

SAPP STATISTICS 2007

Table 1: Installed versus Peak Demand Survey

SAPP DEMAND AND SUPPLY SITUATION					
No.	Country	Utility	Installed Capacity [MW]	Available Capacity [MW] <i>As at Feb 2008</i>	2007 Peak Demand [MW]
1	Angola	ENE	1,155	870	535
2	Botswana	BPC	132	90	496
3	DRC	SNEL	2,442	1,170	1,075
4	Lesotho	LEC	72	70	109
5	Malawi	ESCOM	305	246	240
6	Mozambique	EDM	248.5	173.8	365
		HCB	2,250	2,075	
7	Namibia	NamPower	393	360	449
8	South Africa	Eskom	43,061	38,384	36,513
9	Swaziland	SEB	51	50	196
10	Tanzania	TANESCO	897	680	653
11	Zambia	ZESCO	1,632	1,200	1,468
12	Zimbabwe	ZESA	2,045	1,125	1,758
TOTAL SAPP			54,684	46,494	43,857
Total Interconnected SAPP			52,327	44,698	42,429

Table 2: Generation Projects to be commissioned in 2008

No	Utility	Country	Name	Type	Units	Capacity [MW]
1	Eskom	South Africa	Camden Demothballed	Thermal	2	380
2	Eskom	South Africa	Grootvlei Demothballed	Thermal	2	380
3	Eskom	South Africa	Komati Demoth	Thermal	2	202
4	SNEL	DRC	Inga 2	Hydro	1	160
5	ZESA	Zimbabwe	Hwange Rehabilitation	Thermal	4	400
6	ZESCO	Zambia	Kafue Gorge Rehabilitation	Hydro	4x15	60
7	ZESCO	Zambia	Kariba North Rehabilitation	Hydro	1	30
8	TANESCO	Tanzania	Ubungo	Gas	10x10	100
9	TANESCO	Tanzania	Tegeta	Gas	3x15	45
TOTAL						1757

