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## Meetings, Workshops and Conferences

### 37<sup>TH</sup> SAPP CC Board Meeting

The 37<sup>th</sup> SAPP CC Board meeting was held at the SAPP CC offices in Harare on 6 December 2018.

## SADC Energy Sub-Committee Meetings

The SADC Energy Sub-Committee held meetings in Windhoek, Namibia from 11 to 13 December 2018. The meeting looked at the revision of the SADC Protocol on Energy among other things. The World Bank made a presentation on their envisaged regional engagement strategy. SAPP was represented by the SAPP CC Manager and the PAU Transaction Advisor.

## SAPP Finance Working Group Meeting

The Finance Working Group Members met on 5 December 2018 at the SAPP CC Offices in Harare to review the budget proposals for 2019/20.

## SAPP Power Transfer Limits Workshop

On an annual basis, the SAPP updates power transfer limits on cross-border tie lines. Adhering to established transfer limits is crucial to reliable operation of the interconnected power system. A power system study workshop to determine transfer limits for the coming year, 2019, for Botswana, Mozambique, South Africa, Lesotho, Eswatini and Namibia was held in Johannesburg, South Africa, from 11 to 13 December 2018. The workshop was attended by participants from the following power utilities: Eskom, EDM, EEC, BPC, and NamPower.



## System Planning

### Transmission Pricing Modelling

The SAPP continued with the update of the SAPP Transmission Pricing Model (TPM). A workshop was held at the SAPP Coordination Centre offices in Harare from Tuesday 18 December 2018 to Thursday 20 December 2018. The main objective of the workshop was to analyse the output results of the Transmission Pricing Model in preparation for the TPM presentation to the joint sub-committee meetings to be held in January 2019.

### Wheeling

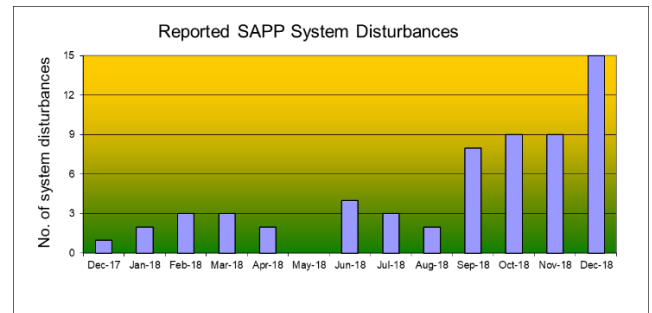
The SAPP updated the wheeling charges considering the equipment commissioned in 2018.

## System Operations

### System Disturbances

In the month of December 2018, fifteen SAPP system disturbances were reported. In the first one, the interconnection transformer in Mozambique for the Zimbabwe tie line tripped. In the second one, a generation output of about 2800 MW was lost in South Africa due to a 400-kV bus-bar fault at a power plant. In the third one, a converter bridge tripped on the Mozambique-South Africa HVDC link. The rest of the disturbances were characterised by frequency excursions, power oscillations and high system voltages especially in Zambia and the central corridor of the interconnected power system. A few were initiated by tripping of the Zambia - DR Congo tie lines on over-power protection while most of them are still

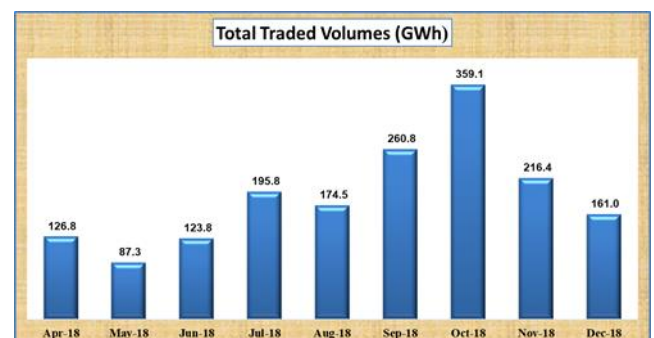
under investigation. Refer to the figure below for the general outlook of reported SAPP system disturbances.



## Electricity Trading

### Energy Traded

Trading in the market was lower during the month of December 2018 when compared to November 2018. Total traded volumes on the Day Ahead market (DAM), Intra-Day Market (IDM), Forward Physical Monthly Market (FPM-M) and Forward Physical Weekly Market (FPM-W) decreased by 26% to 161GWh in the month of December 2018, from the November 2018 volume of 216GWh. The December 2018 traded volume was lower by 31% when compared to December 2017 in which traded volumes were 234 GWh.



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## Market Clearing Prices

### FPM Monthly Prices

Non-off-peak prices increased by 16% from 6.1USc/KWh in November 2018 to 7.1USc/KWh in December 2018. Off Peak prices decreased by 4% from 2.8USc/KWh in November 2018 to 2.7USc/KWh in December 2018.

