

COUNTRY REPORT OF TANZANIA
Job Report
Participant NO 5.

Name: Deusdedit Msanze

Position: Energy Engineer

Organization: Ministry of Energy

Country: Tanzania

20th June, 2022

1. Outline of Tanzania



- Area: 945087 km²
- Population: 56 million
- Language: Swahili, English
- GDP: \$ 57 billion
- Main industry: Manufacturing (Agro Processing), Mining (minerals – gold, tanzanite, diamond, natural gas)



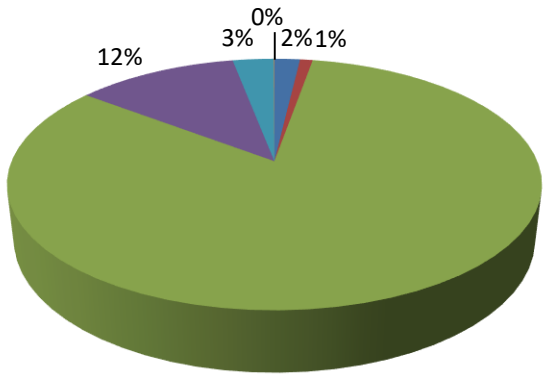
2.0 Electricity Charge \$/kWh

- \$ 0.043: domestic low use
 - \$ 0.15: Domestic Normal use
 - \$0.08 : Commercial use
 - \$0.07: Industrial use
 - One bottle of Coca-Cola (360mL) : \$ 0.43

3. Energy circumstance in Tanzania

3-1 Proportion of primary energy

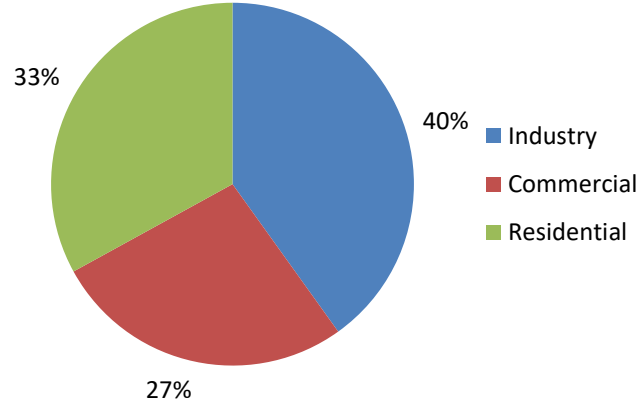
■ Coal ■ Hydro ■ Biofuels and waste ■ Oil ■ Natural gas ■ Wind, solar, etc.



