

## YEAR 2006 STATISTICS

**Table 1 : Installed vs Peak Demand Survey**

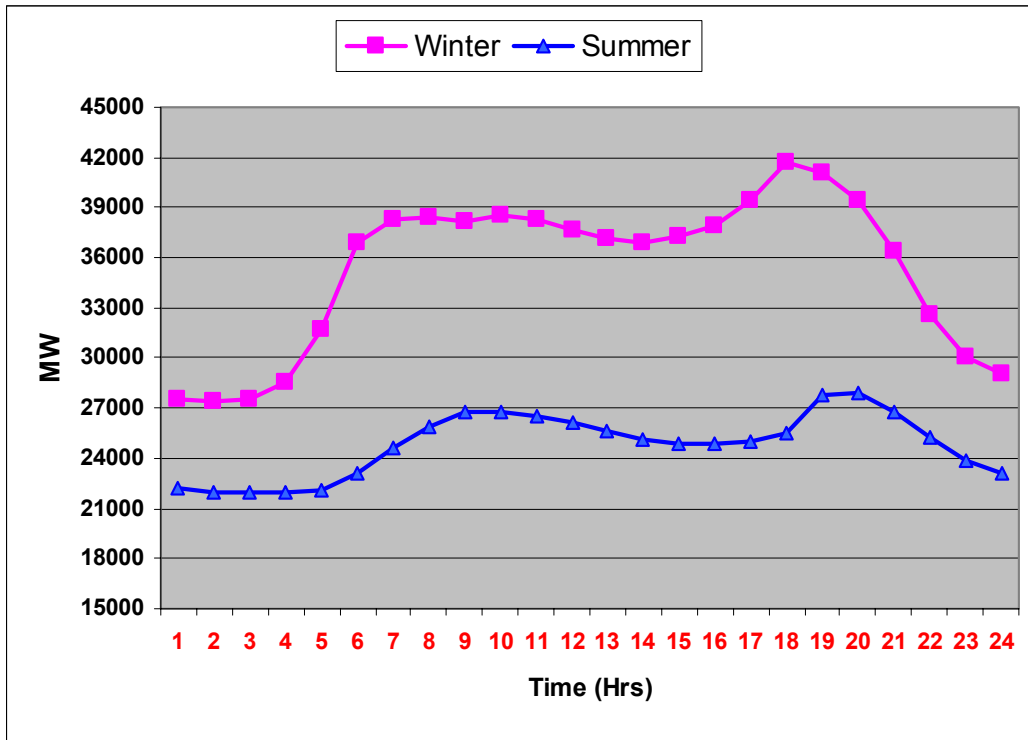
No.	Country	Utility	Installed Capacity [MW]	Available Capacity [MW]	2006 Peak Demand [MW]
1	Angola	ENE	742	590	432
2	Botswana	BPC	132	120	473
3	DRC	SNEL	2,442	1,170	993
4	Lesotho	LEC	72	70	101
5	Malawi	ESCOM	305	261	247
6	Mozambique	EDM HCB	307 2,250	2,075	299
7	Namibia	NamPower	393	390	408
8	South Africa	Eskom	42,011	36,208	34,807
9	Swaziland	SEB	51	50	188
10	Tanzania	TANESCO	897	680	567
11	Zambia	ZESCO	1,632	1,630	1,414
12	Zimbabwe	ZESA	1,990	1,825	1,904
		<b>TOTAL</b>	<b>53,224</b>	<b>45,069</b>	<b>41,831</b>

**Table 2: Generation Projects commissioned 2004 to 2006**

Country	Plant	Capacity	Total Capacity (MW)	Commissioning Date	Comment
Angola	Capanda 1	2 x 130	260	2004	New
Tanzania	Ubongo	2 x 40	80	2005	New
Zambia	Kariba	1 x 30	30	2004	Upgrading
South	Camden	2 x 190	380	2005	De-
Zambia	Kariba	30	30	2005	Upgrading
South	Camden	190	190	2006	De-
South	Arnot	6 x 20	120	2005 - 2006	Upgrade
Swaziland	Maguga	20	20	2006	New
Zambia	Kafue Gorge	2x15	30	2006	Upgrading
	<b>Total</b>		<b>1140</b>		