Table 3: SAPP Generation Capacity Reserve

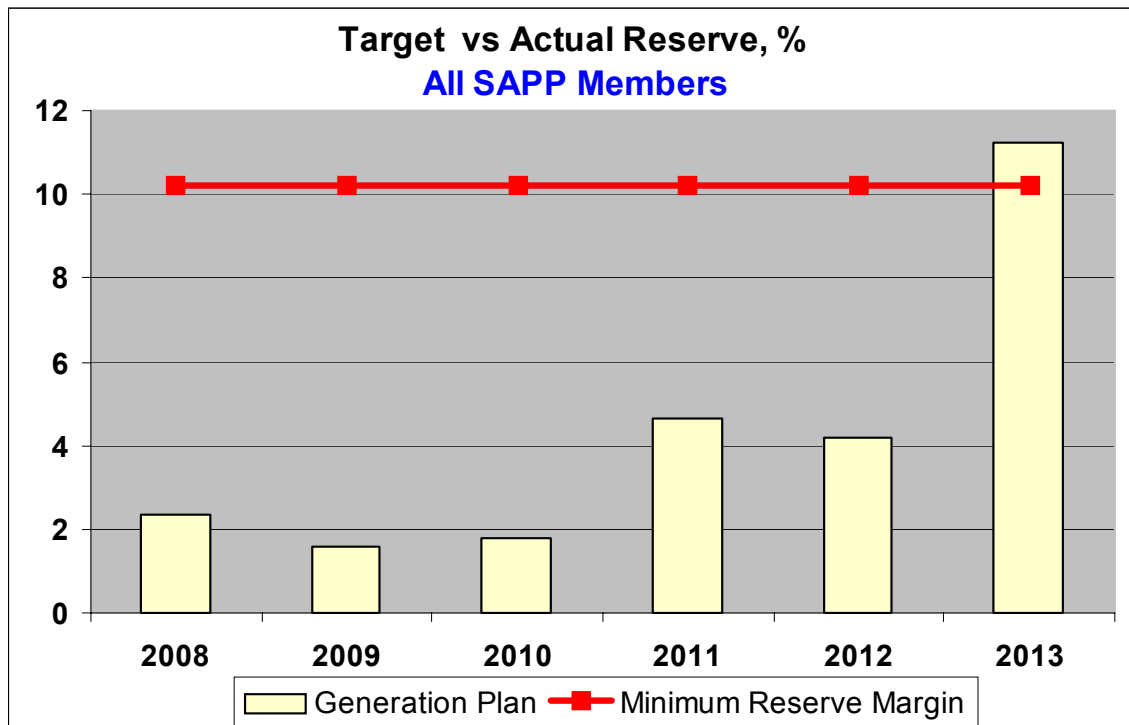
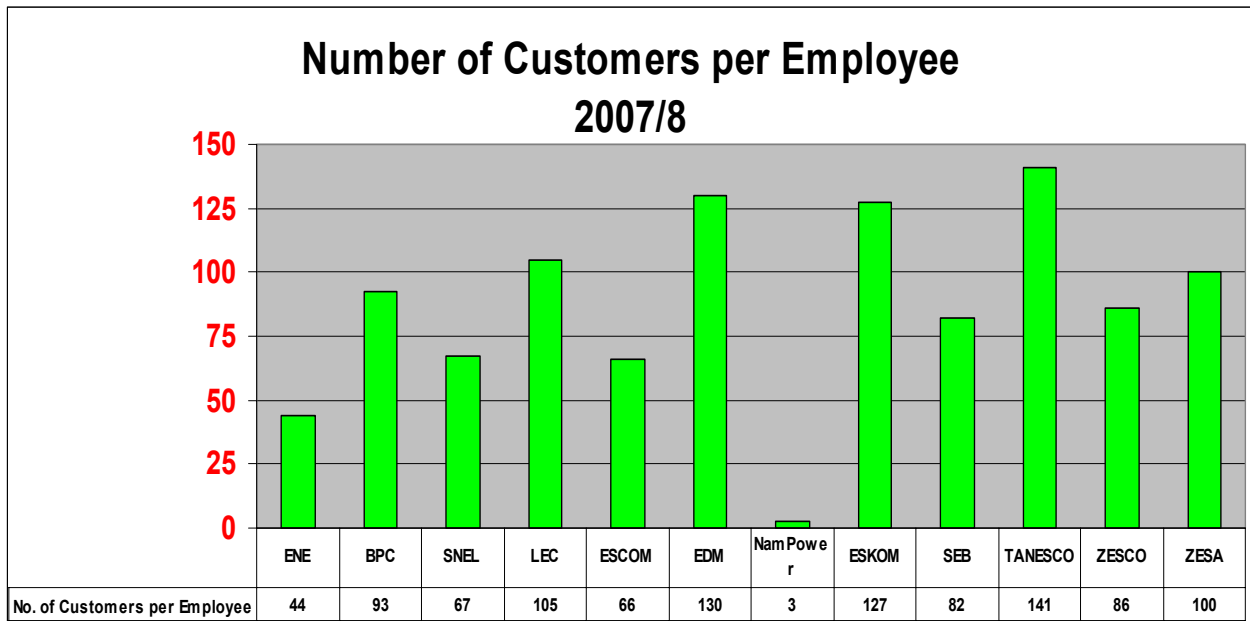


Table 4: Key Statistics 2007/8

UTILITY	(Peak Demand) MW / Employee	Generation Sent Out GWh / Employee	Number of Customers per Employee	Energy Sales per Employee GWh/Employee
ENE	1.432	0.881	44	0.89
BPC	2.528	0.337	93	1.66
SNEL	1.688	1.219	67	1.07
LEC	1.936	0.863	105	0.94
ESCOM	1.003	0.605	66	0.60
EDM	1.135	0.069	130	0.39
NamPower	4.677	1.642	3	3.77
ESKOM	11.175	7.318	127	7.31
SEB	2.741	0.176	82	1.56
TANESCO	1.391	0.882	141	0.89
ZESCO	3.824	2.521	86	2.47
ZESA	3.045	1.348	100	1.75

