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## Meetings, Workshops and Conferences

### SAPP Executive Committee Meeting, Lilongwe, Malawi

The 43<sup>rd</sup> SAPP Executive Committee meeting was held in Lilongwe, Malawi and was officially opened by the Minister of Natural Resources, Energy and Mining, Honourable Aggrey Masi MP. He stressed the need for greater regional integration and in particular

to have the non-operating members Angola, Malawi and Tanzania to be connected to the SAPP grid as the interconnections brings diversity of energy resources.



*Honourable Minister of Natural Resources, Energy and Mining, and SAPP Executive Committee Members*

### SADC Energy Thematic Group Meeting, Gaborone, Botswana

The SADC Energy Thematic Group meeting was held in Gaborone, Botswana. The SAPP presented the status of the generation and transmission projects and highlighted the key electricity market performance indicators.

### Mid Term Review for the SAPP Program for Accelerating Regional Energy Projects (AREP)

The World Bank and Sida met and presented the progress of the SAPP AREP Program to the SAPP Executive Committee in Lilongwe, Malawi. The presentation focused on:

- Update on the progress of the AREP and seeking feedback of future recommendations
- The effectiveness of the PAU
- How SAPP can move from project development to implementation



## AfDB Infrastructure Consortium for Africa (ICA) Conference, Rome, Italy

The 13th annual meeting of the Infrastructure Consortium for Africa (ICA) was jointly organized by the African Development Bank (AfDB) and the Government of Italy and was held in Rome from 19 to 20 October 2017. The theme for the conference meeting was "Towards the Promotion of Smart and Integrated Infrastructure for Africa: An agenda for Digitalization, Decarbonisation and Mobility." African Regional Economic Communities (RECs), specialized institution such power pools, and the Corridor Management Institutions were identified as key stakeholders of ICA and were invited to this conference meeting. Papers on promoting smart infrastructure in Africa, digitisation technology, decarbonisation of energy, and world energy outlook were presented. ICA also presented its 2016 annual report on infrastructure financing trends in Africa and findings of the performance of African power pools. The Government of Italy pledged continued support for development of infrastructure in Africa. The SAPP was represented by the Operations Engineer.



*Some delegates at the ICA Conference Meeting in Rome*

## 14<sup>th</sup> SAPP Traders and Controllers Forum, Gaborone, Botswana

The 14<sup>th</sup> SAPP Annual Energy Traders and System Controllers Forum was held from 25 to 26 October 2017 in Gaborone, Botswana. The forum was officially opened by the Botswana Power Company (BPC) Chief Operating Officer, Mr. Jonathan Raheem Hosseini. In his speech, he observed the important role traders and controllers play in the efficient operation of the interconnected power system. Participants shared information about their power systems and discussed various challenges in energy trading and system operations, including transmission constraints and system disturbances. They also visited the 400/220 kV BPC Isang substation for familiarisation.



*Some delegates to the 14<sup>th</sup> SAPP Annual Traders and Controllers Forum during the opening ceremony with the guest of honour, BPC Chief Operating Officer, Mr. Hussein, and BPC General Manager (Transmission and Distribution), Mr. Rugoyi.*



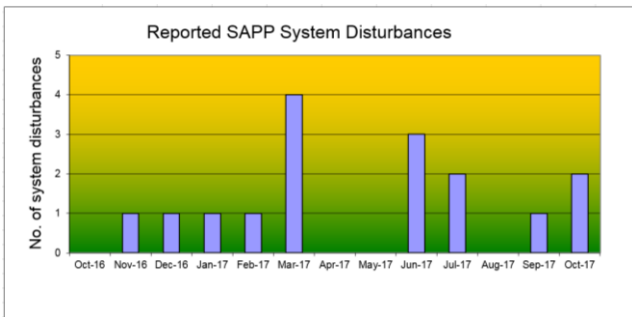
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## System Operations

### System Disturbances

In the month of October 2017, two SAPP system disturbances were reported. On two occasions, outputs of about 900 MW were lost from the Mozambique - South Africa HVDC link when pole 1 tripped due to faults on converter bridges in Mozambique. As a result, the power system frequency dropped to below 49.50 Hz. But the frequency was quickly corrected to the normal band. Refer to figure below for a general outlook of reported SAPP system disturbances.



Reported SAPP System Disturbances

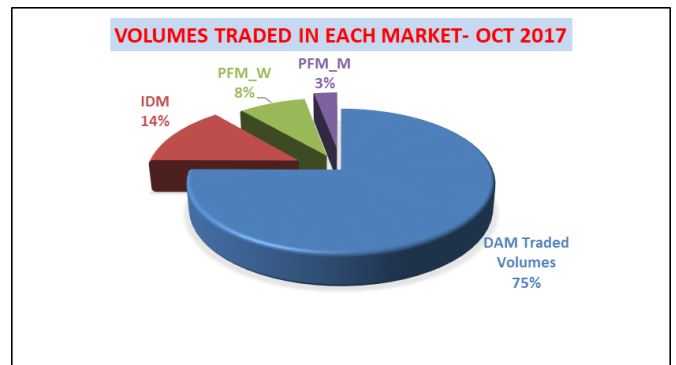
### Equipment Outage

Various planned equipment maintenance works were carried out in the month of October 2017. The one that mainly affected energy interchange among SAPP countries occurred on 15 October 2017. The 400 kV Botswana - Zimbabwe interconnector was taken out of service to replace burnt contacts on the 400 kV isolator at Phokoje in Botswana.

