

NEW & ON-GOING POWER PROJECTS TO BE IMPLEMENTED UP TO 2017

SN	PROJECT NAME	PROJECT DESCRIPTION	SOURCE OF FUNDING	ESTIMATE D PROJECT COST	STATUS	EXPECTED ONLINE DATE
1.	Kinyerezi I – Extension 185MW gas fired power plant	The project involves construction of 185MW simple cycle gas fired at Kinyerezi being extension of 150MW Kinyerezi I.	Government funding	USD 185m	GoT has secured financing for the construction of the project	2019
	Kinyerezi II – 240MW gas fired power plant	The project involves construction of 240MW combined cycle gas fired power plant at Kinyerezi	GoT - 15% JBIC – 85% Contractor: Sumitomo Corporation	USD 344million	Under construction	2018
	Mtwara 300MW Gas Turbine Combined Power Plant (GTCC)	The Government through MoFP submitted official request to Japan International Cooperation Agency (JICA) for concessional loan to develop 300MW Gas Turbine Combined Power Plant (GTCC at Mtwara and construction of 400kV transmission line from Mtwara to Somanga Fungu. JICA in response to the Government request, they plan to conduct full	JICA		Reconnaissance study was done from July – October, 2016. Feasibility Study on progress	2021

		feasibility study from July, 2017 and will take one year. Reconnaissance study was done from July – October, 2016.				
	Kinyerezi III – 600MW gas fired power plant	The project involves construction of 300MW simple cycle gas fired power plant for phase I at Kinyerezi and later 300MW combined cycle in phase II to make a total of 600MW under PPP arrangement	China Power Investment (CPI)	USD 401million	JV Company formed; Feasibility study is under review	2020
	Ruhudji – 358MW hydro power project	The project involves construction of 358MW hydro power plant on Ruhudji River South-East of Njombe Town in Njombe Region and construction of 170 km 400kV single circuit transmission line (TL) from Ruhudji HPP to backbone substation at Kisada.	Financing not yet secured	Estimated Cost for power plant is US\$ 407.4M and US\$ 53.2M for transmission line	• Feasibility study for power plant need to be updated as the available one is of 1998. • Procurement of transaction advisor is on progress	2022
	Kinyerezi IV – 330MW gas fired power plant	The project involves construction of 330MW combined cycle gas fired power plant at Kinyerezi under PPP arrangement	Poly Technology Inc. of China	USD 400million.	Feasibility study is under review	2020
	Somanga Fungu	The project involves	Kilwa Energy	USD 365.6	Investor	2018

	320MW Gas Fired Power Plant	construction of 210MW simple cycle gas fired power plant for phase I at Somanga - Kilwa and later 110MW combined cycle in phase II to make a total of 320MW	- IPP	Million	working with banks to achieve financial closure	
	Rumakali – 222MW hydro power project	The project involves construction of 222MW hydro power plant on Rumakali River West of Njombe Town and construction of 150 km 400kV single circuit transmission line (TL) from Rumakali HPP to Mbeya	Financing not yet secured	Cost of HPP estimated to US\$ 344M and US\$ 44.22M for transmission line.	Feasibility study completed in 1998 and therefore need to be updated	2022
	87MW Kakono hydropower plant	The project involves Engineering, Procurement, Installation and Commissioning 87MW Kakono hydropower plant which will be developed at Kakono River in Kagera Region and construction of 132kV, 38.8km transmission line to evacuate power to Kyaka substation	African Development Bank(AfDB) has booked in their portfolio to co-finance with French Development Agency(AFD)	Estimated cost USD 379.4million	Feasibility Study completed. Solicitation of financing in progress	2021
	250-350MW Somanga gas fired power plant	The project involve construction of 250MW combined cycle gas fired power plant at Somanga -	Financing not yet secured but WB financed	Project cost will be confirmed after	Pre-feasibility study has been completed. Procurement of	2018