Graph 1: Number of Customers per Employee 2007/8



Appendix 1: Funding Gap - Long term Generation Projects

LONG TERM GENERATION PROJECTS: (2009-2013)						
No.	Country	Project Name	Capacity [MW]	Expected Date	Estimated Project Cost USD [M]	Secured Funding
1	Mozambique	Massingir	40	2009	55	N
2	Mozambique	Temane Gas	750	2011	370	N
3	Malawi	Fufu	100	2012	141	N
4	Mozambique	Benga Coal fired	450	2012	800	N
5	Mozambique	Lurio	183	2012	340	N
6	Tanzania	Kinyerezi	200	2012	190	N
7	Zimbabwe	Lupane	300	2012	368	N
8	Zimbabwe	Hwange Expansion	600	2012	500	N
9	Zimbabwe	Kariba South Extension	300	2012	200	N
10	Zambia	Kafue Gorge Lower	750	2012	600	N
11	Zambia	Kabompo	34	2012		N
12	Botswana	Morupule Expansion (Phase 2)	600	2013	900	N
13	Botswana	Mmamabula Phase 1	2,400	2013	8000	N
14	DRC	Busanga	240	2013	300	N
15	DRC	Nzilo 2	110	2013	180	N
16	Namibia	Walvis Bay	400	2013	700	N
17	Namibia	Baynes	360	2013	640	N
18	Swaziland	Lubombo	1,000	2013		N
	TOTAL		8,817		13,584	

LONG TERM GENERATION PROJECTS: (2014 -2015)						
No.	Country	Project Name	Capacity [MW]	Expected Date	Estimated Project Cost USD [M]	Secured Funding
19	Zambia	Maamba coal fired	500	2014	192	N
20	DRC	Inga 3	4,300	2015	3,600	N
21	Lesotho	Oxbow	80	2015	155	N
22	Lesotho	Muela Phase-2	110	2015		N
23	Mozambique	Mphanda Nkuwa (Phase I)	1,500	2015	2,000	N
24	Mozambique	Moatize	1,500	2015	2,700	N
25	Mozambique	HCB North Bank	850	2015	771	N
26	Namibia	Kudu	800	2015	640	N
27	Tanzania	Ruhudji	358	2015	611	N
28	Zimbabwe	Batoka	800	2015	2,500	N
29	Zimbabwe	Gokwe North	1,400	2015	1,357	N
	TOTAL		12,198		14,526	

**Table 5: UTILITY GENERAL INFORMATION
APRIL 2007 TO MARCH 2008**

Country	Utility	Installed Capacity MW	Net Capacity MW	Maximum Demand MW	MD Growth %	Sales GWh	Sales Growth %	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	ENE	1155	870	535	21.0	2,362	18.1	164,054	3,736	3,293	21	0	13	253.3	68	n/a	n/a
Botswana	BPC	132	120	493	4.2	2815	1.4	180,601	1,950	657	2,572	0	3.5	146.9	42.31	-1.6	15.6
DRC	SNEL	2,442	1,170	1050	2.2	6,100	7	417,964	6,219	7,581	78	1,014.00	7.7	n/a	n/a	n/a	n/a
Lesotho	LEC	72	70	109	7.3	478	12.1	58,900	563	486	49	7.4	11	31.5	32	5.2	5.1
Malawi	ESCOM	302	246	240	-4.4	1166	4.4	157,400	2,392	1,447	-	0	5.1	45.6	187	13	11
Mozambique	EDM	248.5	174	365	14.1	1,380	5.6	417,675	3,215	222	1,352	309	7	126	65	4.2	1.8
Namibia	NamPower	393	360	449	10.3	3,259	4.4	2,526	960	1,576	2,045	0	8	153.3	45	2.48	19
South Africa	ESKOM	43,061	38,384	36,513	4.9	224,367	2.9	4,152,842	32,674	239,108	10,998	11,368	2.14	5,863	19.92	3	590.8
Swaziland	SEB	51	50	196	4.3	855.8	-0.5	58,800	715	125.8	993	0	16	55.5	86	12.7	8
Tanzania	TANESCO	1186	680	653	8.3	3,225	16	662,270	4695	4141	57	0	5.4	380	315	5.04	-36
Zambia	ZESCO	1,737	1,630	1,468	5.1	8,285	-8.2	329,575	3,839	9,677	-	199	3.9	259	172	1	15
Zimbabwe	ZESA	2,045	1,825	1,758	-7.7	10,293	-1.1	579,006	5,773	7,781	2,367	30	3.9	130	49	-48	n/a

