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Meetings, Workshops and Conferences

Joint Markets and Operating Sub-Committee Meeting

The SAPP Markets Sub-Committee (MSC) and the Operating Sub-Committee (OSC) met jointly in Johannesburg on 24 April 2017. The joint meeting resolved cross-cutting issues on handling of inter-Control Area imbalance energy. The joint meeting also developed a procedure for handling intra-Control Area imbalance energy within a Control Area. However, it was noted that handling of intra-Control Area imbalance energy is mostly handled bilaterally in power purchase

agreements. The developed SAPP procedure will be applicable where there are no bilateral arrangements for handling intra-Control Area imbalance energy.



Some MSC and OSC members at the joint meeting

Then, from 25 to 26 April 2017, the MSC held a meeting at the same venue and discussed the following:

- Treatment of non-firm bilateral transactions in allocating transmission capacity for the Day-Ahead Market (DAM);
- Charging of wheeling losses arising from bilateral transactions
- Terms of reference for the MSC task team of information technology (IT) experts; and,
- Acquisition of certificates of origin for power traded through the SAPP market.

Blackout and Power Supply Emergency Preparedness Working Group Meeting

The SAPP Blackout and Power Supply Emergency Preparedness Working Group held its first meeting from 25 to 26 April 2017 in Johannesburg, South Africa. The Working Group elected Eskom as the chairperson. The Working Group received and discussed country or utility reports on black-out procedures and power supply emergency preparedness. The Working Group also reviewed regional interconnection risk controls and treatment plans to reduce vulnerability. The Working Group is now working on coordination of defense barriers and integration of technical responses for power supply restoration during emergencies.





Some members of the working group at the meeting

2017 Inter-Power Games

The Inter-Power Games (IPG) have been in existence for the past 22 years, since inception in 1995. The games bring together employees from power utilities in Botswana, Lesotho, Namibia, South Africa and Swaziland with an idea of providing a platform for networking and sharing ideas on common issues and promoting team building through sports. The sports codes hosted by the IPG include soccer, athletics, netball, volleyball, darts, tug of war, golf, tennis, table tennis, chess and snooker.

The 2017 IPG games were hosted by NamPower in Windhoek, Namibia on Friday the 14th of April and Saturday the 15th of April 2017. The event was officially opened by NamPower Managing Director. Prior to the event, the IPG executive committee met on the 12th and 13th of April for a final preparatory meeting. Botswana Power Corporation (BPC) were the overall winners this year.

Human Resources Working Group Meeting

The SAPP Human Resources Working Group met in Harare, Zimbabwe in April 2017 to update the various policies and procedures within SAPP.

Association of Power Pools in Africa (APUA) Workshop and Power Pool Forum

The Association of Power Pools in Africa (APUA) held a workshop in Sandton, South Africa focusing on activities to enhance trade and revenue collection. The Power Pools in Africa also held an Annual General Meeting where the Power Pools exchanged experiences in their respective Pools. The SAPP was nominated to Chair the Power Pool Forum for the next one year.

IRENA- SACREE WORKSHOP

IRENA and Southern African Centre for Renewable Energy and Energy Efficiency (SACREEE) jointly hosted a two-workshop from 24 to 25 April in Windhoek, Namibia. The workshop brought together senior officials of the Ministries, utilities, regulatory bodies, the SAPP and research centers from the Southern African Power Pool region. The workshop helped to identify updates to the solar and wind zones under the Africa Clean Energy Corridor and incorporate new developments on the ground. Furthermore, the workshop presented information on earmarked project sites whose financial viability will be assessed in order to guide renewable investments. The SAPP was represented by the Environmental Officer, Johnson Maviya who made a presentation on "Meeting Growing Demands through southern African Regional Integration",



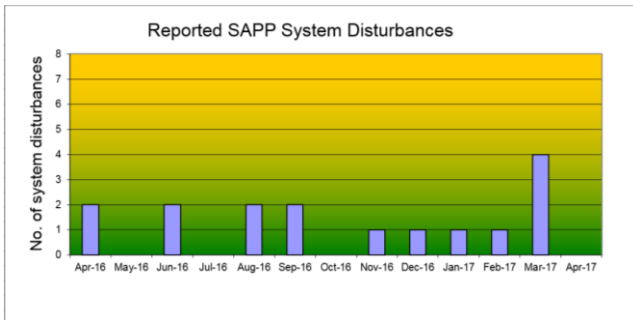
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System Operations

System Disturbances

In the month of April 2017, no SAPP system disturbances was reported. Refer to figure below for the general outlook of reported SAPP system disturbances.