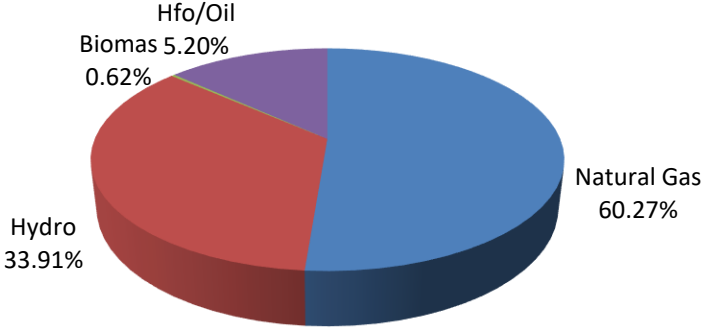
1,602.3

3-2 Energy self-sufficiency rate: 100%

2-3 Sector-based final energy consumption



3-4 Electric Power Supply by Sources



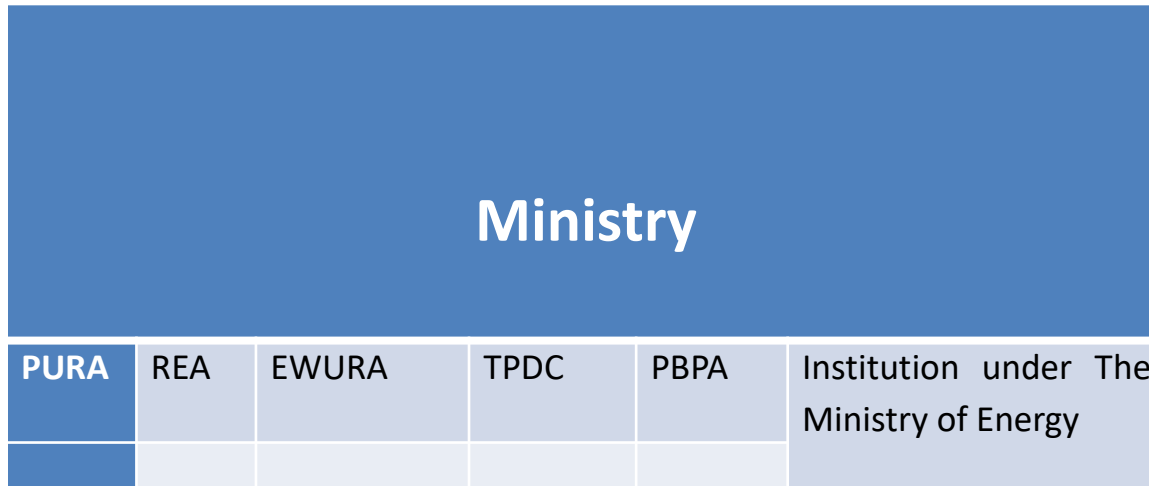
Total
1,733.38MW

3-5 Electrification rate: 37.7%

4.0 Nation Mission & Vision On Energy Sector in Tanzania

- ❑ National Energy Policy of 2015 advocates for the development of Non-renewable and renewable energy sources.
- ❑ Legislation has been enacted to foster greater private sector participation in the power sector.
- ❑ It emphasizes Independent Power Producer (IPP) such as Jumeme and Powecorner.
- ❑ Rural Energy Agency Act 2005 introduced to manage and finance distribution of electricity in Rural Areas so as to increase access of modern energy use through projects that are in phases of REA I, II and III.

5.0 Ministry of Energy Organization structure



Key:

PURA-Petroleum Upstream Regulatory Authority

REA-Rural Energy Agency

EWURA-Energy and Water Utility Regulatory Authority

TPDC-Tanzania Petroleum Corporation

PBPA-Petroleum Bulk Procurement Agency

6. Functions of the Ministry & my job

6-1. Outline of Parent organization/Department

- MINISTRY OF ENERGY is the primary Energy adviser to cabinet and government

6-2. My main job

Position: Energy Engineer

Department: Electricity and Renewable (Electricity Section)

- My functions are:-
 - i. Coordinating & Supervising the Implementation of the Energy Policy;
 - ii. Evaluating of the viability of the proposed energy projects;
 - iii. Compiling of Annual Energy Review Reports; and
 - iv. Providing awareness on accessibility of modern energy to rural and remote areas.

7. My theme when participating in the course

7-1. My Theme

“ Emphasizing the use of electricity so as to reduce environmental destruction”

7-2 What I need to learn in this program

Techniques used to formulate Energy Policies that are relevant to the need of the society

8 Electricity Access in Tanzania

- i. Tanzania mainland has access rate of **78.4 percent** while rural areas access **69.8 percent**
- ii. The Government has a target to reach universal access by 2022 through grid extension and mini grid improvement on islands.
- iii. Out of 26 regions of Tanzania mainland, 3 regions are not connected to the National Grid and are planned to be connected to the Grid before the year 2024.
- iv. Those regions and islands have mini grids of different resources for electricity supply including PV systems.
- v. The population increase results to emerge of new villages that require accessibility of modern energy/electricity.
- vi. That bring a need of government on amend its Regulations, standard and acts so as to provide a conducive environments for electricity supply to remote areas through private investors.

Impact of COVID-19 on Energy Demand and Supply

- In Tanzania Energy Demand and Supply during outbreak of COVID-19 was not much decreased because production and other business went on as usual while taking precautions according to the instructions of Ministry of Health.