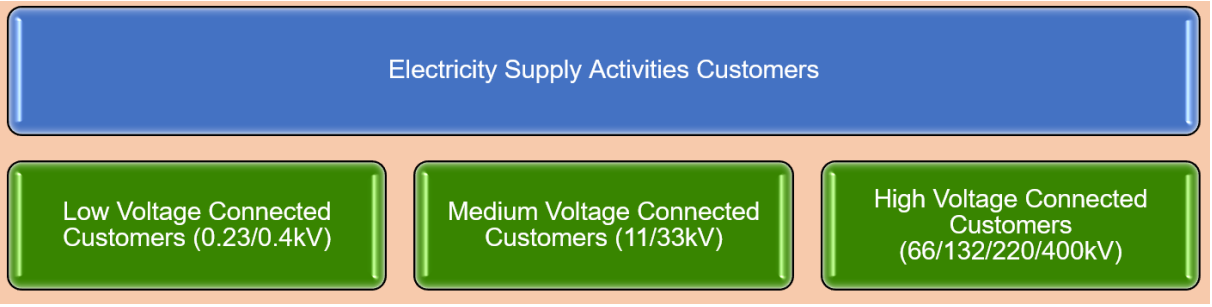


Figure 12: Electricity Supply Voltage Levels

3.1.5 Cross-Border Electricity Trade Licence

As of June 2025, TANESCO had a licence for Cross-Border Electricity Trade in line with sections 5 and 8(1)(f) of the Electricity Act Cap. 131. 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.

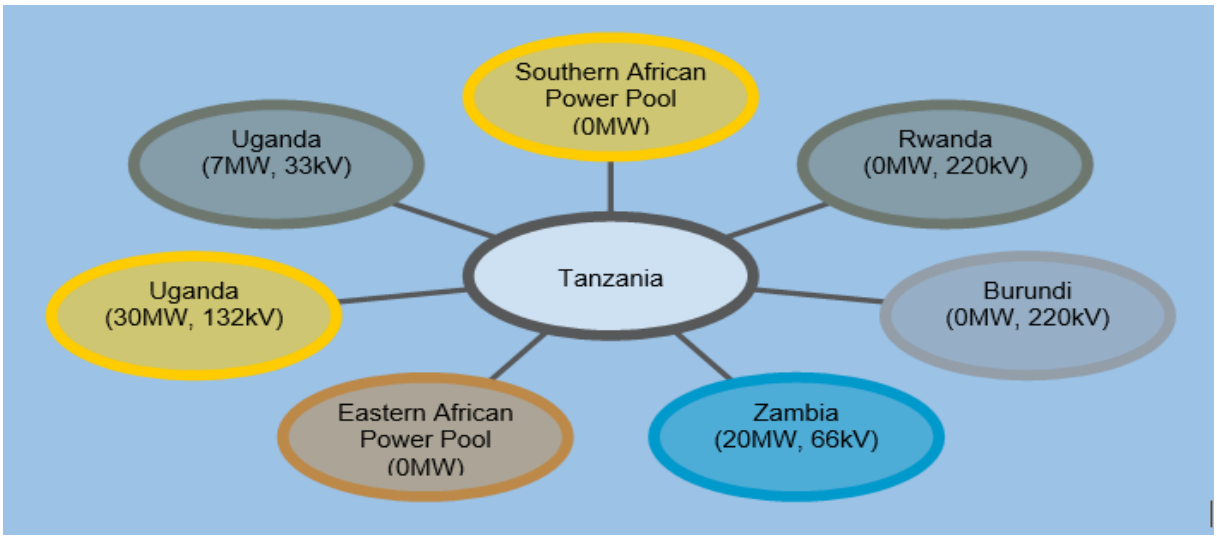


Figure 13: Cross-Border Electricity Trade Interconnections as of June 2025

3.1.6 Electrical Installation Licences

A total of 10,397 licenses exist for persons carrying out electrical installations in line with sections 5 and 8(h) of the Electricity Act by June 2025. 1,371 licences were issued in FY2024/2025 [ii].

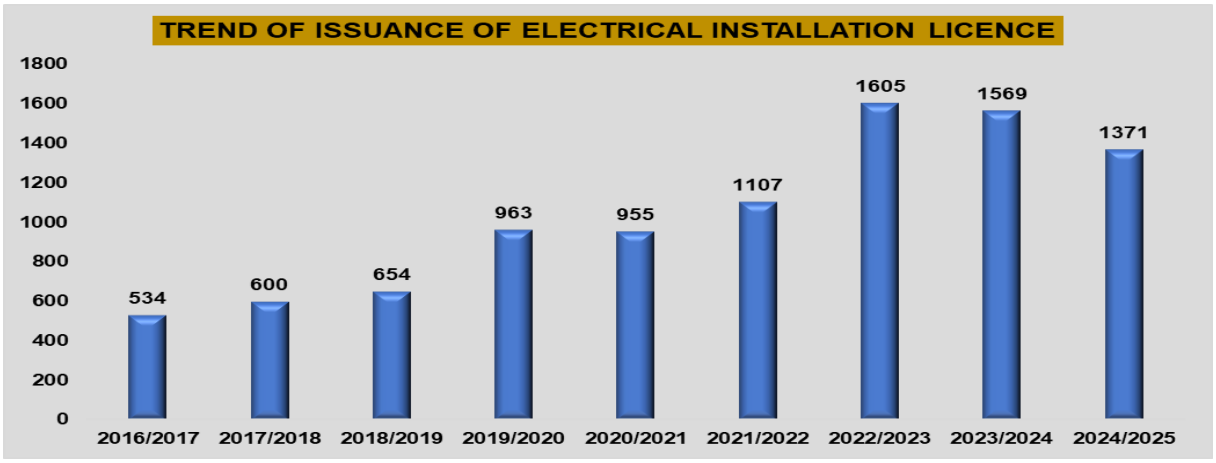


Figure 14: Trend of Electrical Installation Personal Licences from 2016/17 - 2024/2025

3.2 Registrations

Thirtenn (13) entities had registered to generate electricity below one (1) megawatt in line with Section 18 of the Electricity Act, Cap. 131. Their description is depicted in **Figure 15**.

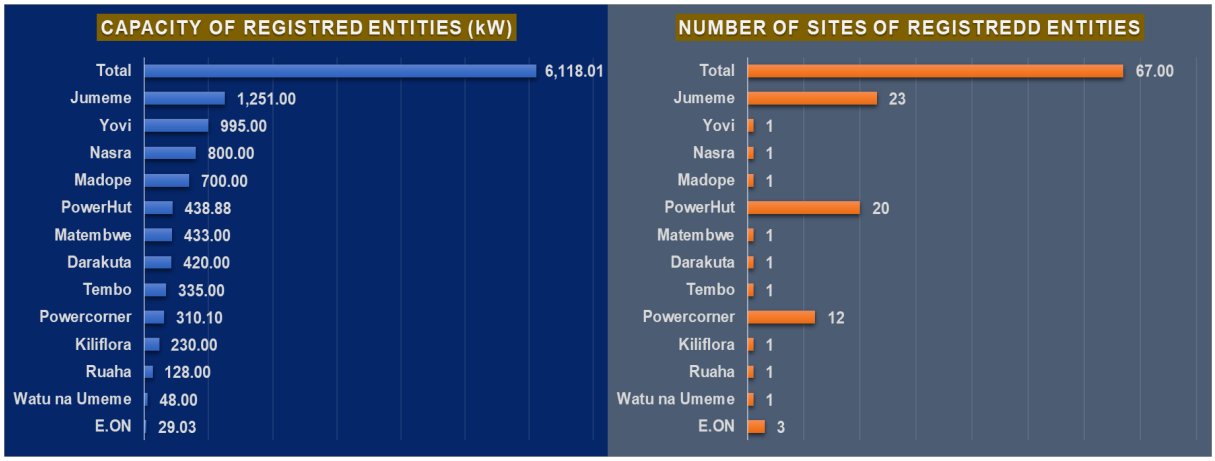


Figure 15: Registered Entities Generating Electricity below 1MW as Of June 2024

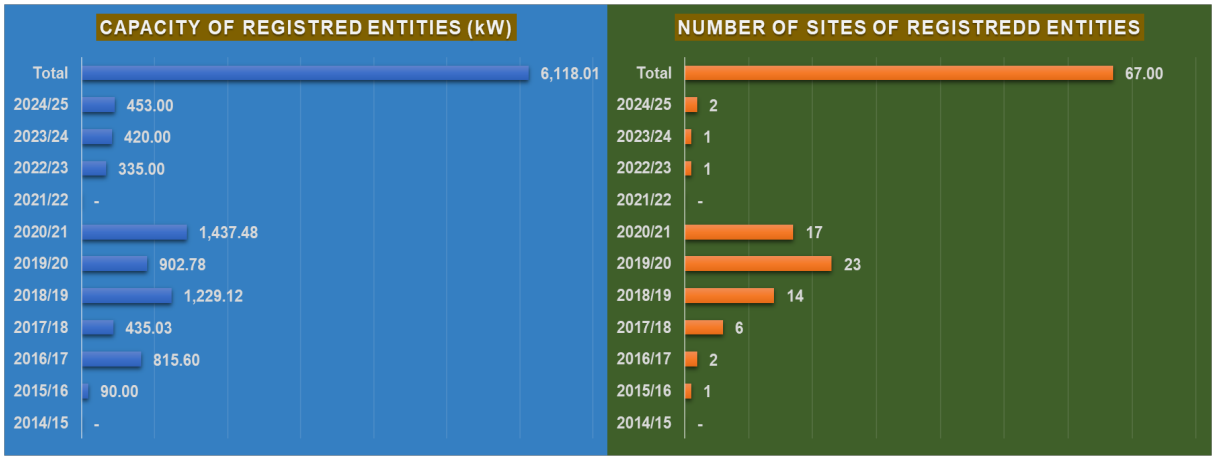


Figure 16: Registered Entities from 2016/17-2024/2025

4. THE INITIATION OF PROCUREMENT OF ELECTRICITY SUPPLY INSTALLATIONS

In the procurement of power supply installations, two projects, accounting for 200MW (100MW solar and 100MW wind) had approval for the initiation of procurement for the Development of new electricity supply installations, in partnership with TANESCO, to build power plants. These accumulates to Six (6) projects with a potential of 936MW 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**.

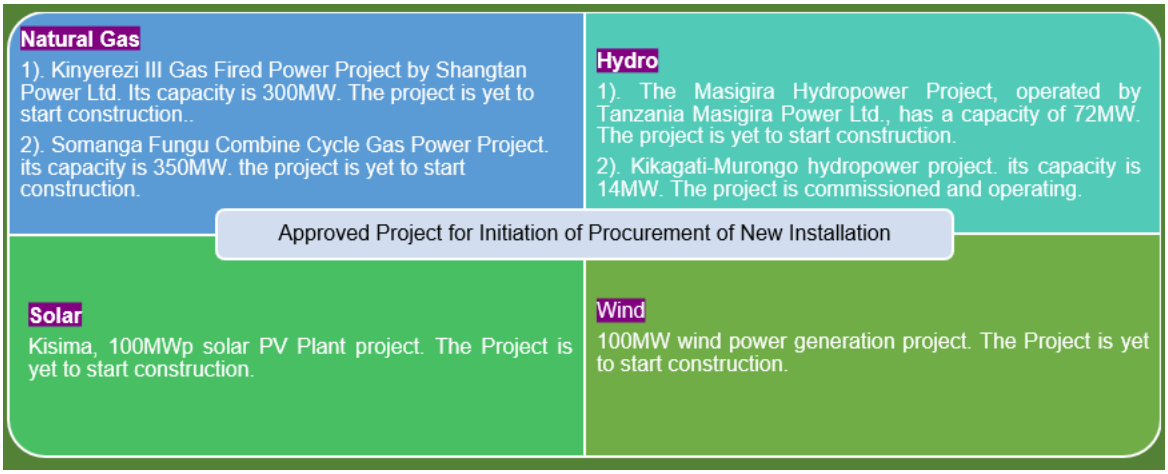


Figure 17: Initiation of Procurement of New Installation of The Electricity Supply as of June 2025

5. POWER PURCHASE AGREEMENTS

The Power Purchase Agreements (PPAs) were approved in line with Section 25(3) of the Electricity Act Cap.131. The PPAs were signed between TANESCO and entities within and outside the country, selling or intending to sell electricity to TANESCO.

5.1 Operationalization Status of Power Purchase Agreements

The status of Sixty-seven (67) Power Purchase Agreements (PPAs) accounting for 698.72MW is indicated in **Figure 18**. It includes 22 PPAs which are operational, 8 PPAs under construction, and 36 PPAs which are at different stages of financial closure. Details are in **Annex 5**.

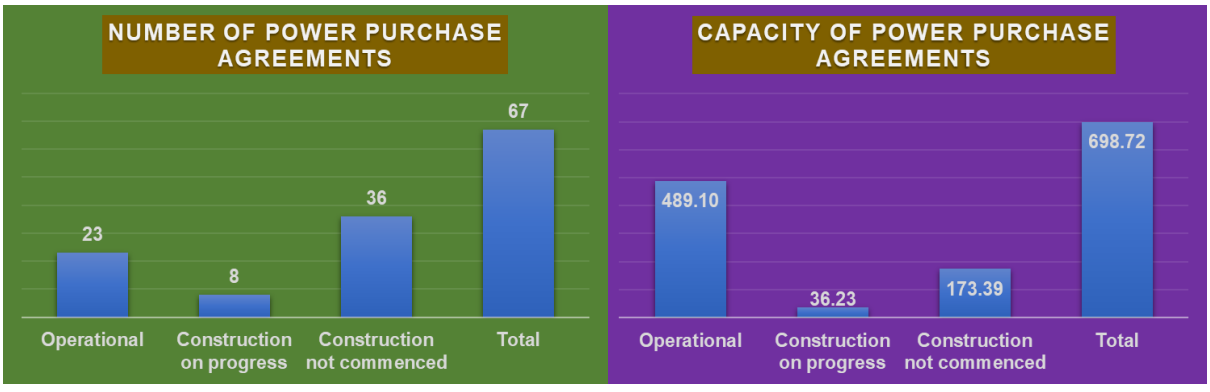


Figure 18: Status of Power Purchase Agreements (PPAs)

5.2 Registration Status of Entities with Power Purchase Agreements

Sixty-seven (67) signed PPAs include both national and foreign registered entities as in **Figure 19**. Out of the total, sixty-four (64) PPAs accounting for 641.72MW are signed between TANESCO and entities registered within the country and three (3) PPAs accounting for 57MW with foreign registered entities. Details are in **Annex 5**.

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

5.3 Trend of Approved Power Purchase Agreements

The trend of the approved PPAs is indicated in **Figure 20**. The most approvals were recorded in the FY2023/24, where 29 PPAs accounting for 352.46MW were approved. Details are in **Annex 5**.

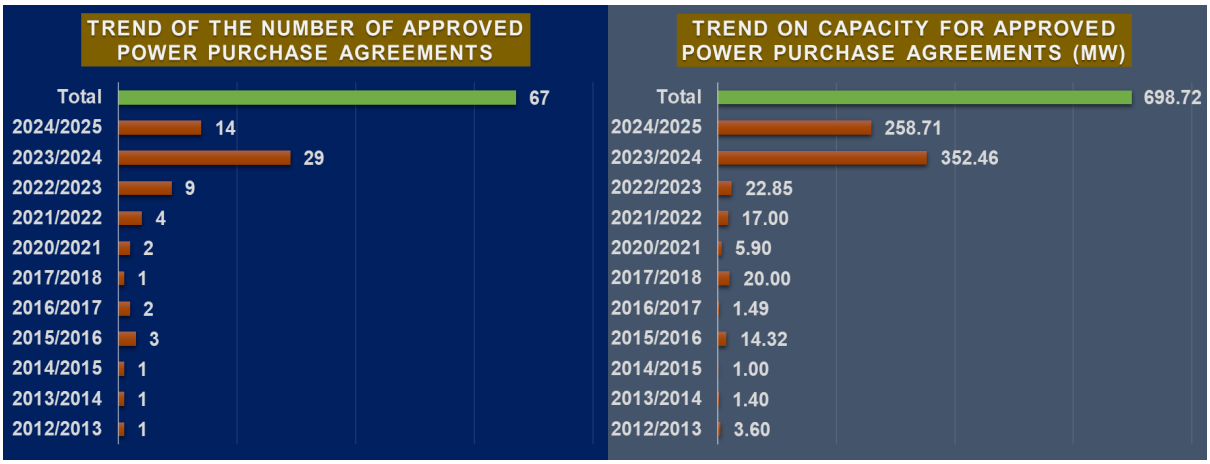


Figure 20: The Trend of Approved Power Purchase Agreements (PPAs)

6. POWER EXCHANGE AND POWER SUPPLY AGREEMENTS

The Power Exchange Agreement and Power Supply Agreement form an important part of regulatory tools in regulating the electricity supply industry. The agreements are in line with Section 25(2) and (3) of the Electricity Act Cap. 131. It is also in line with as well as Regulation 4 of the Electricity (General) Regulations, 2020.

6.1 Power Exchange Agreement

The power exchange agreement was approved for 4MW between Tanzania Electric Supply Co. Ltd (TANESCO) and Kenya Electricity Transmission Co. Ltd (KETRACO) as in **Figure 21**. The agreement allows for the exchange of power, with Kenya potentially buying electricity from Tanzania during peak demand.

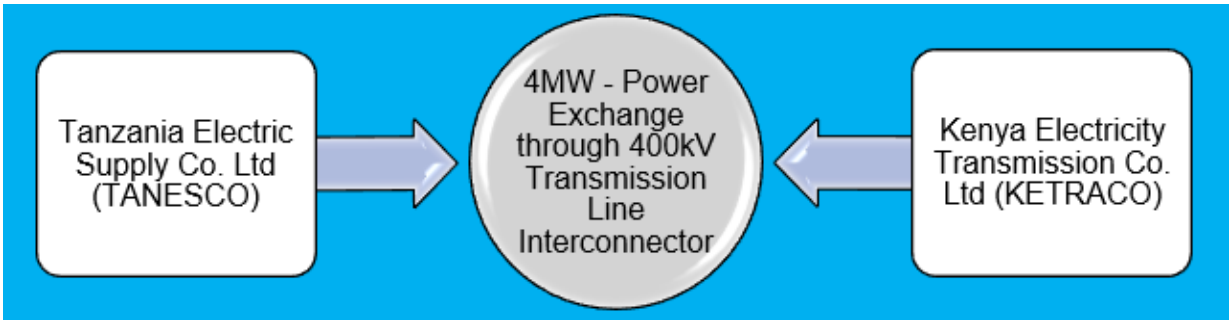


Figure 21: Power Exchange between Tanzania and Kenya

6.2 Power Supply Agreement for Customers Financing the Construction of Electric Service Supply Line

The regulatory framework for customer financing of the construction of the electric supply line forms a crucial part of the regulations that enhance the progress of electrification, including accessibility and connectivity. Regulation 4 of the Electricity (General) Regulations, 2020 provides options for customers to finance the construction of the electricity supply line at al voltage levels upon an agreement with the distribution network operator (DNO). Thereafter, the customer shall be reimbursed through deduction from electricity bills at the rate of forty per cent (40%) of the monthly bill or of every purchase of electricity charges until full recovery of incurred costs.

Several customers have opted for this framework, and more regulatory efforts are being directed towards compliance with this framework to enhance accessibility and connectivity, which are key to industrialisation and other socio-economic activities. The framework financing and recovery mechanism is summarized in **Figure 22**.

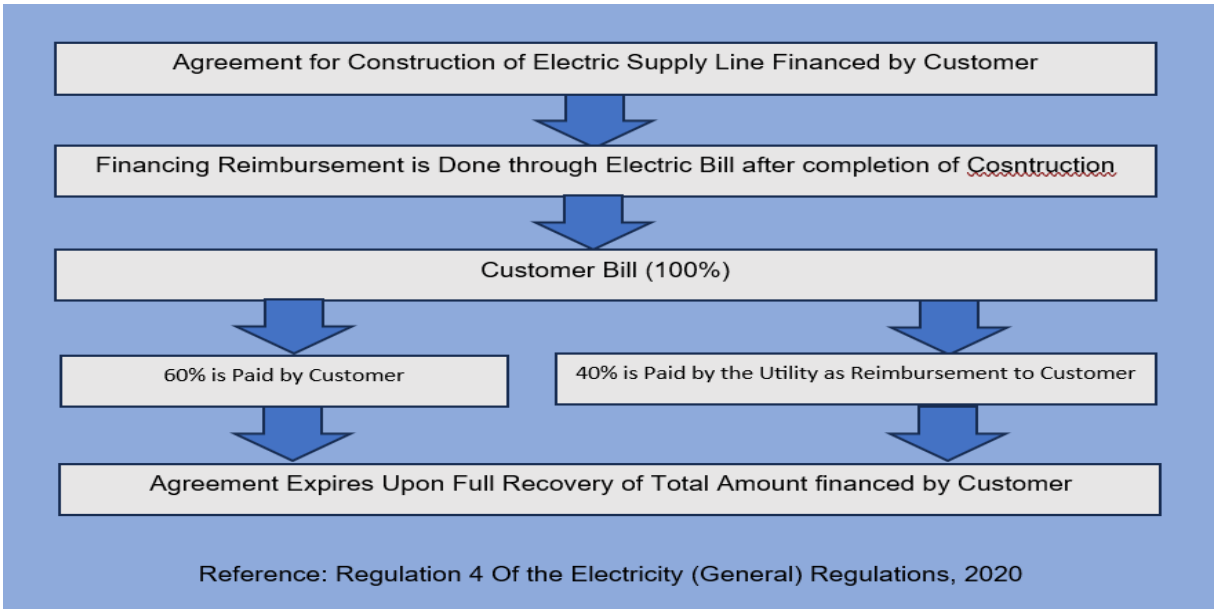


Figure 22: Framework for Reimbursement of Construction of Electric Supply Line Financed by Customers

7. TARIFF AND CHARGES

The tariff and charges were approved as per section 5 (b) of the Electricity Act, Cap. 131[iii]. It includes rates and charges for utilities to sell electricity to end-user customers, as well as standardized small power projects tariffs for selling electricity to the grid, as shown in **Figure 23** in line with section 5 (b) of the Electricity Act, Cap. 131[iv].

Figure 23: Tariff Categories as Of June 2025

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

Tariff orders form an important part of the regulatory aspect. As of June 2025, seven (7) tariff orders were approved for utilities selling electricity to their respective end-user customers, as indicated in **Figure 24**. Details of TANESCO tariff is in **Annex 8**. Likewise details for Mwenga power services Limited is in **Annex 9**. Furthermore, the tariff for remaining (registered) entities is in **Annex 6**.

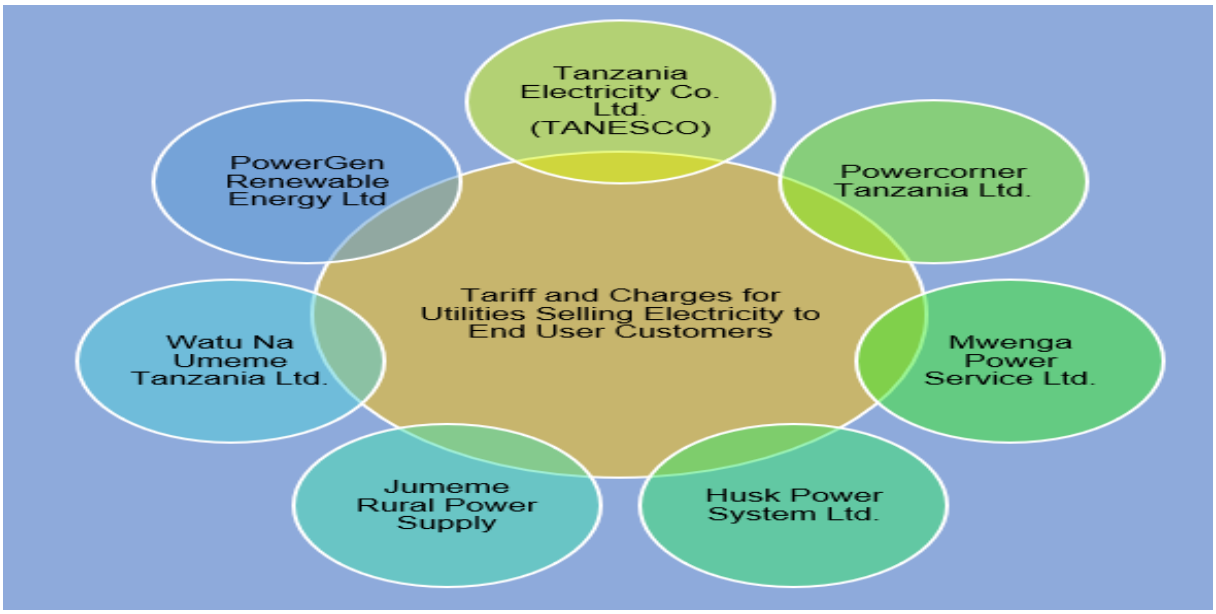


Figure 24: Utilities with Tariffs to Sell Electricity to End-User Customers

7.2 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 25**. Its details and respective entities are in **Annex 7**.

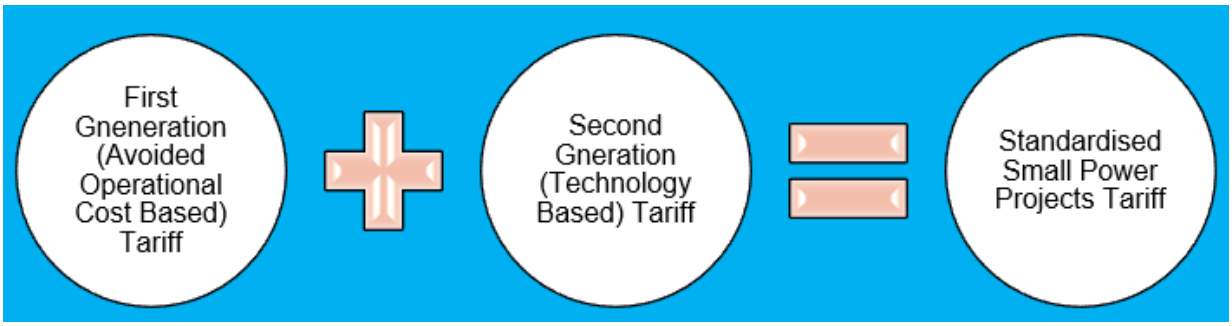


Figure 25: Tariff category for Standardized Small Power Projects Tariffs as of June 2025

8. COMPLAINTS AND DISPUTE RESOLUTION

Complaints and dispute resolution between licensees (service providers) and their respective customers form an important part of regulation. And enhances customer service. It is done under Sections 7(1)(e), 34-38 of the EWURA Act, Cap 414, and 28(3) of the Electricity Act, Cap 131.

8.1 Trend Of Complaints and Disputes of Resolution

During the Financial Year 2024/25, 104 complaints and disputes between TANESCO and its customers were resolved. The performance by regions is indicated in **Figure 28**, where Dar es Salaam has 17 complaints and disputes resolved, being the highest among regions, as depicted in **Figure 27**.

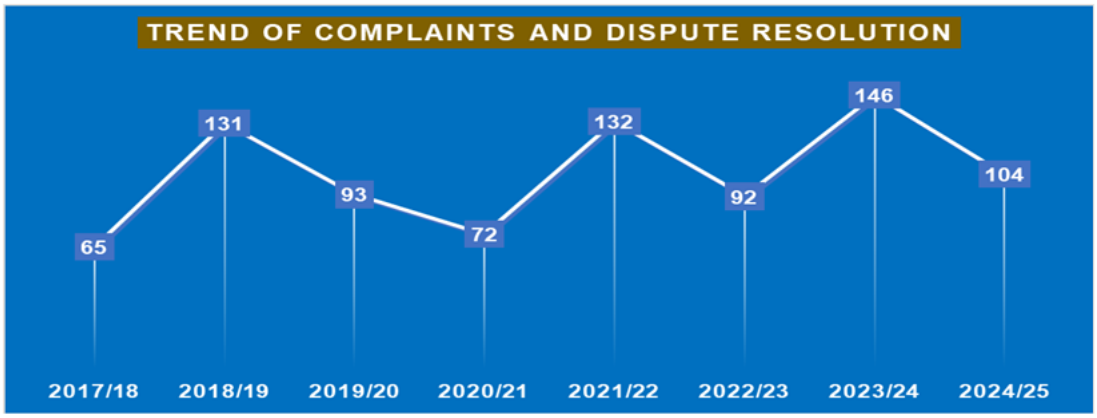


Figure 26: Complaint and Dispute Resolution as of June 2025

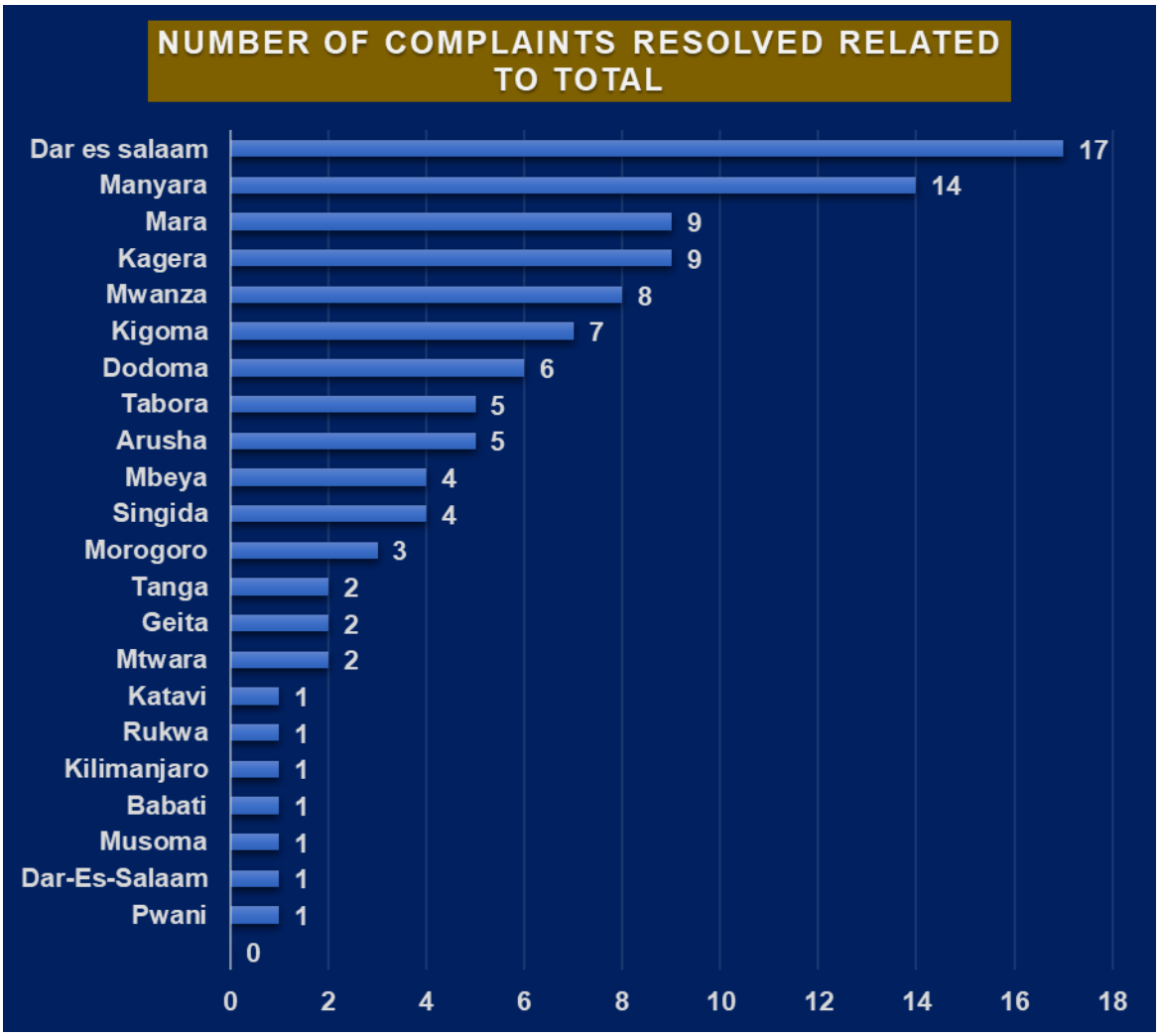


Figure 27: Complaint and Dispute Resolution for Regions as of June 2025

8.2 Nature Of Complaints and Disputes

The nature of 104 complaints and disputes resolved in 2024/25 is depicted in **Figure 28**. Complaints and disputes related to rates and charges accounted for 19 equivalents, or 18%, of all complaints and disputes.

