

NORTH WEST GRID PROJECTS

North West Grid Projects constitute four Projects (packages) which are;

- i. 220kV Geita – Nyakanazi Transmission Line (144km) and Associated Rural Electrification
- ii. Regional Rusumo Hydropower Project – 220kV Transmission Line component for Tanzania (Rusumo – Nyakanazi 98.2km)
- iii. 220kV Masaka – Mwanza Transmission System
- iv. North West Grid: 400kV Mbeya – Sumbawanga– Katavi– Kigoma – Nyakanazi (1148km)

All these projects are implemented for the aim of expanding the National Grid Network by connecting the North West part. As the North West part has many generation sources, these transmission lines aim also on injecting power from the sources to the National grid.

i. 220kV Geita – Nyakanazi Transmission Line (144km) and Associated Rural Electrification

The Ministry of Energy and Minerals through Tanzania Electric Company Limited (TANESCO) has decided to connect Geita and Kagera regions to the national grid by installation of 220kv transmission line (TL) from Geita to Nyakanazi (144km) and associated substations at Geita (Extension of Existing substation) and Nyakanazi (New Substation). The Project is intended for funding by the German Financial Cooperation (KfW Development Bank) in collaboration with AFD (Agence Francaise de De'veloppement) under the Mutual Reliance Initiative (MRI) with KfW as a lead financier. An additional rural electrification component along the 220kv line and South – West of Nyakanazi Substation has been agreed upon and appraised, and is funded by the EU – Africa Infrastructure Trust Fund (EU – AITF) through KfW.

On a larger perspective, the project will result in the construction of a robust transmission system component in the North – Western area of Tanzania, which will allow Power trade with among the Great Lake Countries as intended by NELSAP, EAPP and Others.

Rural Electrification has two Clusters (Geita and Nyakanazi) and is covering thirty two (32) areas to be electrified.

ii. Regional Rusumo Hydropower Project – 220kV Transmission Line Component for Tanzania (Rusumo – Nyakanazi 98.2km)

This Transmission line can be termed as the main backbone of the interconnection with East Africa. It will be transmitting 26MW from Rusumo Hydropower Plant. The project is funded by African Development Bank (AfDB).

iii. 220kV Masaka – Mwanza Transmission System Project

The proposed 220kV Masaka west to Mwanza Transmission line will interconnect Uganda and Tanzania power grids. This will allow sharing and optimizing the utilization of electric power energy in the region. The long term goal is to interconnect, monitor and control the East African Member States' power systems so that electric power can flow from one member state to another and boost up economic growth in the region.

iv. **North West Grid: 400kV Mbeya – Sumbawanga – Katavi – Kigoma – Nyakanazi (1148km)**

An overall electrification plan for Western Tanzania and the surrounding regions has been developed to explore the possibilities, both in the short term and long term based on which a decision has been made on the optimum development cost for the region and surrounding countries.

The project includes connecting 8 district headquarters of which 3 are regional headquarters, to the national grid.

Further, the transmission line will provide a ring feeder to the national grid and possibly connect the grid to the neighboring countries for both export and import of electric power. It will also be used for transmission of electric power from the planned generations including Malagarasi Hydropower Plant, Geothermal Power Plant in Mbeya area and Coal Power Plant in Sumbawanga area.

Apart from transmission line, the project also includes six substations to be constructed during the implementation which are; Mbeya substation, Tunduma substation, Sumbawanga substation, Mpanda substation, Kigoma substation and Nyakanazi substation.

Below is the Sketch showing the North West Grid Projects Routes

