

NEW POWER PROJECTS FOR FINANCING

TRANSMISSION PROJECTS

S/NO	PROJECT NAME	PROJECT DESCRIPTION	FINANCIER/ ESTIMATED COST	STATUS
1	Proposed 400kV Chalinze to Dodoma transmission line. This is one among the BRN projects which is in line with the Government 2025 Vision.	<ul style="list-style-type: none"> • This project will comprise 350km of transmission line with associated substations. • It will enhance evacuation of power from Dar es Salaam where power plants are located to central part of the country. • It will be linked by the Backbone transmission line which is the interconnector for Zambia-Tanzania and Kenya. • It will enhance security and reliability of supply 	<ul style="list-style-type: none"> • Estimated cost is 217MUSD but the actual cost will be established after feasibility study. • Financing not yet secured 	<ul style="list-style-type: none"> • Environmental Impact Assessment Certificate (EIA) has been issued by NEMC. • Contract negotiation between TANESCO and M/S SMEC for Consultancy Services has been held. Consultancy services is expected to be completed in year 2016. • The Consultant will produce Full Feasibility Study for the Project and thereafter the accurate cost will be known.
2	Proposed 400kV Mtwara to Somanga Transmission Line	<ul style="list-style-type: none"> • This project will comprise 253km of transmission line from Mtwara to Somangafungu. • It will enhance evacuation of power from the proposed Mtwara power plant to Somanga and link the South Regions to the National Grid System. 	<ul style="list-style-type: none"> • Estimated cost is USD 231,074,238 but the actual cost will be established after feasibility study. • Financing not yet secured 	<ul style="list-style-type: none"> • 2015 Pre-feasibility study is available
3	Proposed 400kV North West Grid Transmission Line and is one among the BRN projects which is in line with the Government 2025 Vision.	<ul style="list-style-type: none"> • This project will comprise 1148km of Transmission Line with associated Substations. • It will enhance grid connection to North West of Tanzania and decommission expensive liquid fuel power plants at Mpanda, Kigoma, Ngara and Biharamulo. • This project will be done in phases. 	<ul style="list-style-type: none"> • Total Estimated Cost is 664 MUSD. • Project financing has not firmed-up. 	<ul style="list-style-type: none"> • Contract for upgrading the feasibility study from 220kV to 400kV by SWECO is under preparation. • Line route surveying and Demarcation of way-leave is 100% completed and acquisition of land for Mbeya substation is completed. • Demarcation of way-leave for Mbeya – Sumbawanga is completed.

		Phase I from Mbeya – Sumbawanga 340km; Phase II from Nyakanazi – Kigoma – Mpanda 568km and Phase III from Sumbawanga – Mpanda 240km.		<ul style="list-style-type: none"> • Properties for compensation at new s/s plot in Mbeya has been valued. Estimated completion for phase I is 35months & estimated cost is 222MUSD. • ESIA study for Phase II and III is ongoing. • After completion of feasibility study for 400kV, financing is needed for implementation of the project.
4	Proposed 220KV Kyaka – Nyakanazi Transmission Line	<ul style="list-style-type: none"> • This project will comprise 232km of Transmission Line with terminal substations at Kyaka and Nyakanazi. • This transmission line will connect two power plants (Kakono and Rusumo). • This project will stabilize power in Bukoba and North West Regions. 	<ul style="list-style-type: none"> • Estimated Cost of the project is 92.6MUSD that covers both transmission line, Substation, ESIA and Engineering. • Financing not yet secured 	<ul style="list-style-type: none"> • 2015 Pre-feasibility study is available. • Financing is needed to carry out full feasibility study and finally implementation of the project
5	400kV Mtwara – Mozambique Interconnection transmission Line	Tanzania and Mozambique have entered into a MoU to build a transmission line from Mtwara in Tanzania to Northern Mozambique so as these two countries can exchange power. The project will be of 400kV transmission line from Mtwara in Tanzania and Namialo in Mozambique or other substation to be identified by the Feasibility Study. This is a green field project.	<ul style="list-style-type: none"> • Estimated cost for feasibility study is USD 2,000,000 and finally implementation cost will be determined by the feasibility study. 	<ul style="list-style-type: none"> • Full feasibility study for the Tanzania Mozambique Interconnector project and preparation of tender document is required.
6	Portion of 220kV Masaka – Mwanza Interconnection transmission line	<p>This project formally comprised of the following;-</p> <ul style="list-style-type: none"> • 640km of transmission line; 558km on Tanzania side and 82km on Uganda side. 	<ul style="list-style-type: none"> • Estimated cost for Geita – Mabuki 134km is 40 MUSD and that from Kyaka – Nyakanazi 	<ul style="list-style-type: none"> • Feasibility study is of 2011. • Signing of Contract with Project implementation Consultant for 220kV Geita – Nyakanazi is in progress • Project implementation Consultant for