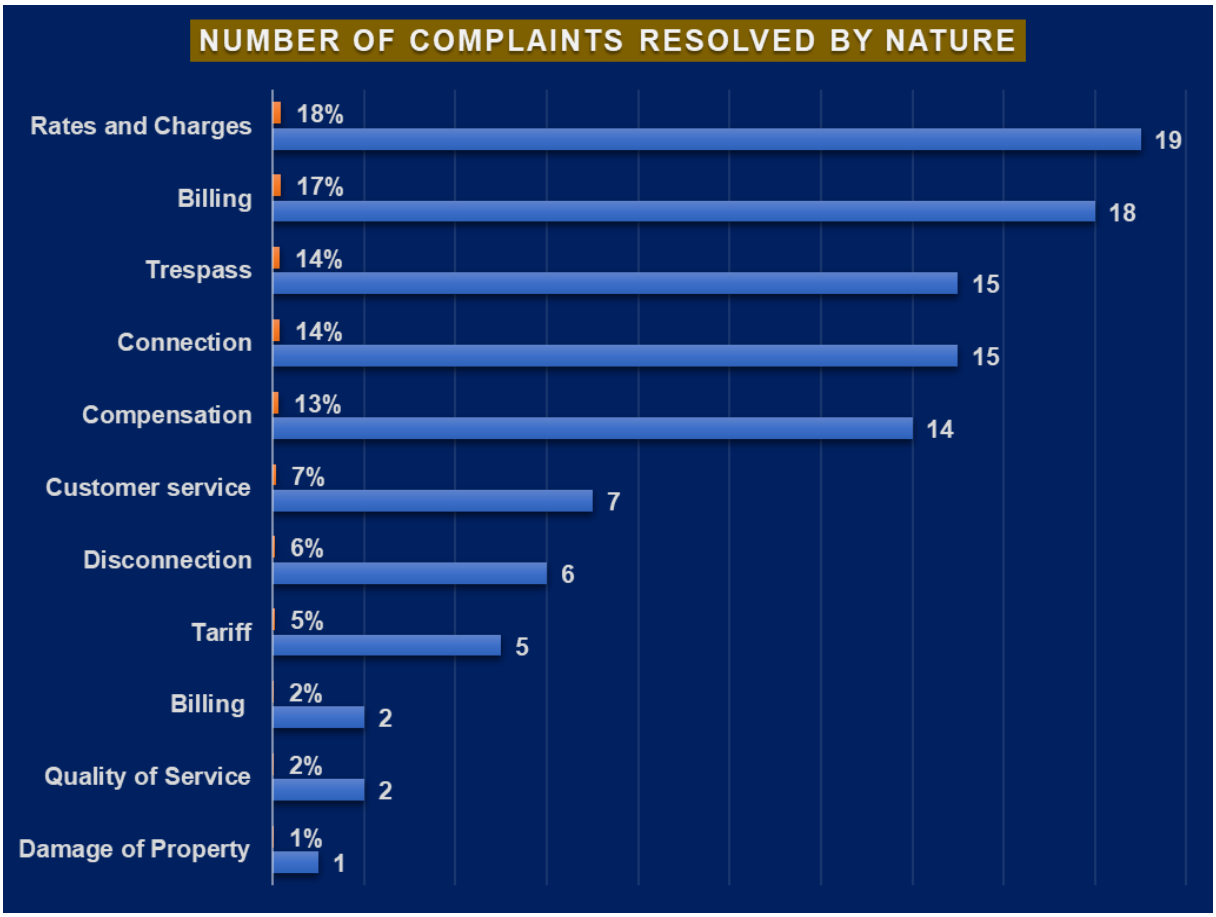


Figure 28: Nature of Complaint During FY2024/2025

9. ELECTRICITY GENERATION

Electricity generation performance is analyzed based on entities licensed to undertake regulated electricity generation activities. It covers areas described in **Figure 29**.

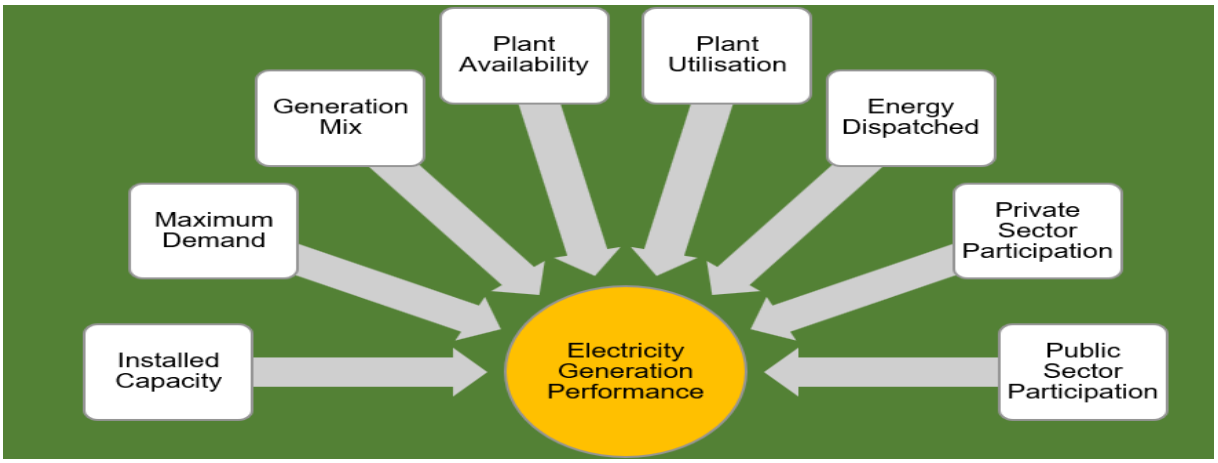
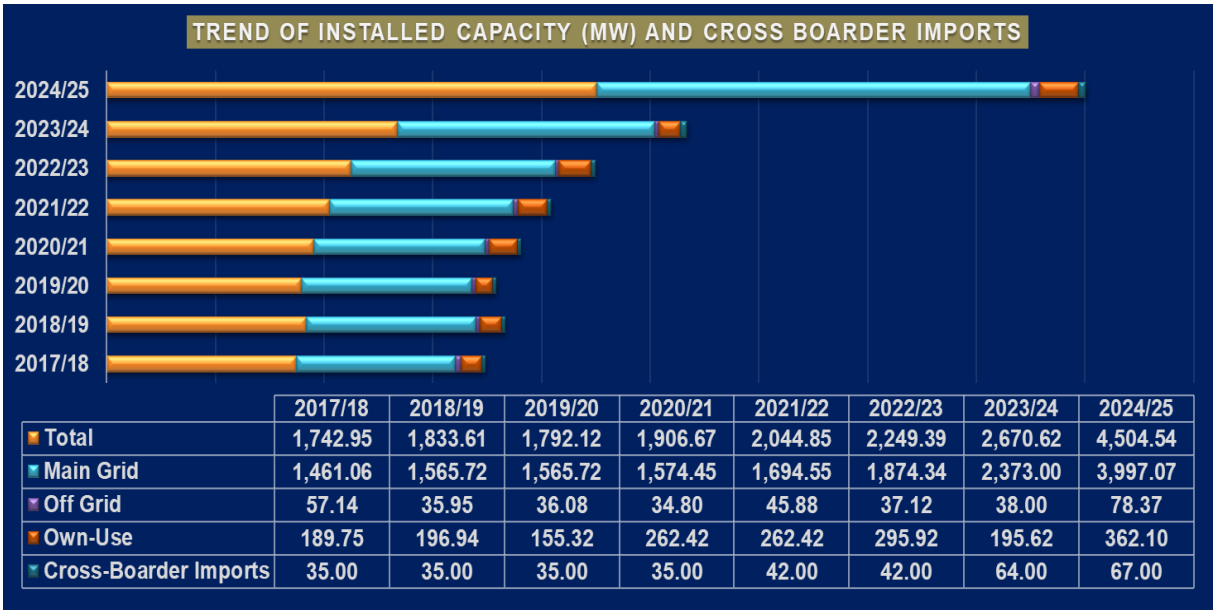


Figure 29: Description of Electricity Generation Performance

9.1 Installed Capacity

As of June 2025, the installed capacity and cross-border imports were 4,504.54 MW, as in **Figure 30**. The power plants within the country contributed 4,437.54 MW (98.51%), and cross-border imports were 67.00MW (1.49%). It increased by 1,833.91 MW (68.67%) from 2,670.62 MW in the 2023/24 period**.**



	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
Total	1,742.95	1,833.61	1,792.12	1,906.67	2,044.85	2,249.39	2,670.62	4,504.54
Main Grid	1,461.06	1,565.72	1,565.72	1,574.45	1,694.55	1,874.34	2,373.00	3,997.07
Off Grid	57.14	35.95	36.08	34.80	45.88	37.12	38.00	78.37
Own-Use	189.75	196.94	155.32	262.42	262.42	295.92	195.62	362.10
Cross-Boarder Imports	35.00	35.00	35.00	35.00	42.00	42.00	64.00	67.00

Figure 30: Trend in Installed Capacity from FY 2015/16 to 2024/25

9.1.1 Installed Capacity by Ownership

TANESCO contributes 85.12% of the total installed capacity as of June 2025, as depicted in **Table 1** and detailed in **Annex 10**. Other entities include those generating power for their own use (8.03%), private large power producers (4.20%), cross-border imports (1.49%), private small power producers (1.08%), and Private Very Small Power Producers (0.10%). Likewise, public entities contribute 85.79%, private entities 12.73%, and cross-border electricity trade 1.49% as in **Figure 31**.

Table 1: Installed Capacity by Ownership as of June 2025

ENTITY DESCRIPTION AND CROSS BOARDER IMPORTS	CAPACITY (MW)	CONTRIBUTION (%)
TANESCO	3,834.44	85.12%
Large Power Producer - Private Entities (≥10MW)	189.00	4.20%
Small Power Producer - Private Entities ((>0.1MW & ≤10MW &)	49.79	1.11%
Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW)	2.77	0.06%
Own-Use	361.53	8.03%
Cross-Border Import	67.00	1.49%
Total	**4,504.54**	**100.00%**

Source: *EWURA*

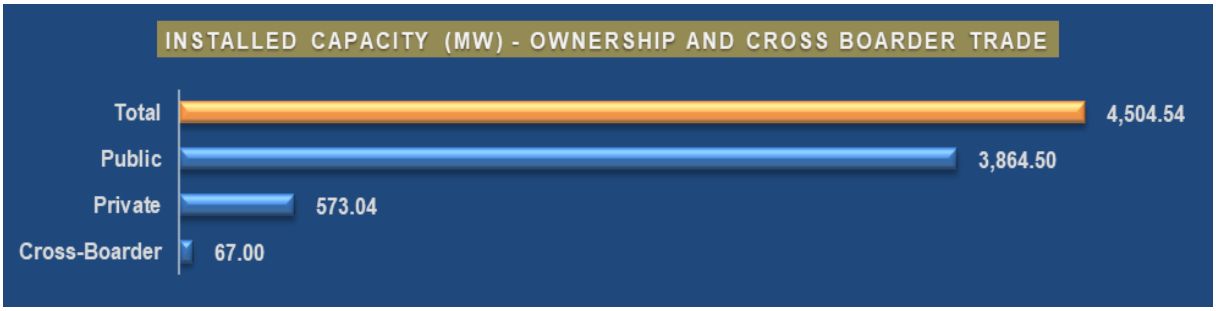


Figure 31: Installed Capacity by Ownership as Of June 2025

9.1.2 Installed Capacity by Fuel Source, including Cross-Border imports

Hydro contributes 60.43% of the total installed capacity (including cross-border imports), as depicted in **Table 2**. Others include Natural Gas (28.52%), GO/HFO/DO (5.77%), Biomass (2.46%), Cross-Border (1.49%), Coal (1.01%), Solar (0.28%), and Wind (0.05%). Details are **Annex 10**.

Table 2: Installed Capacity by Fuel Source as of June 2025

FUEL TYPE AND CROSS-BORDER IMPORTS	CAPACITY (MW)	CONTRIBUTION (%)
Hydro	2,722.00	60.43%
Natural Gas	1,284.58	28.52%
GO/HFO/DO	259.73	5.77%
Biomass	110.99	2.46%
Wind	2.40	0.05%
Solar	12.44	0.28%
Coal	45.40	1.01%
Cross-Boarder	67.00	1.49%
Total	**4,504.54**	**100.00%**

Source: *EWURA*

9.1.3 Contribution of Public Power Plants to the Installed Capacity

Public entities contribute 3,864.50MW, equivalent to 85.79% of the 4,504.54 MW total installed capacity, as depicted in **Figure 32**. Apart from TANESCO, which generates for sale, others generate for their own use.

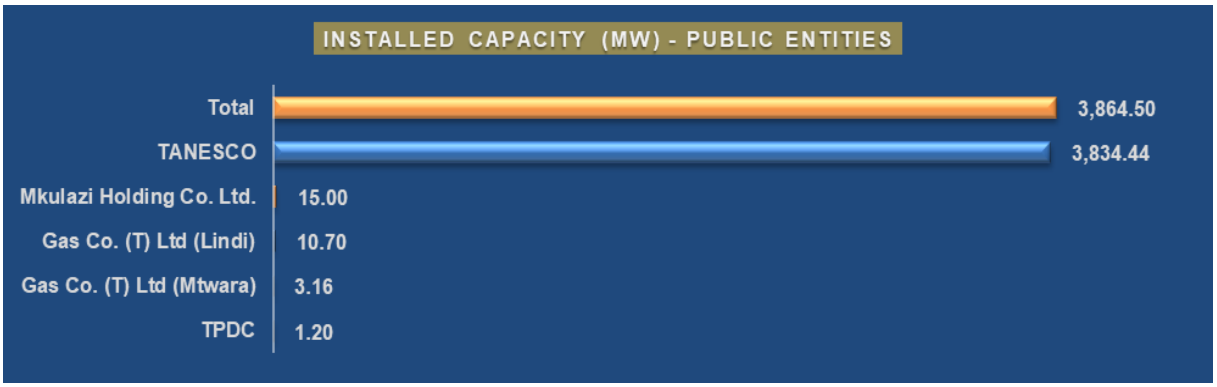


Figure 32: Contribution of Public Entities - Installed Capacity by June 2025

9.1.3.1 Installed Capacity of TANESCO Power Plant

Hydro contributes 2,703.51 MW (70.51%) of the 3,834.44MW total installed capacity of TANESCO, as depicted in **Figure 33**. Gas contributes 1,009.62MW (26.33%) and diesel 121.31MW (3.16%). Details of the power plants are in **Annex 12**.

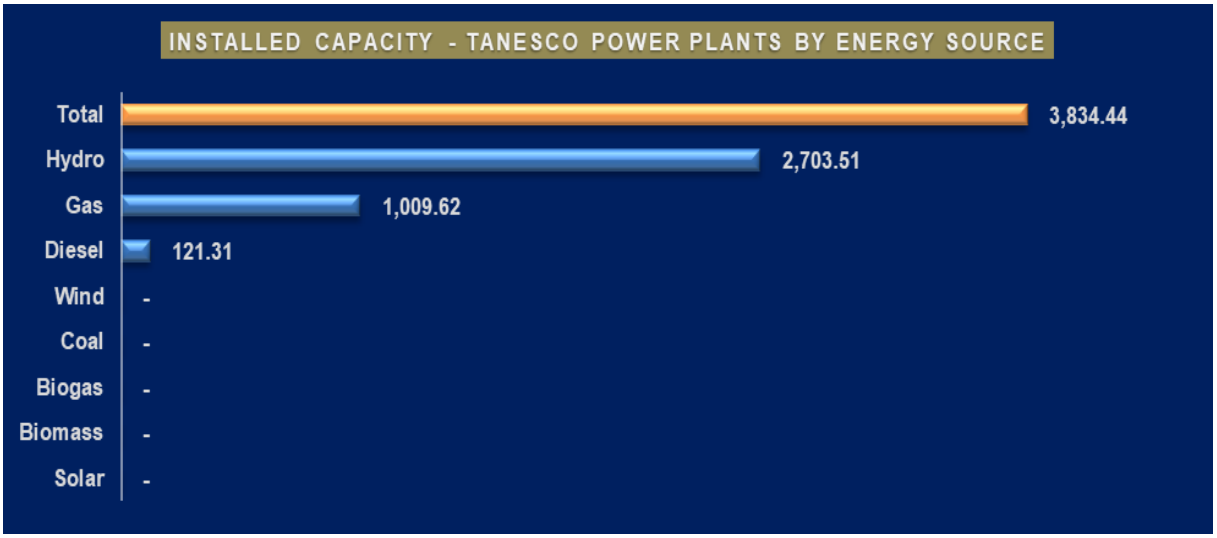


Figure 33: Installed Capacity of TANESCO Power Plants as Of June 2025

9.1.4 Contribution of Private Entities in the Installed Capacity

Private entities contribute 573.36 MW (12.72%) of the total installed capacity of 4,504.54 MW as of June 2025. Among these, 339.04MW (59.17%) is for entities generating electricity for their own use, and 234.00 MW (40.83%) is for entities generating electricity for sale, as depicted in **Figure 34**.

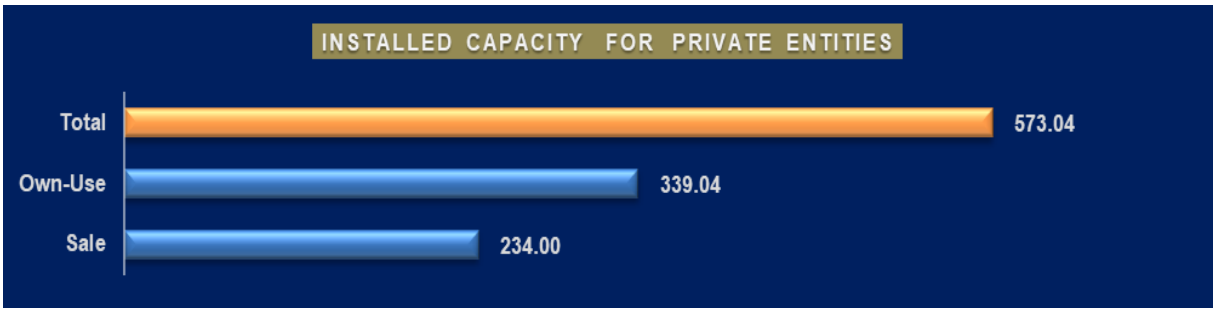


Figure 34: Contribution of Private Entities in the Installed Capacity as Of June 2025

9.1.4.1 Private Entities Generating Electricity for Own Use

The contributions of installed capacity by fuel type are depicted in **Figure 35**. Diesel power plants contribute 138.42MW (40.83%), Biomass 84.09 MW (24.80%), gas 70.90MW (20.91%), coal 45.40MW (13.39%), and solar 0.23MW (0.07%). Details of the entities are in **Annex 13**.

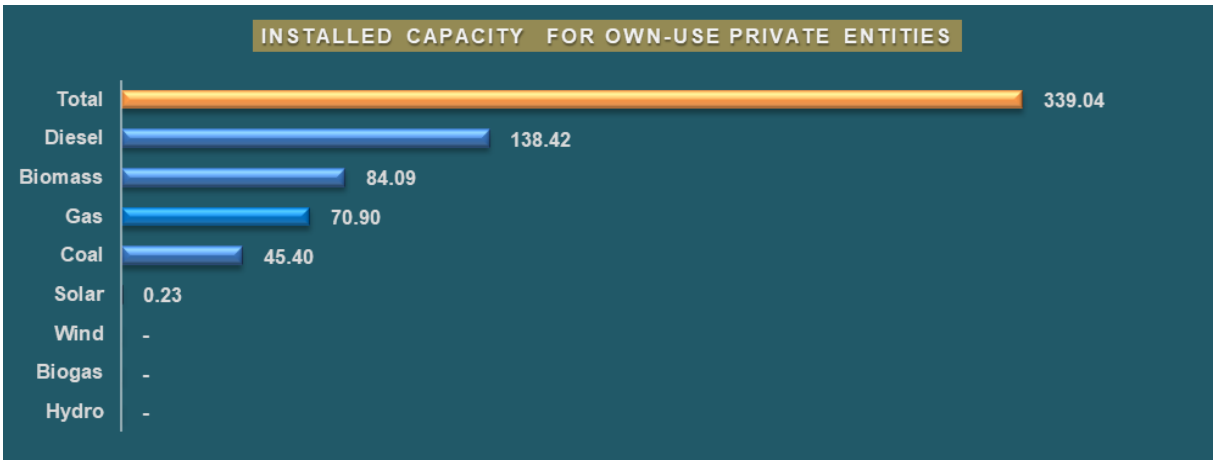


Figure 35: Installed Capacity of Private Entities Generating Electricity for Own-Use as Of June 2025

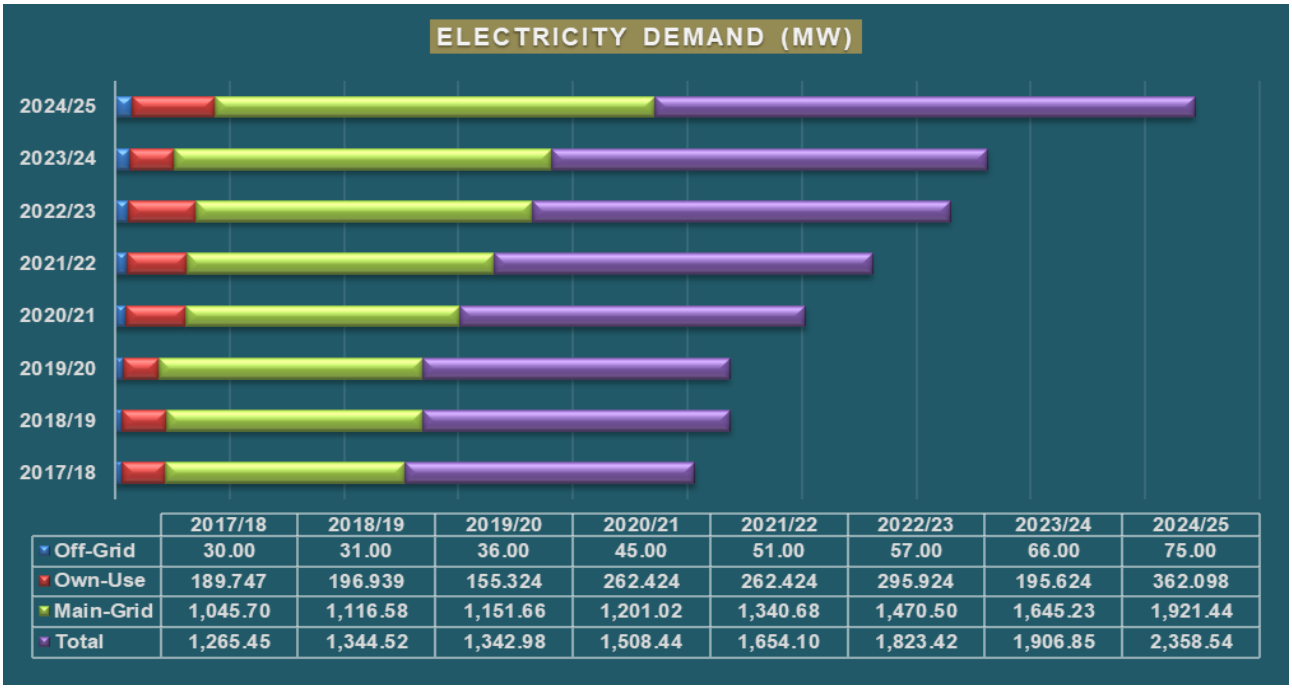
9.1.4.2 Private Entities Generating Electricity for Sale

The contributions of installed capacity by fuel type for the 234.32MW of installed capacity in FY2024/25 are depicted in **Figure 36**. Gas power plants contribute 189.00 MW (80.66%), hydro 18.81 MW (8.03%), solar 12.21 MW (5.21%), biomass 11.90 MW (5.08%), and wind 2.40MW (1.02%). Details are in **Annex 14**.

Figure 36: Installed Capacity of Private Entities Generating Electricity for Sale as of June 2025

9.2 Electricity Maximum Demand

Analysis shows that in FY2024/25, the maximum electricity demand reached 2,358.54MW, as shown in **Figure 37**. It rose by 451.68 MW (23.69%) from 1,906.85 MW in FY 2023/2024. The demand in the main grid reached 1921.44MW, being an increase by 16.79% from 2023/24 to 2024/25, as depicted in **Figure 38**. 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 socio-economic activities, as depicted by the installed capacity y in **Figure 30**.



	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
Off-Grid	30.00	31.00	36.00	45.00	51.00	57.00	66.00	75.00
Own-Use	189.747	196.939	155.324	262.424	262.424	295.924	195.624	362.098
Main-Grid	1,045.70	1,116.58	1,151.66	1,201.02	1,340.68	1,470.50	1,645.23	1,921.44
Total	1,265.45	1,344.52	1,342.98	1,508.44	1,654.10	1,823.42	1,906.85	2,358.54

Figure 37: Trend of Maximum Demand (MD)

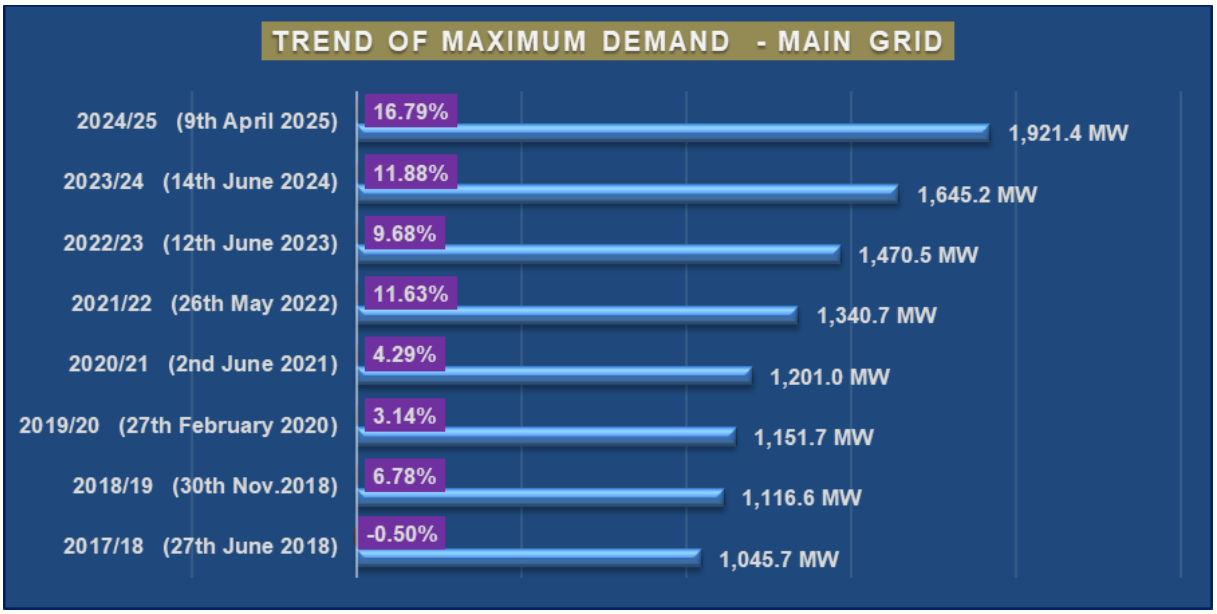
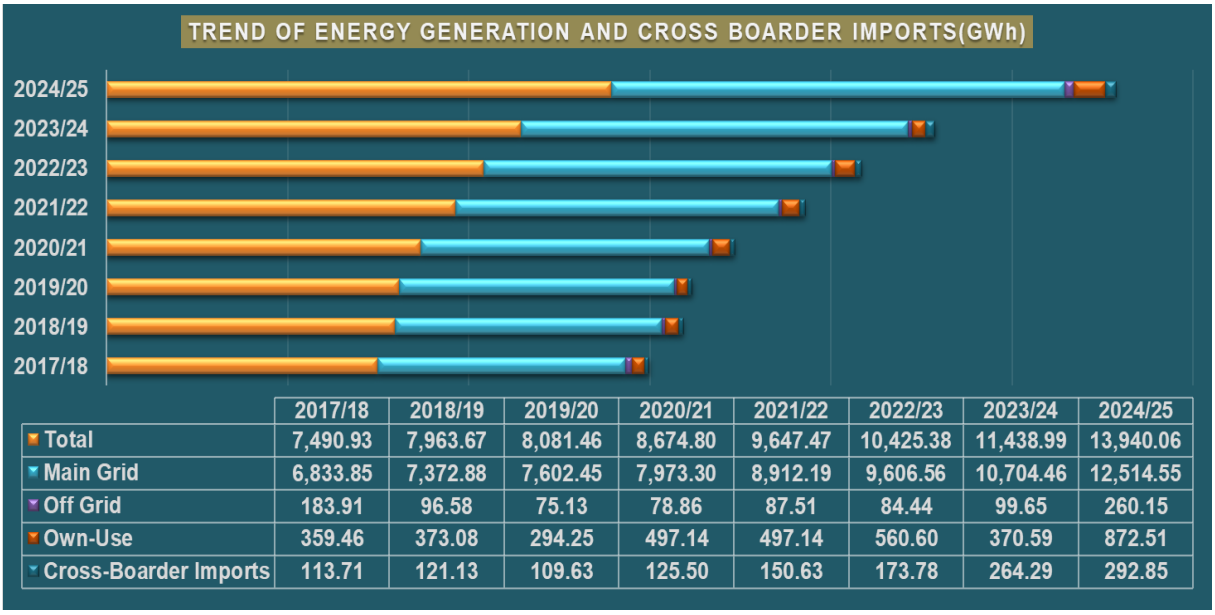


Figure 38: Trend of Main Grid Maximum Demand

9.3 Energy Generation and Cross-Border Imports

The energy generation and cross-border imports were 13,940.06GWh in FY2024/25, as in **Figure 39**. The power plants within the country contributed 13,647.21 GWh (97.90%), and cross-border imports accounted for 292.85 GWh (2.10%). It increased by 2,501.07 GWh (21.86%) from 11,438.99 GWh in the 2023/24 period.



	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
Total	7,490.93	7,963.67	8,081.46	8,674.80	9,647.47	10,425.38	11,438.99	13,940.06
Main Grid	6,833.85	7,372.88	7,602.45	7,973.30	8,912.19	9,606.56	10,704.46	12,514.55
Off Grid	183.91	96.58	75.13	78.86	87.51	84.44	99.65	260.15
Own-Use	359.46	373.08	294.25	497.14	497.14	560.60	370.59	872.51
Cross-Boarder Imports	113.71	121.13	109.63	125.50	150.63	173.78	264.29	292.85

Figure 39: Trend in Energy Generation and Cross-Border Imports

9.3.1 Energy Generation and Cross-Border Imports by Ownership

TANESCO contributes 89.12% of the total energy generated in FY2024/25, as depicted in **Table 3**. Other entities include those generating power for their own use (6.25%), private large power producers (1.77%), cross-border imports (2.10%), private small power producers (0.72%), and Private Very Small Power Producers (0.04%). Likewise, public entities contribute 12,437.99 GWh (89.22%), private entities 1,209.23 GWh (8.67%), and cross-border electricity trade 292.85 GWh (2.10%) as in **Figure 40**. Details are **Annex 15**.