## Electricity Trading

### Energy Traded

October 2017 recorded the highest trades so far in a single month on the competitive markets. Total traded volumes on the Day Ahead market (DAM), intra-day market (IDM), Forward Physical Market Monthly (FPM-M) and Forward Physical Market Weekly (FPM-W) increased by **20.9%** to **245,163.30 MWh** in the month of October 2017, from the September 2017 volume of **202,715.90MWh**. Below is the overview of volumes traded in DAM, IDM, FPM-M and FPM-W for the month of October 2017.



Traded Volumes in MWh in DAM, IDM, FPM-W and FPM-M for the month of October 2017.

### Market Clearing Prices

#### FPM-Monthly Prices

Non off-peak prices decreased by **3.6%** from **6.282USc/KWh** in September 2017 to **6.053USc/KWh** in October 2017. Off Peak prices decreased by **5.9%** from **3.095USc/KWh** in September 2017 to **2.912USc/KWh** in October 2017.



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## FPM-Weekly Prices

The average price for the Peak period was lower by **9.1%** at **8.88USc/KWh** in October 2017 from the September average peak price of **9.772USc/KWh**. Standard period average prices increased from the September 2017 average prices of **5.882USc/KWh** to **5.903USc/KWh** in October 2017. The average Off-Peak price decreased by **2.1%** from **2.788USc/KWh** in September 2017 to **2.73USc/KWh** in October 2017.

## Day Ahead Market Prices

The monthly average Day Ahead market clearing price (MCP) was slightly lower during the month of October 2017 at **4.82USc/KWh** when compared to the **4.871USc/KWh** recorded in September 2017.

## IDM Prices

The average peak spot price for the IDM market for the month of October 2017 increased to **7.428 USc/KWh** from the September average figure of **7.341 USc/KWh**. The average standard price also increased from **5.508 USc/KWh** in September to **5.830 USc/KWh** in October 2017. The average off peak price however declined from **2.998 USc/KWh** in September to **2.749 USc/KWh** in October 2017.

## Market Revenues

A total of **USD12,853,812.89** was exchanged on the DAM, IDM, FPM-W and FPM-M markets during the month of October 2017 when compared to a total of **USD10,314,359.45** exchanged in

September 2017. The increase is mainly attributed to increase in traded volumes.

## Update on SAPP Projects

### Botswana - South Arica (BOSA) Interconnector

The business case scenarios have been developed. Work on the network modelling and market analysis is ongoing and a high level overview was presented at a project meeting held on 11 October 2017 in Pretoria, South Africa.

### Angola - Namibia (ANNA) Interconnector

A concept development workshop was held in Pretoria, South Africa to look at the line route selection alternatives. The technical studies are ongoing.

### Zimbabwe - Zambia - Botswana - Namibia (ZIZABONA) Interconnector

The business case development reports for the ZIZABONA project were delivered for the 3 project components namely:

- Component A: Zimbabwe - Zambia
- Component B: Zimbabwe - Botswana
- Component C: Zambia - Namibia

The financial and economic assessments were completed. The preliminary designs are almost complete.



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## Environmental Corner

### Climate Change – SAPP Grid Emission Factor

The study on the SAPP Grid Emission Factor is on-going. As part to the study, the SAPP and the Consultant for the study are considering screening options for a Renewable Energy and Energy Efficiency financing mechanism in a bid to identify which funding structures may be used to support renewable energy in the SAPP region. In order to design an effective financing approach, it is essential to build a strong understanding of barriers to Renewable Energy and Energy Efficiency employment in the region. The consultant is currently conducting interviews with different stakeholders who include, utilities, regulators and Independent Power Producers (IPPs).

### Upcoming Events

DATE	EVENT
1 – 2 Nov 2017	Telecommunications Working Group Meeting, Johannesburg, <b>South Africa</b>
1 – 2 Nov 2017	ZIZABONA Technical, Finance & Management Committee Meeting, Johannesburg, <b>South Africa</b>
1 – 3 Nov 2017	2 <sup>nd</sup> Legal Working Group Meeting, Windhoek, <b>Namibia</b>
6 - 9 Nov 2017	PCB Phase-out review meeting, Pretoria, <b>South Africa</b>

6 – 19 Nov 2017	Conference of Parties (COP) 23 on Climate Change, Bonn, <b>Germany</b>
8 – 9 Nov 2017	Operating Guideline Penalties Clarification Meeting, Harare, <b>Zimbabwe</b>
8 -10 Nov 2017	AFSEC ATC Meeting, Johannesburg, <b>South Africa</b>
14 -17 Nov 2017	CIGRE Conference, Cape Town, <b>South Africa</b>
15 – 16 Nov 2017	SAPP Human Resources Working Group Meeting, Luanda, <b>Angola</b>
17 – 25 Nov 2017	SAPP MANCO Study Tour to Europe, <b>Europe</b>
22 – 23 Nov 2017	SAPP Power Transfer Limits Workshop Meeting for the Eskom Control Area, Johannesburg, <b>South Africa</b>
14 Dec 2017	SAPP Finance Working Group, Harare, <b>Zimbabwe</b>
7 - 8 Dec 2017	1st meeting of the Ad Hoc Working Group on Clean Energy Financial Mechanism (CEFM) for Southern African Power Pool (SAPP),- Victoria Falls, <b>Zimbabwe</b>



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