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presentations were made to them on various activities that happens at the SAPP-CC in the different departments. This familiarisation visit was important as it made the PAU staff to see where they fit in in the whole of SAPP and what was expected of them.

The visit also included some Members of Swaziland Electricity Company (SEC) who got presentations on SAPP structures with SAPP Operations.



*SAPP PAU and SEC Staff at SAPP CC Offices in Harare, Zimbabwe*

## Meetings, Workshops and Conferences

### SAPP Project Acceleration Unit (PAU) Familiarisation Visit to the SAPP Coordination Centre

The SAPP Project Acceleration Unit (PAU) was setup in Johannesburg, South Africa. Three staff members from the SAPP Project Advisory Unit (PAU) visited the SAPP Coordination Centre (SAPP-CC) Offices from 08 to 11 December 2015 for familiarisation. During the visit,

### Human Resources Working Group Meeting

The SAPP Human Resources Working Group met on the 9<sup>th</sup> of December 2015 at the Coordination Centre Offices. The Working Group met to review a number of issues including the review of the terms of reference for the Accounts Officer as well as the Energy Analyst who are supposed to be recruited by the 1<sup>st</sup> of April 2016.

### Finance Working Group Meeting

The Finance Working Group held a meeting on the 10<sup>th</sup> of December 2015 at the Coordination Center in Harare. The main objective of the meeting was to review the 2016/17 budget for the Coordination Centre as well as to find out how far the Centre had gone in complying with

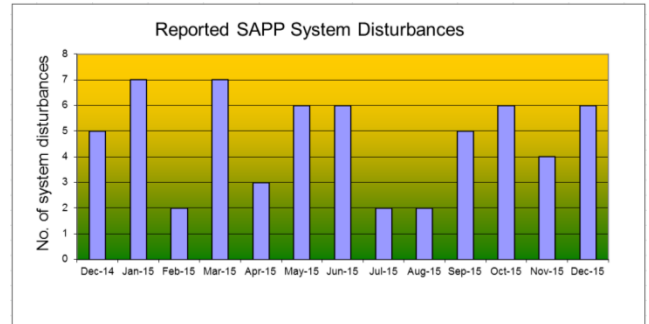


the audit items raised in both the internal and external audits that were held in March and May 2015 respectively. The other item discussed was review dates and of the policies and procedures in use at the Coordination Centre.

## System Operations

### System Disturbances

In the month of December 2015, six system disturbances were reported on the SAPP interconnected system. The 400 kV Zimbabwe - Botswana interconnector tripped twice due to adverse weather conditions and lightning. It also tripped due to undamped inter-area power swings triggered by loss of 445 MW customer load in South Africa. In the fourth disturbance, an output of 873 MW was lost from the Mozambique - South Africa HVDC link and so power system frequency dropped to 49.414 Hz. In the fifth disturbance, while one circuit of the 330 kV Zimbabwe - Zambia interconnection was out of service for planned maintenance, the other circuit tripped on underfrequency protection. Subsequently, considerable generation and customer load tripped on underfrequency in Zambia and DR Congo. In the sixth one, equipment failure at a major substation led to tripping of transmission lines and customer loads. Figure below gives an outlook of reported SAPP system disturbances.



*Reported SAPP System Disturbances*

### Workshop on Power Transfer Limits

From 8 to 10 December 2015 a Task Team comprising engineers from SAPP coordination Centre, ZESA, ZESCO, CEC and SNEL held a workshop in Harare, Zimbabwe. The objective of the workshop was to carry out power system studies and determine power transfer limits on interconnectors and critical transmission paths in the Zimbabwe, Zambia and DR Congo power systems. The determined limits will be applicable in the year 2016 and will be used in power system and energy markets operations.

### Update on SAPP Projects

#### Zimbabwe – Zambia - Botswana -Namibia (ZIZABONA) Transmission Project

The Transaction Advisor (TA) for the project has submitted an Interim Report to the SAPP for comments. This has since been circulated to ZIZABONA project members for review and comments. The SAPP-Coordination Centre will respond to the TA as soon as comments are received from members.



**Southern African Power Pool (SAPP)**  
 24 Golden Stairs Road, P.O. Box EH52, Emerald Hill,  
 Harare, Zimbabwe,  
 Tel: +263-4-335517/335558 / 335468 Fax: +263-4-307023  
 Email: [info@sapp.co.zw](mailto:info@sapp.co.zw) Website: [www.sapp.co.zw](http://www.sapp.co.zw)



### Mozambique - Zimbabwe - South Africa (MOZISA) Inter-connector Project

KPMG who are the Transaction Advisors on the MOZISA Project completed the Technical Input Report. The report contains information on the utility loadforecast, generation and transmission projects information that would be used for the next stage of the studies. The transmission project components have been defined in the 3 countries.

### 400kV Botswana - South Africa (BOSA) Project

The Technical Evaluation of the proposal received was finalised. The financial evaluation was conducted and is to be finalised.