Type	Percentage
Hydro	35%
Gas	7%
Coal	58%

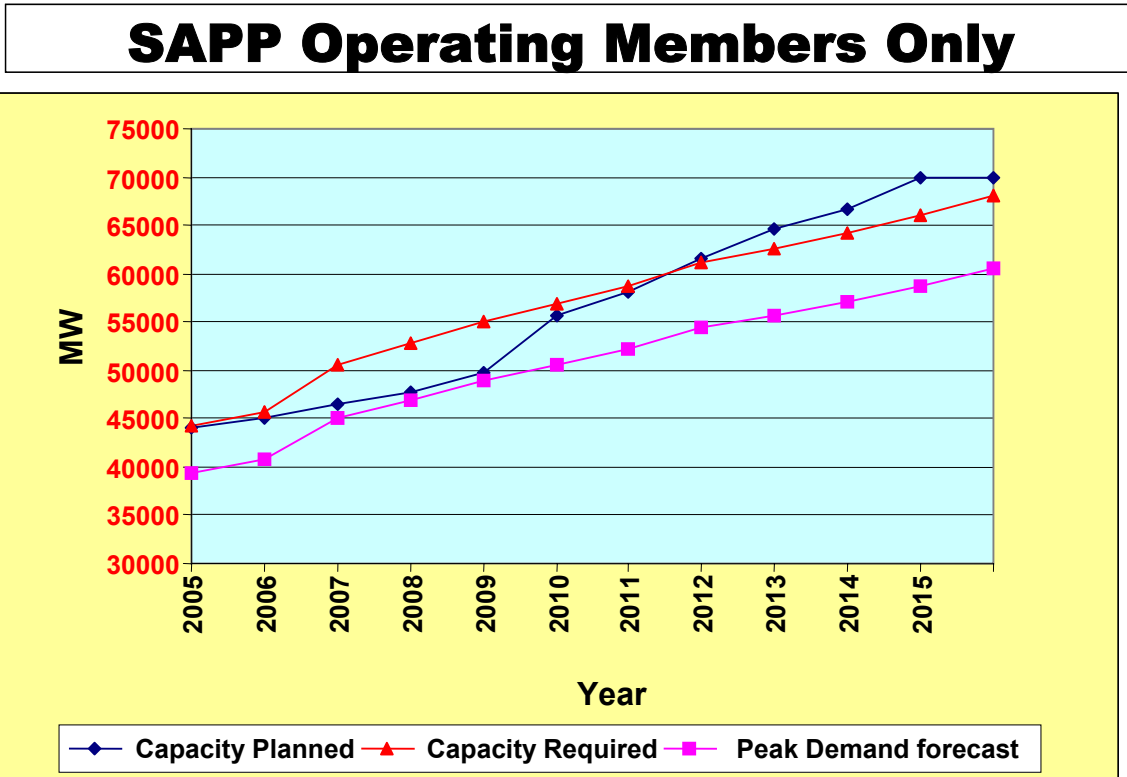
**Graph 1: SAPP Daily Load Profile**



**Table 3: Planned Rehabilitation & Short Term Generation Projects (2007 - 2010)**

Country	Generation Capacity MW
Angola	343
Botswana	600
DRC	1136
Lesotho	28
Malawi	104
Mozambique	912
Namibia	800
RSA	6639
Swaziland	20
Tanzania	260
Zambia	1350
Zimbabwe	1315
<b>TOTAL</b>	<b>13517</b>

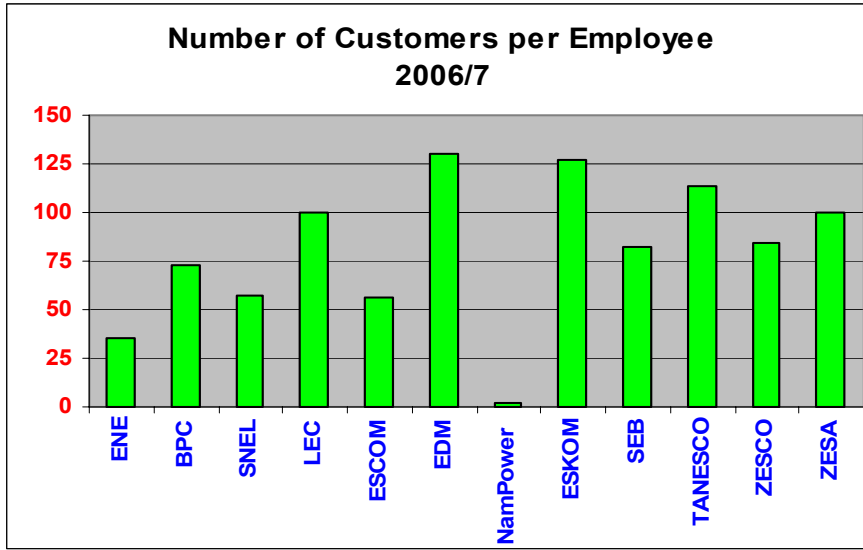
Graph 2: SAPP Demand Supply Situation (Operating SAPP Members Only).



