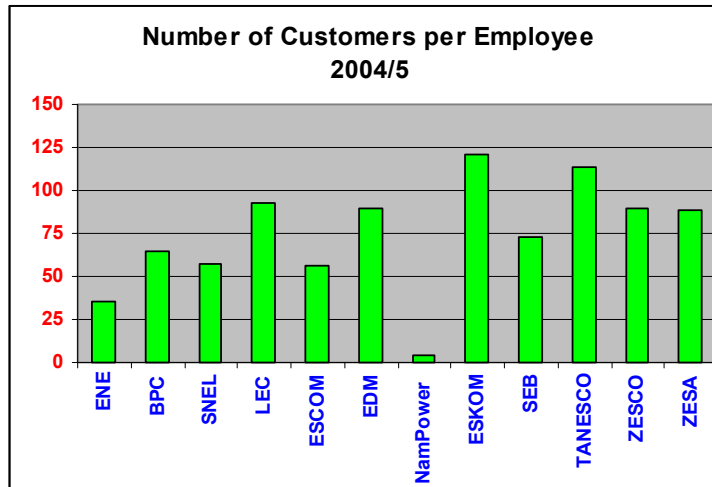
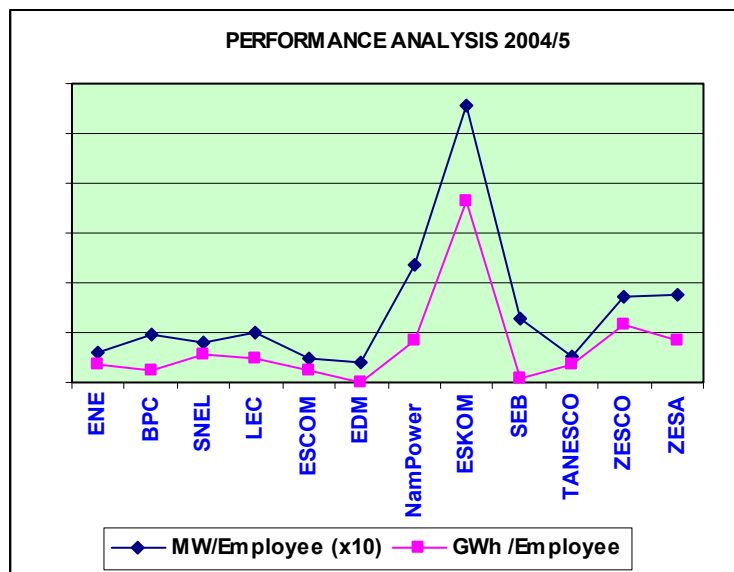


STATISTICS



| UTILITY | MW / Employee | GWh / Employee | Number of Customers per Employee |
|----------|---------------|----------------|----------------------------------|
| ENE | 0.119 | 0.745 | 35 |
| BPC | 0.19 | 0.445 | 64 |
| SNEL | 0.161 | 1.101 | 57 |
| LEC | 0.197 | 0.939 | 92 |
| ESCOM | 0.095 | 0.49 | 56 |
| EDM | 0.084 | 0.032 | 89 |
| NamPower | 0.468 | 1.644 | 4 |
| ESKOM | 1.109 | 7.264 | 121 |
| SEB | 0.257 | 0.155 | 73 |
| TANESCO | 0.105 | 0.756 | 113 |
| ZESCO | 0.348 | 2.289 | 89 |
| ZESA | 0.349 | 1.64 | 88 |