### FPM Weekly Prices

The average price for the Peak period was higher by 49% at 12.8USc/KWh in December 2018 from the November 2018 figure of 8.6USc/KWh. Standard period average prices remained the same for November 2018 and December 2018 at 5.7USc/KWh. The average Off–Peak price decreased from 2.9USc/KWh in November 2018 to 2.7USc/KWh in December 2018.

### Day Ahead Market

The monthly average DAM market clearing price (MCP) was lower during the month of December 2018 at 5.0USc/KWh when compared to 5.7USc/KWh recorded in November 2018.

### Intra Day Ahead Market (IDM)

The IDM average price for the peak period for the month of December 2018 was 8.7USc/KWh which was lower when compared to the November 2018 figure of 9.2USc/KWh. The average price for the standard period decreased from 6.4USc/KWh in November 2018 to 6.2USc/KWh in December 2018. The average price for the Off-Peak period decreased from 3.3USc/KWh in November 2018 to 2.7USc/KWh in December 2018.

## Market Revenues

A total of USD 6.7 million was exchanged on the market during the month of December 2018 when compared to USD 11.4 million



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exchanged in November 2018. The change is mainly attributed to reduced traded volumes.

## Update on SAPP Projects

### Angola – Namibia Interconnector Project

A project meeting was held on the 14<sup>th</sup> of November 2018 and a follow up meeting was held on the 15<sup>th</sup> December 2018 at which the technical report was signed.

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

The Business Case Studies are in progress and the Final Network Analysis Report will be delivered in the next reporting period. The Environmental Impact Assessment Report for the Botswana portion of the line is under review by the Authorities.

### Kolwezi - Solwezi Interconnector Project

The Preliminary Design Report was approved on the 13<sup>th</sup> December 2018 with all parties in agreement to proceed with the routing option to pursue.

### Luapula Hydro-Electric Power Scheme Project

The Inception Report was submitted in English, with all comments from the Stakeholders addressed.

A workshop was held on the 04<sup>th</sup> of December 2018. It was requested that the Environmental and Technical Consultants agree on the multi criteria analysis (MCA), and the decision-making should be based on the agreement between SAPP and the Utilities before the MCA Workshop. The date for this workshop is dependant on

development and approval of these stakeholders prior to the workshop.

### **Mozambique - Zambia Interconnector Project**

The Final Preliminary Design Report was approved. The coordination activities of both the Lidar survey and Geotechnical investigations are ongoing. Financial Modelling and Economic Analysis activities are in progress.

The Final Scoping Report and the Draft Terms of Reference for specialist studies were submitted to the Zambian and Mozambican Environmental Management Agencies.

### **Mozambique - Zimbabwe – South Africa Interconnector Project**

MOZI:

SAPP has assisted EDM and ZESA to prepare documents in support of application for funding from the DBSA, which had to be renewed due to project implementation delays.

EDM is the lead utility and the project has requested for SAPP's continued involvement and support.

### **ZIZABONA Interconnector Project**

The Final Technical, Financial and Economic Feasibility Reports have been completed and approved by the sponsors for Component A, B and C of the project. Current project activities include the preparation of Tender documentation for procurement, Financing, Legal and reconfirming and updating Environmental Studies. Discussions are in progress with AfDB for the funding of component A.

### **Environmental Corner**

### **SAPP Climate Change Adaptation and Mitigation Strategy**

The SAPP Climate Change adaptation and mitigation strategy is being updated in line with the Conference of Parties (COP) 24 Agreements.

### **Upcoming Events**

DATE	EVENT
9 –13 Jan 2019	IRENA Assembly, Abu Dhabi, <b>UAE</b>
15-18 Jan 2019	SAPP Sub Committee and Legal Working Group Meeting, Johannesburg, <b>RSA</b>
29 –31 Jan 2019	Power Transfer Limits Meeting, Lusaka, <b>Zambia</b>
30 Jan 2019	Finance Working Group Meeting, Harare, <b>Zimbabwe</b>
3 – 5 Feb 2019	Solar Knowledge Exchange 2019, <b>Morocco</b>
19 – 20 Feb 2019	Africa Energy Indaba, Johannesburg, <b>South Africa</b>
26 – 28 Feb 2019	52 <sup>nd</sup> SAPP Management Committee Meetings, <b>Namibia</b>
19 –20 Mar 2019	SAPP EXCO Meetings, Harare, <b>Zimbabwe</b>
25 - 28 Mar 2019	SADC Officials Meetings, <b>TBA</b>



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26-27 Mar 2019	Power Electricity World Africa 2019, Johannesburg, <b>South Africa</b>
26 – 27 Mar 2019	Solar Show Africa, Johannesburg, <b>South Africa</b>



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