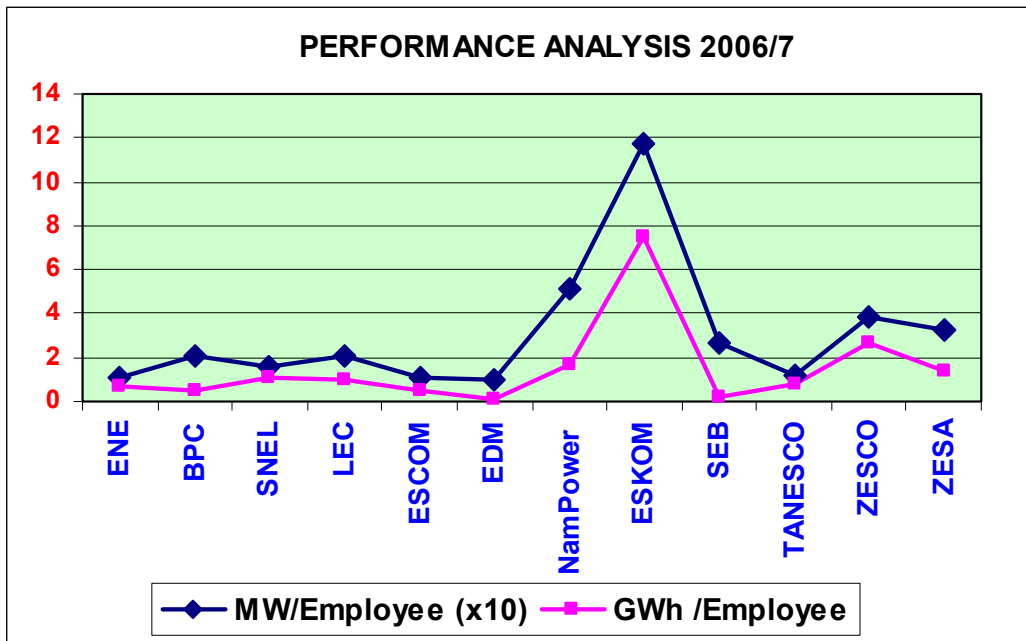
**Assumptions: Demand Growth = 3.6%**  
**Reserve Margin = 10.2 %**

UTILITY	(Peak Demand) MW / Employee	Generation Sent Out GWh / Employee	Number of Customers per Employee	Energy Sales per Employee GWh/Employee
ENE	1.095	0.686	36	0.69
BPC	2.076	0.467	73	1.45
SNEL	1.615	1.101	57	0.81
LEC	2.061	0.951	100	0.99
ESCOM	1.046	0.490	56	0.49
EDM	0.995	0.069	130	0.60
NamPower	5.104	1.673	3	3.70
ESKOM	11.721	7.475	127	7.58
SEB	2.629	0.176	82	1.43
TANESCO	1.159	0.756	113	0.77
ZESCO	3.856	2.624	84	2.48
ZESA	3.298	1.348	100	2.01

**Graph 3: Number of Customers per Employee 2006/7**



**Graph 4: PERFORMANCE ANALYSIS 2006/7**





**Table 5: UTILITY GENERAL INFORMATION  
APRIL 2006 TO MARCH 2007**

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	742	590	476	12.0	2,006	8.9	155,114	4,347	2,982	19.6	0	13	184.3	75	n/a	-3.11
Botswana	BPC	132	120	434	8.0	2626	8.7	151,800	2,091	977	2,050.40	0	10	111.4	35.5	-1	18.82
DRC	SNEL	2,442	1,170	1012	0.0	4,656	13	360,329	6,268	6,904	0	1,800.00	6.3	149	n/a	n/a	n/a
Lesotho	LEC	72	70	101	6.3	420	16	49,171	490	466	39	22	13	34.2	35	5	6.07
Malawi	ESCOM	305	253	251	3.8	970	4	135,000	2,400	1,177	0	0	19	5	110	1	2.218
Mozambique	EDM	233	137	320	12.3	1,380	5.6	417,675	3,215	222	1,870	174	7	126	65	4.2	1.8
Namibia	NamPower	393	390	490	-0.2	3,199	7.5	2,455	960	1,606	1,948.0	0	8	193	34	0.97	19
South Africa	ESKOM	42,011	36,398	34,807	4.0	208,316	0.2	3,758,931	29,697	221,985	8,643	5,515	8.2	5,926	22	8.4	592
Swaziland	SEB	51	52	188	1.1	855.8	-0.5	58,800	715	125.8	894	0	16	55.5	86	12.7	8
Tanzania	TANESCO	897	680	563	6.0	2,549	10.3	550,863	4857	3674	43	0	24	188	92	n/a	n/a
Zambia	ZESCO	1,632	1,630	1,393	4.7	8,116	-3.6	303,618	3,613	9,480	0	505	2.7	207	165	1	-23
Zimbabwe	ZESA	1,990	1,825	1,904	-7.8	10,293	-1.1	579,006	5,773	7,781	4,241	414.582	3.9	130	49	-48	-1773

