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of emergency energy rates in SAPP. The OSC discussed recent SAPP system disturbances and received reports from the telecommunications and power quality working groups.

### SAPP Power Quality Working Group Meeting

Power quality issues are becoming more prominent to regulators, power utilities and customers. A few years ago the SAPP formed a working group on power quality. The working group developed a SAPP standard for power quality as well as a specification for a SAPP power quality meter. Power quality meters have now been installed on most interconnectors in SAPP. From 4 to 5 July 2018 the SAPP power quality working group met in Maputo, Mozambique. The working group discussed monitoring and measurement of power quality. Common power quality problems and associated mitigation measures were also discussed. Members agreed to share power quality data in SAPP according to a set procedure.



*Some members of SAPP Power Quality Working Group at Maputo Gas Power Plant (under construction) in Mozambique*

## Meetings, Workshops and Conferences

### SAPP MSC and OSC Meetings

The SAPP Markets and Operating Sub-Committees (MSC and OSC) met jointly in Johannesburg from 24 to 25 July 2018. They deliberated on the proposed new SAPP membership categories. They also discussed the application of market trades in accredited capacity obligation. In break-away sessions, the MSC discussed trading issues and the application

### 6<sup>th</sup> AFSEC General Assembly

The African Electro-technical Standardisation Commission (AFSEC) was inaugurated on 28 February 2008 and was underpinned by a



declaration of the Conference of African Ministers of Energy held in Algiers on 17th February 2008. All users of electro-technical standards in African countries (electricity utilities, the national standards bodies, electricity regulators, consultants, contractors and suppliers of electrical equipment and services) are called upon to participate in the activities of AFSEC, by forming national electro-technical committees in their countries. Several countries, including Zambia and Namibia in the southern African Region, already have fully established committees, either as members of the IEC, or through the IEC affiliate country programme for developing countries. Zimbabwe officially joined AFSEC in 2017 and is in the process of forming her national electro-technical committees. National electro-technical committees are potential statutory members of AFSEC. AFSEC also recognises the importance of users of standards and has identified regional power pools, including Southern African Power Pool (SAPP), as potential affiliate members. AFSEC held its 6th General Assembly in Abidjan, Côte d'Ivoire, from 17 to 19 July 2018. SAPP was invited to observe the General Assembly (GA) and participate in the Conformance Assessment Committee (CAC) meeting and was represented by the Operations Engineer. As SAPP prepares to interconnect with East African Power Pool (EAPP), AFSEC is a good platform for harmonisation of electro-technical standards.



*Some delegates of the AFSEC 6<sup>th</sup> General Assembly in Abidjan, Côte d'Ivoire*

## PowerGen Africa Conference 2018

The SAPP CC Manager chaired a session at the PowerGen Africa Conference in Johannesburg, South Africa on 18 July 2018 on the topic "Electricity Infrastructure Growth and Industry Trends".

## System Planning

### SAPP Pool Plan Dissemination

The SAPP together with the Consultant who developed the SAPP Pool Plan started the dissemination of the SAPP Pool Plan to the various stakeholders that includes the Departments of Energy, utilities and regulators.

The objective of the dissemination is for highlighting the key country benefits of implementing the SAPP Pool Plan and the benefits of regional integration. During the month presentations were done in Botswana, Eswatini, Mozambique, South Africa and Tanzania.

### SAPP EAPP Transmission Integration Study

The SAPP and EAPP Secretariats attended a workshop in Addis Ababa, Ethiopia on the review of the draft report on the study that was issued by the Consultant. Comments are being compiled for incorporation in the final draft report.

### Renewable Energy Impact Study

The SAPP is to issue the Request for proposals for the SAPP Renewable Energy Impact Study as this is awaiting internal approvals.



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## System Operations

### System Disturbances

In the month of July 2018, three (3) SAPP system disturbances were reported. The first one was due to a line fault in northern Mozambique and led to tripping of one generator in Mozambique and tripping of the interconnector between Mozambique and Zimbabwe. The second one was also due to a line fault and affected the interconnection between Zambia and DR Congo. The last one was a power frequency excursion event caused by tripping of a generator in South Africa. Refer to Figure 1 below for the general outlook of reported SAPP system disturbances.

