

2020
EREA TECHNICAL REPORT

**DEMAND AND SUPPLY(SAIDI & SAIFI, LOSSES,
CONNECTIVITY RATE)**

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DEMAND AND SUPPLY (SAIDI & SAIFI, LOSSES, CONNECTIVITY RATE, ETC.)

DATA SHARING TOOL

Performance indicator (Parameter)		Burundi	Kenya	Rwanda	Tanzania	Uganda	Zanzibar	TOTAL (MW)	%
Installed capacity(MW)		72.75	2819	207.50	1707.2	1254.20	25	6,085.65	
Imports		15.50	0	18.00	26	4.00	87	150.50	
Total(MW)		88.25	2819	225.50	1733.2	1258.20	112	6,236.15	
Generation mix (%)	Hydros	59.27	29.4	40.82	33.1	92.80	0	2,714.42	43.5%
	Geothermal	-	29.8	0	0	0.00	0	840.06	13.5%
	Thermal	40.23	26.1	45.85	64.62	2.08	22.8	2,046.36	32.8%
	Wind	-	11.9	0	0	0.00	0	335.46	5.4%
	Biomass	2.80	0.86	0	0.79	3.13	0	79.79	1.3%
	Solar	0.50	1.84	5.34	0	1.75	0	86.32	1.4%
	Imports	17.56	0	7.98	1.49	1.75	87	178.73	2.9%
Effective capacity(MW)		66.77	2736	182.78	1602	877.94	87	5552.49	
Maximum demand (MW)		62.93	1913	140.61	1116.56	699.34	90	4022.44	
Electricity access rate (%)		6.00	79.31	53	67.5	50.00	90		

Number of connected customers in Millions	0.12	7.263	0.95	2.23	1.50	0.171		
System load factor (%)	56.10	69.56	56.00	72.92	70.00	68		
System losses (%) (annually). Transmission and distribution	20.00	24.02	19.00	14.72	19.00	19		
SAIDI (monthly)		10.76		6.3	126.84	2.04		
SAIFI (monthly)		2.44		5.2	82.30	5.67		
Population (Million)	12.00	49.7	12.37	51.4	40.31	1.554		
Consumption per capita (kWh/year)	23.00	155.4	55.64	138.55	101.18	226.28		