Table 3: Energy Generation by Ownership and Cross-Border Imports For 2024/25

ENERGY GENERATION BY OWNERSHIP		
ENTITY DESCRIPTION AND CROSS BOARDER IMPORTS	ENERGY (GWh)	CONTRIBUTION (%)
TANESCO	12,423.85	89.12%
Large Power Producer - Private Entities (≥10MW)	246.50	1.77%
Small Power Producer - Private Entities ((>0.1MW & ≤10MW &)	99.91	0.72%
Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW)	5.58	0.04%
Own-Use	871.37	6.25%
Cross-Border Import	292.85	2.10%
Total	**13,940.06**	**100.00%**

Source: *TANESCO and EWURA*

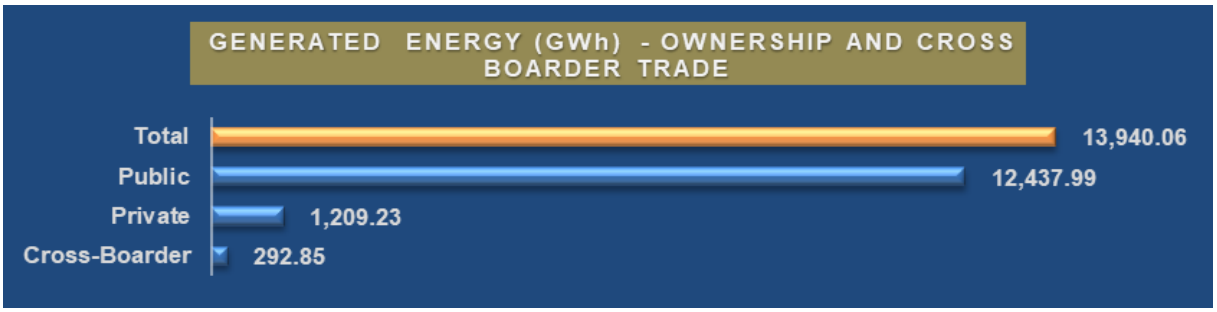


Figure 40: Energy Generation and Cross-Border Import by Ownership in FY2024/25

9.3.2 Energy Generation by Fuel, including Cross-Border Imports by Fuel Source

Hydro contributes 58.93% of the total energy generated (including cross-border imports) in FY2024/25, as depicted in **Table 2**. Others include Natural Gas (33.36%), liquid fuel (2.30%), Biomass (1.47%), Cross-Border (2.13%), Coal (1.73%), Solar (0.05%), and Wind (0.03%). Details are in **Annex 16**.

Table 4: Electricity Generation by Fuel, including Cross-Border imports for FY2024/25

ENERGY GENERATION BY ENERGY SOURCE		
FUEL TYPE AND CROSS-BORDER IMPORTS	**ENERGY (GWh)**	**CONTRIBUTION (%)**
Hydro	8,105.09	58.14%
Natural Gas	4,774.20	34.25%
GO/HFO/DO	316.50	2.27%
Biomass	201.60	1.45%
Wind	4.36	0.03%
Solar	7.02	0.05%
Coal	238.44	1.71%
Cross-Boarder	292.85	2.10%
Total	**13,940.06**	**100.00%**

Source: *EWURA*

9.3.3 Contribution of Public Power Plants to the Energy Generation

Public entities contribute 12,437.99 GWh (89.22%) out of the 13,940.06GWh total energy generated, as depicted in **Figure 41**. Apart from TANESCO, which generates for sale, others generate for their own use.

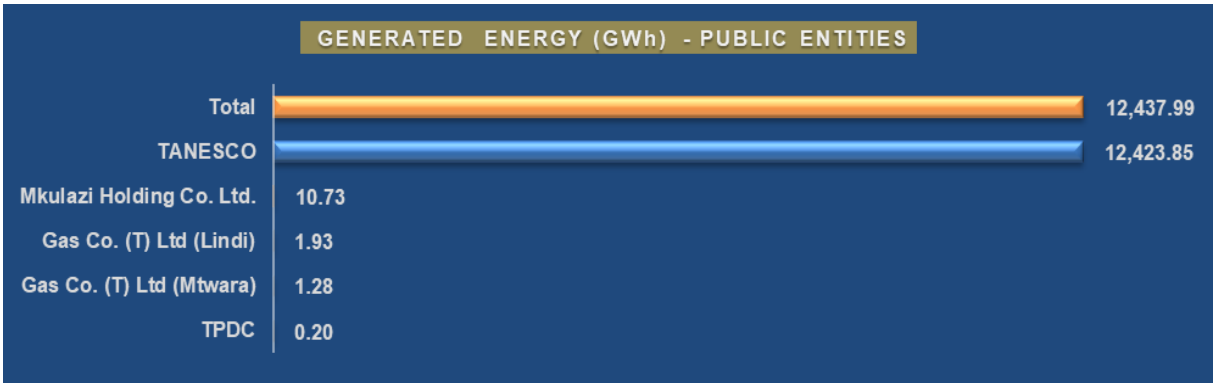


Figure 41: Contribution of Public Entities – Energy Generation in FY 2024/25

9.3.3.1 Contribution of TANESCO Power Plant in Energy Generation

Hydro contributes 8,043.59 GWh (64.74%) of the 12,423.85 GWh total energy generation of TANESCO, as depicted in **Figure 42**. Gas contributes 4,300.15 GWh (34.61%), and diesel contributes 80.11 GWh (0.64%). Details of power plants are in **Annex 17**.

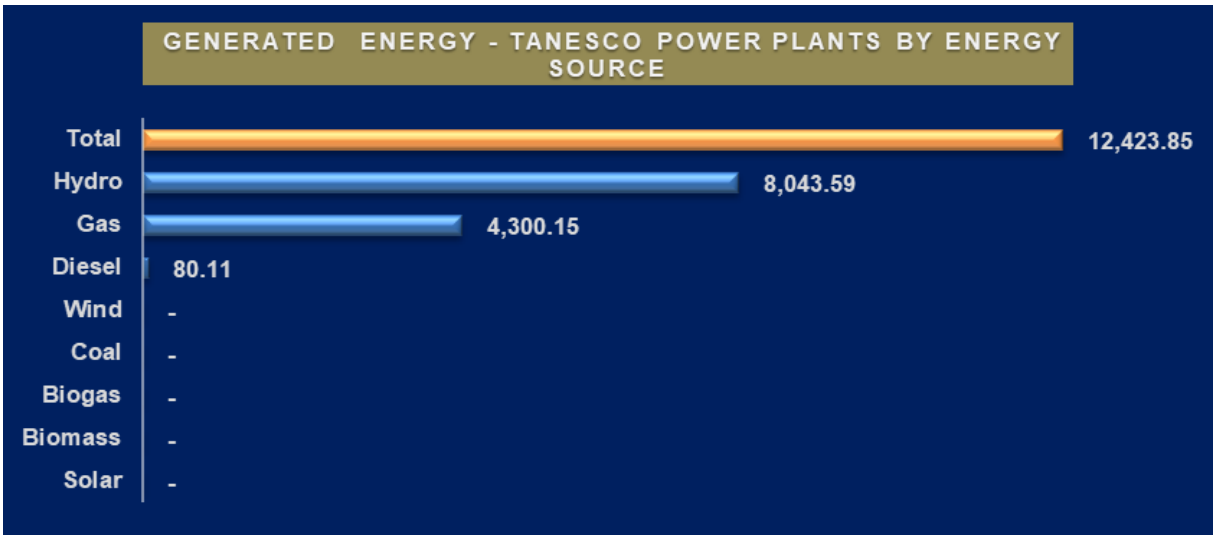


Figure 42: Energy Generation of TANESCO Power Plants in FY 2024/25

9.3.4 Contribution of Private Entities in the Energy Generation

Private entities contribute 1,209.23 GWh (8.67%) of the 13,940.06 GWh total energy generated and cross-border imports as of June 2025. Among these, 853.38 GWh (70.99%) is for entities generating electricity for their own use, and 350.85 GWh (29.01%) is for entities generating electricity for sale, as depicted in **Figure 43**.

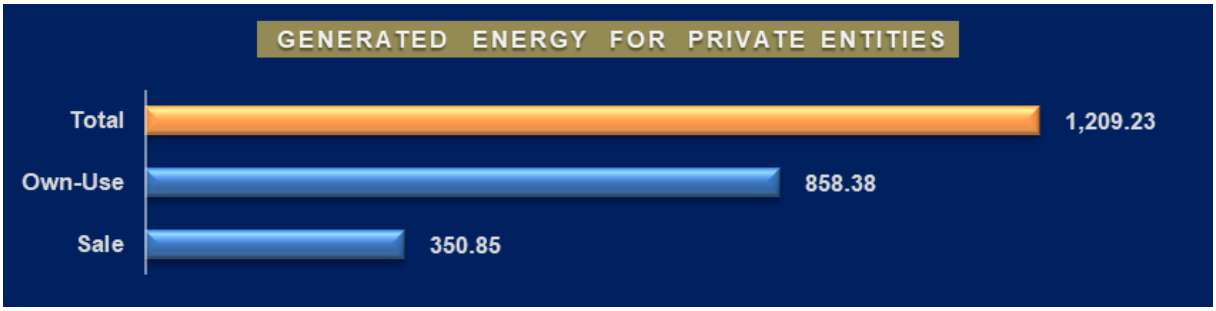


Figure 43: Contribution of Private Entities in the Energy Generation in FY 2024/25

9.3.4.1 Private Entities Generating Electricity for Own Use

The contributions of energy generation by fuel type are depicted in **Figure 44**. Coal power plants contribute 238.44 GWh (27.78%), diesel 236.39 GWh (27.54%), gas 224.16 Gwh (26.11%), Biomass 158.92 GWh (18.51%), and solar 0.46 GWh (0.05%). Details of the entities are in **Annex 18**.

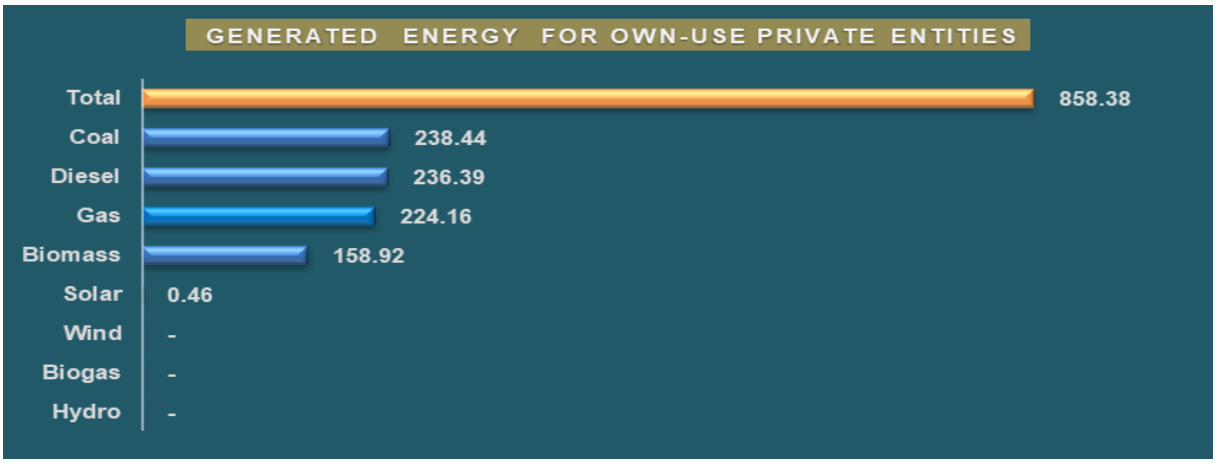


Figure 44: Energy Generation of Private Entities for Own-Use as Of June 2025

9.3.4.2 Private Entities Generating Electricity for Sale

The contributions of energy generation by fuel account for 350.85 GWh, as depicted in **Figure 45**. Gas power plants contribute 246.50 GWh (70.26%), hydro 61.49 GWh (17.53%), biomass 31.94 GWh (9.10%), solar 6.56 GWh (1.87%) and wind 4.36 GWh (1.24%). Details for each entity and respective generated energy is in **Annex 18**.

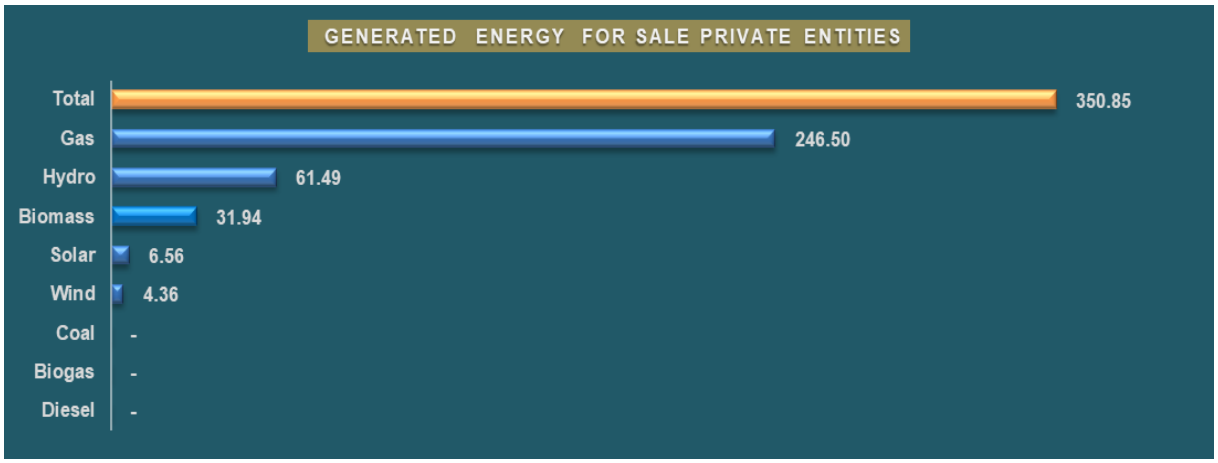
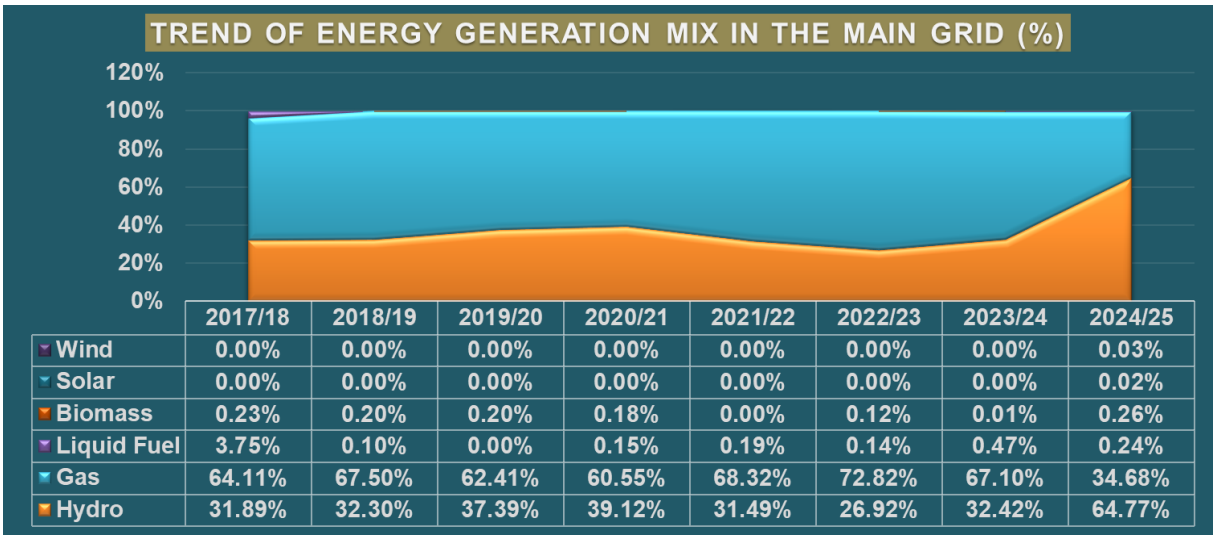


Figure 45: Generated Energy by Private Entities in FY2024/25

9.4 Energy Generation Mix Main Grid

In FY2024/25, hydro contributed 64.77% to the generation mix, being the highest of all other fuel sources, as depicted in **Figure 46.** Other fuel sources' contributions include natural gas (34.68%), liquid fuel (0.24%), biomass (0.26%), solar (0.02%), and wind (0.03%). There is an increase in the contribution of hydropower generation in the generation mix by 32.35% due to the full commissioning of the Julius Nyerere hydropower project (2115 MW) in March 2025.

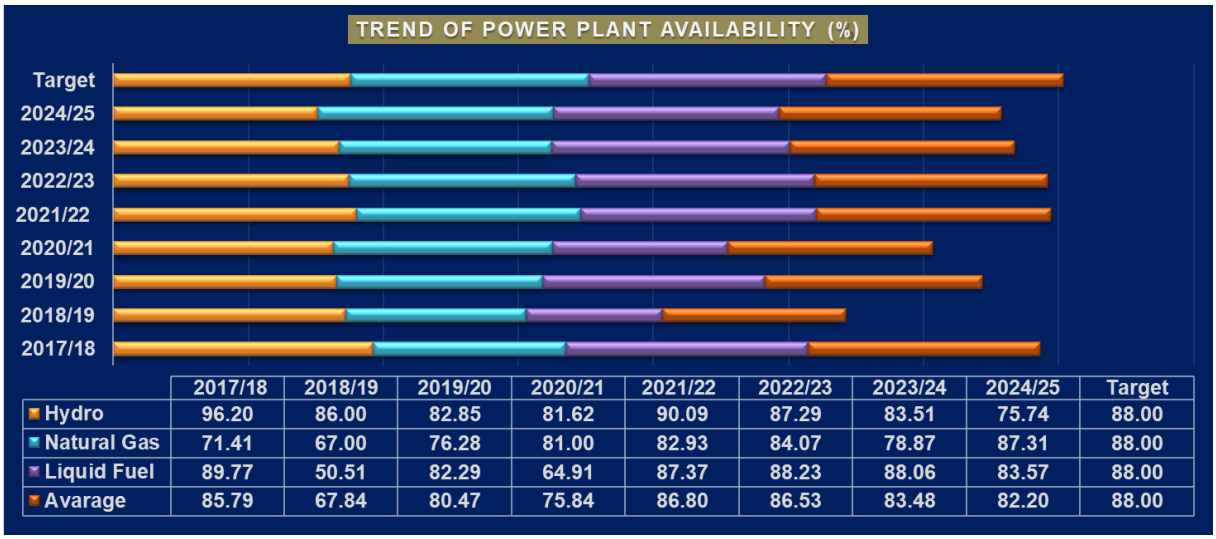


	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
Wind	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.03%
Solar	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%
Biomass	0.23%	0.20%	0.20%	0.18%	0.00%	0.12%	0.01%	0.26%
Liquid Fuel	3.75%	0.10%	0.00%	0.15%	0.19%	0.14%	0.47%	0.24%
Gas	64.11%	67.50%	62.41%	60.55%	68.32%	72.82%	67.10%	34.68%
Hydro	31.89%	32.30%	37.39%	39.12%	31.49%	26.92%	32.42%	64.77%

Figure 46: Energy Generation Mix (%) from FY 2017/18 – 2024/25

9.5 Availability of Power Plants

Power plant availability reached 73.25 in FY 2024/25 as **Figure 47** and details in **Annex 20**. The performance is below the target of <88. Effort are underway to ensure the power plants are maintained.

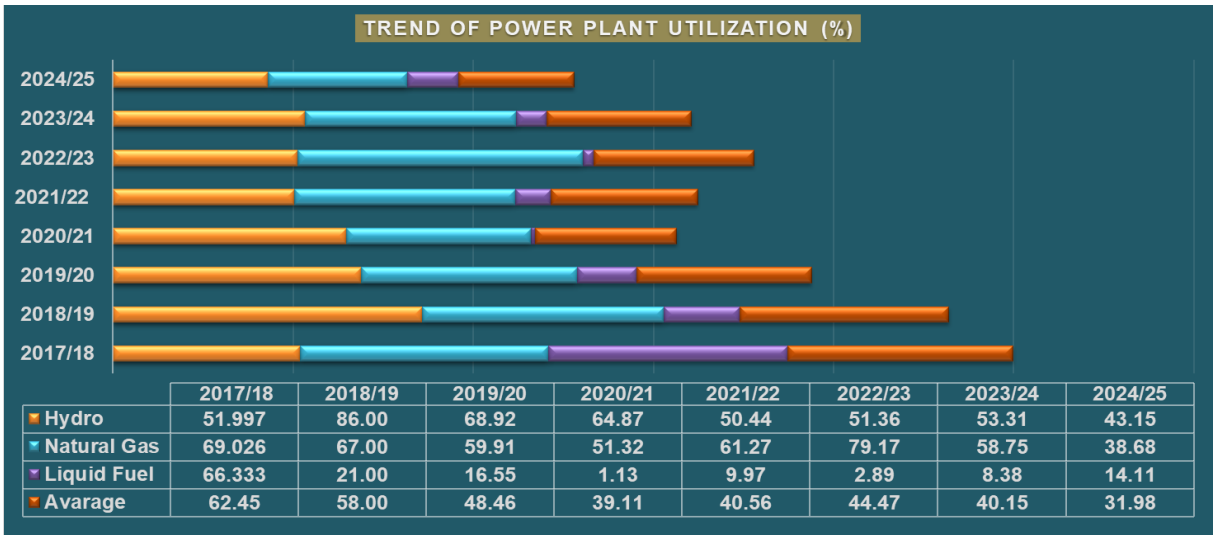


	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	Target
Hydro	96.20	86.00	82.85	81.62	90.09	87.29	83.51	75.74	88.00
Natural Gas	71.41	67.00	76.28	81.00	82.93	84.07	78.87	87.31	88.00
Liquid Fuel	89.77	50.51	82.29	64.91	87.37	88.23	88.06	83.57	88.00
Avarage	85.79	67.84	80.47	75.84	86.80	86.53	83.48	82.20	88.00

Figure 47: Power Plant Availability (%)

9.6 Power Plants Utilization

The power plant utilization was 31.98% in FY2024/25, a decrease of 4.4% from 44.47% in FY 2023/24 as in **Figure 48**. and details in **Annex 20**.



	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25
Hydro	51.997	86.00	68.92	64.87	50.44	51.36	53.31	43.15
Natural Gas	69.026	67.00	59.91	51.32	61.27	79.17	58.75	38.68
Liquid Fuel	66.333	21.00	16.55	1.13	9.97	2.89	8.38	14.11
Avarage	62.45	58.00	48.46	39.11	40.56	44.47	40.15	31.98

Figure 48: Power Plant Utilization (%)

10. ELECTRICITY TRANSMISSION

The performance is analyzed based on entities licensed to undertake regulated electricity transmission activities. It covers areas described in **Figure 49**. TANESCO was the only entity with a licence for electricity transmission activities.

Figure 49: Description of Electricity Transmission Performance

10.1 Electricity Transmission Infrastructure

The infrastructure includes the transmission lines and respective substations. Their respective voltage levels are 400kV, 220kV, 132kV and 66kV.

10.1.1 Transmission Line Route Length

The route length increased to 8,303.87km in FY2024/2025, as indicated in **Figure 50** and details in **Annex 21**. It is an upsurge of 779.63 km (10.36%) from 7,524km in FY2023/24.

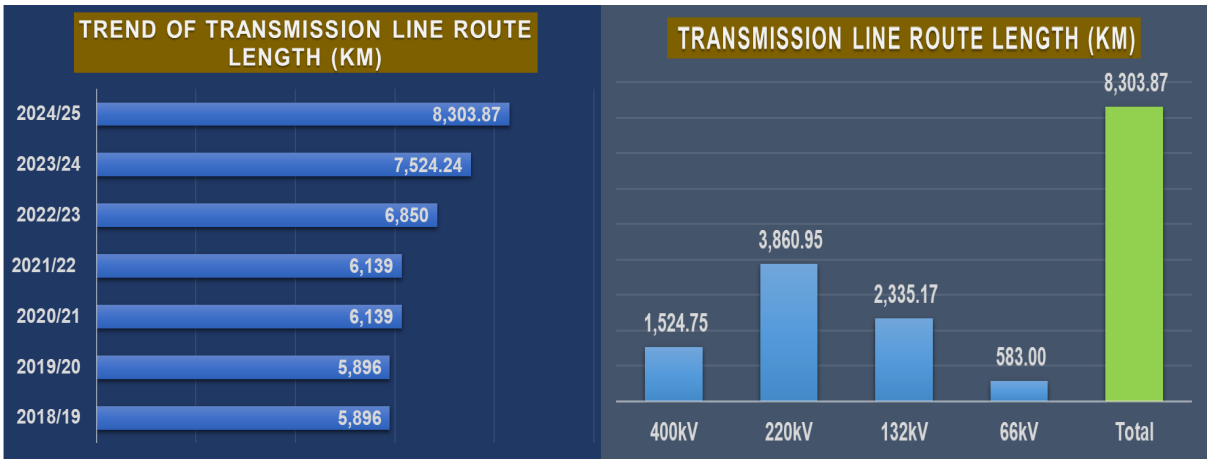


Figure 50: Length of Transmission Line

10.1.2 Transmission Substation

The number of grid substations reached 72 in 2024/2025, an increase of three (5) (7.46%) from 67 in FY2023/2024, as in **Figure 51**. Likewise, its respective capacity reached 10,226.7,631.30 MVA in FY 2024/2025, an increase of 3,778.40 MVA (58.60%) from 6,699 MVA in FY 2023/24.

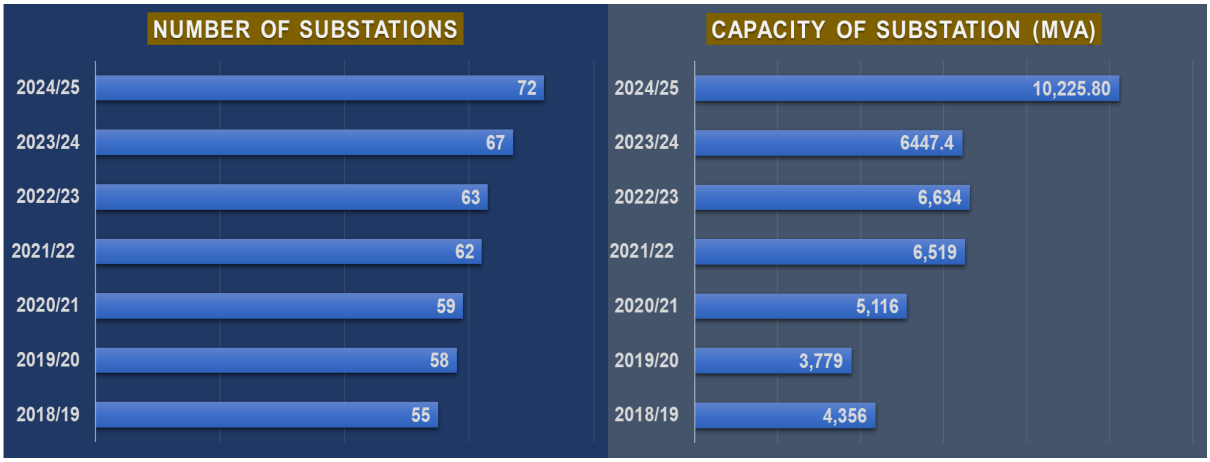


Figure 51: Number and Capacity of Substation

10.2 Customers Connected to Transmission Infrastructure

As of last year, there were seven (7) customers (**Figure 52**) 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 52: Customers Connected to The Transmission Infrastructure

10.3 Reliability of Electricity Transmission Infrastructure

The performance was analyzed using two indices. These are the System Average Interruption Frequency Index at Connection Point ($SAIFI_{CP}$) and the System Average Interruption Duration Index (SAIDI-CP), as shown in **Figure 53**.

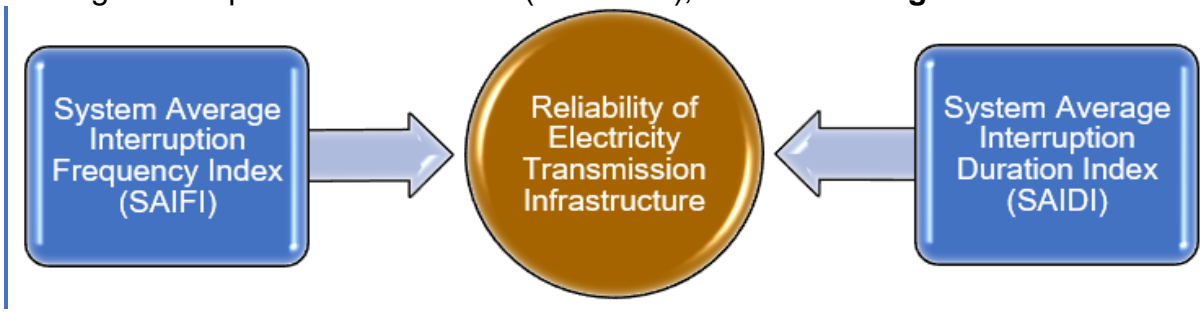


Figure 53: Description of Electricity Transmission Infrastructure Reliability Indices

10.3.1 The System Average Interruption Frequency Index at Connection Point

The system Average Interruption Frequency Index at Connection Point ($SAIFI_{CP}$) was 6.4 in FY2024/25, as in **Figure 54**. The performance is within a target of <10 outage frequency. Also, the average transmission line outage frequency is 3.15 and within a target of <4.57.

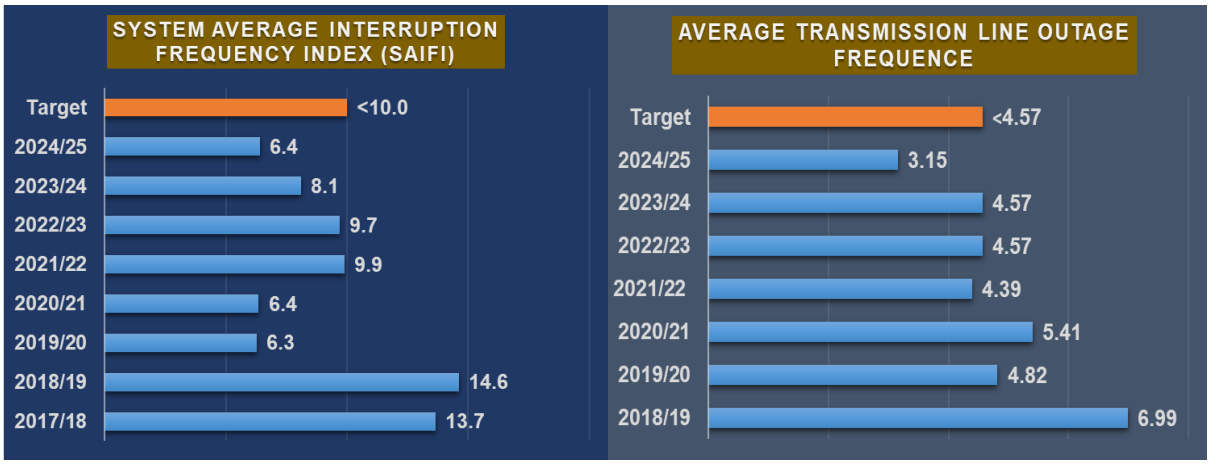


Figure 54: System Average Interruption Frequency Index at Connection Point

10.3.2 The System Average Interruption Duration Index at Connection Point

The system Average Interruption Duration Index at Connection Point ($SAIDI_{CP}$) was 4.6 hours in FY2024/25, as in **Figure 55**. The performance is within a target of <6.5 hours. Also, the average transmission line outage duration was 2.90 and within a target of <63.88.