Table 6: Annual Maximum Demand Forecast, MW

	PEAK DEMAND FORECAST , MW																	
YEAR	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Angola	897	1016	1114	1217	1320	1426	1540	1657	1762	1,872	1,987	2,109	2,226	2,347	2,472	2,601	2734	2871
Botswana	563	675	737	795	817	864	904	928	951	1034	1089	1164	1183	1202	1221	1238	1255	1272
DRC	1179	1220	1262	1306	1351	1398	1446	1496	1548	1,602	1,657	1,714	1,772	1,825	1,880	1,936	1994	2054
Lesotho	111	117	123	127	132	138	144	150	157	163	171	178	186	193	202	210	220	229
Malawi	268	287	306	376	394	412	430	448	467	485	503	522	541	560	577	594	611	629
Mozambique	418	478	557	583	609	636	662	714	741	768	795	822	876	939	1007	1079	1157	1240
Namibia	475	485	509	531	576	599	623	651	675	703	730	754	779	815	845	875	900	933
South Africa	38,201	39,811	41,524	43,283	45,125	47,085	49,116	51,204	53,399	55,610	57,928	60,313	62,725	65,290	67,857	70,514	73,240	75,919
Swaziland	204	213	223	233	245	255	264	271	278	287	293	300	304	308	311	315	319	323
Tanzania	772	810	844	879	916	955	995	1037	1081	1126	1174	1223	1275	1328	1384	1442	1503	1566
Zambia	1,753	1,908	1,935	2,095	2,341	2,395	2,420	2,446	2,494	2,544	2,589	2,635	2,682	2,729	2,777	2,826	2876	2926
Zimbabwe	2,186	2,230	2,281	2,345	2,414	2,484	2,558	2,643	2,731	2,822	2,917	3,014	3,115	3,220	3,327	3,439	3554	3674
Total Interconnected	45,091	47,138	49,151	51,298	53,611	55,854	58,137	60,503	62,973	65,534	68,168	70,893	73,622	76,522	79,426	82,434	85,515	88,570
Total SAPP	47,028	49,250	51,414	53,771	56,241	58,647	61,102	63,645	66,282	69,017	71,832	74,747	77,664	80,757	83,859	87,071	90,363	93,637

Table 7: Energy Forecast, GWh

	ENERGY FORECAST , GWh																
YEAR	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Angola																	
Botswana	5,105	5,784	6,343	6,929	7,516	8,122	8771.5	9437.2	10,032	10,658	11,316	12,008	12,674	13,364	14,077	14,812	15,568
DRC	5588	5781	5982	6189	6,404	6,625	6,855	7,093	7,338	7,593	7,856	8,128	8,409	8,661	8,921	9,189	9,464
Lesotho	488	512	538	556	580	605	631	658	687	716	747	779	813	847	884	922	962
Malawi	1,528	1,635	1740.1	2,143	2,245	2,347	2,450	2,553	2,656	2,761	2,866	2,973	3,081	3,190	3,284	3,380	3,479
Mozambique	2,881	3,119	3,356	3,521	3,687	3,852	4017.3	4348	4,522	4,695	4,869	5,042	5,389	5,777	6,193	6,639	7,117
Namibia	3,007	3,091	3,236	3,373	3513	3,701	3,848	3,956	4,123	4,289	4,496	4,663	4,838	4,966	5,143	5,338	5,579
South Africa	252,109	261,361	271,103	280,739	290,904	303,086	315,039	327,790	340,121	354,423	368,643	383,464	398,084	414,618	431,126	447,663	463,780
Swaziland	1154	1205	1262	1319	1386	1443	1494	1534	1,573	1,624	1,658	1,698	1,720	1,743	1,760	1,783	1,805
Tanzania	4,414	4,628	4,820	5,021	5,230	5,448	5675	5911	6,158	6,415	6,683	6,962	7,252	7,555	7,871	8,200	8,543
Zambia	13,014	14,354	14,749	16,000	17,927	18,377	18,613	18,853	19,098	19,384	19,553	19,760	19,968	20,177	20,387	20,597	20,809
Zimbabwe	12,668	12,924	13,221	13,592	13,990	14,400	14,828	15,317	15,829	16,358	16,905	17,470	18,055	18,660	19,285	19,932	20,601
Total Interconnected	296,014	308,130	319,789	332,219	345,906	360,211	374,097	388,987	403,322	419,740	436,042	453,011	469,949	488,814	507,776	526,874	545,685
Total SAPP	301,957	314,393	326,349	339,383	353,381	368,006	382,222	397,450	412,136	428,916	445,591	462,946	480,282	499,559	518,930	538,454	557,706