POTENTIAL NEW GENERATION PROJECTS IN SAPP

Table-1: Short Term Generation Projects in SAPP Countries

| No. | Country | Project Name | Capacity [MW] | Type | Expected Commissioning Year |
|--------------|--------------|------------------------|---------------|---------|-----------------------------|
| 1 | Angola | Capanda | 260 | Hydro | 2007 |
| 2 | Botswana | Morupule Expansion | 240 | Coal | 2009 |
| 3 | DRC | Refurbish Inga-1 & 2 | 500 | Hydro | 2007 |
| 4 | Lesotho | Muela Phase-2 | 110 | Hydro | 2010 |
| 5 | Malawi | Kaphichira Phase-2 | 64 | Hydro | 2009 |
| 6 | Namibia | Kudu | 800 | Gas | 2009 |
| 7 | South Africa | Mothballed Plants | 3,500 | Coal | 2005 to 2010 |
| | | Open Cycle Gas Turbine | 1050 | Gas | 2007 |
| | | Open Cycle Gas Turbine | 1050 | Gas | 2008 |
| 8 | Swaziland | Maguga | 20 | Hydro | 2007 |
| 9 | Tanzania | Ubungo | 40 | Gas | 2005 |
| | | Ubungo | 40 | Gas | 2005 |
| | | Kinyerezi | 60 | Gas | 2007 |
| | | Kinyerezi | 80 | Gas | 2009 |
| 10 | Zambia | Refurbishment | 210 | Hydro | 2006 |
| | | Itezhi-Tezhi | 120 | Hydro | 2007 |
| | | Kafue Lower | 600 | Hydro | 2009 |
| | | Kariba North | 360 | Hydro | 2009 |
| 11 | Zimbabwe | Kariba South | 300 | Hydro | 2007 |
| | | Hwange 7 & 8 | 660 | Thermal | 2008 |
| | | Lupani | 300 | Gas | 2009 |
| | | Western Power Station | 1200 | Coal | 2008 |
| TOTAL | | | 11,564 | | |

Table 2: Long Term Generation Projects in SAPP Countries

| No. | Country | Project Name | Capacity [MW] | Type | Expected Year |
|-----|--------------|------------------------|---------------|---------|---------------|
| 1 | Angola | Cambambe II | 260 | Hydro | 2011 |
| 2 | Botswana | Mmamabula | 3,600 | Thermal | 2015 |
| 3 | DRC | Inga-3 | 3,500 | Hydro | 2010 |
| | | Grand Inga Phase-1 | 6,000 | Hydro | 2012 |
| 4 | Lesotho | Musanga | 230 | Hydro | |
| 5 | Malawi | Kholombizo | 240 | Hydro | 2018 |
| | | Mpatamanga | 260 | Hydro | 2020 |
| | | Fufu | 100 | Hydro | 2012 |
| 6 | Mozambique | Mepanda Uncua | 1,300 | Hydro | 2010 |
| | | Moatize | 1,000 | Coal | 2014 |
| | | Massingir | 40 | Hydro | |
| 7 | Namibia | Epupa | 360 | Hydro | 2015 |
| | | Popa | 23 | Hydro | 2015 |
| 8 | South Africa | Greenfield | 4,000 | Coal | |
| | | Greenfield | 2,500 | Coal | |
| | | 2xCGT | 1,500 | Gas | |
| | | 2xPumped Storage | 2,330 | Hydro | 2013 |
| 9 | Swaziland | Lubombo | 1,000 | Thermal | Beyond 2010 |
| 10 | Tanzania | Ruhudji | 358 | Hydro | 2016 |
| | | Mchuchuma | 200 | Coal | 2022 |
| | | Mchuchuma | 200 | Coal | 2024 |
| | | Rumakali | 222 | Hydro | 2027 |
| 11 | Zambia | Expansion Kariba North | 200 | Hydro | 2020 |
| | | Kalungwishi | 220 | Hydro | 2014-2015 |
| 12 | Zimbabwe | Batoka | 800 | Hydro | 2014 |
| | | Gokwe North | 1,300 | Coal | 2020 |
| | | TOTAL | 31,743 | | |