		<ul style="list-style-type: none"> • Extension of Masaka 220/132/33kV, Kyaka 220/132kV and Mabuki 220/33kV substations. • Construction of new Geita 220/33kV substation. 	232km is 92.6 MUSD	<p>Geita – Nyakanazi is underway to start pre-design work and preparation of Tender docs.</p> <ul style="list-style-type: none"> • Portion of transmission line remained is from Geita – Mabuki 134km and from Kyaka – Nyakanazi 232km
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GENERATION PROJECTS

1	Proposed 358MW Ruhudji hydropower project and transmission line.	<ul style="list-style-type: none"> • Ruhudji HPP is a high head scheme, 765m head, 358 MW underground power station, (4 x 89.5 MW Pelton). • This project will add capacity of hydropower in the National grid. • The transmission line is 170 km 400kV single circuit from Ruhudji HPP to backbone substation at Kisada (National Grid System) 	<ul style="list-style-type: none"> • Estimated Cost for power plant is US\$ 407.4M and that of Transmission line is US\$ 53.2M. • Financing not yet secured 	<ul style="list-style-type: none"> • Feasibility study and ESIA for power plant completed in 1998 therefore need update while that of transmission line was completed in 2014 • Water use permit application have been initiated.
2	Proposed 45MW Malagarasi hydropower project	<ul style="list-style-type: none"> • This project will add 45MW hydropower to system. • The project will be implemented at the Malagarasi River Kigoma-Region. 	<ul style="list-style-type: none"> • Estimated Cost is 150.2 MUSD • Financing not yet secured 	<ul style="list-style-type: none"> • Still in the process of financing arrangements. • The Feasibility study is of September, 2011.
3	Proposed 222MW Rumakali Hydropower Project and transmission line	<ul style="list-style-type: none"> • Rumakali HPP is a high head scheme, 1294.5m head, 222 MW underground power station (3 x 74 MW Pelton). • Transmission line is 150 km long from Rumakali to Mbeya, 400kV single circuit. 	<ul style="list-style-type: none"> • Cost of HPP estimated to US\$ 344M and US\$ 44.22M for transmission line. • Financing not yet secured 	<ul style="list-style-type: none"> • Application for water use permit has been done. • Procurement of transaction advisor to package the project through International competitive bidding under PPP arrangement is in progress. • Preparations for high flow measurement in progress • The Feasibility study is of 1998
4	Proposed 87MW Kakono Hydro Power Project	<ul style="list-style-type: none"> • Engineering, Procurement, Installation and Commissioning of 87MW hydro power plant. 	<ul style="list-style-type: none"> • Estimated Cost is 379.4 MUSD • Financing not yet secured 	<ul style="list-style-type: none"> • Feasibility Study completed in 2014
5	Extension of Upper Kihansi Hydro Power Plant	<ul style="list-style-type: none"> • Kihansi hydropower plant is located 	<ul style="list-style-type: none"> • Estimated cost for the extension will 	<ul style="list-style-type: none"> • The study for the existing 180 MW is available. Further, reconnaissance

		<p>along the Udzungwa escarpment about 200km by road South West of Kidatu Power Plant.</p> <ul style="list-style-type: none"> • TANESCO owns 100% the existing lower Kihansi 180MW and intends to add 2x60MW generating units and a big water storage dam to increase installed capacity of the power plant to 300MW in total. • TANESCO desires to the implementation of the Project to improve the power supply condition in Tanzania and create an opportunity for bilateral electricity trade with neighboring countries 	<p>be determined after feasibility study.</p>	<p>study for upgrading the plant to 300MW conducted by TANESCO experts is also available.</p>
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Obtaining of financing on these projects will

- Increasing power evacuation capacity to the country;
- Improving voltage level, reliability and security of power supply
- Stimulating socio-economic activities in the country including tourism.
- Accelerate rural electrification in the region
- Extend the national grid to the isolated regions and replacing expensive imported liquid fuel power plants
- Facilitate regional power trade with neighbouring Countries