		Kilwa under PPP arrangement	procurement of TA to package the project	feasibility study	Transaction Advisor to package the project is in the final stage	
	Ngaka 200MW coal fired plant	The project involves construction of 200MW coal fired power plant and the transmission line from Ngaka to Makambako	Financing not yet firmed	Project cost will be confirmed after feasibility study	Evaluation of expression of interest for consultancy service is done	2019
	Kiwira 200MW coal fired plant	The project involves construction of 200MW coal fired power plant	STAMICO	Estimated cost is USD 430million	Procurement of developing partner	2019
	Mchuchuma 300MW coal fired plant	The project involves construction of 300MW coal fired power plant and the transmission line from Mchuchuma to Makambako	Financing not yet secured	Estimated cost USD 645.75million	Feasibility study for power plant need to be updated. Procurement of transaction advisor is on progress	2020
	Ngozi 200MW geothermal plant	This project involves development of 600MW geothermal plant at Ngozi, Mbeya. Construction is in two phases; 200MW for Phase I and 400MW for Phase II and construction of 220kV T/L of 18km from Ngozi - Mwakibete Mbeya S/S.	Financing not yet secured	Estimated cost for phase I: USD 821million	Feasibility study is on progress	May, 2021

	50MW Kisiaki Geothermal	This project involves development of 50MW geothermal plant and utilize heat in the brine for direct uses at Kisiaki, Morogoro and construction of 220kV T/L of 100km from Kisiaki - Kidatu, Morogoro.	Financing not yet secured	Estimated cost: USD 293million	Project Concept submitted	May, 2021
	50MW Luhoi, Rufiji Geothermal	This project involves development of 50MW geothermal plant and utilize heat in the brine for direct uses at Luhoi, Rufiji and construction of 220kV T/L of 18km from Luhoi - Kibiti.	Financing not yet secured	Estimated cost: USD 266million	Project Concept submitted	May, 2021
	45MW Malagarasi hydropower plant	The project involves Engineering, Procurement, Installation and Commissioning of 45MW Malagarasi hydropower plant which will be implemented at the Malagarasi River Kigoma-Region.	Not yet secured African Development Bank(AfDB) has booked in their portfolio to co-finance with French Development Agency(AFD)	Estimated cost: USD 149.5million	Feasibility Study completed. Solicitation of financing in progress	2020
	400kV Iringa – Shinyanga transmission project (Backbone)	The project involves construction of 657km of 400kV Transmission Line, upgrade of	IDA, AfDB, JICA, EIB and Korea EDCF	USD 470 Million	Construction of T/L is 84% completed and that of	March 2017

		substations at Iringa, Dodoma, Singida and Shinyanga and implementation of rural electrification along the T/L			substation is 67% completed	
	400kV North East Grid	The project involves construction of 400kV, 682 km of Transmission Line from Kinyerezi to Arusha via Chalinze and Segera with associated Substation. The project also involves construction of 220kV T/Ls from Kibaha to Bagamoyo and from Segera to Tanga	GoT - 15% Exim Bank of China – 85 % Contractor: TBEA	USD 692.7million	GoT is soliciting funds for financing the 15% of the contract value of the project	2017
	220kV Makambako – Songea transmission line	The project involves construction of 250 km of 220kV Transmission Line, construction of new 220/33kV substation at Madaba and Songea, upgrade of Makambako substation, construction of 33kV, 900 km of distribution lines and connection of 2,270 new customers in 120 villages in Ruvuma and Njombe Regions	SIDA & GoT	USD 111.4million	Distribution component 20% completed	2017
	400kV North West Grid Mbeya –	The project involves construction of 1,148km	African Development	Total Estimated	Solicitation of funds for	2018