**Table 3: UTILITY GENERAL INFORMATION
APRIL 2004 TO MARCH 2005**

| Country | Utility | Installed Capacity | Maximum Demand | MD Growth | Sales | Sales Growth | Number of Customers | Number of Employees | Generation Sent Out | Net Imports | Net Exports | Transmission System losses | Revenue US\$ Million | Debtor Days | Rate of Return | Net Income USD Million |
|---------------------|----------|--------------------|----------------|-----------|---------|--------------|---------------------|---------------------|---------------------|-------------|-------------|----------------------------|----------------------|-------------|----------------|------------------------|
| | | MW | MW | % | GWh | % | | | GWh | GWh | GWh | % | | | % | |
| Angola | ENE | 624 | 374 | 16 | 1,636 | 6.1 | 110,801 | 3,148 | 2,344 | 17.5 | - | 25 | 47.16 | 49 | n/a | -24.73 |
| Botswana | BPC | 132 | 402 | 2 | 2420.7 | 2.3 | 136,398 | 2,118 | 941.7 | 1,864.20 | - | 11.7 | 134.4 | 44 | 1.4 | 32 |
| DRC | SNEL | 2,442 | 1012 | 2.53 | 4,656 | 13 | 360,329 | 6,268 | 6,904 | - | 1,800.00 | 6.3 | 149.2 | n/a | n/a | n/a |
| Lesotho | LEC | 72 | 90 | 1 | 311 | -3 | 42,173 | 456 | 428 | 8 | 39 | 22 | 19.2 | 45 | -1 | -0.97 |
| Malawi | ESCOM | 285 | 232 | 7 | 970 | 4 | 135,000 | 2,400 | 1,177 | N/A | N/A | 19 | 5.319 | 110 | 1 | 2.218 |
| Mozambique | EDM | 177 | 266 | 3.1 | 1,452 | 5 | 284,562 | 3,185 | 102.2 | 1,773 | 1,496 | 20 | 102.7 | 58 | 3.2 | 4.8 |
| Namibia | NamPower | 461 | 470 | 24.3 | 2,795 | 24.4 | 3,261 | 839 | 1,379 | 1,566.0 | - | 8 | 159 | 34 | 0.92 | 10 |
| South Africa | ESKOM | 42,011 | 34,195 | 1 | 207,198 | 5.2 | 3,603,941 | 29,845 | 220,151 | 8,660 | 13,067 | 5.4 | 6,642 | 42.4 | 10.58 | 568 |
| Swaziland | SEB | 51 | 171.5 | 1 | 852.8 | 2.5 | 48,500 | 667 | 103.5 | 916.8 | - | 16 | 59.7 | 85 | 4.5 | 5.1 |
| Tanzania | TANESCO | 839 | 509 | 5.9 | 2,549 | 10.3 | 550,863 | 4857 | 3674 | 43 | - | 24 | 188 | 92 | n/a | n/a |
| Zambia | ZESCO | 1,672 | 1,294 | 6.4 | 8,201 | 4.4 | 332,000 | 3,719 | 8,512 | - | 231 | 3.7 | 154.08 | 172 | 0.4 | 3.682 |
| Zimbabwe | ZESA | 1,975 | 2,069 | 3.1 | 10,117 | -4.21 | 522,427 | 5,925 | 9,719 | 1,993 | 255.5 | 13.6 | 200.4 | 52 | -1.81 | -389.2 |

**Table 4: ANNUAL MAXIMUM DEMAND, MW
APRIL 2004 TO MARCH 2005**

| YEAR | HISTORIC | | | | | | | FORECAST | | | | | | | |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| ANGOLA | 209 | 326 | 250 | 291 | 330 | 342 | 374 | 468 | 846 | 871 | 898 | 924 | 952 | 981 | 1010 |
| BOTSWANA | 239 | 256 | 285 | 337 | 362 | 393 | 402 | 426 | 452 | 479 | 507 | 534 | 562 | 591 | 609 |
| DRC | 830 | 841 | 895 | 929 | 991 | 994 | 1012 | 1,063 | 1,070 | 1,100 | 1,138 | 1,172 | 1,207 | 1,244 | 1281 |
| LESOTHO | 69 | 77 | 85 | 88 | 89 | 90 | 90 | 107 | 115 | 125 | 130 | 136 | 142 | 148 | 152 |
| MALAWI | 190 | 185 | 205 | 212 | 236 | 261 | 227 | 294 | 311 | 330 | 350 | 371 | 394 | 414 | 426 |
| MOZAMBIQUE | 245 | 214 | 231 | 234 | 250 | 258 | 266 | 285 | 305 | 326 | 349 | 373 | 399 | 427 | 440 |
| NAMIBIA | 292 | 314 | 320 | 335 | 362 | 371 | 393 | 596 | 670 | 681 | 692 | 703 | 713 | 724 | 746 |
| SOUTH AFRICA | 27,803 | 27,813 | 29,188 | 30,599 | 31,621 | 30,154 | 32,082 | 33,245 | 34,907 | 35,954 | 37,032 | 38,144 | 39,288 | 40,467 | 41681 |
| SWAZILAND | 145 | 153 | 154 | 159 | 160 | 172 | 171.5 | 180 | 185 | 191 | 196 | 202 | 208 | 215 | 221 |
| TANZANIA | 368 | 394 | 426 | 465 | 474 | 506 | 509 | 606 | 654 | 700 | 747 | 786 | 873 | 910 | 937 |
| ZAMBIA | 1,126 | 1,069 | 1,085 | 1,087 | 1,118 | 1,255 | 1,294 | 1,350 | 1,374 | 1,399 | 1,426 | 1,499 | 1,529 | 1,560 | 1606 |
| ZIMBABWE | 1,950 | 2,034 | 1,986 | 2,013 | 2,028 | 2,007 | 2,069 | 2,119 | 2,208 | 2,287 | 2,363 | 2,446 | 2,527 | 2,610 | 2688 |
| TOTAL INTERCONNECTED | 32,699 | 32,771 | 34,229 | 35,781 | 36,981 | 35,694 | 37,780 | 39,371 | 41,286 | 42,542 | 43,832 | 45,208 | 46,575 | 47,986 | 49,425 |
| TOTAL SAPP | 33,466 | 33,676 | 35,110 | 36,749 | 38,021 | 36,803 | 38,890 | 40,739 | 43,097 | 44,443 | 45,827 | 47,289 | 48,794 | 50,291 | 51,799 |