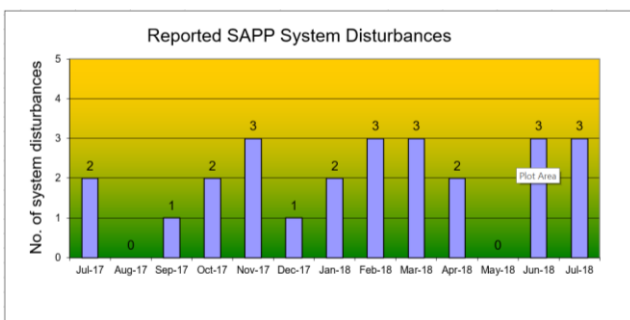


Figure 1 SAPP System Disturbances

## Electricity Trading

### Energy Traded

Trading in the competitive electricity market was significantly higher during the month of July 2018 when compared to June 2018. 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 58% to 195.8GWh in the month of July 2018, from the June 2018 volume of 123.8GWh. The July 2018 traded volume was higher by 20% when compared to July 2017 in which traded volumes were 162.8 GWh.

### Market Clearing Prices

#### FPM Monthly Prices

Non-off-peak prices increased by 28% from 7.00USc/KWh in June 2018 to 8.99USc /KWh in

July 2018. Off Peak prices decreased by 16% from 3.41USc/KWh in June 2018 to 2.85USc/KWh in July 2018.

#### FPM Weekly Prices

The average price for the Peak period was higher by 16% at 13.16USc/KWh in July 2018 from the June 2018 average peak price of 11.36USc/KWh. Standard period average prices also increased from the June 2018 average price of 6.30USc/KWh to 7.25USc/KWh in July 2018. The average Off–Peak price was down from 2.65USc/KWh in June 2018 to 2.59USc/KWh in July 2018.

#### Day Ahead Market

The monthly average Day Ahead market clearing price (MCP) was higher during the month of July 2018 at 6.45USc/KWh when compared to the 5.34USc/KWh recorded in June 2018.

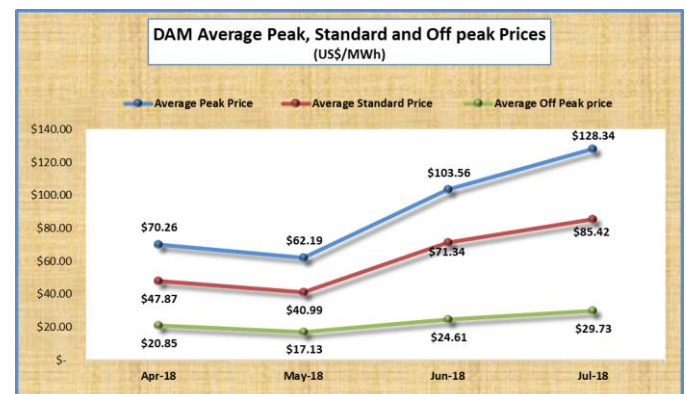


Figure 2 Daily Average MCP Prices April-July 2018

#### Intra Day Ahead Market (IDM)

The average peak spot price for the IDM for the month of July 2018 was 12.89USc/KWh from the June 2018 average of 11.15USc/KWh. The average standard spot price increased from 6.05USc/KWh in June 2018 to 8.69 USc/KWh in July 2018. The average off-peak spot price increased from 2.43USc/KWh in June 2018 to 3.19USc/KWh in July 2018.



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## Market Revenues

A total of **USD 14** million was exchanged on the DAM, IDM, FPM-W and FPM-M markets during the month of July 2018 when compared to a total of **USD7** million exchanged in June 2018. The change is mainly attributed to increased traded volumes.

