



## UPDATE ON THE STATUS OF DEMAND AND SUPPLY IN EACH MEMBER COUNTRY AS AT SEPTEMBER 2018

### a) Tanzania Demand Supply Balance

Year	Available Capacity - MW	Demand - MW	Balance - MW	Reserve Margin
2018	1309.4	1061.0	248.4	19%
2019	1604.6	1156.0	448.6	28%
2020	1604.6	1234.0	370.6	23%
2021	1604.6	1308.0	296.6	18%
2022	1629.5	1394.0	235.5	14%
2023	2994.2	1490.0	1504.2	50%
2024	4237.2	1594.3	2642.9	62%
2025	4237.2	1705.9	2531.3	60%
2026	4237.2	1825.3	2411.9	57%
2027	4237.2	1953.1	2284.1	54%
2028	4237.2	2089.8	2147.4	51%
2029	4237.2	2236.1	2001.1	47%
2030	4237.2	2392.6	1844.6	44%

<sup>1</sup> Projected Demand from 2018 to 2023 are based on Final Cost of Service (CoSS) Study, dated 15<sup>th</sup> December 2018  
Annual GDP Growth Rate 7% as per CoSS Report

### Assumptions:

Projected Maximum Demand figures from 2018 to 2023 are from the final Cost of Service Study Report, dated 15<sup>th</sup> December, 2018 which are based on the GDP growth rate of 7%. This growth is maintained until 2030.

Available capacity are based on projections of installed capacity in the Cost of Service Study report and assumes the current availability for each technology and the additional capacity as follows:

- Kinyerezi 1 GPP Extension of 185MW will be completed in 2019;
- Rusumo 27MW Hydro Power Plant will be completed in 2022;
- Rufiji HPP Phase 1 (1048MW), Malagarasi HPP (45MW), Kakono HPP (87MW) and Somanga Fungu GPP (300MW) will be completed in 2023;
- Mtwara GPP (300MW) and Rufiji HPP Phase 2 (1048MW) will be completed in 2024

The installed capacity by 2024 is maintained until year 2030.

#### **b) Uganda Demand Supply Balance**

<b>Year</b>	<b>Available Capacity - MW</b>	<b>Demand - MW</b>	<b>Balance - MW</b>	<b>Reserve Margin</b>
2018	689	675	14	2.0%
2019	1,034	722	311	30.1%
2020	1,487	773	714	48.0%
2021	1,542	827	715	46.4%
2022	1,681	885	796	47.4%
2023	1,699	947	752	44.3%
2024	1,983	1,013	970	48.9%
2025	2,573	1,084	1,489	57.9%
2026	2,591	1,160	1,431	55.2%
2027	2,609	1,241	1,368	52.4%
2028	2,609	1,328	1,281	49.1%
2029	2,609	1,421	1,188	45.5%
2030	2,609	1,520	1,088	41.7%

### c) Kenya Demand Supply Balance

Year	Available Capacity - MW	Demand - MW	Balance - MW	Reserve Margin
2018	2712	1866	846	31.2%
2019	2870	1978	892	31.1%
2020	3079	2103	976	31.7%
2021	3032	2234	798	26.3%
2022	3321	2421	900	27.1%
2023	3624	2586	1038	28.6%
2024	4900	2764	2136	43.6%
2025	4900	2989	1911	39.0%
2026	4900	3234	1666	34.0%
2027	4900	3441	1459	29.8%
2028	4900	3720	1180	24.1%
2029	4900	3974	926	18.9%
2030	4900	4244	656	13.4%

### d) Zanzibar Demand Supply Balance

Year	Available Capacity - MW	Demand - MW	Balance - MW	Reserve Margin
2018	107.0	77.52	29.48	28%
2019	116.2	82.95	33.25	29%
2020	129.7	88.75	40.95	32%
2021	139.7	94.96	44.73	32%
2022	147.7	101.61	46.09	31%
2023	155.7	108.73	46.97	30%
2024	157.5	116.34	41.16	26%
2025	165.0	124.48	40.52	25%
2026	165.0	133.20	31.81	19%
2027	165.0	142.52	22.48	14%

<b>Year</b>	<b>Available Capacity - MW</b>	<b>Demand - MW</b>	<b>Balance - MW</b>	<b>Reserve Margin</b>
2028	165.0	152.49	12.51	8%
2029	167.5	163.17	4.33	3%
2030	167.5	174.59	-7.09	-4%

#### **e) Rwanda Demand Supply Balance**

The demand and supply forecast was in the consultation and approval process. Therefore, as soon as it will be approved, it will be shared for use and publication

#### **f) Burundi Demand Supply Balance**

Burundi did not provide demand and supply balance

# 1 Regional Demand and Supply Balance

Year	Kenya			Uganda			Tanzania			Zanzibar			EREA Region		
	Avaialble SS (MW)	Demand (MW)	Balance (MW)	Avaialble SS (MW)	Demand (MW)	Balance (MW)	Avaialble SS (MW)	Demand (MW)	Balance (MW)	Avaialble SS (MW)	Demand (MW)	Balance (MW)	Avaialble SS (MW)	Demand (MW)	Balance (MW)
2018	2609	1866	743	689	675	14	1,309	1,061	248	107	77.52	29.48	4,714	3,709	1,005
2019	2767	1978	789	1,034	722	311	1,605	1,156	449	116.2	82.9464	33.2536	5,521	3,972	1,549
2020	3079	2103	976	1,487	773	714	1,605	1,234	371	129.7	88.7526	40.9474	6,300	4,240	2,060
2021	3032	2234	798	1,542	827	715	1,605	1,308	297	139.7	94.9653	44.7347	6,319	4,509	1,810
2022	3321	2421	900	1,681	885	796	1,630	1,394	236	147.7	101.613	46.0871	6,779	4,847	1,932
2023	3624	2586	1038	1,699	947	752	2,994	1,490	1,504	155.7	108.726	46.9742	8,473	5,178	3,294
2024	4900	2764	2136	1,983	1,013	970	4,237	1,594	2,643	157.5	116.337	41.1634	11,278	5,529	5,749
2025	4900	2989	1911	2,573	1,084	1,489	4,237	1,706	2,531	165	124.48	40.5198	11,875	5,944	5,931
2026	4900	3234	1666	2,591	1,160	1,431	4,237	1,825	2,412	165	133.194	31.8062	11,893	6,384	5,509
2027	4900	3441	1459	2,609	1,241	1,368	4,237	1,953	2,284	165	142.517	22.4826	11,911	6,800	5,111
2028	4900	3720	1180	2,609	1,328	1,281	4,237	2,090	2,147	165	152.494	12.5064	11,911	7,303	4,608
2029	4900	3974	926	2,609	1,421	1,188	4,237	2,236	2,001	167.5	163.168	4.33188	11,913	7,798	4,115
2030	4900	4244	656	2,609	1,520	1,088	4,237	2,393	1,845	167.5	174.59	-7.0899	11,913	8,324	3,589