### Angola - Namibia (AnNa) Inter-connector Project

The first meeting for the Angola –Namibia (AnNa) Inter-connector was convened in Windhoek, Namibia in December, 2015. Timelines for project activities were set and agreed upon. Draft Inter-Governmental Memorandum of Understanding (IGMOU) and draft Inter-Utility Memorandum of Understanding (IUMOU) have since been forwarded to both RTN (Angola) and NamPower (Namibia) for their finalization.

## Electricity Trading

### Energy Traded

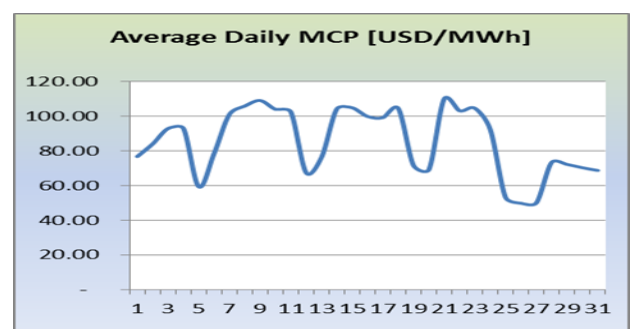
Trading in the market was relatively lower during the month of December 2015 when compared to November 2015. The SAPP opened for live trading the intra-day market from the 1<sup>st</sup> of December 2015. With regards to bids submitted, there were more buy bids than sale offers received in December 2015 in the day

ahead market trading platform. A total of 275,739 MWh Sale offers and a total of 560,102 MWh Buy bids were received in December 2015. There was a large increase of 30,621 MWh or 12% in Sale offers received and another huge increase of 21,372 MWh or 4% in Buy bids received in December 2015 when compared to November 2015 figures of 245,118 MWh Sale offers and 538,730 MWh Buy bids received.

Total traded volumes on DAM and IDM was relatively lower in December 2015 at 116,005.40 MWhr. Of this, 85% or 98,026.40 MWh was traded on DAM while 17,979.00 MWh or 15% was traded in IDM. IDM increased by 571.30 MWh or 3% in December 2015 when compared to November 2015 where 17,407.70 MWh was traded in PDAM. On the other hand DAM traded volume decreased by 11,758.30 MWhr or 11% from the 109,784.70 MWh recorded in November 2015.

### Market Clearing Prices

Prices were relatively stable in the market for most of the days during the month of December 2015. The average monthly market clearing price (MCP) was slightly higher during the month of December 2015 at 8.55 USc/KWh when compared to the 8.08 USc/KWh recorded in November 2015. Below is a summary of the daily average MCPs for the month of December 2015.



Average Daily MCP, December 2015



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 24 Golden Stairs Road, P.O. Box EH52, Emerald Hill,  
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## Market Revenues

A total of **USD 7,375,518.36** was exchanged on the DAM and IDM market during the month of December 2015 when compared to a total of **USD 9,432,382.85** exchanged in November 2015. The decrease is mainly attributed to the decrease in traded volumes.

## Environmental Corner

### Environmental and Social Management Framework for the SAPP

A consultant to craft the Environmental and Social Management Framework for SAPP is being procured. The World Bank issued a no objection for the issuing of a Request for Proposals to the shortlisted firms for the assignment and this will be concluded during the month of February, 2016.

## Upcoming Events

| DATE                 | EVENT  |
|----------------------|--|
| 11-12 Jan 2016       | Bilateral Wheeling and Energy Imbalance Modules FAT, <b>Johannesburg, South Africa</b> |
| 14-15 Jan 2016       | SAPP-RERA-USAID Meeting, <b>Johannesburg, South Africa</b>                             |
| 20-21 Jan 2016       | SAPP Pool Plan Kick-off Meeting, <b>Harare, Zimbabwe</b>                               |
| 25-28 Jan 2016       | Bilateral Wheeling and Energy Imbalance Modules SAT, <b>Johannesburg, South Africa</b> |
| 2-4 Feb 2016         | SAPP-MTP Certification Training, <b>Johannesburg, South Africa</b>                     |
| 11-12 Feb 2016       | Joint PSC/MSD Meeting on Transmission Pricing, <b>Harare, Zimbabwe</b>                 |
| 16-18 Feb 2016       | 8 <sup>th</sup> Annual Africa Energy Indaba, <b>Johannesburg, South Africa</b>         |
| 22-24 Feb 2016       | 46 <sup>th</sup> SAPP Management Committee Meetings, <b>Luanda, Angola</b>             |
| 24 Feb 2016          | SADC Energy Thematic Group Meeting, <b>Gaborone, Botswana</b>                          |
| 22-25 March 2016     | Power Pool Meetings / APUA Scientific Committee Meeting, <b>Dakar, Senegal</b>         |
| 31 March 2016<br>TBC | 40 <sup>th</sup> SAPP Executive Committee Meeting, <b>Dar es Salaam, Tanzania</b>      |



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