

Statistics 2019/20

Country	Utility	Installed Capacity MW	Operating Capacity MW	Maximum Demand MW	Peak Demand Plus Reserves	Sales GWh	Number of Customers	Number of Employees	Generation Sent Out GWh	Net Imports GWh	Net Exports GWh	Transmission System Losses %	Revenue US\$ Million	Debtor Days	Rate of Return %	Net Income USD Million
Angola	RNT	4898	4426.00	2041	2481	13975		1256	14557	61	0	3	329	90	n/a	n/a
Botswana	BPC	928	459	610	702	3118	252025	1868	4203	312	0	4	216	69	-6	22
DRC	SNEL	2777	1589	1610	1705	7607	965099	5593	8639	750	70	6				
Eswatini	EEC	61	55	238	273	1107	222444	708	266	926	0	4	161	45	16	50
Lesotho	LEC	74	70	150	172	488	59489	563	332	294	1	11	32	32	5	5
Malawi	ESCOM	497	330	317	373	1892	497700	2500	1986	41	2	5		45		
Mozambique	EDM/HCB/MOTRACO	2744	2279	1850	2128	4944	1984673	3889		52	457	6				
Namibia	NamPower	614	390	695	695	4826	35850	1086	1289	3537	114					
South Africa	ESKOM	51849	42817	38897	43975	208319	6394916	46665	218939	3	4169	10	12642	17	3	-67
Tanzania	TANESCO	2324	1758	1117	1358					121	0					
Zambia	ZESCO/CEC/LHPC	2975	2766	2237	2510	15451	959066	6888	15947	17	1272	5	745	444	0	35
Zimbabwe	ZESA	2416	1555	1724	1724	7 367	579006	5773	8513	828	356	4	469	157	-34	-120

1.	2. SAPP EXISTING POWER STATIONS GENERATION MIX 2019/20, MW							3.	4.	5.	6.	7.	8.	9.	10.
Technology / Utility	BPC	EDM	RNT	ESCOM	ESKOM	LEC	NamPower	SEC	SNEL	TANESCO	ZESA	ZESCO	LHPC	HCB	Total
Hydro		114.5	2996	368	2191	74	347	61	2776	957	1071	2387	49	2075	15466.9
Coal	732				40356		120			375	1220	300			43103
Nuclear					1860			0		-	0				1860
OCGT	160	465	1881	129	3405			0		893	0				6932.72
CCGT															
Distillate (HFO)							22.5	0		89	100	165			376.3
Wind					1980		5	0		-	0				1985
Solar CSP					500			0		-	0				500
Solar PV	36	89.5			1520		120		1	-	6.5	74			1847
Landfill					20			0			0				20
Biomass			20		17					11	18.3				65.8
Total	928	669	4897	497	51849	74	614.5	61	2777.4	2,323.72	2416.1	2926	49	2075	72156.72
	SAPP EXISTING POWER STATIONS GENERATION MIX 2019/20, %														-
Technology / Utility	BPC	EDM	RNT	ESCOM	Eskom	LEC	NamPower	SEC	SNEL	TANESCO	ZESA	ZESCO	LHPC	HCB	Total
Hydro	0.00%	17.12%	61.18%	74.04%	4.23%	100.00%	56.47%	100.00%	99.96%	41.17%		81.58%	100.00%	100.00%	21.44%
Coal	78.88%	0.00%	0.00%	0.00%	77.83%	0.00%	19.53%	0.00%	0.00%	16.14%	50.49%	10.25%	0.00%	0.00%	59.74%
Nuclear	0.00%	0.00%	0.00%	0.00%	3.59%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.58%
OCGT	17.24%	69.51%	38.41%	25.96%	6.57%	0.00%	0.00%	0.00%	0.00%	38.42%	0.00%	0.00%	0.00%	0.00%	9.61%

Distillate	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Wind	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.66%	0.00%	0.00%	3.82%	4.14%	5.64%	0.00%	0.00%	0.52%
Solar CSP	0.00%	0.00%	0.00%	0.00%	3.82%	0.00%	0.81%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.75%
Solar PV	0.00%	0.00%	0.00%	0.00%	0.96%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.69%
Landfill	3.88%	13.38%	0.00%	0.00%	2.93%	0.00%	19.53%	0.00%	0.04%	0.00%	0.27%	2.53%	0.00%	0.00%	2.56%
Biomass	0.00%	0.00%	0.00%	0.00%	0.04%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.03%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

SAPP UTILITY PEAK DEMAND (MW) FORECAST 2019 - 2025

Year / Utility	BPC	EDM & MOZAL	RNT	ESCOM	Eskom	LEC	NamPower	SEC	SNEL	TANESCO	ZESA	ZESCO
2020	824	2,255	3716.8	627	38,667	178	742	248	3,787	2,190	2,236	3,432
2021	855	2,350	4104.8	736	39,893	183	677	254	3,986	2,430	2,618	3,573
2022	914	2,484	4498.2	845	41,040	188	696	259	4,213	2,690	3,088	3,724
2023	942	2,608	4909	954	42,102	196	707	265	4,431	2,980	3,690	3,886
2024	971	2,679	5326	1,063	43,269	201	716	270	4,649	3,300	4,394	4,060
2025	1,057	2,752	5759	1,169	44,535	204	728	329	4,941	3,660	3,077	4,247

SAPP UTILITY ENERGY DEMAND (GWh) FORECAST 2019 - 2025

Year / Utility	BPC	EDM & MOZAL	RNT	ESCOM	Eskom	LEC	NamPower	SEC	SNEL	TANESCO	ZESA	ZESCO
2020	5,406	15,775	21,684	2,090	254,042	819	5,019	1,323	22,609.5	13,430	13,688	20,721
2021	5,609	16,342	23,948	2,299	262,094	864	4,421	1,353	23,797.0	14,890	16,036	21,185
2022	5,996	17,177	26,243	2,529	269,634	914	4,507	1,381	25,150.6	16,490	18,693	22,021
2023	6,180	17,947	28,639	2,782	276,608	962	4,557	1,412	26,452.0	18,270	22,304	22,894
2024	6,370	18,409	31,072	3,060	284,279	1,015	4,725	1,440	27,752.5	20,230	26,328	23,715
2025	6,930	18,843	33,598	3,366	292,593	1,069	4,793	1,466	29,496.8	22,440	29,388	24,667

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Country	Utility	Average Electricity Tariff, USc/kWh
Angola	RNT	3.17
Botswana	BPC	7.26
DRC	SNEL	7.50
Eswatini	EEC	14.58
Lesotho	LEC	7.3
Malawi	ESCOM	8
Mozambique	EDM/HCB/MOTRACO	10.58
Namibia	NamPower	11.51
South Africa	ESKOM	6.6
Tanzania	TANESCO	11
Zambia	ZESCO/CEC/LHPC	5.2
Zimbabwe	ZESA	10