## Update on SAPP Projects

### Angola – Namibia (ANNA) Interconnector Project

The line route selection workshop was held at Aurecon Offices in Pretoria, South Africa and the workshop was attended by stakeholders. The selection of the best route is an optimisation exercise, which aims to minimise the impacts on the environment and people, while accommodating technical challenges in the most cost-effective way.

The Project Committee and Management Committee meetings were held in Luanda, Angola to evaluate the status of the project's progress.

### Mozambique – Zimbabwe – South Africa (MOZISA) Interconnector Project

The project has been split into 2 components namely Zimbabwe - South Africa and Mozambique - Zimbabwe. Project concept notes are being developed.

### Botswana – South Africa (BOSA) Interconnector Project

The Environmental Authorisation (EA) for the South African portion of the transmission line was approved in June 2018. The revised draft ESIA and Specialist Studies report is expected in August 2018.

## Mozambique - Zambia Interconnector Project

The Project scoping report was issued in May 2018 and the consultants are working on the scoping report for the environmental part,

## Environmental Corner

### SAPP Grid Emission Factor Update

The updating of the SAPP Grid Emission Factor (GEF) has now been completed and submitted to the United Nations Framework Convention Framework on Climate Change (UNFCCC) for approval. The Grid Emission Factor will assist power utilities in accounting for their carbon -footprint as well as accessing Carbon funds.

The GEF is also used by SADC Governments for the estimation of GHG emissions from the electricity sector as well as facilitating their reporting requirements to United Nations Framework Convention on Climate Change.

### Implementation of ISO 14001:2015

The SAPP Environmental Sub-Committee (ESC) held a two-day Training Workshop for the ESC members on ISO 14001:2015 in Harare on 25 to 26 July 2018. A total of 14 members took part in this training that will enable them to implement the Environmental Management System ISO 14001:2015. Currently only Eskom and Eswatini Electricity Company (EEC) are ISO 14001:2015 ISO Certified.



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## Upcoming Events

DATE	EVENT
1 – 3 August 2018	Transmission Model Discussion of Results, Harare, <b>Zimbabwe</b>
6 - 9 August, 2018	Crime Prevention Working Group Meeting, <b>Tanzania</b>
6 - 7 August 2018	SAPP – EAPP Transmission Integration Study Workshop 4 – Updated final report presentation, <b>South Africa</b>
8 – 10 August 2018	Balancing Markets Workshop, Johannesburg, <b>South Africa</b>
16 -17 August 2018	Integrated Demand Management Working Group Meeting, <b>Zambia</b>
19 – 25 August 2018	SAPP PSC and Transmission Pricing Task Team Study Tour, Delhi, <b>India</b>
20 - 28 August 2018	SAPP Pool Plan Dissemination Workshops County Visits Part 2, Angola, Zambia, Zimbabwe, Lesotho, Namibia, Malawi
29 – 31 August 2018	CTCN – SAPP – U4E Regional Meeting, Victoria Falls, <b>Zimbabwe</b>
29 – 31 August 2018	Legal Working Group Meeting, Lilongwe, <b>Malawi</b>
3 -7 Sept 2018	51 <sup>st</sup> SAPP Management Committee Meetings, <b>Arusha, Tanzania</b>
4 Sept 2018	Finance Working Group Meeting, <b>Tanzania</b>
17 – 21 Sept 2018	SAPP Executive Committee Visit to Europe on Power Pool Development and Market Operations, <b>Europe</b>
1 – 4 Oct 2018	Africa Smart Grid Conference (AFSEC), Kigali, <b>Rwanda</b>

17-18 Oct 2018	15 <sup>th</sup> SAPP Energy Traders and System Controllers Forum, Windhoek, <b>Namibia</b>
25 Oct 2018	SAPP Annual Meeting and 45 <sup>th</sup> SAPP Executive Committee Meetings, <b>Zimbabwe</b>
Nov 2018	Human Resources Working Group Meeting, <b>Tanzania</b>
Nov/Dec 2018	Finance Working Group Meeting, Harare, <b>Zimbabwe</b>
Dec 2018	Climate Change Conference UNFCCC COP 24, <b>Katowice, Slaskie, Poland</b>



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