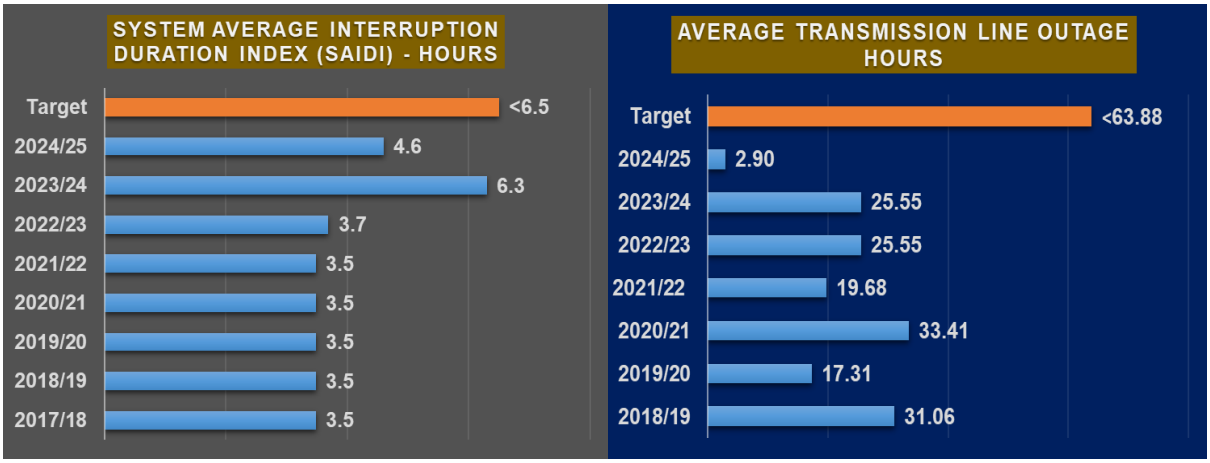


Figure 55: System Average Interruption Duration Index at Connection Point

10.4 Unserved Energy

The total unserved energy in FY 2024/25 was 0.8% of the total energy generated, as in **Figure 56**. The performance is within a target of <4.53%. the unserved energy was due to loadshedding, fault, and maintenance, which were also within the target.

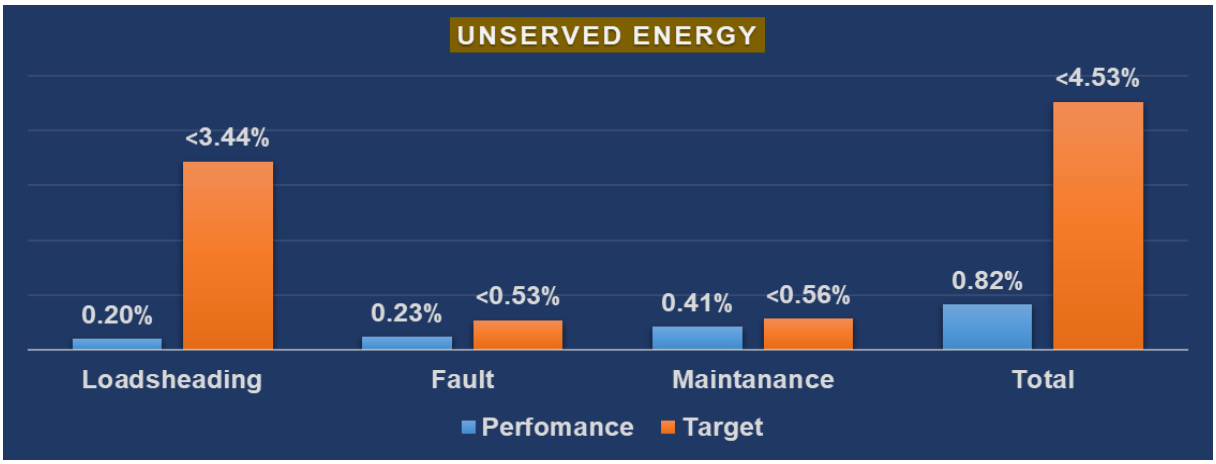


Figure 56: Unserved Energy in FY2024/25

11. ELECTRICITY DISTRIBUTION

Electricity distribution performance is analyzed based on entities licensed or registered for regulated electricity distribution activities. It covers areas described in **Figure 57**.

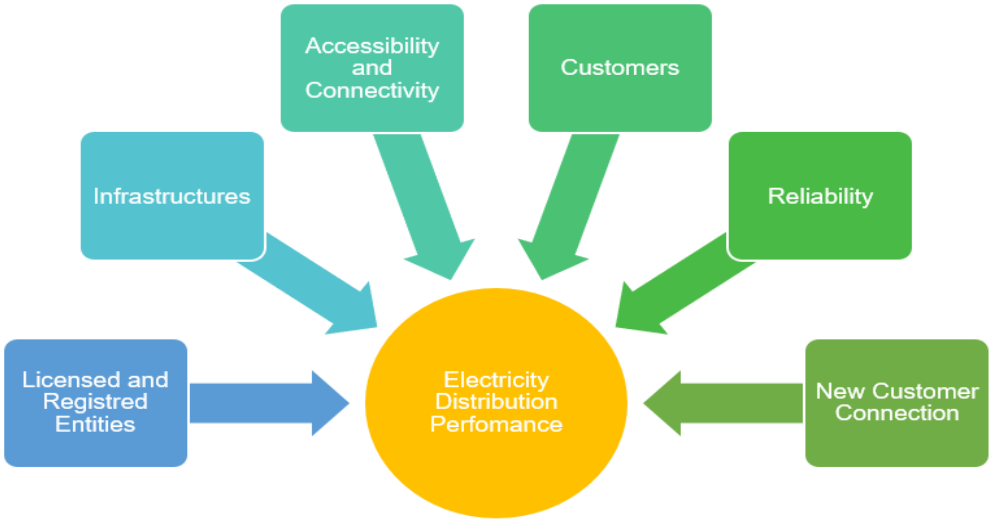


Figure 57: Description of Electricity Distribution Performance

11.1 Licensed Entities for Electricity Distribution Activities

Two (2) entities in **Figure 58** as of June 2025, had a licence for electricity distribution activities. Their capacity was above one (1) megawatt.

Figure 58: Entities Licensed for Electricity Distribution Activities

11.2 Registered Entities for Electricity Distribution Activities

Five (5) entities in **Figure 59** as of June 2025, had registered for electricity distribution activities. The entities had a capacity below one (1) megawatt.

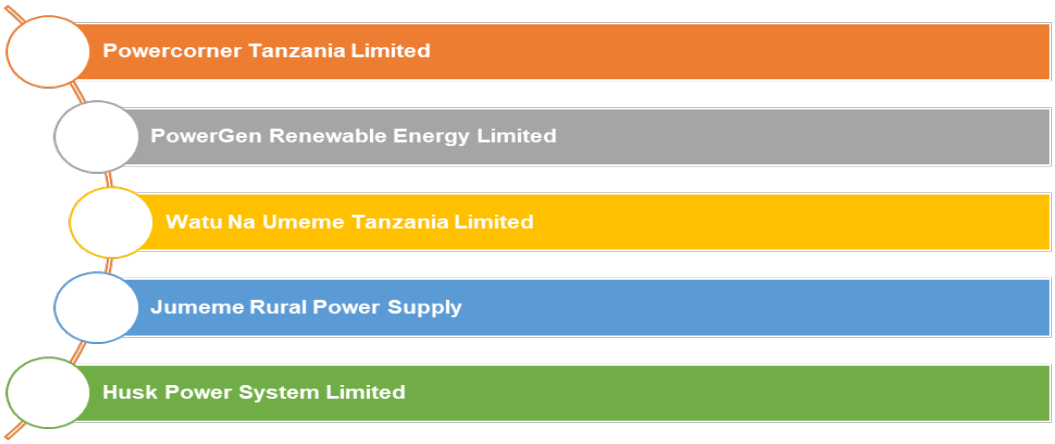


Figure 59: Entities Registered for Electricity Distribution Activities

11.3 Electricity Distribution Line

The line length reached 214,343.67km being an increase of 25,460.59 km (13.48%) from 188,883.08km in 2023/24 as in **Figure 60**. Licensed entities contributed 213,726.82km (99.71%) as detailed in **Figure 61** and registered entities 616.85km (0.29%) as in **Figure 62**. TANESCO being a licensed entity, contributed 213,278.32 km (99.50%) of total length.

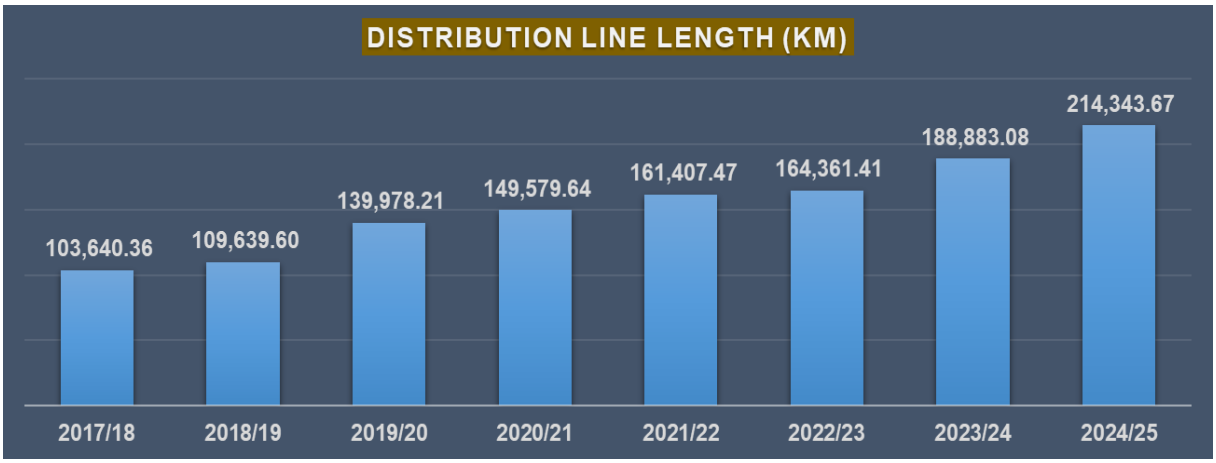
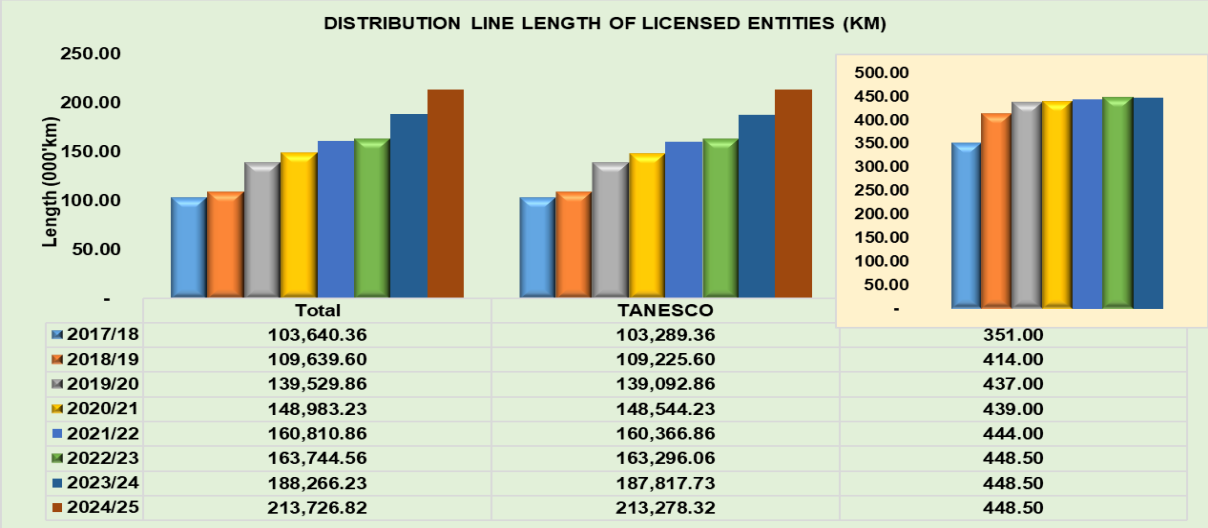


Figure 60: Electricity Distribution Line Length as of June 2025

11.3.1 Licensed Entities

The line length for licensed entities increased by 25,460.59 km (13.52%) from 188,266.23 km in FY2023/24 to 213,726.82 km in FY2024/25 as in **Figure 61**. TANESCO contributed 213,278.32km (99.79%) and Mwenga Power Services Limited 448.50km (0.21%).

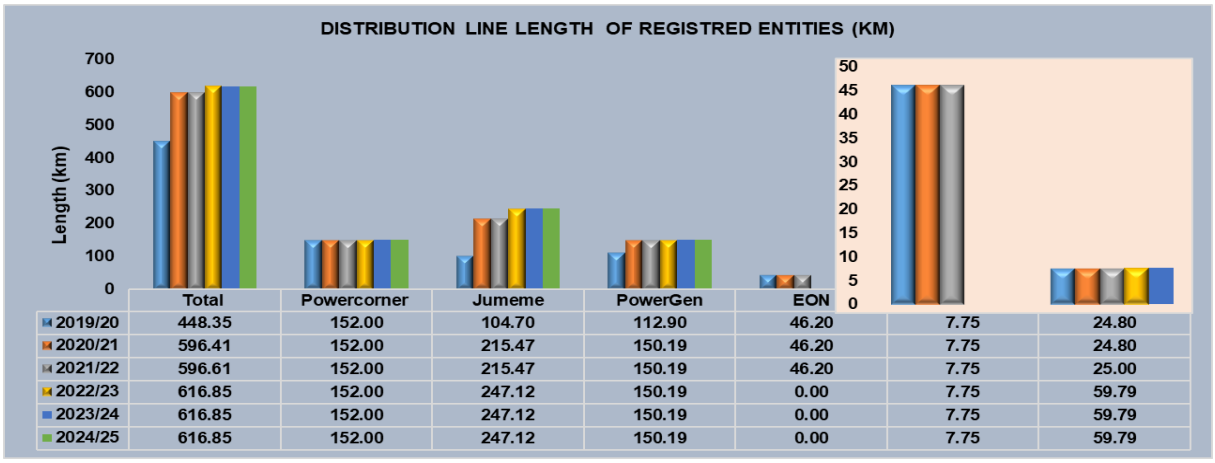


	Total	TANESCO	
2017/18	103,640.36	103,289.36	351.00
2018/19	109,639.60	109,225.60	414.00
2019/20	139,529.86	139,092.86	437.00
2020/21	148,983.23	148,544.23	439.00
2021/22	160,810.86	160,366.86	444.00
2022/23	163,744.56	163,296.06	448.50
2023/24	188,266.23	187,817.73	448.50
2024/25	213,726.82	213,278.32	448.50

Figure 61: Distribution Line Length of Licensed Entities

11.3.2 Registered Entities

The line length for registered entities remains 616.85km in FY2024/25 as in **Figure 62**. The contribution was from Powercorner 152.00km (24.64%), Jumeme 247.12km (40.06%), PowerGen 150.19km (24.35%), Watu na Umeme 7.75km (1.26%), Andoya 59.79km (9.69%)



	Total	Powercorner	Jumeme	PowerGen	EON		
2019/20	448.35	152.00	104.70	112.90	46.20	7.75	24.80
2020/21	596.41	152.00	215.47	150.19	46.20	7.75	24.80
2021/22	596.61	152.00	215.47	150.19	46.20	7.75	25.00
2022/23	616.85	152.00	247.12	150.19	0.00	7.75	59.79
2023/24	616.85	152.00	247.12	150.19	0.00	7.75	59.79
2024/25	616.85	152.00	247.12	150.19	0.00	7.75	59.79

Figure 62: Distribution Line Length of Registered Entities

11.4 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 63**. 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.

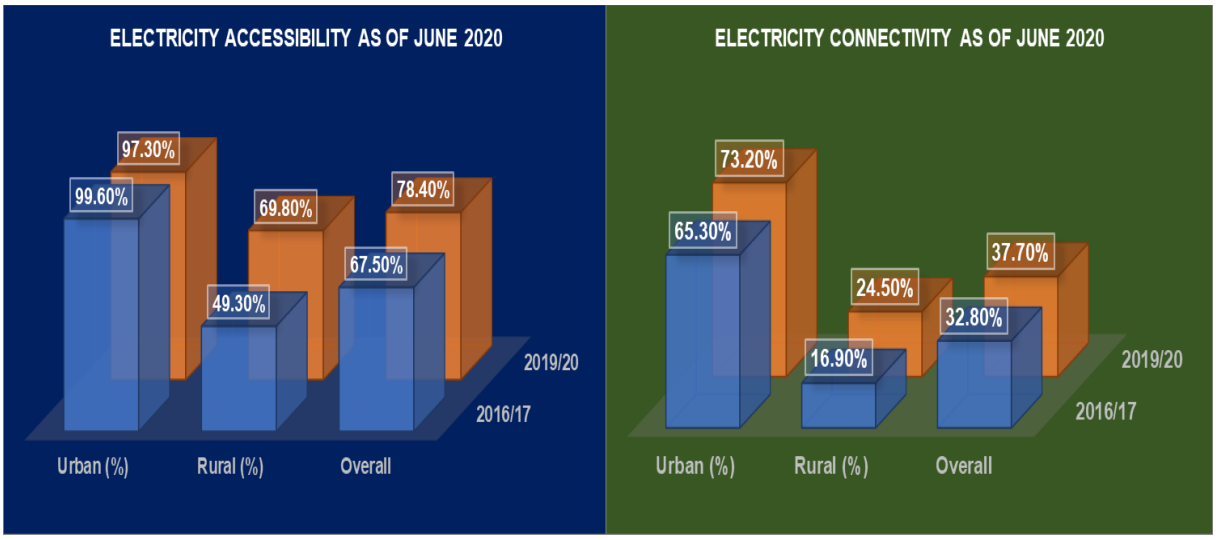
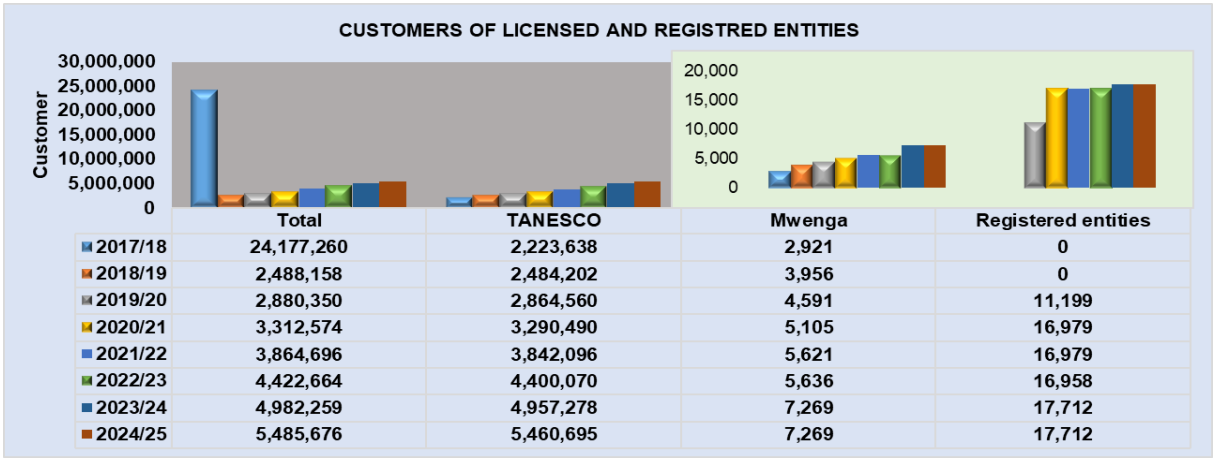


Figure 63: Electricity Accessibility and Connectivity

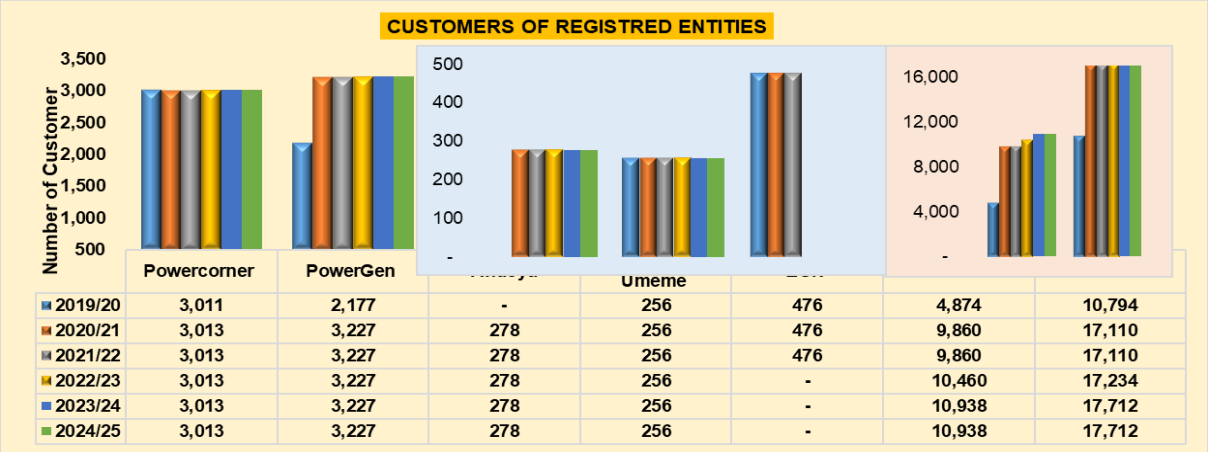
11.5 Customers

Customers connected to the distribution network increased by 503,417 (10.10%) from 4,982,259 in FY 2023/24 to 5,485,676km in FY2024/25 as in **Figure 64**. Likewise, details of customers for registered entities are in **Figure 65**.



	Total	TANESCO	Mwenga	Registered entities
2017/18	24,177,260	2,223,638	2,921	0
2018/19	2,488,158	2,484,202	3,956	0
2019/20	2,880,350	2,864,560	4,591	11,199
2020/21	3,312,574	3,290,490	5,105	16,979
2021/22	3,864,696	3,842,096	5,621	16,979
2022/23	4,422,664	4,400,070	5,636	16,958
2023/24	4,982,259	4,957,278	7,269	17,712
2024/25	5,485,676	5,460,695	7,269	17,712

Figure 64: Customers of Licensed and Registered Entities as of June 2025



	Powercorner	PowerGen		Umeme			
2019/20	3,011	2,177	-	256	476	4,874	10,794
2020/21	3,013	3,227	278	256	476	9,860	17,110
2021/22	3,013	3,227	278	256	476	9,860	17,110
2022/23	3,013	3,227	278	256	-	10,460	17,234
2023/24	3,013	3,227	278	256	-	10,938	17,712
2024/25	3,013	3,227	278	256	-	10,938	17,712

Figure 65: Customer of Registered Entities as of June 2025

11.6 Reliability Of Electricity Supply

Three indices in **Figure 66** 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 58**.

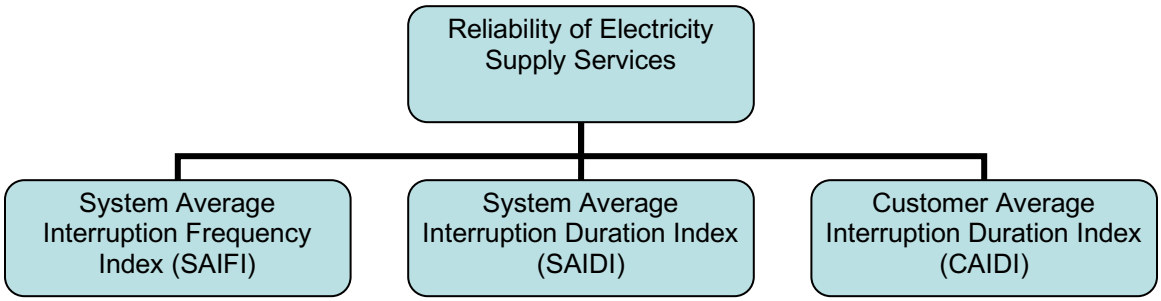
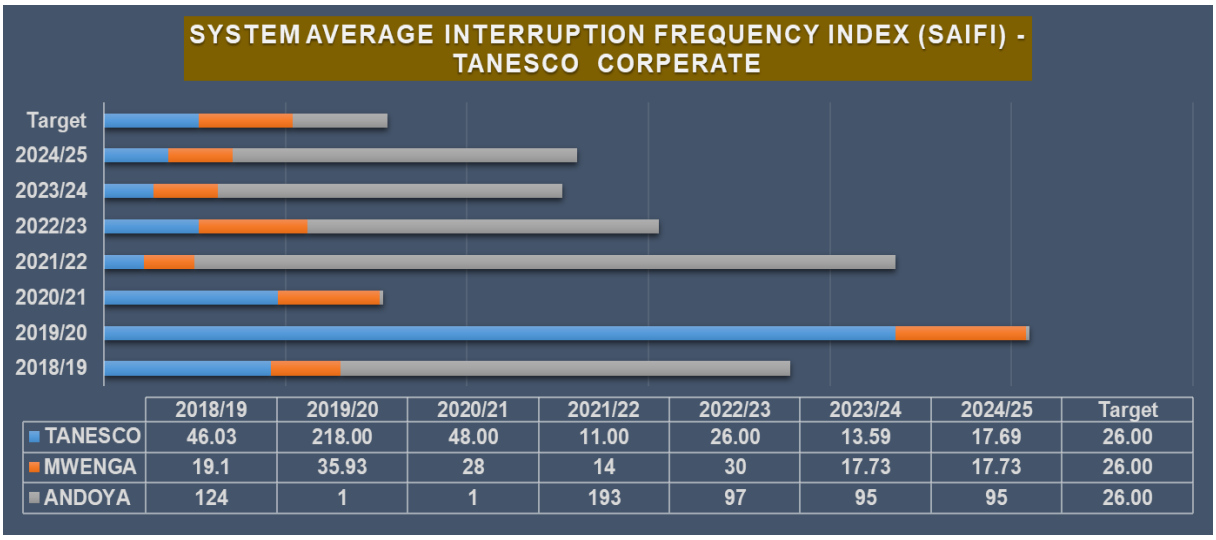


Figure 66: Indices for The Reliability of Electricity Supply

11.6.1 System Average Interruption Frequency Index

SAIFI measures the average number of interruptions each customer experiences annually. It was 17.69 for TANESCO and within the target of <26 in FY2024/25 as in **Figure 67**. It was also 17.73 for Mwenga and 95 for Andoya.

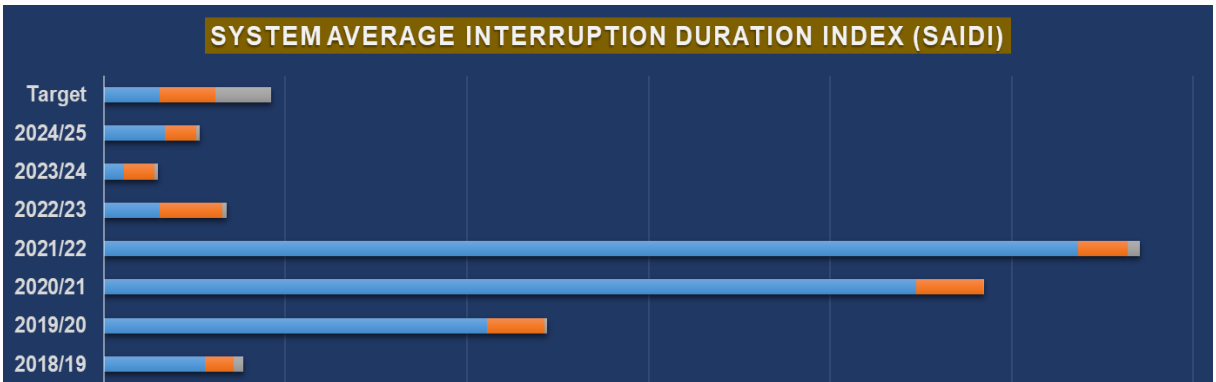


	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	Target
TANESCO	46.03	218.00	48.00	11.00	26.00	13.59	17.69	26.00
MWENGA	19.1	35.93	28	14	30	17.73	17.73	26.00
ANDOYA	124	1	1	193	97	95	95	26.00

Figure 67: System Average Interruption Frequency Index (SAIFI) in FY2024/25

11.6.2 The System Average Interruption Duration Index

SAIDI measures the average outage duration in minutes that each customer experiences annually. It was 1,692.73 minutes FOR TANESCO and above the target of <1,536 minutes in FY2024/25 as in **Figure 68**. It was also 843.60 minutes for Mwenga and 101.00 for Andoya.

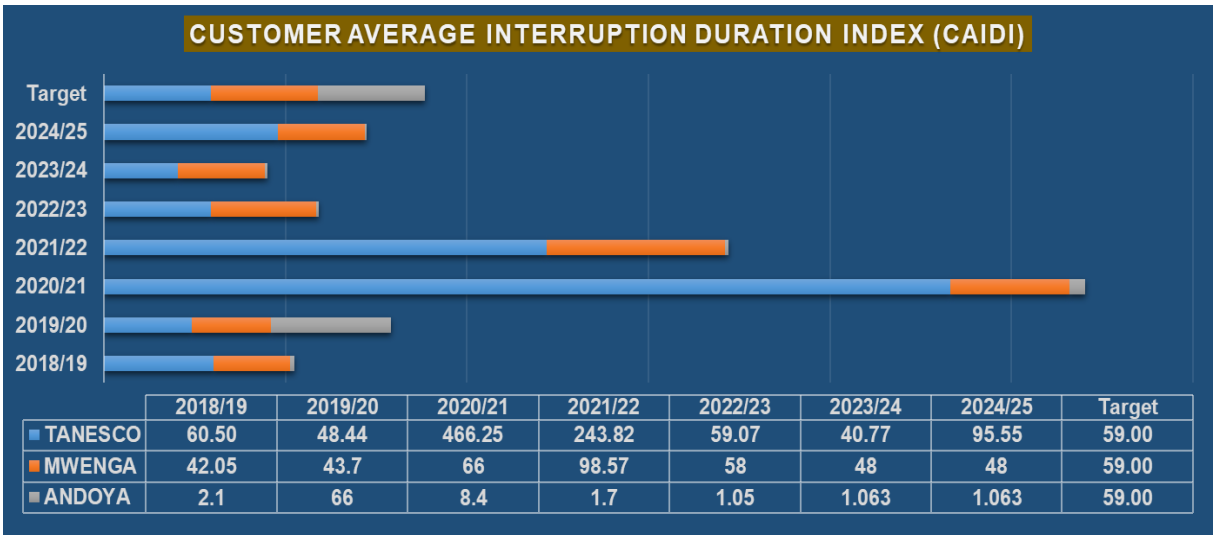


	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	Target
TANESCO	2,784.00	10,560.00	22,380.00	26,820.00	1,536.00	554.01	1,692.73	1,536.00
MWENGA	803.16	1570.2	1848	1380	1737	843.6	843.6	1,536.00
ANDOYA	255.3	66	8.4	328	102	101	101	1,536.00

Figure 68: System Average Interruption Duration Index (SAIDI) in Minutes in FY2024/25

11.6.3 The Customer Average Interruption Duration Index (CAIDI)

CAIDI indicates the average duration in minutes that each outage lasts. It was 95.55 minutes for TANESCO and above a target of <59 minutes in FY2024/25 as in **Figure 69**. It was also 48.00 minutes for Mwenga and 1,063.00 for Andoya.