	Sumbawanga – Mpanda – Kigoma - Nyakanazi	of transmission lines and associated substations as an extension of national grid to North-Western part of the country from Mbeya to Nyakanazi via Sumbawanga, Mpanda and Kigoma. The proposed project will enhance grid connection to North West of Tanzania and decommission expensive liquid fuel power plants at Mpanda, Kigoma, Ngara, Biharamulo, Sumbawanga, Kasulu and Kibondo. This project will be done in phases. Phase I from Mbeya – Sumbawanga 340km; Phase II from Nyakanazi – Kigoma – Mpanda 568km and Phase III from Sumbawanga – Mpanda 240km.	Bank(AfDB) has booked in their portfolio to co-finance with French Development Agency(AFD)	Cost is 664 MUSD.	construction	
	400 kV Singida-Arusha transmission line	The project involves construction of 400kV, 414.4km of transmission line from Singida to Arusha (Tanzania - Kenya Interconnector) and construction of 400/220kV Singida & Arusha Substations	AfDB, JICA	USD 258.82 million	Valuation of properties for compensation has started	2018

	400 kV Chalinze-Dodoma transmission line	The project involves construction of 400kV, double circuit 350km of transmission line from Chalinze to Dodoma and rural electrification along the line	Financing not firmed	Estimated USD 175 million	Procurement of Consultant for feasibility study is in progress	2018
	220 kV Bulyanhulu-Geita transmission line	The project involves construction of 55 km of 220kV transmission line from Bulyanhulu to Geita, extension of Bulyanhulu substation, construction of new substation at Geita and construction of 33kV lines 115km for electrification of 15 villages in Geita District	Arab Bank for Economic Development in Africa (BADEA), OFID & GoT	USD 30million	Contract signing with Consultant for project supervision is underway	2017
	220kV T/L Geita – Nyakanazi transmission Line	The project involves construction of 144 km of 220kV transmission line from Geita to Nyakanazi and implementation of rural electrification along the line	KfW, AFD, EU & GoT	Euro 29million & TZS 5billion	Contract signing with Consultant for project supervision is underway	2017
	400kV T/L Mtwara – Somanga, 253km	The project will comprise construction of 253km of transmission line from Mtwara to Somanga Fungu. It will enhance evacuation of power	Financing not yet secured	USD 231.1m, the actual cost will be established after feasibility	Pre-feasibility completed in May, 2015. Full feasibility is needed.	2020

		from the proposed Mtwara power plant to Somanga and link the South Regions to the National Grid System.		study.		
	Project for Reinforcement of Power Distribution in Dar es salaam Region	The project aims on improvement of power supply for the City of Dar es Salaam. The project involves construction of the 33/11kV Distribution Control Centre (DCC), construction of New City Centre (NCC) Substation with 2 x 50 MVA transformers and erection of 132kV underground cable from Ilala - New City Centre	Government of Finland	Euro 21.8 million and USD 1.5 million	Construction 80% completed	December, 2015
	Project for Reinforcement of Power Distribution in Dar es salaam Region	The project involves rehabilitation of 132/33/11kV Ilala substation, construction of new Control building at Ilala, stringing of 132kV second circuit from Ubungo – Ilala, upgrade of Msasani 33/11kV and construction of three	JICA	Japanese Yen 4.41 Billion equivalent to USD 38 Million	Contract signing with Consultant for project supervision is underway	2017

		15MVA, 33/11kV each at Jangwani Beach, Mwananyamala, and Muhimbili				
	90MW Rusumo Falls Hydropower project – 220kV Transmission Line Component	This is a shared power project between Tanzania, Rwanda and Burundi. It involves construction of 90MW hydropower. Each country will construct its T/L 220kV from the power plant and will take 27MW. The length of transmission line on Tanzania side from Rusumo to Nyakanazi is 98.2km.	World Bank, AfDB and GoT	USD 340 Million for power plant and USD 35 million for T/L	Procurement of Supervision Consultant for T/L has been finalized while for power plant is on progress. Acquisition of way leave corridor for Rusumo – Nyakanazi 220kV TL is also in progress.	2021
	220kV Masaka - Mwanza Transmission Line	This project will comprise 640km of Transmission line from Masaka (Uganda) to Mwanza - Mabuku S/S (Tanzania). The aim of this project is to strengthen security of supply, connecting of off grid part in North	Financing not yet secured	Estimated cost for Tanzania Part is USD 279.275Million	Part of the T/L is under development i.e. Geita - Nyakanazi - Rusumo. KfW has shown interest to facilitate upgrade of	2018