**Table 5: ANNUAL ENEGY SENT OUT, GWh
APRIL 2004 TO MARCH 2005**

| | HISTORIC | | | | | | | FORECAST | | | | | | | |
|-----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| YEAR | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| ANGOLA | 1,319 | 1,516 | 1,104 | 1,840 | 1,866 | 1,993 | 2,344 | 2,675 | 2,870 | 3,090 | 3,320 | 3,665 | 3,820 | 3,935 | 3,935 |
| BOTSWANA | 1,543 | 1,645 | 1,880 | 2,043 | 2,150 | 2,282 | 2699.8 | 2,564 | 2,717 | 2,880 | 3,054 | 3,237 | 3,431 | 3,637 | 3,637 |
| DRC | N/A | N/A | N/A | N/A | 5,907 | 6,084 | 6,904 | 6,455 | 6,648 | 6,848 | 7,053 | 7,264 | 7,482 | 7,707 | 7,707 |
| LESOTHO | 271 | 267 | 427 | 393 | 378 | 429 | 428 | 461 | 490 | 512 | 528 | 554 | 576 | 600 | 600 |
| MALAWI | 1,023 | 1,087 | 902 | 1,091 | 1,134 | 1,177 | 1,177 | 1,276 | 1,327 | 1,380 | 1,435 | 1,492 | 1,552 | 1,614 | 1,614 |
| MOZAMBIQUE | 1,076 | 1,186 | 1,212 | 1,257 | 1,307 | 1,392 | 102.2 | 109 | 117 | 125 | 134 | 143 | 153 | 164 | 176 |
| NAMIBIA | 1,881 | 1,676 | 1,978 | 2,016 | 2136 | 1,421 | 1,379 | 4,038 | 4,400 | 4,456 | 4,512 | 4,567 | 4,623 | 4,679 | 4,679 |
| SOUTH AFRICA | 185,583 | 188,475 | 194,601 | 198,790 | 207,233 | 210,112 | 210,218 | 228,505 | 234,555 | 240,377 | 251,834 | 256,013 | 261,458 | 267,955 | 267,955 |
| SWAZILAND | 718 | 760 | 820 | 847 | 765 | 991 | 103.5 | 951 | 979 | 1,008 | 1,039 | 1,070 | 1,102 | 1,135 | 1,135 |
| TANZANIA | 2,096 | 2,240 | 2,394 | 2,654 | 2,708 | 3,052 | 3674 | 3,334 | 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 | 8,408 | 8,974 | 9,209 | 9,373 | 9,542 | 9,728 | 10,224 | 10,224 |
| ZIMBABWE | 11,529 | 12,811 | 12,090 | 11,972 | 8,587 | 8,799 | 9,719 | 12,606 | 12,937 | 13,349 | 13,800 | 14,295 | 14,777 | 15,271 | 15,779 |
| TOTAL INTERCONNECTED | 210,469 | 214,476 | 220,806 | 225,470 | 236,771 | 239,976 | 238,307 | 264,097 | 271,817 | 278,765 | 291,327 | 296,685 | 303,331 | 311,372 | 311,892 |
| TOTAL SAPP | 214,907 | 219,319 | 225,206 | 231,055 | 242,479 | 246,198 | 245,502 | 271,382 | 279,570 | 287,017 | 300,107 | 306,080 | 313,523 | 321,942 | 322,462 |