	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	Target
TANESCO	60.50	48.44	466.25	243.82	59.07	40.77	95.55	59.00
MWENGA	42.05	43.7	66	98.57	58	48	48	59.00
ANDOYA	2.1	66	8.4	1.7	1.05	1.063	1.063	59.00

Figure 69: Customer Average Interruption Duration Index (CAIDI) in Minutes in FY2024/25

12. ENERGY LOSSES

The Energy losses were assessed for electricity transmission and distribution infrastructures. The respective entities are presented in **Figure 70**. TANESCO conducts both transmission and distribution activities. Others conduct electricity distribution activities only.

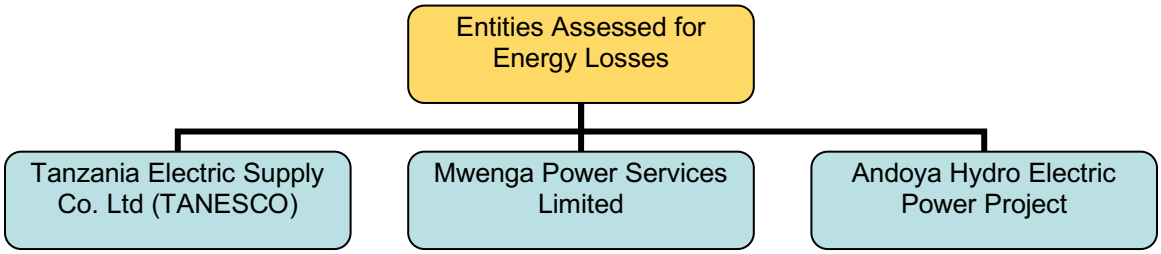
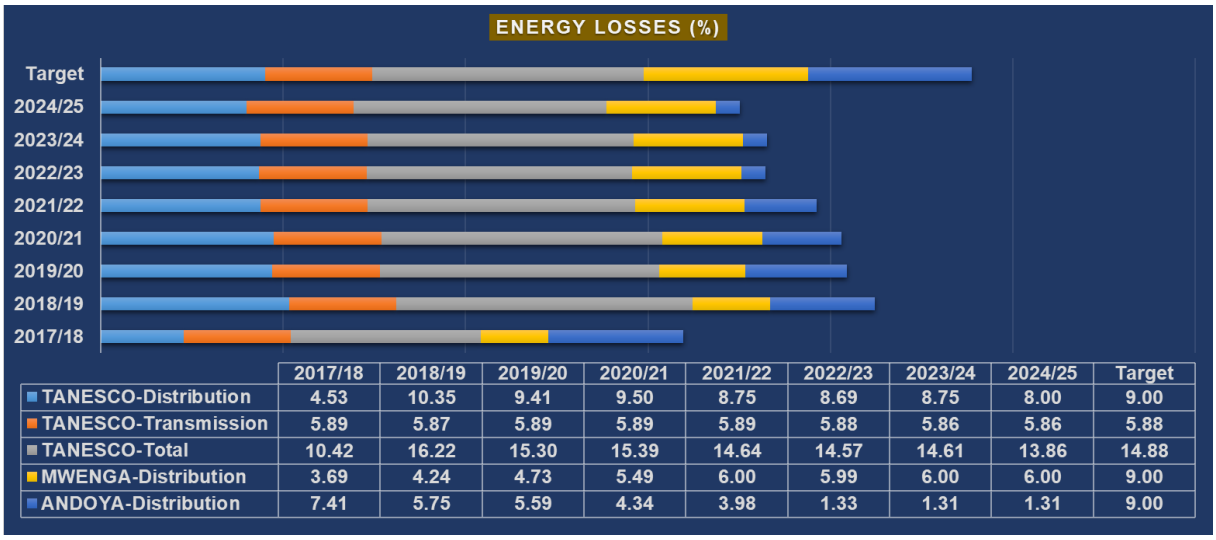


Figure 70: Entities Assessed for Energy Losses

The total losses for TANESCO reached 13.86% whereby transmission contributed 5.86% which was within a target of <5.88% and distribution 8.29%% which is within a target of <9.00% as in **Figure 71**. Mwenge had a distribution loss of 6.00% and Andoya 1.31%.



	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	Target
TANESCO-Distribution	4.53	10.35	9.41	9.50	8.75	8.69	8.75	8.00	9.00
TANESCO-Transmission	5.89	5.87	5.89	5.89	5.89	5.88	5.86	5.86	5.88
TANESCO-Total	10.42	16.22	15.30	15.39	14.64	14.57	14.61	13.86	14.88
MWENGA-Distribution	3.69	4.24	4.73	5.49	6.00	5.99	6.00	6.00	9.00
ANDOYA-Distribution	7.41	5.75	5.59	4.34	3.98	1.33	1.31	1.31	9.00

Figure 71: Energy Losses (FY 2019/20 – FY 2024/25)

13. 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. It includes both public and privately developed infrastructure, as in **Figure 72**.

Figure 72: Investment in Electricity Infrastructure

13.1 Public Developed Infrastructure

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

13.1.1 Electricity Generation Infrastructure

Five (5) strategic projects were under construction. The projects accounts for a total of 2,420.50 MW upon commissioning. Its respective progress is shown in **Figure 73**. The Julius Nyerere Hydropower Project was full commissioned during the period.

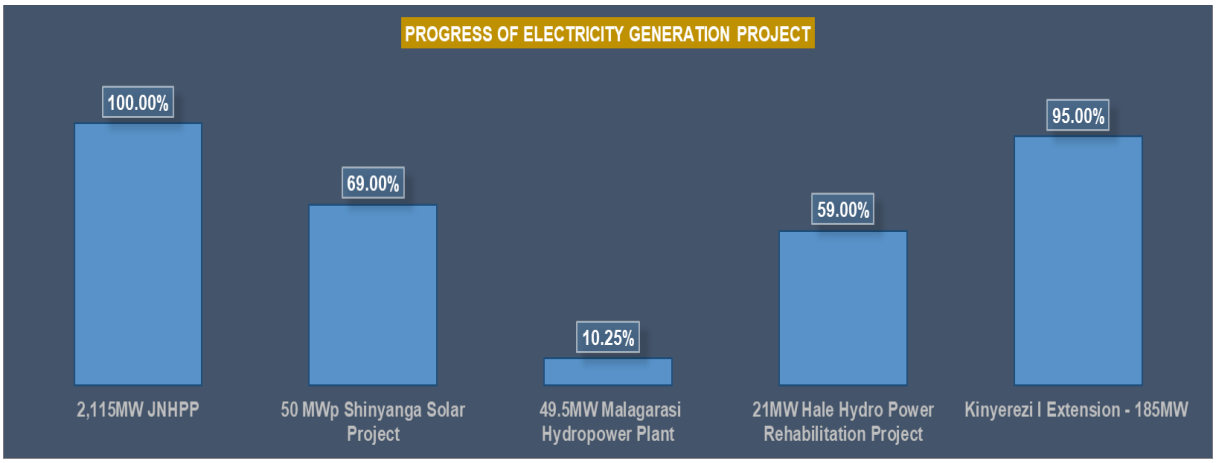


Figure 73: Progress of Electricity Generation Projects

13.1.2 Electricity Transmission Line

During review period, 30 projects accounting to 15,034.63km were at different stages of implementation as in **Table 5**. Among these, 10 projects accounting to 1,841.80km were commissioned during the period. Likewise, 20 projects accounting to 3,192.83km were in progress. The projects will increase the security of the electricity supply. Details of the projects are in **Annex 22**.

Table 5: Electricity Transmission Line Projects

S/N	Description	Number	Length (km)
1	Commisioned Project	10	1,841.80
2	Project on Progress	20	3,192.83
3	Total	30	5,034.63

***Source**: TANESCO*

13.1.3 Electricity Grid Substation

For the period under review, 33 accounting for 5,980.00MVA were at different stages of implementation as in **Table 6**. Among these, 6 projects accounting to 365.00MVA were commissioned during the period. Likewise,27 projects accounting to 5,615.00MVA were in progress. Likewise, the projects will increase the security of the electricity supply. Details of the projects are in **Annex 23**.

Table 6: Electricity Substation Projects

S/N	Description	Number	Capacity (MVA)
1	Commisioned Project	6	365.00
2	Project on Progress	27	5,615.00
3	Total	33	5,980.00

***Source**: TANESCO*

13.2 Private Entities Participation in the Development of Infrastructure

The private sector accounts for 67 projects with 698.72MW, as in **Table 7**. 23 projects accounting for 489.10MW are commissioned and operational. 8 projects accounting for 36.23 MW are under construction. Likewise, 36 projects accounting for 173.39MW are at different stages of soliciting funds. The respective projects will enhance the security of the electricity supply when fully commissioned. Details of the projects are in **Annex 5**.

Table 7: Private Entities' Participation in the Development of Infrastructure

S/N	Description	Number	Capacity
1	Operational	23	489.10
2	Construction on progress	8	36.23
3	Construction not commenced	36	173.39
	Total	**67**	**698.72**

***Source**: Licensees*

14. 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.

14.1 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 74**. The National Clean Cooking Strategy 2024 aims to ensure that 80% of the population uses clean energy for cooking by 2034.

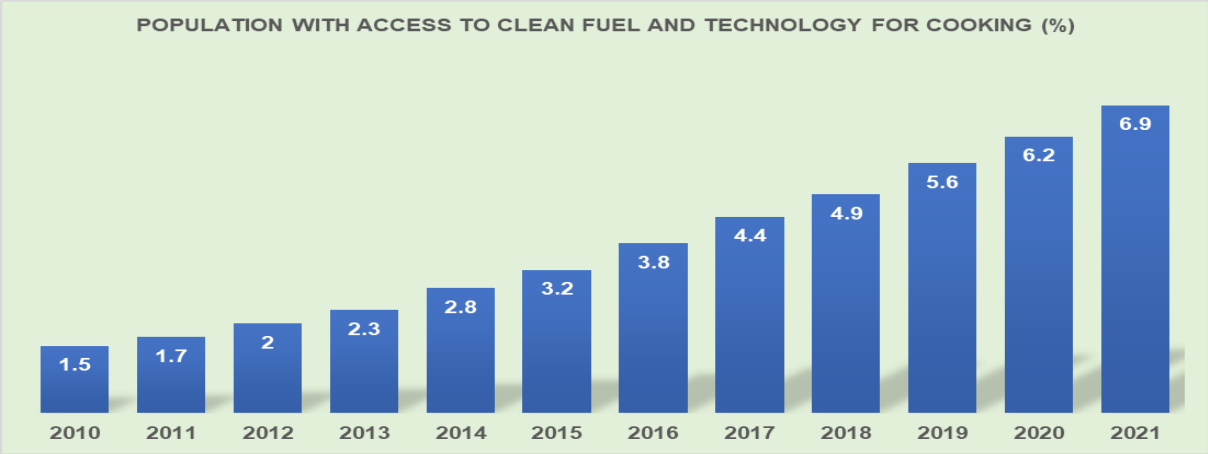


Figure 74: Population with Access to Clean Fuels and Technologies for Cooking

14.2 Fuels And Technologies Used for Cooking

The National Clean Cooking Strategy 2024 indicates that the household in mainland Tanzania uses various cooking energy source as **Figure 75**. 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.

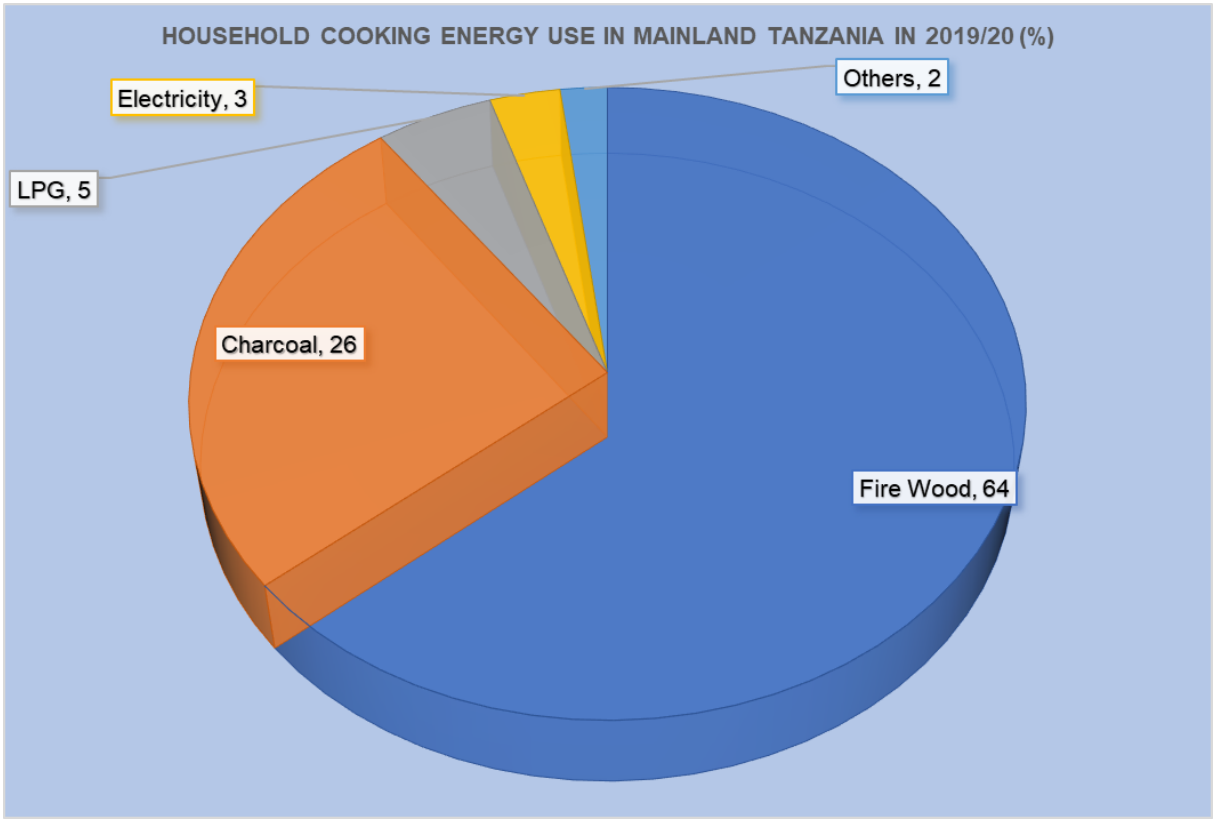


Figure 75: Household Cooking Energy Use in Mainland Tanzania In 2019/20 (%)

14.3 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 76**.

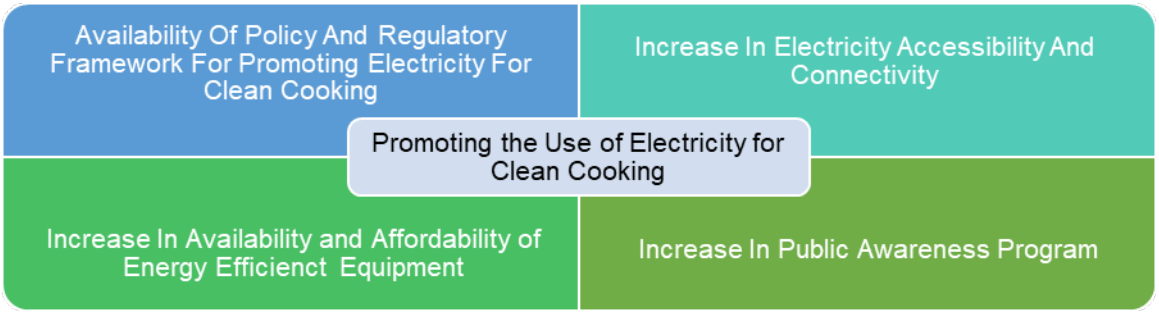


Figure 76: Strategies for Promoting the Use of Electricity for Clean Cooking

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 77**.

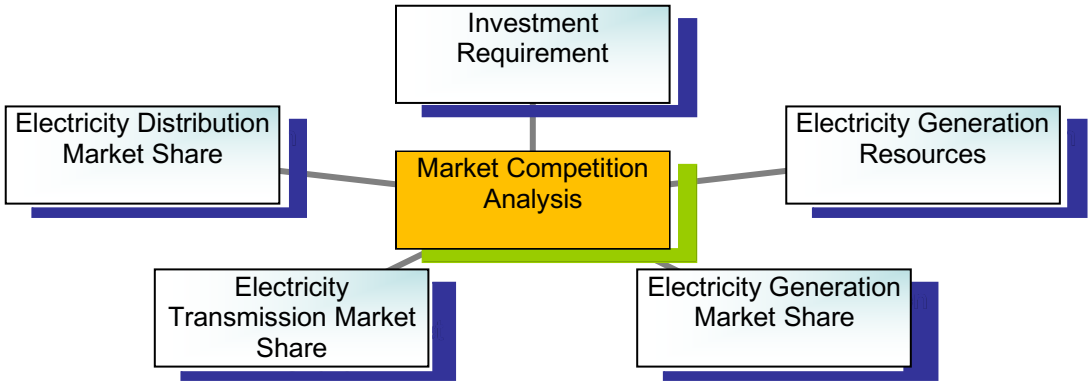


Figure 77: Market Competition Analysis

15.1 Investment Requirement

The Power System Master Plan (PSMP) of 2024 indicates the continuous growth in electricity demand. The demand is forecasted to grow from 2,507.80MW in 2025 to 10,105.29MW in 2050, as shown in **Figure 78**. This indicates the need for a significant investment in electricity generation, transmission, and distribution infrastructures.

Figure 78: Forecasted Electricity Demand (2025-2050)

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 79**. The developed resources as of June 2024, accounted for 4,437.54 MW (10.3%), excluding Cross-Boarder Imports, as indicated in **Table 2**. This indicates a need for significant investment to develop the available resources, thereby requiring private participation where economically viable.

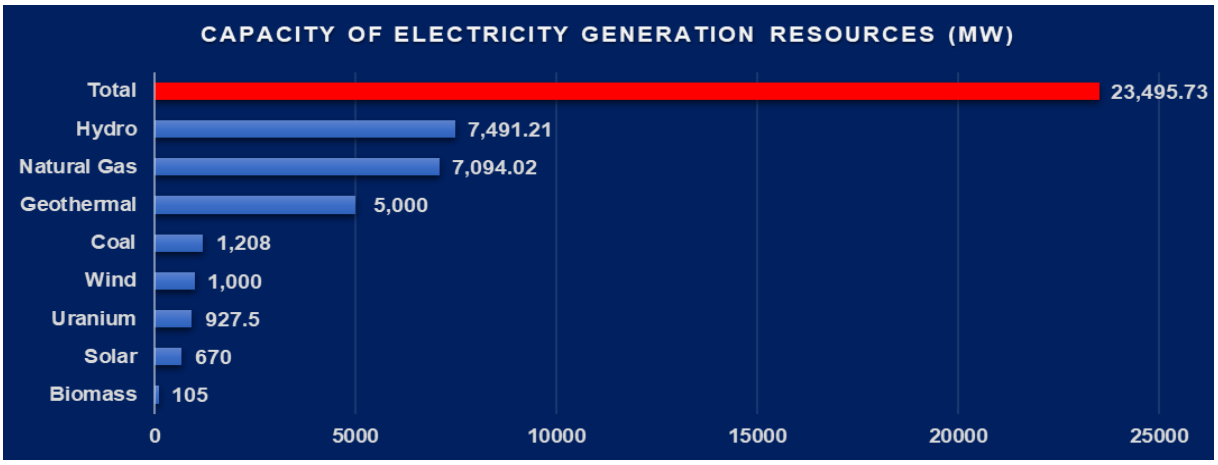


Figure 79: Capacity of Available Electricity Generation Resources (MW)

15.3 Electricity Generation Market Share

The market share by installed capacity as of June 2025 indicated that TANESCO accounts for 85% as in **Figure 80**. Likewise, in electricity generation, TANESCO accounts for 89% and private entities 17% as in **Figure 81**. This indicates a need for more private investment in the electricity supply industry.

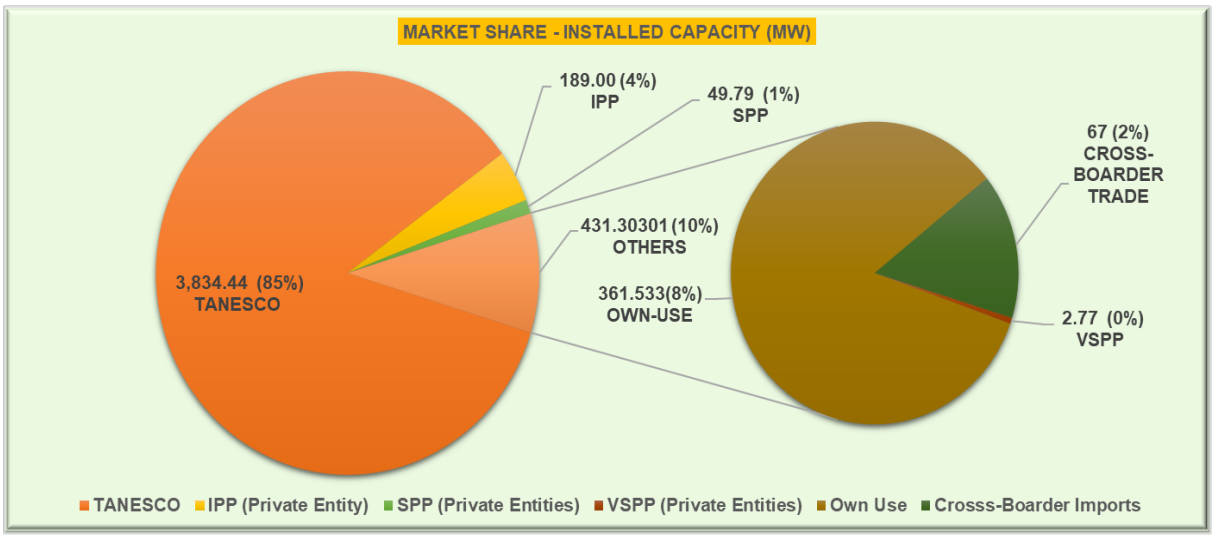


Figure 80: Market Share – Installed Capacity as of June 2025 (MW)

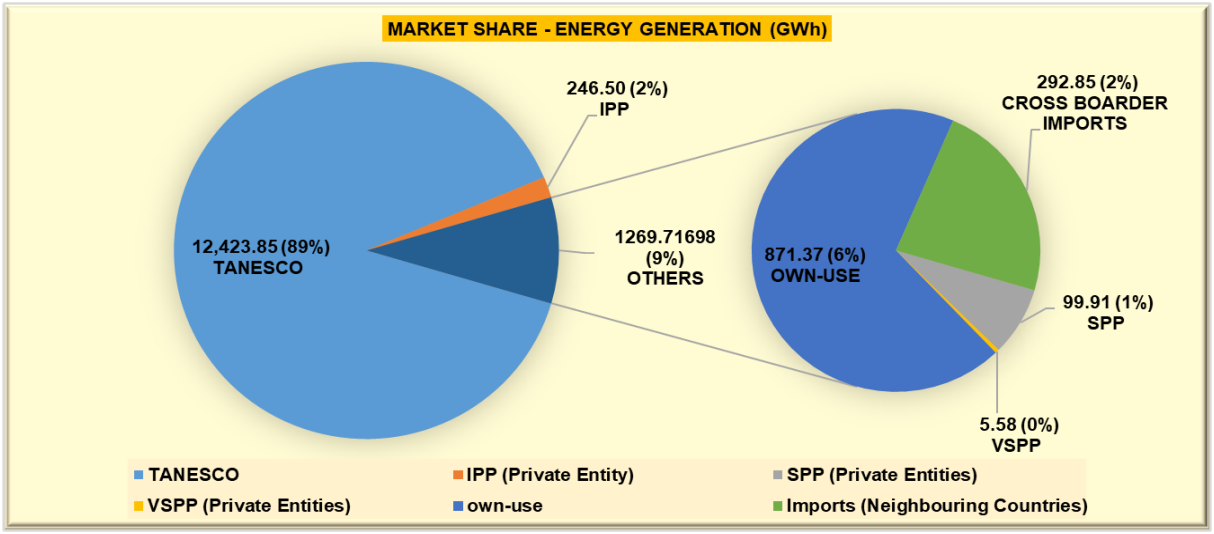


Figure 81: Market Share – Electricity Generation as of June 2025 (MWh)

15.4 Electricity Transmission and System Operations Market Share

TANESCO accounts for a 100% market 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. Additionally, TANESCO holds a 100% market share in system operations. The market structure is presented in **Figure 1**.

15.5 Electricity Distribution Market Share

The market share by the customer as of June 2025 was 99.54% for TANESCO and 0.46% for other entities, as in **Figure 82** and details in **Figure 64** and **Figure 65**.

Likewise, the largest infrastructure market shareholder is TANESCO, with 99.50%, while 0.50% is for private entities, as in **Figure 83** and details in **Figure 60**, **Figure 61**, and **Figure 62**.

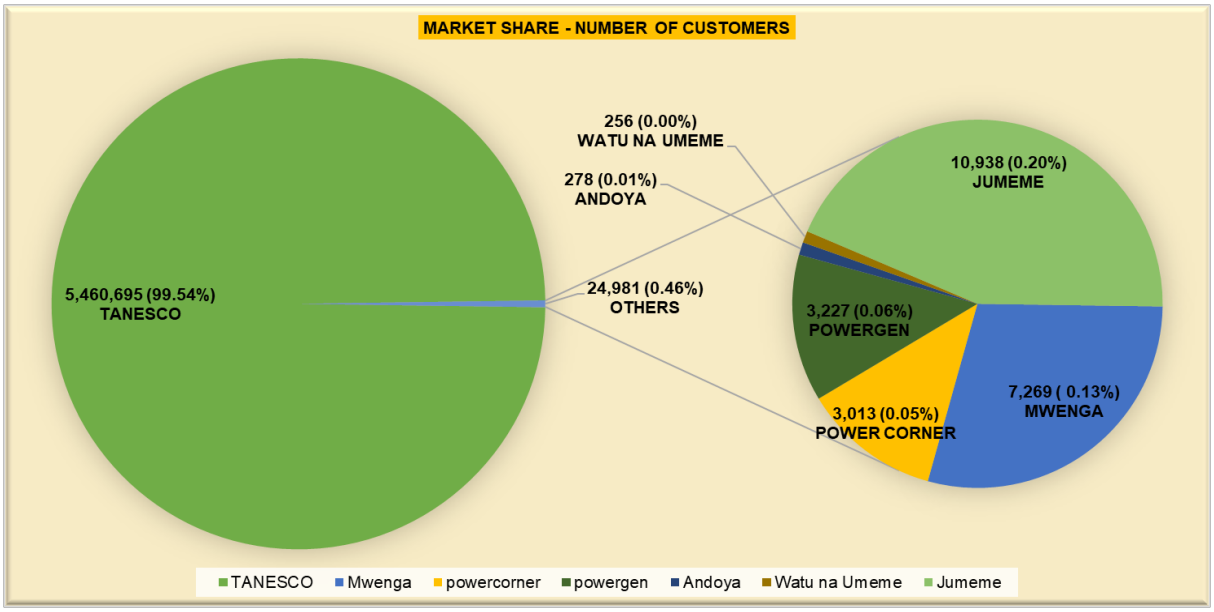


Figure 82: Market Share – Electricity Distribution Customer as of June 2025

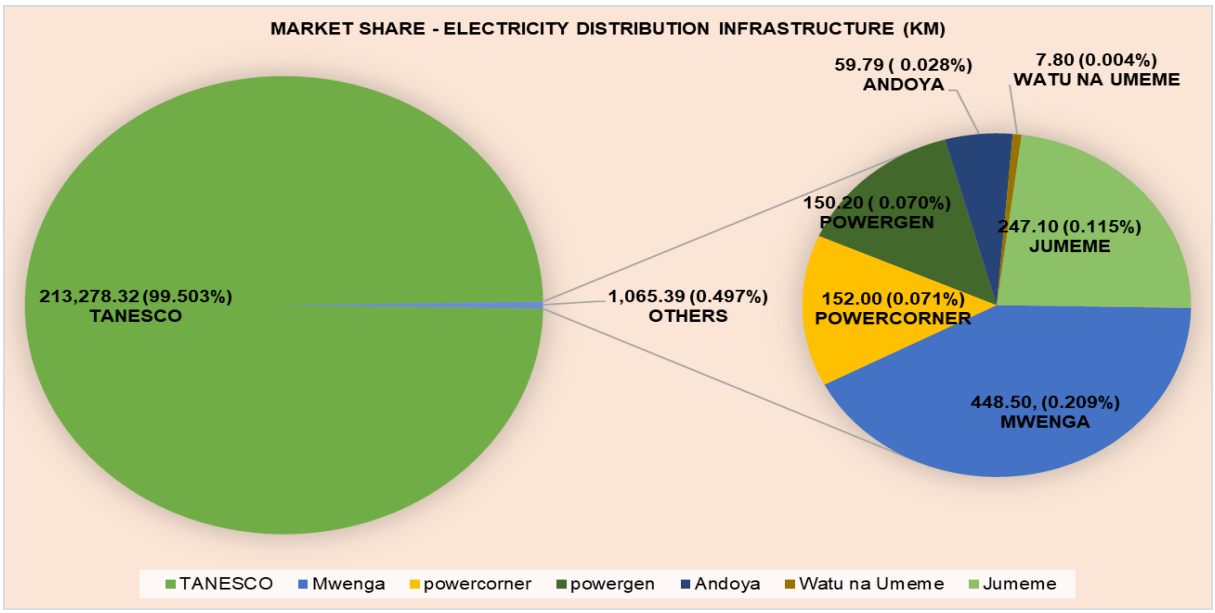


Figure 83: Market Share – Electricity Distribution Infrastructure as of June 2025

16. REGULATORY IMPACT

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

16.1 Affordability Of Electricity Services:

Electrical Installation Licences: 1,371 licenses were issued. It increased the number of licensed personnel conducting electrical installation activities, 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 a 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

Electricity Generation Licence: 13 licences accounting for 160.86MW were issued. The licences complement the Government's effort to ensure the security of power supply.

Power Purchase Agreement (PPA): 14 PPAs were approved. The PPAs enable private entities to develop power plants and sell electricity to TANESCO. When commissioned, the approved PPA will account for 258.71MW, ensuring the security of the electricity supply.

16.3 Quality and Reliability of Services

Performance agreement: The agreements were signed, containing Key Performance Indicators (KPIs) necessary for promoting the quality and reliability of electricity supply, among others.

Reliability of Electricity Supply: The System Average Interruption Frequency Index (SAIFI) was 17.69 and within the KPI of <26 interruptions.

Investments: Five (5) generation projects accounting for 2,420.50MW; 30 transmission line projects accounting for 5,034.63km, and 33 substations projects accounting for 5,980.00MVA were under implementation by the government. Likewise, 44 generation projects accounting for 209.62MW were at different stages of development by private entities. The projects will enhance the quality and reliability of electricity when fully commissioned.

16.4 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 the 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.

16.5 Electrification

Customer connection: 503,417 were connected to the electricity supply.

Infrastructures: 2115.00MW of power generation project, 779.63 km of transmission line, five (5) substations, and 25,460.59 km of electricity distribution line were commissioned, thus enhancing electricity accessibility and connectivity.

17. CONSUMER SAFEGUARD

Customer service is among the regulatory goals, as outlined in Section 30(7) of the Electricity Act, Cap. 131. The regulatory interventions to ensure standards of customer service include approving the customer service charter of regulated entities, conducting compliance monitoring and entering into performance agreements of regulated entities.

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.

17.2 Compliance Monitoring

Performance monitoring was conducted for all licensees to ensure compliance with applicable legislation. Further, awareness seminars for the general public were conducted to enhance understanding of the rights and obligations of services provided by the service providers.

18. FUTURE OUTLOOK OF THE ELECTRICITY SUPPLY INDUSTRY

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

18.1 Net-Metering Framework

The framework that allows utilities and customers to engage in net-metering is in place to promote the security of the electricity supply, clean energy, clean cooking, and the efficient use of electricity in line with the Electricity (Net-Metering) Rules, 2018. The same will be promoted, where customers will engage in a net energy metering billing mechanism with utilities to earn credit for excess energy production through renewable sources, such as solar, to offset the grid energy consumed, as shown in **Figure 84**. The framework allows net-metering energy supply up to 5% of the maximum demand.