**Table 6: Annual Maximum Demand, MW  
APRIL 2006 TO MARCH 2007**

	HISTORIC									FORECAST						
YEAR	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Angola	209	326	250	291	330	342	374	397	476	792	897	1,016	1,114	1,217	1,320	1,426
Botswana	239	256	285	337	362	393	402	434	434	512	563	675	737	795	817	864
DRC	830	841	895	929	991	994	1012	1012	1012	1,100	1,138	1,172	1,207	1,244	1,281	1,320
Lesotho	69	77	85	88	89	90	90	90	101	106	111	117	123	127	132	138
Malawi	190	185	205	212	236	261	227	242	251	251	268	287	306	376	394	412
Mozambique	245	214	231	234	250	258	266	285	320	359	418	478	557	583	609	636
Namibia	292	314	320	335	362	371	393	491	490	681	692	703	713	724	746	768
South Africa	27,803	27,813	29,188	30,599	31,621	30,154	34,195	33,461	34,807	35,637	37,349	39,452	40,507	42,185	43,658	44,759
Swaziland	145	153	154	159	160	172	171.5	172	188	194	204	213	223	233	245	255
Tanzania	368	394	426	465	474	506	509	531	563	700	747	786	873	910	937	965
Zambia	1,126	1,069	1,085	1,087	1,118	1,255	1,294	1,330	1,393	1,541	1,753	1,908	1,935	2,095	2,341	2,395
Zimbabwe	1,950	2,034	1,986	2,013	2,028	2,007	2,069	2,066	1,904	2,143	2,186	2,230	2,281	2,345	2,414	2,484
Total Interconnected	32,699	32,771	34,229	35,781	36,981	35,694	39,893	39,341	40,649	42,273	44,415	46,948	48,283	50,331	52,244	53,618
Total SAPP	33,466	33,676	35,110	36,749	38,021	36,803	41,003	40,511	41,939	44,016	46,327	49,037	50,576	52,834	54,895	56,422

**Table 7: Annual Generation Sent Out, GWh  
APRIL 2006 TO MARCH 2007**

	HISTORIC									FORECAST						
YEAR	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Angola	1,319	1,516	1,104	1,840	1,866	1,993	2,344	2,649	2,870	4,509	5,105	5,784	6,343	6,929	7,516	8,122
Botswana	1,543	1,645	1,880	2,043	2,150	2,282	2699.8	977	2,717	2,847	3,201	3,838	4,202	4,545	4,659	4,935
DRC	N/A	N/A	N/A	N/A	5,907	6,084	6,904	6,904	6,648	6,848	7,053	7,264	7,482	7,707	7,707	
Lesotho	271	267	427	393	378	429	428	446	466	464	488	512	538	556	580	605
Malawi	1,023	1,087	902	1,091	1,134	1,177	1,177	1,177	1,327	1,430	1,528	1,635	1,740	2,143	2,245	2,347
Mozambique	1,076	1,186	1,212	1,257	1,307	1,392	102.2	147.418	222	2,644	2,881	3,119	3,356	3,521	3,687	3,852
Namibia	1,881	1,676	1,978	2,016	2136	1,421	1,379	1,660	1,606	2,896	3,007	3,091	3,236	3,373	3,513	3,701
South Africa	185,583	188,475	194,601	198,790	207,233	210,112	210,218	221,985	234,555	257,560	263,523	270,552	277,429	284,370	292,123	298,859
Swaziland	718	760	820	847	765	991	1005.7	1000.9	1,005	1,098	1,154	1,205	1,262	1,319	1,386	1,443
Tanzania	2,096	2,240	2,394	2,654	2,708	3,052	3674	3674	3,556	3,782	4,025	4,238	4,820	5,021	5,021	
Zambia	7,868	7,656	7,798	8,152	8,308	8,466	8,512	8,884	9,480	12,172	13,014	14,354	14,749	16,000	17,927	18,377
Zimbabwe	11,529	12,811	12,090	11,972	8,587	8,799	9,719	9,391	12,937	12,441	12,668	12,924	13,221	13,592	13,990	14,400
<b>Total Interconnected</b>	<b>210,469</b>	<b>214,476</b>	<b>220,806</b>	<b>225,470</b>	<b>236,771</b>	<b>239,976</b>	<b>240,968</b>	<b>251,395</b>	<b>269,636</b>	<b>298,970</b>	<b>306,988</b>	<b>316,859</b>	<b>325,474</b>	<b>334,983</b>	<b>345,572</b>	<b>346,172</b>
<b>Total SAPP</b>	<b>214,907</b>	<b>219,319</b>	<b>225,206</b>	<b>231,055</b>	<b>242,479</b>	<b>246,198</b>	<b>248,163</b>	<b>258,895</b>	<b>277,389</b>	<b>308,691</b>	<b>317,647</b>	<b>328,515</b>	<b>338,377</b>	<b>349,077</b>	<b>360,354</b>	<b>356,641</b>