		West Tanzania and facilitate interconnection and trade among EAC.			the feasibility study. MoU between two countries is underway to be signed.	
	400kV Somanga-Kinyerezi	The project will comprise construction of 198km of transmission line from Somanga Fungu to Kinyerezi. It will enhance evacuation of power from the proposed Somanga fungu power plant to Dar es Salaam and link the South Regions to the National Grid System.	World Bank	Estimated cost is USD 150 million	Compensation payment in progress.	2018
	Dodoma Solar PV 60MW	60 MW solar photovoltaic (PV) plant	TANESCO	Project cost will be confirmed after feasibility study	TANESCO proceeding with the process of land acquisition	2018
	Proposed 400kV Chalinze to Dodoma transmission line.	This project will comprise 350km of transmission line with associated substations.	Financing not yet secured	Estimated cost is 217MUSD but the	Environmental Impact Assessment Certificate	2019

	This is one among the BRN projects which is in line with the Government 2025 Vision.	• 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		actual cost will be established after feasibility study.	(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.	
	Proposed 400kV Mtwara to Somanga Transmission Line	• This project will comprise 253km of transmission line from Mtwara to Somanga fungu. • It will enhance evacuation of power from the proposed	Financing not yet secured	• Estimate d cost is USD 231,074,238 but the actual cost will be established	• 2015 Pre-feasibility study is available	2021

		Mtwara power plant to Somanga and link the South Regions to the National Grid System.		after feasibility study.		
	Proposed 400kV North West Grid Transmission Line and is one among the BRN projects which is in line with the Government 2025 Vision.	• 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. Phase I from Mbeya – Sumbawanga 340km; Phase II from Nyakanazi – Kigoma – Mpanda 568km and Phase III from Sumbawanga – Mpanda 240km.	Project financing has not firmed-up.	• Total Estimated Cost is 664 MUSD.	• 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. • Properties for compensation at new s/s plot in Mbeya has been valuated.	

					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.	
	Proposed 220KV Kyaka –Nyakanazi Transmission Line	• 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.	Financing not yet secured	• Estimated Cost of the project is 92.6MUSD that covers both transmission line, Substation, ESIA and Engineering .	• 2015 Pre-feasibility study is available. • Financing is needed to carry out full feasibility study and finally implementation of the project	
44.	400kV Mtwara – Mozambique Interconnection	Tanzania and Mozambique have entered into a MoU to	Financing not yet secured	• Estimated cost for feasibility	• Full feasibility study for the	

	transmission Line	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.		study is USD 2,000,000 and finally implementation cost will be determined by the feasibility study.	Tanzania Mozambique Interconnector project and preparation of tender document is required.	
45.	Portion of 220kV Masaka – Mwanza Interconnection transmission line	This project formally comprised of the following:- • 640km of transmission line; 558km on Tanzania side and 82km on Uganda side. • Extension of Masaka 220/132/33kV, Kyaka 220/132kV and Mabuki 220/33kV substations. • Construction of new Geita 220/33kV substation.	Financing not yet secured	• Estimated cost for Geita – Mabuki 134km is 40 MUSD and that from Kyaka – Nyakanazi 232km is 92.6 MUSD	• Feasibility study is of 2011. • Signing of Contract with Project implementation Consultant for 220kV Geita – Nyakanazi is in progress • Project implementation Consultant for Geita – Nyakanazi is underway to start pre-design work and preparation of	

					Tender docs. • Portion of transmission line remained is from Geita – Mabuki 134km and from Kyaka – Nyakanazi 232km	
46.	Extension of Upper Kihansi Hydro Power Plant	• Kihansi hydropower plant is located along the Udzungwa escarpment about 200km by road South West of Kidatu Power Plant. • 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	Financing not yet secured	• Estimated cost for the extension will be determined after feasibility study.	• The study for the existing 180 MW is available. Further, reconnaissance study for upgrading the plant to 300MW conducted by TANESCO experts is also available.	

		electricity trade with neighboring countries				
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