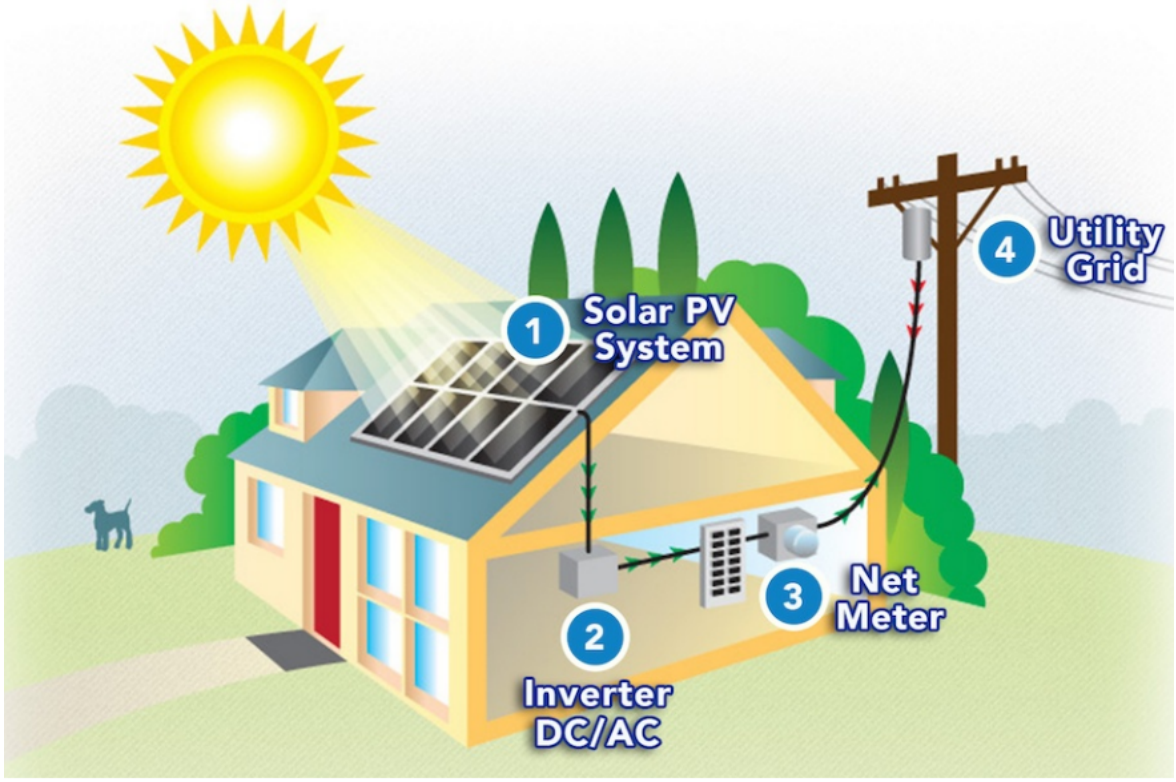


Figure 84: Net-Metering Mechanism

18.2 Private Sector Financing the Construction of an Electric Supply Line

The framework allowing the private sector to finance the construction of electric supply lines is in place to promote electrification accessibility, connectivity, and clean cooking in line with Regulation 4 of the Electricity (General) Regulations, 2020. The same will be promoted, where customers will be reimbursed for engaging with the utilities in financing the construction of the electricity supply line. The framework includes transmission, distribution and supply infrastructure up to the customers as depicted in **Figure 85**.

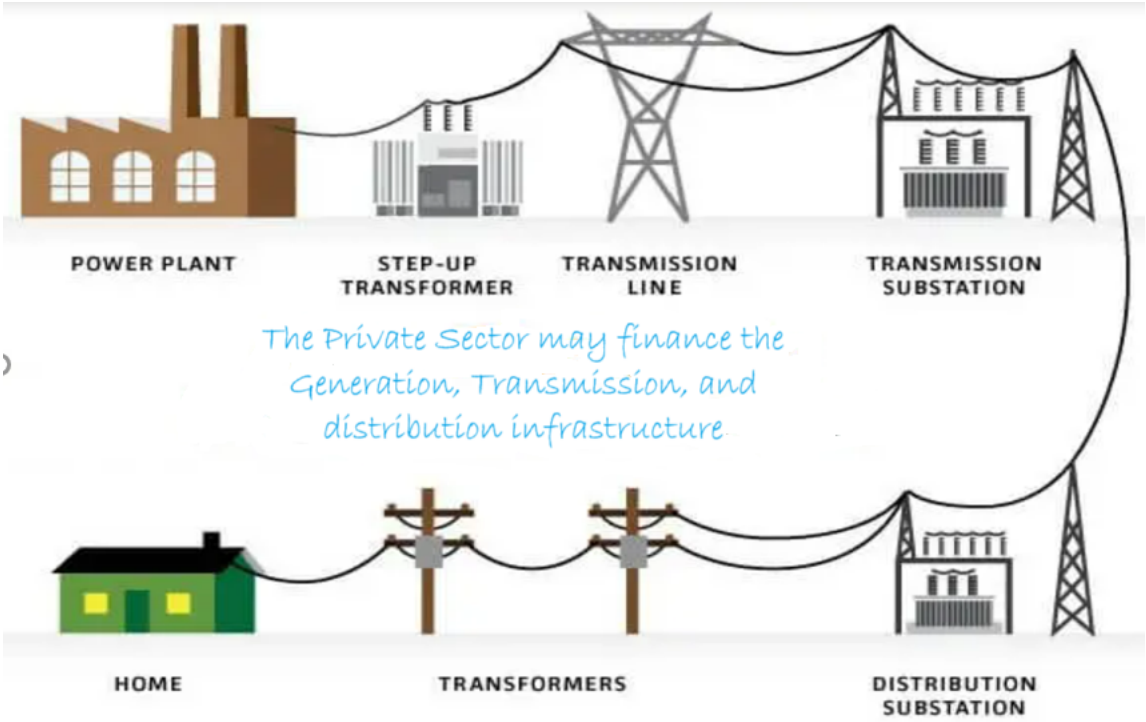


Figure 85: Private Sector Financing the Construction of an Electric Supply Line

18.3 Electro Mobility

The development of the framework for the regulation of the electromobility power consumption and charging stations is in process to promote electromobility through efficient use of electricity and safety, as depicted in **Figure 86**. This is based on the fact that the increase in the adoption of electromobility will increase electricity consumption demand and safety requirements.

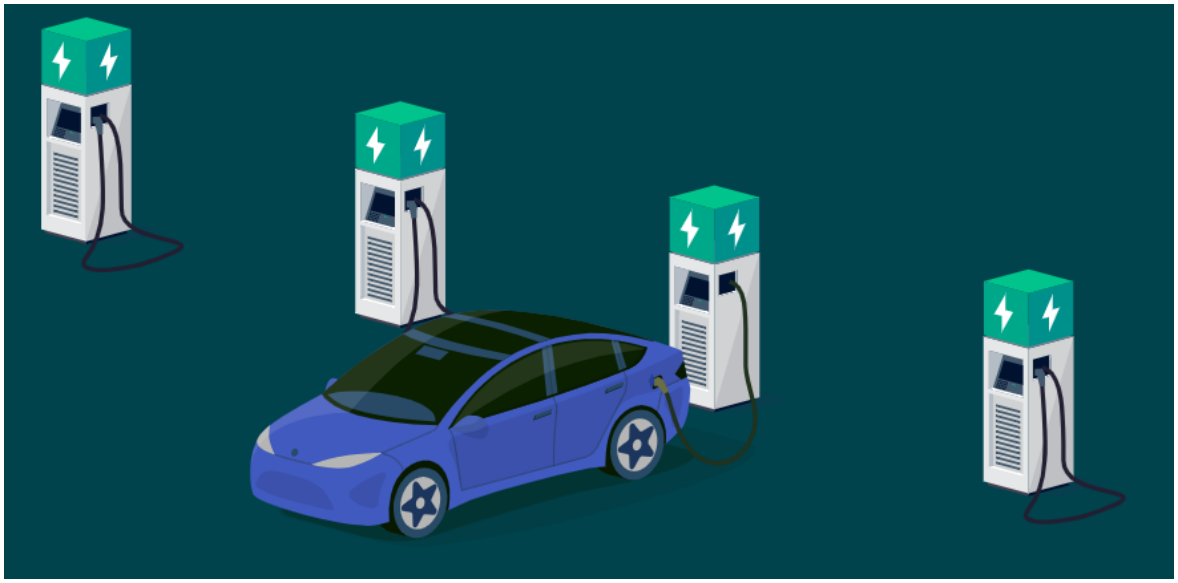


Figure 86: Electromobility

18.4 Load Forecast and Generation Requirements

The power system master plan 2024 updates presents a twenty-five-year load forecast based on a review of historical electricity consumption, economic factors (GDP, Population) performance, and electricity needs to support emerging demands. The emerging issues that form the key drivers of future power demand include adopting E-mobility, clean cooking technologies, the Standard Gauge Railway (SGR) project, and Liquefied Natural Gas (LNG) development.

The Base-Case load forecast indicates that demand will increase from 16,007.5 GWh in 2025 to 40,932.87 GWh in 2030. The forecast demand translates into an increase in per capita consumption from 243 kWh in 2025 to 528 kWh in 2030. Connectivity rate increases from 50% in 2025 to 87% in 2030, as shown in **Table 8**.

Table 8: Load Forecast and Generation Requirements

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

18.5 Power Generation Expansion Plan

Based on forecasted electricity demand, the total installed capacity increases from 3,191.71 MW in 2024 to 19,905.19 MW in 2050. The non-hydro renewable energy capacity contribution increases from 1% to 52% of total renewable energy capacity in the same period, as shown in **Table 9**. The corresponding energy increases from 16,445.63 GWh in 2024 to 108,203.90 GWh in 2050.

Table 9: Power Generation Expansion Plan

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

18.6 Transmission Network Expansion

To evacuate power generation, a total of 16,552.16 km of new transmission lines will be developed over the planning horizon, as shown in the **Table 10**. Thus, by the end of the planning horizon, the total transmission line will be 24,284.54 km. The investment will lead to a subsequent reduction in transmission losses from 5.80% in 2024 to 2.85% by 2048.

Table 10: Electricity Transmission Expansion Plan

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

18.7 Economic and Financial Analysis

The investment requirement to support generation and transmission expansion plans is projected to be USD 39,951.90 million by 2050. This includes USD 699.23 million that will be fully financed by the government, while the remainder financing requirement will be met considering a 70%-debt and 30%-equity split as shown in the tabulation below.

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

18.8 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.

18.9 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 the country's 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

The electricity supply industry has achieved several milestones technically and economically. Likewise, several challenges are being dealt with to ensure the development of the sub-sector.

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: -

19.1.1 Licences

Issuance of 13 licences accounting for 160.86MW upon its commissioning to enhance the security of the electricity supply. Likewise, issuance of 1,371 electrical installation licences to enhance electrical installations, particularly in rural areas.

19.1.2 Power Purchase Agreements

Approval of 14 power purchase agreements for private entities to develop power plants that account for 258.71MW upon their commissioning, hence increasing the security of the electricity supply.

19.1.3 Initiation of Procurement of New Electricity Supply Installations

Two projects, accounting for 200MW (100MW solar and 100MW wind) had approval for the initiation of procurement for the Development of new electricity supply installations, in partnership with TANESCO, to build power plants.

19.1.4 Complaints

Resolving 104 complaints and disputes between regulated entities and respective customers.

19.1.5 Installed capacity

Increased installed capacity by 1,833.91 (68.67%) from 2,411.33 MW in June 2024 to 4,504.54 MW in June 2025.

19.1.6 Maximum demand

reached 2,358.54MW in June 2025. It rose by 451.68 MW (23.69%) from 1,906.85 MW in FY 2023/2024.

19.1.7 Energy Generation and Cross-Border Imports

Increased by 2,501.07 GWh (21.86%) from 11,438.99 GWh in the 2023/24 to 13,940.06GWh in FY2024/25

19.1.8 Transmission Line Infrastructure

Reached 8,303.87km from 7,524km in June 2024. This is equivalent to an increase of 0f 779km (10.35%).

19.1.9 Grid Substations

Reached 72 in June 2025. This is an increase of three (5) (7.46%) from 67 in FY2023/2024.

19.1.10 Distribution Line Length

reached 214,343.67km in June 2025 from 188,266.23 km in June 2024. This is equivalent to an increase of 26,077.44km (13.85%)

19.1.11 Infrastructure development Investment

Five (5) generation projects accounting for 2,420.50MW; 30 transmission line projects accounting for 5,034.63km, and 33 substations projects accounting for 5,980.00MVA were under implementation by the government. Likewise, 44 generation projects accounting for 209.62MW were at different stages of development by private entities. The projects will enhance the quality and reliability of electricity when fully commissioned.

19.1.12 Electrification and Customer Connection

Reached 5,485,676km in FY2024/25. This is equivalent to an increase of 503,417 (10.10%) from 4,982,259 in FY 2023/24.

19.1.13 Reliability Of Supply

System Average Interruption Frequency Index (SAIFI) was 17.69 incidents, and within the target of below 26 incidents. System Average Interruption Duration Index (SAIDI) was 1,692.73 minutes, and above a target of < 1,536 hours. Also, the customer average interruption duration index (CAIDI) was 95.55 minutes and above a target of <59 minutes

19.1.14 Clean Cooking

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

C. Rural Energy Agency

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

D. Tanzania Electricity Supply Company Limited

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

E. Private Regulated Entities

S/N	Description in line with the Electricity Act, Cap. 131	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, 2024
2)	The Electricity (Electrical Installations Services) Rules, 2022
3)	The Electricity (Licensing and Registration Fees) Rules, 2022
4)	The Electricity and Natural Gas (Tariff Application and Rate Setting) Rules, 2021
5)	The EWURA Consumer Complaints Settlement Rules, 2020
6)	The Electricity (Development of Small Power Projects) Rules, 2020
7)	The Electricity (Procurement of Power Projects and Approval of Power Purchase Agreement) Rules 2019
8)	The Electricity (Supply Services) Rules 2019 and its amendments of 2023
9)	The Electricity (Grid and Distribution Codes) Rules 2017
10)	The Electricity (Grid and Distribution Codes) Rules 2017
11)	The Electricity System Operations Services Rules 2016
12)	Electricity Market Operations Services Rules 2016

E. Standards

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

Annex 3: Licenses

(a). Electricity Generation License for Sale

S/N	Name of Licensee	Project Area	Energy Source	Capacity (MW)	Capacity for Sale (MW)	Duration (Years)	License No.	Date of Issue	Date of Expiry
1	TANESCO	Morogoro	Hydro	3,834.4	3,834.4	20	EGL-2013-001	03/01/2013	28/02/2033
2	SONGAS	Dar es Salaam	Gas	189.0	189.0	33	0	11/10/2001	10/10/2034
3	Tanganyika Plantation Co. Ltd.	Kilimanjaro	Biomass	20.0	9.0	13	EGL-2012-005	18/06/2012	17/06/2025
4	Tanganyika Wattle Co. Ltd	Njombe	Biomass	2.8	1.5	13	EGL-2012-005	18/06/2012	17/06/2025
5	Mwenga Hydro Ltd (Hydro)	Iringa	Hydro	4.0	4.0	15	EGL-2013-001	01/03/2013	28/02/2028
6	Tulila Hydro Electric Plant Co. Ltd	Ruvuma	Hydro	7.5	7.5	14	EGL-2016-001	03/08/2016	02/08/2030
7	Andoya Hydro Electric Power Co. Ltd	Ruvuma	Hydro	1.0	1.0	15	EGL-2016-002	22/08/2016	21/08/2031
8	Ngombeni Power Ltd.	Coast	Biomass	1.4	1.4	15	EGL-2016-003	07/09/2016	06/09/2031
9	Luponde Hydro Limited	Njombe	Hydro	1.1	1.1	15	EGL-2020-001	30/06/2020	29/06/2035
10	Madope Hydro Company Limited	Njombe	Hydro	1.8	1.8	15	EGL-2020-002	30/06/2020	29/06/2035
11	Mwenga Hydro Ltd (Wind)	Iringa	Wind	2.4	2.4	15	EGL-2020-003	29/12/2020	28/12/2035
12	Nextgen Solawazi Limited	Kigoma	Solar	5.0	5.0	20	EGL–2021 - 002	31/05/2021	30/05/2041
13	Mkulazi Holding Co. Ltd.	Morogoro	Biomass	15.0	7.0	5	EGL-2025-001	30/05/2025	29/05/2030
14	BXC Tanzania Ltd.	Shinyanga	Solar	5.0	5.0	5	EGL-2025-002	27/06/2025	26/06/2030
15	Yovi Hydro Power Co.Ltd	Morogoro	Hydro	1.0	1.0	10	CRG - 2019 - 009	16/04/2019	15/04/2029
16	Darakuta Hydro Power Development Co.Ltd	Manyara	Hydro	0.4	0.4	5	CRG – 2024 - 001	17/04/2024	16/04/2029
17	Matembwe Village Co.Ltd	Njombe	Hydro	0.6	0.6	5	CRG – 2024 - 002	12/07/2024	11/07/2029
18	Matembwe	Njombe	Hydro	0.4	0.4	VARIOUS	VARIOUS	VARIUS	VARIUS
19	Madope	Njombe	Hydro	0.7	0.7	VARIOUS	VARIOUS	VARIUS	VARIUS
	TOTAL			**4,093.5**	**4,073.2**				

(b). Electricity Generation Licence for Own Use

S/N	Name of Licensee	Project Area	Energy Source	Capacity (MW)	Capacity for Sale (MW)	Duration (Years)	License No.	Date of Issue	Date of Expiry
1	Tanganyika Plantation Co. Ltd.	Kilimanjaro	Biomass	20.0	11.0	13	EGL-2012-005	18/06/2012	17/06/2025
2	Tanganyika Wattle Co. Ltd	Njombe	Biomass	2.8	1.3	13	EGL-2012-005	18/06/2012	17/06/2025
3	Mkulazi Holding Co. Ltd.	Morogoro	Biomass	15.0	8.0	5	EGL-2025-001	30/05/2025	29/05/2030
4	Lake Cement Ltd.	Dar es Salaam	Coal	15.4	15.4	15	BEGL-2016-001	29/03/2016	28/03/2031
5	Tanga Cement Public Limited Company	Tanga	Diesel	11.5	11.5	15	SEGL-2016-001	04/10/2016	03/10/2031
6	Kilombero Sugar Company Limited	Morogoro	Biomass	12.6	12.6	15	BEGL-2017-001	18/04/2017	17/04/2032
7	Shanta Mine Co. Ltd	Mbeya	Diesel	8.2	8.2	15	BEGL-2018-001	02/02/2018	01/02/2033
8	Kilombero Plantations Limited	Morogoro	Biomass	1.7	1.7	15	EGL-2018-001	30/08/2018	29/08/2033
9	Stamigold Company Limited	Kagera	Diesel	7.0	7.0	15	BEGL-2019-002	22/03/2019	21/03/2034
10	ALAF Limited	Dar es Salaam	Gas	4.0	4.0	5	BEGL-2020-001	30/01/2020	29/01/2025
11	North Mara Goldmine Ltd	Mara	Diesel	18.0	18.0	5	EGOWL-2020-001	27/11/2020	26/11/2025
12	Bulyanhulu Goldmine Ltd	Shinyanga	Diesel	39.1	39.1	5	EGOWL-2020-002	27/11/2020	26/11/2025
13	Dangote Cement Limited	Mtwara	Gas	50.0	50.0	5	EGOWL-2021-001	28/06/2021	27/06/2026
14	Bagamoyo Sugar Limited	Coast	Biomass	5.0	5.0	5	EGOWL-2022-001	09/09/2022	08/09/2027
15	Kagera Sugar Ltd.	Kagera	Biomass	27.2	27.2	15	EGOWL-2022-003	18/04/2017	17/04/2032
16	Tanzania Cigarette Public Ltd. Co.	Dar es Salaam	Gas	4.7	4.7	5	EGOWL-2024-001	01/11/2024	31/10/2029
17	Mufindi Paper Mills Ltd	Iringa	Biomass	10.4	10.4	5	EGOWL-2024-002	29/11/2024	28/11/2029
18	Mtibwa Sugar Estates Ltd	Morogoro	Biomass	15.0	15.0	5	EGOWL-2024-003	29/11/2024	28/11/2029
19	Kioo Ltd	Dar es Salaam	Gas	12.2	12.2	5	EGOWL-2025-001	31/01/2025	30/01/2030
20	Gas Co. (T) Ltd (Lindi)	Lindi	Gas	10.7	10.7	5	EGOWL-2025-002	31/01/2025	30/01/2030
21	Gas Co. (T) Ltd (Mtwara)	Mtwara	Gas	3.2	3.2	5	EGOWL-2025-003	31/01/2025	30/01/2030
22	Nyati Mineral Sands Ltd.	Dar es Salaam	Diesel	2.0	2.0	5	EGOWL-2025-005	28/03/2025	27/03/2030
23	SBC Tanzania Ltd.	Dar es Salaam	Diesel	4.5	4.5	5	EGOWL-2025-004	27/03/2025	26/03/2030
24	TPDC	Dar es Salaam	Gas	1.2	1.2	5	EGOWL-2025-005	30/05/2025	29/05/2030
25	Geita Gold Mining Ltd.	Geita	Diesel	47.0	47.0	5	EGOWL-2025-006	27/06/2025	26/06/2030
26	Maweni Limestone Ltd.	Tanga	Coal	30.0	30.0	5	EGOWL-2025-007	27/06/2025	26/06/2030
27	Nasra	Dar es Salaam	Diesel	0.8	0.8	VARIOUS	VARIOUS	VARIUS	VARIUS

	TOTAL			**379.0**	**361.5**				

(c). Electricity Transmission Licence

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-Border Trade Licence

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

(e). Electricity Distribution Licences

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

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

No.	Licencee	Project Area	Capacity (MW)	Fuel	Duration	Licence No.	Date of Issue	Date of Expiry
1.	Suma Hydro Limited	Rungwe	4	Hydro	3 years	PEGL-2023-001	18/Feb/23	17/Feb/26
2.	Bugando Natural Energy Limited	Magu	5	Solar	3 years	PEGL-2023-002	25/Jul/23	24/Jul/26
3.	Lilondi Hydropower Limited	Ruvuma	4.5	Hydro	3 years	PEGL-2023-003	12/Sep/23	11/Sep/26
4.	Tangulf Nakatuta Energy Co. Ltd	Ruvuma	5	Hydro	3 years	PEGL-2023-004	12/Sep/23	11/Sep/26
5.	Armstone Hydro Limited	Uvinza	5.34	Hydro	3 years	PEGL-2025-001	31/Jan/25	30/Jan/28
6.	Armstone Hydro Limited	Kakonko	3	Hydro	3 years	PEGL-2025-002	31/Jan/25	30/Jan/28
7.	Puissance Associates Limited	Bunda	5	Solar	3 years	PEGL-2025-	27/Feb/25	26/Feb/28

						003		
8.	Tanzania Tooku Garments Company Limited	Ubungo	3	Solar	3 years	PEGL-2025-004	27/Feb/25	26/Feb/28
9.	Wagonanze Investment Limited	Kondoa	5	Solar	3 years	PEGL-2025-005	27/Mar/25	26/Mar/28
10	Luponde Hydro Limited	Njombe	2	Hydro	3 years	PEGL-2025-006	27/Mar/25	26/Mar/28
11	Tangulf Nakatuta Energy Co. Ltd	Ruvuma	10	Hydro	3 years	PEGL-2025-007	25/Apr/25	11/Sep/26
12	Lung'ali Natural Resources Company Limited	Iringa	1.2	Hydro	3 years	PEGL-2025-008	25/Apr/25	24/Apr/28
13	Mwenga Hydro Limited	Mufindi	2.5	Hydro	3 years	PEGL-2025-009	30/May/25	29/May/28
14	A TO Z Textile Mills Ltd	Arusha	2.5	Solar	3 years	PEGL-2025-010	01-Aug-25	31-Jul-28
	Total		**58.04**					

Annex 4: Total Registered Entities Selling Electricity

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

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

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

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

	Total	**3472.98**					**16958**	**518.371**	**38.684**

GENERAL SUMMARY FOR ALL COMPANIES

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

Annex 5: Power Purchase Agreement

S/N	Name of Developer	Capacity (MW)	Energy Source	Location	COD-Signing Date	Expire Date	Status
1	Darakuta Hydropower Development Co. Ltd.	0.32	Hydro	Magugu – Babati	01-Apr-16	31-Mar-31	Operational
2	Matembwe Village Community Co. Ltd.	0.49	Hydro	Njombe	01-Nov-16	31-Oct-31	Operational
3	Mwenga Hydro Limited	3.60	Hydro	Mufindi	27-Sept-12	26-Sept-27	Operational
4	Tulila Hydro Electric Plant Co. Ltd.	5.00	Hydro	Songea	01-Sept-15	30-Aug-30	Operational
5	Andoya Hydro Electric Power Co. Ltd.	1.00	Hydro	Mbinga	20-Mar-15	19-Mar-30	Operational
6	Ngombeni Power Limited	1.40	Biomass	Mafia	01-Feb-14	31-Jan-29	Operational
7	Tanganyika Planting Co. Ltd.	9.00	Biomass	Moshi	16-Sept-15	15-Sept-25	Operational
8	Tanganyika Wattle Co. Ltd.	1.50	Biomass	Njombe	26-Jun-25	25-Jun-35	Operational
9	NextGen Solawazi Ltd.	5.00	Solar	Kigoma	29-May-21	28-May-41	Operational
10	Yovi Hydro Power Plant	1.00	Hydro	Morogoro	14-Nov-16	13-Nov-31	Operational
11	Luponde Hydro Power Plant	0.90	Hydro	Njombe	28-Feb-21	27-Feb-41	Operational
12	Madope Hydro Power Plant	0.70	Hydro	Njombe	28-Mar-23	27-Mar-43	Operational
13	Bagamoyo Sugar Ltd.	1.50	Biomass	Bagamoyo, Pwani	01-Jun-23	31-May-43	Operational
14	Zanzibar Electricity Corporation (ZECO)	145.00	Export	Zanzibar	07-Nov-23	06-Nov-53	Operational
15	Rusumo Power Co. Ltd	26.67	Hydro	Ngara, Kagera	30-Sept-23	29-Sept-73	Operational
16	Uganda Electricity Transmission Co. Ltd	7.00	Import	Uganda	02-Feb-22	01-Feb-42	Operational
17	Uganda Electricity Transmission Co. Ltd	30.00	Import	Uganda	17-Aug-23	16-Aug-26	Operational
18	Nishati Lutheran (DKK) Investment Ltd.	0.36	Hydro	Makete, Njombe	12-Sept-23	11-Sept-43	Operational
19	Zambia Electricity Supply Co. Ltd (ZESCO)	20.00	Import	Zambia	01-Sept-17	31-Aug-27	Operational
20	FGS Ecoenergy Ltd.	10.00	Solar	Msalala, Shinyanga	23-Jul-24	23-Jul-44	Construction not commenced
21	FGS Ecoenergy Ltd.	5.00	Solar	Newala, Mtwara	27-Jun-24	27-Jun-44	Construction not commenced
22	Maximum Power Tanzania Ltd.	7.00	Solar	Nsimbo , Katavi	23-Jul-24	23-Jul-44	Construction not commenced
23	Oreon Renewables Ltd.	5.00	Solar	Kaliua, Tabora	23-Jul-24	23-Jul-44	Construction not commenced
24	Oreon Renewables Ltd.	5.00	Solar	Mbozi, Songwe	23-Jul-24	23-Jul-44	Construction not commenced
25	Hareketpower Co. Ltd.	5.00	Solar	Kongwa , Dodoma	27-Jun-24	27-Jun-44	Construction not commenced
26	Hareketpower Co. Ltd.	5.00	Solar	Igunga , Tabora	27-Jun-24	27-Jun-44	Construction not commenced
27	Hareketpower Co. Ltd.	6.00	Solar	Mbarali , Mbeya	27-Jun-24	27-Jun-44	Construction not commenced

S/N	Name of Developer	Capacity (MW)	Energy Source	Location	COD-Signing Date	Expire Date	Status
28	Mwenga Hydro Ltd.	4.00	Hybrid	Mufindi, Iringa	30-Apr-24	30-Apr-44	Construction not commenced
29	Africa Power Investment	8.00	Hydro	Hai, kilimanjaro	29-Feb-24	29-Feb-44	Construction not commenced
30	Lilondi Hydro Power	4.50	Hydro	Madaba , Ruvuma	20-Jun-24	20-Jun-44	Construction not commenced
31	LUCSEC Company Limited	3.00	Hydro	Ludewa, Njombe	21-Mar-24	21-Mar-44	Construction not commenced
32	Maximum Power Tanzania Ltd.	5.00	Solar	Nkasi, Rukwa	21-Mar-24	21-Mar-44	Construction not commenced
33	BXC Tanzania Ltd.	5.00	Solar	Kahama, Shinyanga	21-Mar-24	21-Mar-44	Operational
34	BXC Tanzania Ltd.	5.00	Solar	Bukombe, Geita	21-Mar-24	21-Mar-44	Construction not commenced
35	FGS Ecoenergy Ltd.	6.00	Hydro	Kigoma Rural , Kigoma	09-Apr-24	09-Apr-44	Construction not commenced
36	FGS Ecoenergy Ltd.	5.00	Hydro	Muleba, Kagera	09-Apr-24	09-Apr-44	Construction not commenced
37	CESNE Energy Ltd.	5.80	Solar	Uyui, Tabora	21-Mar-24	21-Mar-44	Construction not commenced
38	SSI Energy	10.00	Solar	Kahama , Shinyanga	02-Apr-24	02-Apr-44	Construction on progress
39	Ninety-Two Ltd.	1.90	Hydro	Ngorongoro, Arusha	04-Mar-24	04-Mar-44	Construction not commenced
40	ZBS Investment Ltd.	8.00	Solar	Rorya, Mara	13-Nov-23	13-Nov-43	Construction not commenced
41	ZBS Investment Ltd.	6.00	Solar	Kiteto, Manyara	13-Nov-23	13-Nov-43	Construction not commenced
42	Convivium Investment	5.00	Solar	Misungwi, Mwanza	31-Oct-23	31-Oct-43	Construction not commenced
43	Suma Hydro Power Ltd	4.00	Hydro	Rungwe, Mbeya	23-Jan-23	23-Jan-43	Construction on progress
44	Mofajusi Investment Ltd	3.00	Hydro	Tanganyika, Katavi	24-Apr-23	24-Apr-43	Construction not commenced
45	Franciscan Sisters of Charity	1.00	Hydro	Kilombero, Morogoro	21-Mar-23	21-Mar-43	Construction on progress
46	Infinite Power Resources Ltd	5.00	Solar	Songwe, Songwe	22-Nov-23	22-Nov-43	Construction not commenced
47	Infinite Power Resources Ltd	8.00	Solar	Chunya, Mbeya	22-Nov-23	22-Nov-43	Construction not commenced
48	Ruaha Energy	2.00	Solar	Mpwapwa, Dodoma	19-Dec-23	19-Dec-43	Construction not commenced
49	Ruaha Energy	0.56	Hydro	Tukuyu, Mbeya	19-Dec-23	19-Dec-43	Construction not commenced
50	Tuliani Hydro Power Co. Ltd.	5.00	Hydro	Mvomero, Morogoro	25-Apr-25	25-Apr-45	Construction not commenced
51	Bugando Natural Energy Ltd.	5.00	Solar	Magu, Mwanza	27-Feb-23	27-Feb-43	Construction not commenced
52	Lung'ali Natural Resources Co. Ltd.	1.28	Hydro	Kilolo, Iringa	24-Apr-25	24-Apr-45	Construction on progress
53	Rukwa Generating Co. Ltd	0.95	Hydro	Sumbawanga, Rukwa	24-Oct-22	24-Oct-42	Construction on progress
54	Bwelui Co. Ltd.	4.70	Hydro	Ileje, Songwe	09-Oct-22	09-Oct-42	Construction not commenced
55	Tangulf Nakakuta Energy Co. Ltd.	5.00	Hydro	Songea, Ruvuma	29-May-24	29-May-44	Construction not commenced
56	Luponde Hydro Ltd.	2.00	Hydro	Njombe, Njombe	23-Jan-23	23-Jan-43	Construction on progress

S/N	Name of Developer	Capacity (MW)	Energy Source	Location	COD-Signing Date	Expire Date	Status
57	JUMEME Rural Power Supply	1.00	Solar	Sumbawanga, Rukwa	29-Apr-22	29-Apr-42	Construction not commenced
58	JUMEME Rural Power Supply	1.00	Solar	Mpanda, Katavi	29-Apr-22	29-Apr-42	Construction not commenced
59	BXC Tanzania Ltd.	10.00	Solar	Bukombe, Geita	17-Sept-24	17-Sept-44	Construction on progress
60	BXC Tanzania Ltd.	7.00	Solar	Simanjiro, Manyara	17-Sept-24	17-Sept-44	Construction on progress
61	Armstone Hydro Ltd.	5.34	Hydro	Uvinzat, Kigoma	30-Apr-25	30-Apr-45	Construction not commenced
62	Armstone Hydro Ltd.	2.27	Hydro	Kakonko, Kigoma	06-May-25	06-May-45	Construction not commenced
63	African Benedictine Sisters of St. Agnes of St. Gertrud Imiliwaha Convent	0.32	Hydro	Njombe, Ruvuma	30-Apr-25	30-Apr-45	Construction not commenced
64	Kilombero Sugar Co. Ltd.	10.00	Biomass	Bukombe, Geita	24-Apr-25	24-Apr-45	Construction not commenced
65	Mkulazi Holdings Ltd	8.00	Biomass	Kilosa, Morogoro	21-Apr-22	21-Apr-42	Operational
66	Rusumo Power Co. Ltd	26.67	Hydro	Ngara, Kagera	29-Sept-23	28-Sept-73	Operational
67	Songas Tanzania Ltd.	189.00	Gas	Dar es Salaam	01-Aug-24	31-Oct-24	Operational
	Total	**698.72**					

Annex 6: Published Tariffs for Registered Entities Selling Electricity to Customers

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

Annex 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
	USc[1]/kWh	USc/kWh	USc/kWh	USc/kWh	USc/kWh
0.1 - 0.5MW	10.65	10.82	10.54	10.15	9.71
0.51 - 1 MW	9.90	9.95	9.84	9.34	9.09
1.01 - 5MW	8.95	9.42	9.24	8.64	8.56
5.01 - 10MW	7.83	8.88	8.34	7.60	7.55

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

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

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

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

[1] The prevailing exchange rate to be used

Annex 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 p meter reading period and demand does not exceed 500kVA per meter reading period.

T3-MV: Applicable customers connected to Medium Voltage

T3-HV: Applicable customers connected to High Voltage including ZECO, Bulyanhulu and Twiga cement.

b) Approved TANESCO Charges

i. Single Phase Charges

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

ii. Three Phase Charges for Urban and Rural Area

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

iii. Service line application fee

Tariff category	Approved Fee (TZS)
All customers	Nil

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

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

v. Testing and Inspection of Installation Fee

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

vi. Temporary power supply charges

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

vii. Energy Deposit for Pos- Paid Meters

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

Annex 9: Mwenga Hydro Limited Tariff

a) Approved Tariffs

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

Source: EWURA

b) Approved Service Line Connection Charges

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

Source: *EWURA*

Annex 10: Installed Capacity by Ownership Including Cross-Border Imports (MW)

INSTALLED CAPACITY BY OWNERSHIP				
DESCRIPTION	ENTITY DESCRIPTION AND CROSS BOARDER IMPORTS	CAPACITY (MW)	CONTRIBUTION (%)	
Main Grid for Sale	TANESCO	3,758.28	94.03%	88.73%
	Large Power Producer - Private Entities (≥10MW)	189.00	4.73%	
	Small Power Producer - Private Entities ((>0.1MW & ≤10MW &)	49.79	1.25%	
	Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW)	-	0.00%	
	Total	**3,997.07**	**100.00%**	
Off Grid for Sale	TANESCO	76.16	97.19%	1.74%
	Large Power Producer - Private Entities (≥10MW)	-	0.00%	
	Small Power Producer - Private Entities ((>0.1MW & ≤10MW &)	-	0.00%	
	Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW)	2.21	2.81%	
	Total	**78.37**	**100.00%**	
Own-Use	Private Entities	339.04	93.63%	8.04%
	Public Entities	23.06	6.37%	
	Total	**362.10**	**100.00%**	
Cross-Border Import	ZAMBIA (MBALA - 66kV)	20.00	0.44%	1.49%
	UGANDA (MASAKA - 132kV)	36.00	0.80%	
	UGANDA (KIKAGATI PLANT-33kV)	7.00	0.16%	
	KENYA (ISINYA-400kV)	4.00	0.09%	
	Total	**67.00**	**301.49%**	
Total	TANESCO	3,834.44	85.12%	100.00%
	Large Power Producer - Private Entities (≥10MW)	189.00	4.20%	
	Small Power Producer - Private Entities ((>0.1MW & ≤10MW &)	49.79	1.11%	
	Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW)	2.77	0.06%	
	Own-Use	361.53	8.03%	
	Cross-Border Import	67.00	1.49%	
	Total	**4,504.54**	**100.00%**	

Annex 11: Installed Capacity by Fuel Source, including Cross-Border imports (MW)

DESCRIPTION	FUEL TYPE AND CROSS-BORDER IMPORTS	CAPACITY (MW)	CONTRIBUTION (%)	
Main Grid for Sale	Hydro	2,722.00	68.10%	88.73%
	Natural Gas	1,140.72	28.54%	
	GO/HFO/DO	103.05	2.58%	
	Biomass	18.90	0.47%	
	Wind	2.40	0.06%	
	Solar	10.00	0.25%	
	Coal	-	0.00%	
	Total	**3,997.07**	**100.00%**	
Off-Grid for Sale	Hydro	-	0.00%	1.74%
	Natural Gas	57.90	73.89%	
	GO/HFO/DO	18.26	23.30%	
	Biomass	-	0.00%	
	Wind	-	0.00%	
	Solar	2.21	2.81%	
	Coal	-	0.00%	
	Total	**78.37**	**100.00%**	
Own-Use	Hydro	-	0.00%	8.04%
	Natural Gas	85.96	23.74%	
	GO/HFO/DO	138.42	38.23%	
	Biomass	92.09	25.43%	
	Wind	-	0.00%	
	Solar	0.23	0.06%	
	Coal	45.40	12.54%	
	Total	**362.10**	**100.00%**	
Cross-Border Import	ZAMBIA (MBALA - 66kV)	20.00	5.52%	1.49%
	UGANDA (MASAKA - 132kV)	36.00	9.94%	
	UGANDA (KIKAGATI PLANT-33kV)	7.00	1.93%	
	KENYA (ISINYA-400kV)	4.00	1.10%	
	Total	**67.00**	**131.10%**	
Total	Hydro	2,722.00	60.43%	100.00%
	Natural Gas	1,284.58	28.52%	
	GO/HFO/DO	259.73	5.77%	
	Biomass	110.99	2.46%	
	Wind	2.40	0.05%	
	Solar	12.44	0.28%	
	Coal	45.40	1.01%	
	Cross-Boarder	67.00	1.49%	
	Total	**4,504.54**	**100.00%**	

Annex 12: Installed Capacity Of Tanesco Power Plants (MW)

A. Hydro Power Plant

S/N	INSTALLED CAPACITY - TANESCO HYDRO POWER PLANTS	CAPACITY
1	Uwemba Hydro Power Plant	0.84
2	Nyumba ya Mungu Hydro Power Plant	8.00
3	Hale Hydro Power Plant	21.00
4	Rusumo Hydro Power Plant	26.67
5	New Pangani Falls Hydro Power Plant	68.00
6	Mtera Hydro Power Plant	80.00
7	Kihansi Hydro Power Plant	180.00
8	Kidatu Hydro Power Plant	204.00
9	Julius Nyerere Hydro Power Plant	2,115.00
	Total	**2,703.51**

B. Gas Power Plant

S/N	INSTALLED CAPACITY - TANESCO GAS POWER PLANTS	CAPACITY
1	Somanga Gas Plant	7.50
2	Mtwara II Gas Power Plant	20.00
3	Mtwara I Gas Power Plant	30.40
4	Tegeta Gas Power Plant	45.00
5	Ubungo Gas Power Plant-3	92.50
6	Ubungo Gas Power Plant-1	102.00
7	Ubungo Gas Power Plant-2	129.00
8	Kinyerezi Gas Power Plant-2	248.22
9	Kinyerezi Gas Power Plant-1 (Extention)	335.00
	Total	**1,009.62**

C. Diesel Power Plant

S/N	INSTALLED CAPACITY - TANESCO DIESEL POWER PLANTS	CAPACITY
1	Liwale Diesel Power Plant	0.85
2	Mbinga Diesel Power Plant	1.00
3	Loliondo Diesel Power Plant	1.00
4	Tunduru Diesel Power Plant	1.05
5	Ngara Diesel Power Plant	1.25
6	Ludewa Diesel Power Plant	1.27
7	Inyonga Diesel Power Plant	1.93
8	Kibondo Diesel Power Plant	2.50
9	Bukoba Thermal Power Plant	2.56
10	Biharamulo Thermal Power Plant	2.72
11	Mafia Diesel Power Plant	3.20
12	Kasulu Diesel Power Plant	4.55
13	Sumbawanga Diesel Power Plant	5.00
14	Songea Diesel Power Plant	5.74
15	ZUZU Diesel Power plant	7.44
16	Mpanda Diesel Power Plant	7.50
17	Kigoma Diesel Power Plant	8.75
18	Nyakato Diesel Power Plant	63.00
	Total	**121.31**

Annex 13: Installed Capacity Of Private Entities Generating Electricity For Own-Use (MW)

A. Diesel Power Plant

S/N	INSTALLED CAPACITY FOR OWN-USE PRIVATE ENTITIES - DIESEL POWER PLANTS	CAPACITY
1	Tembo	0.34
2	Nasra	0.80
3	Nyati Mineral Sands Ltd.	2.00
4	SBC Tanzania Ltd.	4.50
5	Stamigold Company Limited	7.00
6	Shanta Mine Co. Ltd	8.20
7	Tanga Cement Public Limited Company	11.48
8	North Mara Goldmine Ltd	18.00
9	Bulyanhulu Goldmine Ltd	39.10
10	Geita Gold Mining Ltd.	47.00
	Total	**138.42**

B. Biomass Power Plant

S/N	INSTALLED CAPACITY FOR OWN-USE PRIVATE ENTITIES - BIOMASS POWER PLANTS	CAPACITY
1	Tanganyika Wattle Co. Ltd	1.25
2	Kilombero Plantations Limited	1.69
3	Bagamoyo Sugar Limited	5.00
4	Mufindi Paper Mills Ltd	10.40
5	Tanganyika Plantation Co. Ltd.	11.00
6	Kilombero Sugar Company Limited	12.55
7	Mtibwa Sugar Estates Ltd	15.00
8	Kagera Sugar Ltd.	27.20
	Total	**84.09**

C. Gas Power Plant

S/N	INSTALLED CAPACITY FOR OWN-USE PRIVATE ENTITIES - GAS POWER PLANTS	CAPACITY
1	ALAF Limited	4.00
2	Tanzania Cigarette Public Ltd. Co.	4.70
3	Kioo Ltd	12.20
4	Dangote Cement Limited	50.00
	Total	**70.90**

D. Coal Power Plant

S/N	INSTALLED CAPACITY FOR OWN-USE PRIVATE ENTITIES - COAL POWER PLANTS	CAPACITY
1	Lake Cement Ltd.	15.40
2	Maweni Limestone Ltd.	30.00
	Total	**45.40**

E. Coal Power Plant

S/N	INSTALLED CAPACITY FOR OWN-USE PRIVATE ENTITIES - SOLAR POWER PLANTS	CAPACITY
1	Kiliflora	0.23
	Total	**0.23**

Annex 14: Installed Capacity Of Private Entities Generating Electricity For Sale (MW)

A. Gas Power Plant

S/N	INSTALLED CAPACITY FOR SALE - PRIVATE ENTITIES (GAS)	CAPACITY
1	SONGAS	189.00
	Total	**189.00**

B. Hydro Power Plant

S/N	INSTALLED CAPACITY FOR SALE - PRIVATE ENTITIES (HYDRO)	CAPACITY
1	Darakuta	-
2	Darakuta Hydro Power Development Co.Ltd	0.42
3	Matembwe	0.43
4	Matembwe Village Co.Ltd	0.59
5	Madope	0.70
6	Yovi Hydro Power Co.Ltd	0.95
7	Andoya Hydro Electric Power Co. Ltd	1.00
8	Luponde Hydro Limited	1.06
9	Madope Hydro Company Limited	1.84
10	Mwenga Hydro Ltd (Hydro)	4.00
11	Tulila Hydro Electric Plant Co. Ltd	7.50
	Total	**18.49**

C. Solar Power Plant

S/N	INSTALLED CAPACITY FOR SALE - PRIVATE ENTITIES (SOLAR)	CAPACITY
1	E.ON	0.03
2	Watu na Umeme	0.05
3	Ruaha	0.13
4	Powercorner	0.31
5	PowerHut	0.44
6	Jumeme	1.25
7	Nextgen Solawazi Limited	5.00
8	BXC Tanzania Ltd.	5.00
	Total	**12.21**

D. Biomass Power Plant

S/N	INSTALLED CAPACITY FOR SALE - PRIVATE ENTITIES (BIOMASS)	CAPACITY
1	Ngombeni Power Ltd.	1.40
2	Tanganyika Wattle Co. Ltd	1.50
3	Tanganyika Plantation Co. Ltd.	9.00
	Total	**11.90**

E. Wind Power Plant

S/N	INSTALLED CAPACITY FOR SALE - PRIVATE ENTITIES (WIND)	CAPACITY
1	Mwenga Hydro Ltd (Wind)	2.40
	Total	**2.40**

Annex 15: Energy Generated by Ownership Including Cross-Border Trade

ENERGY GENERATION BY OWNERSHIP			
DESCRIPTION	ENTITY DESCRIPTION AND CROSS BOARDER IMPORTS	ENERGY (GWh)	CONTRIBUTION (%)
Main Grid for Sale	TANESCO	12,168.14	97.23%
	Large Power Producer - Private Entities (≥10MW)	246.50	1.97%
	Small Power Producer - Private Entities ((>0.1MW & ≤10MW &)	99.91	0.80%
	Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW)	-	0.00%
	Total	**12,514.55**	**100.00%**
Off Grid for Sale	TANESCO	255.71	98.29%
	Large Power Producer - Private Entities (≥10MW)	-	0.00%
	Small Power Producer - Private Entities ((>0.1MW & ≤10MW &)	-	0.00%
	Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW)	4.44	1.71%
	Total	**260.15**	**100.00%**
Own-Use	Private Entities	858.38	98.38%
	Public Entities	14.14	1.62%
	Total	**872.51**	**100.00%**
Cross-Border Import	ZAMBIA (MBALA - 66kV)	71.67	0.51%
	UGANDA (MASAKA - 132kV)	145.48	1.04%
	UGANDA (KIKAGATI PLANT-33kV)	47.05	0.34%
	KENYA (ISINYA-400kV)	28.65	0.21%
	Total	**292.85**	**302.10%**
Total	TANESCO	12,423.85	89.12%
	Large Power Producer - Private Entities (≥10MW)	246.50	1.77%
	Small Power Producer - Private Entities ((>0.1MW & ≤10MW &)	99.91	0.72%
	Very Small Power Producer - Private Entities (≥0.15 MW& ≤0.1MW)	5.58	0.04%
	Own-Use	871.37	6.25%
	Cross-Border Import	292.85	2.10%
	Total	**13,940.06**	**100.00%**

Annex 16: Energy Generated By Energy Source Including Cross-Border Trade

ENERGY GENERATION BY ENERGY SOURCE

DESCRIPTION	FUEL TYPE AND CROSS-BORDER IMPORTS	ENERGY (GWh)	CONTRIBUTION (%)
Main Grid for Sale	Hydro	8,105.09	64.77%
	Natural Gas	4,340.59	34.68%
	GO/HFO/DO	30.46	0.24%
	Biomass	31.94	0.26%
	Wind	4.36	0.03%
	Solar	2.11	0.02%
	Coal	-	0.00%
	Total	**12,514.55**	**100.00%**
Off-Grid for Sale	Hydro	-	0.00%
	Natural Gas	206.06	79.21%
	GO/HFO/DO	49.65	19.09%
	Biomass	-	0.00%
	Wind	-	0.00%
	Solar	4.44	1.71%
	Coal	-	0.00%
	Total	**260.15**	**100.00%**
Own-Use	Hydro	-	0.00%
	Natural Gas	227.56	26.08%
	GO/HFO/DO	236.39	27.09%
	Biomass	169.66	19.44%
	Wind	-	0.00%
	Solar	0.46	0.05%
	Coal	238.44	27.33%
	Total	**872.51**	**100.00%**
Cross-Border Import	ZAMBIA (MBALA - 66kV)	71.67	8.21%
	UGANDA (MASAKA - 132kV)	145.48	16.67%
	UGANDA (KIKAGATI PLANT-33kV)	47.05	5.39%
	KENYA (ISINYA-400kV)	28.65	3.28%
	Total	**292.85**	**160.95%**
Total	Hydro	8,105.09	58.14%
	Natural Gas	4,774.20	34.25%
	GO/HFO/DO	316.50	2.27%
	Biomass	201.60	1.45%
	Wind	4.36	0.03%
	Solar	7.02	0.05%
	Coal	238.44	1.71%
	Cross-Boarder	292.85	2.10%
	Total	**13,940.06**	**100.00%**

Annex 17: Energy Generated by TANESCO Power Plants

A. Hydro Power Plant

S/N	GENERATED ENERGY - TANESCO HYDRO POWER PLANTS	ENERGY (GWh)
1	Hale Hydro Power Plant	-
2	Uwemba Hydro Power Plant	2.20
3	Nyumba ya Mungu Hydro Power Plant	56.02
4	Rusumo Hydro Power Plant	145.70
5	New Pangani Falls Hydro Power Plant	315.29
6	Mtera Hydro Power Plant	347.24
7	Kihansi Hydro Power Plant	766.52
8	Kidatu Hydro Power Plant	874.38
9	Julius Nyerere Hydro Power Plant	5,536.25
	Total	**8,043.59**

B. Gas Power Plant

S/N	GENERATED ENERGY - TANESCO GAS POWER PLANTS	ENERGY (GWh)
1	Somanga Gas Plant	11.46
2	Mtwara I Gas Power Plant	96.11
3	Mtwara II Gas Power Plant	98.49
4	Tegeta Gas Power Plant	195.02
5	Ubungo Gas Power Plant-1	393.28
6	Ubungo Gas Power Plant-3	486.16
7	Kinyerezi Gas Power Plant-1 (Extention)	735.16
8	Ubungo Gas Power Plant-2	802.65
9	Kinyerezi Gas Power Plant-2	1,481.81
	Total	**4,300.15**

C. Biomass Power Plant

	GENERATED ENERGY FOR OWN-USE PRIVATE ENTITIES - BIOMASS POWER PLANTS	ENERGY (GWh)
	Tanganyika Wattle Co. Ltd	0.00
	Bagamoyo Sugar Limited	0.00
	Kilombero Plantations Limited	4.91
	Kagera Sugar Ltd.	13.90
	Mtibwa Sugar Estates Ltd	25.53
	Kilombero Sugar Company Limited	36.45
	Mufindi Paper Mills Ltd	37.17
	Tanganyika Plantation Co. Ltd.	40.96
	Total	**158.92**

D. Diesel Power Plant

S/N	GENERATED ENERGY - TANESCO DIESEL POWER PLANTS	ENERGY (GWh)
1	Biharamulo Thermal Power Plant	-
2	Songea Diesel Power Plant	-
3	Liwale Diesel Power Plant	-
4	Tunduru Diesel Power Plant	-
5	Ludewa Diesel Power Plant	-
6	Mbinga Diesel Power Plant	-
7	Loliondo Diesel Power Plant	-
8	Ngara Diesel Power Plant	-
9	Kibondo Diesel Power Plant	-
10	ZUZU Diesel Power plant	0.02
11	Bukoba Thermal Power Plant	0.07
12	Sumbawanga Diesel Power Plant	0.17
13	Kasulu Diesel Power Plant	1.65
14	Inyonga Diesel Power Plant	3.70
15	Nyakato Diesel Power Plant	4.59
16	Mafia Diesel Power Plant	8.97
17	Kigoma Diesel Power Plant	20.50
18	Mpanda Diesel Power Plant	40.45
	Total	**80.11**

Annex 18: Energy Generated by Private Entities for Own-Use

A. Coal Power Plant

GENERATED ENERGY FOR OWN-USE PRIVATE ENTITIES - COAL POWER PLANTS	ENERGY (GWh)
Lake Cement Ltd.	0.02
Maweni Limestone Ltd.	238.43
Total	**238.44**

B. Diesel Power Plant

GENERATED ENERGY FOR OWN-USE PRIVATE ENTITIES - DIESEL POWER PLANTS	ENERGY (GWh)
North Mara Goldmine Ltd	0.38
Nyati Mineral Sands Ltd.	0.63
Tembo	0.67
Bulyanhulu Goldmine Ltd	0.83
Tanga Cement Public Limited Company	1.17
SBC Tanzania Ltd.	1.41
Nasra	1.61
Stamigold Company Limited	32.83
Shanta Mine Co. Ltd	38.46
Geita Gold Mining Ltd.	158.40
Total	**236.39**

C. Biomass Power Plant

GENERATED ENERGY FOR OWN-USE PRIVATE ENTITIES - BIOMASS POWER PLANTS	ENERGY (GWh)
Tanganyika Wattle Co. Ltd	0.00
Bagamoyo Sugar Limited	0.00
Kilombero Plantations Limited	4.91
Kagera Sugar Ltd.	13.90
Mtibwa Sugar Estates Ltd	25.53
Kilombero Sugar Company Limited	36.45
Mufindi Paper Mills Ltd	37.17
Tanganyika Plantation Co. Ltd.	40.96
Total	**158.92**

D. Gas Power Plant

GENERATED ENERGY FOR OWN-USE PRIVATE ENTITIES - GAS POWER PLANTS	ENERGY (GWh)
ALAF Limited	0.01
Tanzania Cigarette Public Ltd. Co.	0.01
Kioo Ltd	37.41
Dangote Cement Limited	186.74
Total	**224.16**

E. Solar Power Plant

GENERATED ENERGY FOR OWN-USE PRIVATE ENTITIES - SOLAR POWER PLANTS	ENERGY (GWh)
Kiliflora	0.46
Total	**0.46**

Annex 19: Energy Generated by Private Entities for Sale

A. Gas Power Plant

GENERATED ENERGY FOR SALE - PRIVATE ENTITIES (GAS)	ENERGY (GWh)
SONGAS	246.50
Total	**246.50**

B. Hydro Power Plant

GENERATED ENERGY FOR SALE - PRIVATE ENTITIES (HYDRO)	ENERGY (GWh)
Madope Hydro Company Limited	-
Matembwe Village Co.Ltd	-
Darakuta	-
Matembwe	0.87
Andoya Hydro Electric Power Co. Ltd	1.20
Madope	1.41
Darakuta Hydro Power Development Co.Ltd	1.88
Luponde Hydro Limited	2.82
Yovi Hydro Power Co.Ltd	4.42
Mwenga Hydro Ltd (Hydro)	19.52
Tulila Hydro Electric Plant Co. Ltd	29.38
Total	**61.49**

C. Biomass Power Plant

GENERATED ENERGY FOR SALE - PRIVATE ENTITIES (BIOMASS)	ENERGY (GWh)
Ngombeni Power Ltd.	-
Tanganyika Wattle Co. Ltd	2.14
Tanganyika Plantation Co. Ltd.	29.80
Total	**31.94**

D. Solar Power Plant

GENERATED ENERGY FOR SALE - PRIVATE ENTITIES (SOLAR)	ENERGY (GWh)
BXC Tanzania Ltd.	-
E.ON	0.06
Watu na Umeme	0.10
Ruaha	0.26
Powercorner	0.62
PowerHut	0.88
Nextgen Solawazi Limited	2.11
Jumeme	2.52
Total	**6.56**

E. Wind Power Plant

GENERATED ENERGY FOR SALE - PRIVATE ENTITIES (WIND)	ENERGY (GWh)
Mwenga Hydro Ltd (Wind)	4.36
Total	**4.36**

Annex 20: Power Plants Operation Performance Data

No.	Name Of Power Plant	Owner	Region	Fuel	Usage	Capacity (MW)	Grid	Availability (%)	Utilization (%)	Generated Energy (Gwh)	Duration (Years)	License No.	Date Of Issue	Date Of Expiry
1	Julius Nyerere Hydro Power Plant	TANESCO	Morogoro	Hydro	Sale	2,115.00	Main-Grid	95%	50%	5,536.25	20	EGL-2013-001	3/Jan/2013	28/Feb/2033
2	Kidatu Hydro Power Plant	TANESCO	Morogoro	Hydro	Sale	204.00	Main-Grid	71%	50%	874.38	20	EGL-2013-002	3/Jan/2013	28/Feb/2033
3	Kihansi Hydro Power Plant	TANESCO	Morogoro	Hydro	Sale	180.00	Main-Grid	88%	49%	766.52	20	EGL-2013-003	3/Jan/2013	28/Feb/2033
4	Mtera Hydro Power Plant	TANESCO	Iringa	Hydro	Sale	80.00	Main-Grid	83%	50%	347.24	20	EGL-2013-004	3/Jan/2013	28/Feb/2033
5	New Pangani Falls Hydro Power Plant	TANESCO	Tanga	Hydro	Sale	68.00	Main-Grid	82%	54%	315.29	20	EGL-2013-005	3/Jan/2013	28/Feb/2033
6	Rusumo Hydro Power Plant	TANESCO	Kagera	Hydro	Sale	26.67	Main-Grid	63%	63%	145.70	20	EGL-2013-006	3/Jan/2013	28/Feb/2033
7	Hale Hydro Power Plant	TANESCO	Tanga	Hydro	Sale	21.00	Main-Grid			-	20	EGL-2013-007	3/Jan/2013	28/Feb/2033
8	Nyumba ya Mungu Hydro Power Plant	TANESCO	Kilimanjaro	Hydro	Sale	8.00	Main-Grid	98%	82%	56.02	20	EGL-2013-008	3/Jan/2013	28/Feb/2033

9	Uwemba Hydro Power Plant	TANESCO	Njombe	Hydro	Sale	0.84	Main-Grid	64%	36%	2.20	20	EGL-2013-009	3/Jan/2013	28/Feb/2033
10	Ubungo Gas Power Plant-1	TANESCO	Dar es Salaam	Gas	Sale	102.00	Main-Grid	61%	44%	393.28	20	EGL-2013-010	3/Jan/2013	28/Feb/2033
11	Tegeta Gas Power Plant	TANESCO	Dar es Salaam	Gas	Sale	45.00	Main-Grid	72%	52%	195.02	20	EGL-2013-011	3/Jan/2013	28/Feb/2033
12	Ubungo Gas Power Plant-2	TANESCO	Dar es Salaam	Gas	Sale	129.00	Main-Grid	85%	73%	802.65	20	EGL-2013-012	3/Jan/2013	28/Feb/2033
13	Ubungo Gas Power Plant-3	TANESCO	Dar es Salaam	Gas	Sale	92.50	Main-Grid	91%	60%	486.16	20	EGL-2013-013	3/Jan/2013	28/Feb/2033
14	Kinyerezi Gas Power Plant-1 (Extention)	TANESCO	Dar es Salaam	Gas	Sale	335.00	Main-Grid	99%	25%	735.16	20	EGL-2013-014	3/Jan/2013	28/Feb/2033
15	Kinyerezi Gas Power Plant-2	TANESCO	Dar es Salaam	Gas	Sale	248.22	Main-Grid	85%	69%	1,481.81	20	EGL-2013-015	3/Jan/2013	28/Feb/2033
16	ZUZU Diesel Power plant	TANESCO	Dodoma	Diesel	Sale	7.44	Main-Grid	89%	0%	0.02	20	EGL-2013-016	3/Jan/2013	28/Feb/2033
17	Nyakato Diesel Power Plant	TANESCO	Mwanza	Diesel	Sale	63.00	Main-Grid	57%	1%	4.59	20	EGL-2013-017	3/Jan/2013	28/Feb/2033
18	Biharamulo Thermal Power Plant	TANESCO	Kagera	Diesel	Sale	2.72	Main-Grid	0%	0%	-	20	EGL-2013-018	3/Jan/2013	28/Feb/2033
19	Songea Diesel Power Plant	TANESCO	Ruvuma	Diesel	Sale	5.74	Main-Grid	0%	0%	-	20	EGL-2013-019	3/Jan/2013	28/Feb/2033
20	Liwale Diesel Power Plant	TANESCO	Lindi	Diesel	Sale	0.85	Main-	0%	0%	-	20	EGL-2013-020	3/Jan/2013	28/Feb/2033

							Grid							
21	Tunduru Diesel Power Plant	TANESCO	Ruvuma	Diesel	Sale	1.05	Main-Grid	0%	0%	-	20	EGL-2013-021	3/Jan/2013	28/Feb/2033
22	Ludewa Diesel Power Plant	TANESCO	Njombe	Diesel	Sale	1.27	Main-Grid	0%	0%	-	20	EGL-2013-022	3/Jan/2013	28/Feb/2033
23	Mbinga Diesel Power Plant	TANESCO	Ruvuma	Diesel	Sale	1.00	Main-Grid	0%	0%	-	20	EGL-2013-023	3/Jan/2013	28/Feb/2033
24	Loliondo Diesel Power Plant	TANESCO	Arusha	Diesel	Sale	1.00	Main-Grid	0%	0%	-	20	EGL-2013-024	3/Jan/2013	28/Feb/2033
25	Ngara Diesel Power Plant	TANESCO	Kagera	Diesel	Sale	1.25	Main-Grid	0%	0%	-	20	EGL-2013-025	3/Jan/2013	28/Feb/2033
26	Kasulu Diesel Power Plant	TANESCO	Kigoma	Diesel	Sale	4.55	Main-Grid	100%	5%	1.65	20	EGL-2013-026	3/Jan/2013	28/Feb/2033
27	Kibondo Diesel Power Plant	TANESCO	Kigoma	Diesel	Sale	2.50	Main-Grid	0%	0%	-	20	EGL-2013-027	3/Jan/2013	28/Feb/2033
28	Kigoma Diesel Power Plant	TANESCO	Kigoma	Diesel	Sale	8.75	Main-Grid	99%	27%	20.50	20	EGL-2013-028	3/Jan/2013	28/Feb/2033
29	Inyonga Diesel Power Plant	TANESCO	Katavi	Diesel	Sale	1.93	Main-Grid	91%	22%	3.70	20	EGL-2013-029	3/Jan/2013	28/Feb/2033
30	Mtwara I Gas Power Plant	TANESCO	Mtwara	Gas	Sale	30.40	Off-Grid	86%	45%	96.11	20	EGL-2013-030	3/Jan/2013	28/Feb/2033
31	Mtwara II Gas Power Plant	TANESCO	Mtwara	Gas	Sale	20.00	Off-Grid	86%	45%	98.49	20	EGL-2013-031	3/Jan/2013	28/Feb/2033
32	Somanga Gas Plant	TANESCO	Lindi	Gas	Sale	7.50	Off-Gri	58%		11.46	20	EGL-2013-032	3/Jan/2013	28/Feb/2033

							d							
33	Bukoba Thermal Power Plant	TANESCO	Kagera	Diesel	Sale	2.56	Off-Grid	100%	0%	0.07	20	EGL-2013-033	3/Jan/2013	28/Feb/2033
34	Mafia Diesel Power Plant	TANESCO	Coast	Diesel	Sale	3.20	Off-Grid	87%	32%	8.97	20	EGL-2013-034	3/Jan/2013	28/Feb/2033
35	Sumbawanga Diesel Power Plant	TANESCO	Rukwa	Diesel	Sale	5.00	Off-Grid	98%	0%	0.17	20	EGL-2013-035	3/Jan/2013	28/Feb/2033
36	Mpanda Diesel Power Plant	TANESCO	Katavi	Diesel	Sale	7.50	Off-Grid	99%	57%	40.45	20	EGL-2013-036	3/Jan/2013	28/Feb/2033
37	Songas	LPP	Dar es Salaam	Gas	Sale	189.00	Main-Grid	99%	18%	246.50	33		11/Oct/2001	10/Oct/2034
38	Tanganyika Plantation Co. Ltd.	SPP	Kilimanjaro	Biomass	Sale	9.00	Main-Grid	60%	24%	29.80	13	EGL-2012-005	18/Jun/2012	17/Jun/2025
39	Tanganyika Plantation Co. Ltd.	Own-Use	Kilimanjaro	Biomass	Own-Use	11.000	Main-Grid	60%	24%	40.959	13	EGL-2012-006	18/Jun/2012	17/Jun/2025
40	Tanganyika Wattle Co. Ltd.	SPP	Njombe	Biomass	Sale	1.50	Main-Grid	50%	35%	2.14	13	EGL-2012-005	18/Jun/2012	17/Jun/2025
41	Tanganyika Wattle Co. Ltd.	Own-Use	Njombe	Biomass	Own-Use	1.25	Main-Grid	50%	35%	0.00	13	EGL-2012-005	18/Jun/2012	17/Jun/2025
42	Mwenga Hydro Ltd (Hydro)	SPP	Iringa	Hydro	Sale	4.00	Main-Grid	83%	94%	19.52	15	EGL-2013-001	1/Mar/2013	28/Feb/2028
43	Tulila Hydro Electric Plant Co. Ltd.	SPP	Ruvuma	Hydro	Sale	7.50	Main-Grid	98%	75%	29.38	14	EGL-2016-001	3/Aug/2016	2/Aug/2030
44	Andoya Hydro Electric Power Co. Ltd	SPP	Ruvuma	Hydro	Sale	1.00	Main-Grid	80%	18%	1.20	15	EGL-2016-002	22/Aug/2016	21/Aug/2031

45	Ngombeni Power Ltd.	SPP	Coast	Biomass	Sale	1.40	Main-Grid			-	15	EGL-2016-003	7/Sep/2016	6/Sep/2031
46	Luponde Hydro Ltd.	SPP	Njombe	Hydro	Sale	1.06	Main-Grid	80%	31%	2.82	15	EGL-2020-001	30/Jun/2020	29/Jun/2035
47	Madope Hydro Co. Ltd.	SPP	Njombe	Hydro	Sale	1.84	Main-Grid			-	15	EGL-2020-002	30/Jun/2020	29/Jun/2035
48	Mwenga Hydro Ltd (Wind)	SPP	Iringa	Wind	Sale	2.40	Main-Grid	75%	94%	4.36	15	EGL-2020-003	29/Dec/2020	28/Dec/2035
49	Nextgen Solawazi Ltd.	SPP	Kigoma	Solar	Sale	5.00	Main-Grid	80%	5%	2.11	20	EGL–2021 - 002	31/May/2021	30/May/2041
50	Mkulazi Holding Co. Ltd.	SPP	Morogoro	Biomass	Sale	7.00	Main-Grid	100%	32%	-	5	EGL-2025-001	30/May/25	29/May/30
51	Mkulazi Holding Co. Ltd.	Own-Use	Morogoro	Biomass	Own-Use	8.000	Main-Grid	100%	32%	10.733	5	EGL-2025-001	30/May/25	29/May/30
52	BXC Tanzania Ltd.	SPP	Shinyanga	Solar	Sale	5.00	Main-Grid	80%		-	5	EGL-2025-002	27/Jun/25	26/Jun/30
53	Lake Cement Ltd.	Own-Use	Dar es Salaam	Coal	Own-Use	15.400	Main-Grid	62%	62%	0.018	15	BEGL-2016-001	29/Mar/16	28/Mar/31
54	Tanga Cement Public Ltd. Co.	Own-Use	Tanga	Diesel	Own-Use	11.480	Main-Grid	85%	1%	1.168	15	SEGL-2016-001	4/Oct/16	3/Oct/31
55	Kilombero Sugar Co. Ltd.	Own-Use	Morogoro	Biomass	Own-Use	12.552	Main-Grid	90%	34%	36.451	15	BEGL-2017-001	18/Apr/17	17/Apr/32
56	Shanta Mine Co. Ltd	Own-Use	Mbeya	Diesel	Own-	8.200	Main-	100%	60%	38.459	15	BEGL-2018-001	2/Feb/18	1/Feb/33

					Use		Grid							
57	Kilombero Plantations Ltd.	Own-Use	Morogoro	Biomass	Own-Use	1.692	Main-Grid	90%	34%	4.914	15	EGL-2018-001	30/Aug/18	29/Aug/33
58	Stamigold Co. Ltd.	Own-Use	Kagera	Diesel	Own-Use	7.000	Main-Grid	88%	60%	32.830	15	BEGL-2019-002	22/Mar/19	21/Mar/34
59	ALAF Ltd.	Own-Use	Dar es Salaam	Gas	Own-Use	4.000	Main-Grid	93%	35%	0.007	5	BEGL-2020-001	30/Jan/20	29/Jan/25
60	North Mara Goldmine Ltd	Own-Use	Mara	Diesel	Own-Use	18.000	Main-Grid	100%	12%	0.380	5	EGOWL-2020-001	27/Nov/20	26/Nov/25
61	Bulyanhulu Goldmine Ltd	Own-Use	Shinyanga	Diesel	Own-Use	39.100	Main-Grid	80%	4%	0.827	5	EGOWL-2020-002	27/Nov/20	26/Nov/25
62	Dangote Cement Ltd.	Own-Use	Mtwara	Gas	Own-Use	50.000	Main-Grid	90%	43%	186.735	5	EGOWL-2021-001	28/Jun/21	27/Jun/26
63	ZAMBIA (MBALA - 66kV)	Cross-Boarder	Rukwa	Cross-Boarder	Sale	20.000	Off-Grid	100%	100%	71.668	0			
64	UGANDA (MASAKA - 132kV)	Cross-Boarder	Kagera	Cross-Boarder	Sale	36.000	Off-Grid	100%	100%	145.483	0			
65	UGANDA (KIKAGATI PLANT-33kV)	Cross-Boarder	Kagera	Cross-Boarder	Sale	7.000	Off-Grid	100%	100%	47.048	0			
66	KENYA (ISINYA-400kV)	Cross-Boarder	Arusha	Cross-Boarder	Sale	4.000	Main-Grid	100%	100%	28.653	0			
67	Bagamoyo Sugar Ltd.	Own-Use	Coast	Biomass	Own-Use	5.000	Main-Grid	95%	32%	0.001	5	EGOWL-2022-001	9/Sep/22	8/Sep/27

68	Kagera Sugar Ltd.	Own-Use	Kagera	Biomass	Own-Use	27.200	Main-Grid	92%	6%	13.903	15	EGOWL-2022-003	18/Apr/17	17/Apr/32
69	Tanzania Cigarette Public Ltd. Co.	Own-Use	Dar es Salaam	Gas	Own-Use	4.700	Main-Grid	88%	22%	0.008	5	EGOWL-2024-001	1/Nov/24	31/Oct/29
70	Mufindi Paper Mills Ltd	Own-Use	Iringa	Biomass	Own-Use	10.400	Main-Grid	67%	58%	37.167	5	EGOWL-2024-002	29/Nov/24	28/Nov/29
71	Mtibwa Sugar Estates Ltd	Own-Use	Morogoro	Biomass	Own-Use	15.000	Main-Grid	73%	60%	25.529	5	EGOWL-2024-003	29/Nov/24	28/Nov/29
72	Kioo Ltd	Own-Use	Dar es Salaam	Gas	Own-Use	12.200	Main-Grid	93%	35%	37.405	5	EGOWL-2025-001	31/Jan/25	30/Jan/30
73	Gas Co. (T) Ltd (Lindi)	Own-Use	Lindi	Gas	Own-Use	10.700	Main-Grid	100%	12%	1.925	5	EGOWL-2025-002	31/Jan/25	30/Jan/30
74	Gas Co. (T) Ltd (Mtwara)	Own-Use	Mtwara	Gas	Own-Use	3.159	Main-Grid	100%	28%	1.275	5	EGOWL-2025-003	31/Jan/25	30/Jan/30
75	Nyati Mineral Sands Ltd.	Own-Use	Dar es Salaam	Diesel	Own-Use	2.000	Main-Grid	85%	4%	0.629	5	EGOWL-2025-005	28/Mar/25	27/Mar/30
76	SBC Tanzania Ltd.	Own-Use	Dar es Salaam	Diesel	Own-Use	4.500	Main-Grid	85%	4%	1.415	5	EGOWL-2025-004	27/Mar/25	26/Mar/30
77	Tanzania Petroleum Development Corporation	Own-Use	Dar es Salaam	Gas	Own-Use	1.200	Main-Grid	100%	12%	0.202	5	EGOWL-2025-005	30/May/25	29/May/30
78	Geita Gold Mining Ltd.	Own-Use	Geita	Diesel	Own-Use	47.000	Main-Grid	100%	59.67%	158.395	5	EGOWL-2025-006	27/Jun/25	26/Jun/30
79	Maweni Limestone Ltd.	Own-Use	Tanga	Coal	Own-	30.000	Main-	93%	92%	238.427	5	EGOWL-2025-007	27/Jun/25	26/Jun/30

					Use		Grid							
80	Yovi Hydro Power Co.Ltd	SPP	Morogoro	Hydro	Sale	0.95	Main-Grid	90%	54%	4.42	10	CRG - 2019 - 009	16/Apr/19	15/Apr/29
81	Darakuta Hydro Power Development Co.Ltd	SPP	Manyara	Hydro	Sale	0.42	Main-Grid	90%	68%	1.88	5	CRG – 2024 - 001	17/Apr/24	16/Apr/29
82	Matembwe Village Co.Ltd	SPP	Njombe	Hydro	Sale	0.59	Main-Grid			-	5	CRG – 2024 - 002	12/Jul/24	11/Jul/29
83	E.ON	VSPP	Arusha	Solar	Sale	0.03	Off-Grid	23%	23%	0.06	VARIOUS	VARIOUS	VARIUS	VARIUS
84	Watu na Umeme	VSPP	Dar es Salaam	Solar	Sale	0.05	Off-Grid	23%	23%	0.10	VARIOUS	VARIOUS	VARIUS	VARIUS
85	Ruaha	VSPP	Morogoro	Solar	Sale	0.13	Off-Grid	23%	23%	0.26	VARIOUS	VARIOUS	VARIUS	VARIUS
86	Kiliflora	VSPP	Arusha	Solar	Own-Use	0.23	Off-Grid	23%	23%	0.46	VARIOUS	VARIOUS	VARIUS	VARIUS
87	Powercorner	VSPP	Arusha	Solar	Sale	0.31	Off-Grid	23%	23%	0.62	VARIOUS	VARIOUS	VARIUS	VARIUS
88	Tembo	VSPP	Kagera	Diesel	Own-Use	0.34	Off-Grid	23%	23%	0.67	VARIOUS	VARIOUS	VARIUS	VARIUS
89	Matembwe	SPP	Njombe	Hydro	Sale	0.43	Main-Grid	23%	23%	0.87	VARIOUS	VARIOUS	VARIUS	VARIUS
90	PowerHut	VSPP	Dar es Salaam	Solar	Sale	0.44	Off-Grid	23%	23%	0.88	VARIOUS	VARIOUS	VARIUS	VARIUS
91	Madope	SPP	Njombe	Hydro	Sale	0.70	Main-Grid	23%	23%	1.41	VARIOUS	VARIOUS	VARIUS	VARIUS
92	Nasra	Own-Use	Dar es Salaam	Diesel	Own-Use	0.80	Off-Grid	23%	23%	1.61	VARIOUS	VARIOUS	VARIUS	VARIUS

93	Jumeme	VSPP	Mwanza	Solar	Sale	1.25	Off-Grid	23%	23%	2.52	VARIOUS	VARIOUS	VARIUS	VARIUS
	Total All					**4,504.54**				**13,940.06**				

Annex 21: Details of Transmission Line Infrastrucuture

S/N	Name of Transmission Line	Voltage Level (kV)	Outage Frequency (No.)	Outage Duration (Minutes)	Route (km)	Capacity (MW) = A	Peak Load Demand (MW) = B	Capacity Ratio (%) = C = (B/A) *100
1	400kV Iringa-Dodoma 1	400	0	0	225	329	198	60%
2	400kV Dodoma-Singida 1	400	0	0	164	411	188.8	46%
3	400kV Singida-Shinyanga 1	400	0	0	282	274	111.17	41%
4	400kV Singida-Lemugur	400	0	0	300	1000	149.35	15%
5	400kV Lemugur -Isinya	400	0	0	114	1000	152.5	15%
6	400kV JNHPP -New CH1	400	0	0	159.75	1247.04	475.85	38%
7	400kv-Nyakanazi-Kidahwe	400	0	0	280			
8	220kV Ubungo-Luguruni	220	0	0	15	274	195.3	71%
9	220kV Ubungo-Kinyerezi	220	1	26	15	274	208	76%
10	220kV Luguruni-New Chalinze	220	0	0	62	274	231.07	84%
11	220kV Kinyerezi-New Chalinze	220	0	0	95	274	207.44	76%
12	220kV Morogoro-New Chalinze 1	220	0	0	89	274	222.17	81%
13	220kV Morogoro-New Chalinze 2	220	0	0	89	274	227.38	83%
14	220kV Morogoro-Kidatu 1	220	0	0	128	274	187	68%
15	220kV Morogoro-Kidatu 2	220	0	0	130	274	187	68%
16	220kV Kidatu-Iringa	220	0	0	160	274	229.6	84%
17	220kV Kidatu-Ifakara	220	0	0	116	274	136	50%
18	220kV Ifakara-Kihansi	220	1	66	64	274	130	47%
19	220kV Kihansi-Iringa	220	0	0	95.23	274	223.4	82%
20	220kV Iringa-Mufindi	220	0	0	130	154	142.5	93%
21	220kV Iringa-Mtera	220	0	0	107	206	109	53%
22	220kV Mtera-Dodoma	220	0	0	130	206	133	65%
23	220kV Dodoma-Singida old	220	0	0	210	206	129.6	63%
24	220kV Singida/Shinyanga old	220	0	0	200	206	124.8	61%
25	220kV Shinyanga-Mwanza	220	0	0	140	200	150	75%
26	220kV Shinyanga-Bulyanhulu	220	0	0	129.46	136	136.58	100%
27	220kV Mufindi-Makambako	220	0	0	38.9	154	125.9	82%
28	220kV Makabako-Madaba	220	0	0	110	109	31.8	29%
29	220kV Makambako-Mbeya	220	0	0	181.1	109	89.6	82%
30	220kV Madaba-Songea	220	0	0	140	109	19.29	18%
31	220kV Singida-Babati	220	0	0	150	206	48.6	24%
32	220kV Babati-Lemugur	220	0	0	146	206	23	11%
33	220kV Lemugur-Njiro	220	0	0	16	154	96.34	63%
34	220kV Shinyanga-Buzwagi	220	0	0	108	57	19.14	34%
35	220kV-Bulyanhuru-Geita	220	0	0	55	301.8	95.04	31%
36	220kV-Geita-Nyakanazi	220	1	6	143.16	329.2	34.21	10%
37	220kV-Nyakanazi-Rusumo	220	0	0	94.1	342.9	26.01	8%
38	220kv-SGR Dar - Moro	220	0	0	159	274	189	69%
39	220kv-SGR Moro-Dodoma	220	0	0	415	274	229	84%
40	132kV Ubungo-New Chalinze	132	2	29	87	133.75	109.42	82%
41	132kV New Chalinze/Old Chalinze	132	0	0	5	164	175.1	107%
42	132kV Morogoro-Chalinze	132	0	0	82	82.3	44	53%
43	132kV Chalinze-Hale	132	0	0	175	133.75	129	96%
44	132kV Ilala-Jangwani(OHL)	132	0	0	1.3	123.46	49.18	40%
45	132kV Jangwani-NCC(UNDERGROUND)	132	0	0	1.8	113	49.18	44%
46	132kV Ilala-Kurasini	132	0	0	7.1	200	86	43%
47	132kV Ubungo-Ilala 1ST	132	0	0	9.5	205.76	90	44%

48	132kV Ubungo-Ilala 2ND	132	0	0	9.5	205.76	90	44%
49	132kV Ubungo-Kunduchi 1ST	132	0	0	12	92.59	86	93%
50	132kV Ubungo-Kunduchi 2ND	132	0	0	12	150	117	78%
51	132kV Ubungo-Makumbusho	132	0	0	7	133.75	88	66%
52	132kV Kunduchi-Zanzibar 1	132	0	0	64	41.15	38.7	94%
53	132kV Kunduchi-Zanzibar 2	132	0	0	63.6	102.88	88	86%
54	132kV Mwanza-Musoma	132	3	14	210	82.3	60.2	73%
55	132kV Musoma-Nyamongo	132	0	0	90	41.15	34	83%
56	132kV Shinyanga-Tabora	132	5	222	203	30.86	31.8	103%
57	132kV Kiyungi-Kia 1ST	132	0	0	35	90.54	18.05	20%
58	132kV Kiyungi-Kia 2ND	132	0	0	35	90.54	19.12	21%
59	132kV Kia-Njiro 1ST	132	0	0	36.6	90.54	20	22%
60	132kV Kia-Njiro 2ND	132	0	0	35	90.54	25	28%
61	132kV Makumbusho-NCC	132	0	0	6.67	154	0	0%
62	132kV Gongo la Mboto-Kinyerezi	132	0	0	3	155	163.43	105%
63	132kV Ubungo-Kipawa	132	0	0	11	197.73	101	51%
64	132kV Kipawa-Mbagala	132	0	0	7.4	98.77	0	0%
65	132kV-Mbagala-Gongolamboto	132	0	0	16.2	98.77	121.83	123%
66	132kV-Mbagala-Dege	132	0	0	28	98.77	87.56	89%
67	132kV-Dege-Kurasini	132	0	0	22	98.77	43.7	44%
68	132kV Rhino-Tanga	132	0	0	8.5	61.73	18.86	31%
69	132kV Hale-Rhino	132	0	0	60	61.73	37.49	61%
70	132kV Pangani-Tanga	132	1	23	63.5	61.73	45.22	73%
71	132kV Hale-NPF	132	0	0	13.5	61.73	20	32%
72	132kV Kyaka-Bukoba	132	0	0	54	41.15	9.3	23%
73	132kV Hale-Kiyungi	132	0	0	275	98.77	50.39	51%
74	132kV Mtwara-Mahumbika	132	0	0	80	65.84	16	24%
75	132kV-Mtukula-Kyaka	132	0	0	30	49.38	18.9855	38%
76	132kV Tabora-Urambo	132	0	0	115	41.98	8.6	20%
77	132kV Tabora-Ipole	132	0	0	102	41.98	2.4	6%
78	132kV Ipole-Inyonga	132	0	0	133	41.98	2.8	7%
79	132kV Inyonga/Mpanda	132	0	0	125			
80	66kV Kiyungi-Nyumba ya Mungu	66	1	7	53	10	7.5	75%
81	66kV Kiyungi-Arusha	66	0	0	78	10	0	0%
82	66kV Kiyungi-Makuyuni	66	0	0	34	20	14.76	74%
83	66kV Babati-Kondoa	66	1	5	85	15	13.9	93%
84	66kV Babati-Mbulu	66	0	0	85	34	15.5	46%
85	66kV Mbulu-Karatu	66	0	0	65	15	9.81	65%
86	66KV Bunda-Kibara	66	0	0	60	15	5	33%
87	66kV-Mbala-Sumbawanga	66	0	0	123	30	17.49	58%
	Total				8,303.87			

Annex 22: Transmission Line Projects

S/N	Project Name	Voltage level (kV)	Length (km) = A	Progress (%)
1	Nyakanazi Rusumo	220	94	100%
2	SGR Lot 2-1 Morogoro to Ihumwa Dodoma	220	240	100%
3	SGR Lot 2-2 Ihumwa Dodoma to Kintinku	220	176	100%
4	SGR Lot 5 Mwanza to Isaka	220	230	2%
5	220kv transmission line from pugu to dundani	220	51	13%
6	160km, 400kV TL from JNHPP to Chalinze	400	160	100%
7	132kV Transmission line from Mkata to Kilindi Lot 1.	132	144	30.9%
8	132kV Transmission line from Bunda to Ukerewe 98.6km	132	98.6	26%
9	220kV transmission system from Geita -Nyakanazi and associated rural electrification project; Lot A	220	144	100%
10	220kV Benaco - Kyaka Transmission Line and Associated Substations in Kagera Region, Tanzania	220	166	0%
11	Tanzania - Zambia Transmission Interconnector Project (TAZA); Lot 1: Iringa - Kisada 400kV, 106km Transmission Line.	400	106	60.4%
12	Tanzania - Zambia Transmission Interconnector Project (TAZA); Lot 2: Kisada - Mbeya 400kV, 185km Transmission Line.	400	185	66.0%
13	Tanzania - Zambia Transmission Interconnector Project (TAZA); Lot 3: Mbeya - Tunduma 400kV, 122km Transmission Line.	400	122	61.8%
14	Tanzania - Zambia Transmission Interconnector Project (TAZA); Lot 4: Tunduma - Sumbawanga 400kV, 203km Transmission Line.	400	203	77.1%
15	Procurement of plant design, supply, installation, testing and commissioning of the 132kV evacuation transmission line from Malagarasi Hydro site to kidahwe	132	54	99.90%
16	220kV Transmission Line from Shinyanga to Simiyu	220	110	47%
17	400kV Nyakanazi -Kigoma Transmission Line Project	400	277	99%
18	TANESCO Transmission Grid Rehabilitation and Upgrade Project (TTGRUP) for the Rehabilitation and Upgrade of Optical Fiber Ground Wire (OPGW). **Lot-1:** Kondoa-Babati-Mbulu-Karatu OPGW – 235 km	66	235	100.00%
19	TANESCO Transmission Grid Rehabilitation and Upgrade Project (TTGRUP) for the Rehabilitation and Upgrade of Optical Fiber Ground Wire (OPGW). **Lot-2:** Shinyanga-Mabuki-Mwanza-Bunda-Musoma OPGW – 370 km	220	370	100%
20	TANESCO Transmission Grid Rehabilitation and Upgrade Project (TTGRUP) for the Rehabilitation and Upgrade of Optical Fiber Ground Wire (OPGW). **Lot-3:** Shinyanga-Nzega-Tabora OPGW - 203 km	132	203	100.00%
21	TANESCO Transmission Grid Rehabilitation and Upgrade Project (TTGRUP) for the Rehabilitation and Upgrade of Optical Fiber Ground Wire (OPGW). **Lot-4:** Iringa-Mufindi-Makambako-Mbeya OPGW – 357 km	220	357	100.00%
22	132kV Transmission line from Tabora to Katavi (383km)	132	383	98%
23	132kV Transmission line from Tabora to Kigoma (395)	132	395	36.16%
24	132kv Ilala-Kurasini underground transmission line	132	6.8	100%
25	220kV Transmission line from Songea to Tunduru (214.5km) Lot 1.	220	215	50.60%
26	220kV Transmission line from Tunduru to Masasi (177km) Lot 1.	220	177	3.00%
27	220kV Ubungo-Ununio (PA/001/2022-2023/HQ/W/44) LOT 1	220	18	31.22%
28	Kasiga Lushoto	132	37	14.69%
29	132kV Transmission line from Kiyungi to ROMBO	132	61	13.83%
30	220kV Transmission Line From Kinyerezi-Mabibo-Ilala	220	16.5	25.62%
	Total		5,034.63	

Annex 23: Substation Projects

S/N	Project Name	Capacity (MVA)	Progress (%)
1	LOT 2: 2x90MVA 220/33kV New Substation in Simiyu.	180	5.00%
2	Construction of Substation 132/33kV,2X60MVA at Kilindi- Lot 2	120	35.90%
3	Contract NO. PA/001/2022-2023/HQ/W/28 For engineering Design ,Supply ,Installation , Testing and Commission of 220kV Transmission line and Establisment of 220kV ,2x 120MVA Substation at Zegereni Industrial Area.	240	2.50%
4	ENGINEERING DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF 220kV TRANSMISSION LINE FROM PUGU TO DUNDANI AND ASSOCIATED SUBSTATION AT DUNDANI-LOT 2	240	10.75%
5	ENGINEERING DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF ADDITIONAL OF 120MVA, 132/33kV TRANSFORMER AT DEGE SUBSTATION	180	50.00%
6	Upgrade & Extension of SCADA-EMS System and Active Telecommunication Equipment	0	69.00%
7	Rehabilitation and upgrade of Eight (8) Grid Connected Substations- LOT 1: Mlandizi(NEW TO 132kV 120MVA) Same(132kV 5MVA TO 132kV 20MVA) and Bukoba(132kV 20MVA TO 132kV 135MVA) substations	275	81.00%
8	Rehabilitation and upgrade of Eight (8) Grid Connected Substations- LOT 2: Mbeya(220kV 150MVA TO 220kV 240MVA) Tabora(132kV 40MVA TO 132kV 140MVA) and Mufindi(220kV 70MVA) substations	230	80.00%
9	Rehabilitation and upgrade of Eight (8) Grid Connected Substations- LOT 3: Musoma(132kV 30MVA TO 132kv 120MVA) and Mwanza(220kV 180MVA)substations	120	67.00%
10	Construction of 400/132/33kV Kidahwe Substation and Extension of Nyakanazi substation	240	20.30%
11	Construction of 220kV substations at Songea and Tunduru (220/33kV,2 * 60MVA Tunduru substation and 220kV Bay extension at Songea substation Lot 2.	120	40.00%
12	Construction of 220kV substations at Tunduru and Masasi (220/33kV,2 * 60MVA at Masasi substation and 220kV Bay extension at Tunduru substation.	120	3.00%
13	Construction of 132kV substations at Ipole - 132/33kV, 1 * 15MVA, Inyonga - 132/33kV, 1 * 15MVA and Mpanda - 132/33kV, 1 * 35MVA and 132kV Line Bay extension at Tabora substation.	65	99.90%
14	Construction of 132kV substations at Urambo - 132/33kV, 1 * 35MVA and Nguruka - 132/33kV, 1 * 15MVA and 132kV Line Bay extension at Tabora substation.	50	99.90%
15	Supply, Installation, Testing and Commissioning 132kv transmission line from Kasiga Substation to Lushoto and installation of 132/33KV, 2X30MVA Substation at Lushoto –Tanga LOT 1 and 2	60	13.00%
16	Engineering Design, Supply, Installation, Testing and Commissioning of 33kV Switching Station at Msigani	0	100.00%
17	Engineering Design, Supply, Installation, Testing and Commissioning of Underline Substation 132/33kV, 2x60MVA at Mkata-Tanga region. (Lot 1- TBEA)	120	12.00%
18	Engineering design, supply, installation, testing and commissioning of 132kV Transmission line from Kiyungi to ROMBO and Associated Substation at Kiyungi Bay Extension and NEW Substation at ROMBO	90	12.56%
19	Engineering Design,Supply, Installation, Testing and Commissioning of 132/33kV, 2x45MVA substation at Ukerewe substation and bays expansion at Bunda substation under Lot 2	90	31.50%
20	Engineering Design, Supply, Installation, Testing and Commissioning Of 220kV Transmission Line from Mabibo-Ilala and Upgrading of Ubungo Substation with 220/132/33kV, 1*300MVA and new GIS 2*200MVA 220/132/33kV and 2*90MVA 132/33kV at Mabibo Lot 2.	880	65.48%
21	220kV Ubungo-Ununio (PA/001/2022-2023/HQ/W/44) LOT 2 UNUNIO SUBSTATION	240	2.00%
22	supply, installation, and commissioning of 90/120MVA, 220/33kV transformer complete with switchgear at Bulyanhulu substation lot 2.	120	100.00%
23	Contract No. PA/001/2021-22/HQ/G/40 For supply, installation and commissioning of ADDITIONAL 45MVA, 132/33KV Transformer complete with switchgear at Nyamongo Substation lot 4	45	100.00%
24	Contract No. PA/001/2021-22/HQ/G/40 For supply, installation and commissioning of additional 60/90MVA, 220/33KV Transformer complete with switchgear at Makambako Substation lot 1	90	100.00%
25	Contract No. PA/001/2021-2022/HQ/G/113 Supply, Installation and Commissioning of 60/90MVA, 220/132/33kV Transformer at Njiro Substation.	90	100.00%
26	Contract No. PA/001/2021-22/HQ/G/40 For supply of 45MVA, 132/33kV at Majani Mapana Tanga to relieve overloaded transformers.	55	50.00%
27	Contract No. PA/001/2022-23/HQ/G/22 For Supply and installation of additional Transformers complete with switchgears at Kange substation LOT 1	20	100.00%
28	Contract No. PA/001/2022-23/HQ/G/22 For Supply and installation of additional Transformers complete with switchgears at Mbulu substation LOT 2	20	65.00%
29	Tanzania - Zambia Transmission Interconnector Project (TAZA); Lot 1: Iringa & Kisada 400/220/33kV Substation	250	31.70%
30	Tanzania - Zambia Transmission Interconnector Project (TAZA); Lot 2: Iganjo (Mbeya) & Nkangamo (Tunduma) 400/220/33kV Substation	250	31.15%
31	Tanzania - Zambia Transmission Interconnector Project (TAZA); Lot 3: Malangali (Sumbawanga) 400/220/66/33kV Substation	150	32.66%
32	Tanzania - Zambia Transmission Interconnector Project (TAZA); Lot 4: Tunduma 400/330kV Auto-transformation switchgear and 4km spur from Tunduma to Nakonde (constructed at 400kV, but energized at 330kV)	350	28.34%
33	CONTRACT NO: KETRACO/PT/017/2014 - PA/001/2015/HQ/W/49 - LOT T6-1, FOR PROCUREMENT OF PLANT, DESIGN, SUPPLY AND INSTALLATION OF ONE NEW 400/220/33kV SUBSTATION IN SHINYANGA AND ADDITIONAL WORKS IN SINGIDA, IMPLEMENTED UNDER BACKBONE TRANSMISSION INVESTMENT PROJECT (BTIP)	880	36.90%
	Total	5,980.00	

Annex 24: 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

S/N	Name of Developer	Capacity (MW)	Energy Source	Location	Approval Date	Tentative COD
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
34	Rukwa Generating Co. Ltd	0.95	Hydro	Sumbawanga, Rukwa	16-Aug-22	16-Aug-25
35	Bwelui Co. Ltd.	4.70	Hydro	Ileje, 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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[i] Accessible at https://www.ewura.go.tz/wp-content/uploads/2023/07/Licenced-Eletricity-Service-Providers-June-2023.pdf
[ii] Accessible through https://eris.ewura.go.tz/portal/users/contractors.html.
[iii] Accessible at https://www.ewura.go.tz/electricity-regulatory-tools/.

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