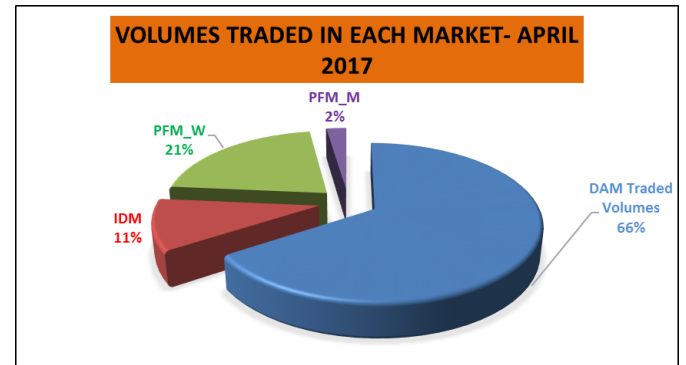
Reported SAPP System Disturbances

Electricity Trading

Energy Traded

Trading in the market was significantly higher during the month of April 2017 when compared to March 2017. 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 63% to 126,853.9 MWh** in the month of April 2017, from the March 2017 figure of 74,880 MWh. Below is the overview of volumes traded in DAM, IDM, FPM-M and FPM-W for the month of April 2017.

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



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

Market Clearing Prices

FPM Monthly Prices

Non off-peak prices decreased by 12.6% from 7.979 USc/KWh in March 2017 to 6.732 USc/KWh in April 2017. Off Peak prices marginally increased by 1.1% from 3.862 USc/KWh in March 2017 to 3.906 USc/KWh in April 2017.

FPM Weekly Prices

The average price for the Peak period was slightly lower by 3.6% at 8.837USc/KWh in April 2017 from the March average peak price of 9.2127USc/KWh. Standard period average prices decreased from the March 2017 average prices of 5.978 USc/KWh to 3.764USc/KWh in April 2017. The average Off-Peak price also marginally decreased by 3.8% from 2.7924 USc/KWh in March 2017 to 2.678USc/KWh in April 2017.

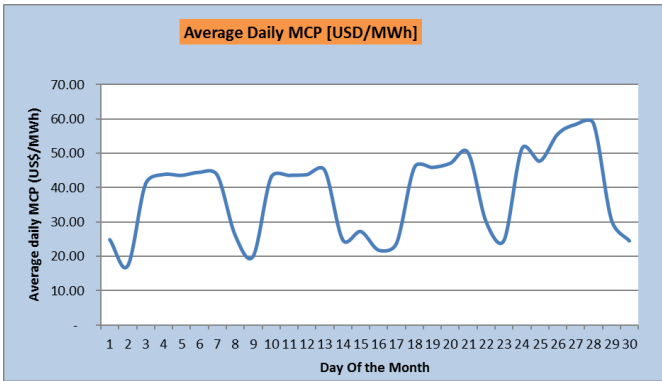
Day Ahead Market

The monthly average Day Ahead market clearing price (MCP) was slightly higher during the month of April 2017 at 3.829USc/KWh when compared to the 3.783USc/KWh recorded in March 2017. Below is a summary of the daily average MCPs for the month of April 2017.



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Daily Average MCP prices for the month of April 2017.

Market Revenues

A total of **USD 3,409,263.31** was exchanged on the DAM, IDM, FPM-W and FPM-M market during the month of April 2017 when compared to a total of **USD 2,707,863.49** exchanged in March 2017. The Increase is mainly attributed to the increase in traded volumes.

Update on SAPP Projects

ZIZABONA Management Committee Meeting

The ZIZABONA Management Committee meeting was held in Johannesburg, South Africa. The project has now been split into three components. The Transaction Advisors, Fichtner have been engaged to complete the project preparation activities.

Environmental Corner

Guidelines for the Management and Control of Electricity Utility Infrastructure with Regard to Animal interaction for the SAPP

Guidelines for the Management and Control of Electricity Utility Infrastructure with regard to Animal Interaction for the SAPP were updated and posted on the SAPP Website. The guideline specifies the requirements for the management of wildlife interactions with overhead lines and substations. The following types of interactions are described: These are:

- Bird collisions with overhead lines
- Electrical faults caused by bird excretions
- The impact of birds breeding on overhead line infrastructure
- Electrocutions
- The impact of construction and maintenance activities in the line servitude on wildlife and other animals in the vicinity



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Upcoming Events

| DATE | EVENT |
|----------------------|---|
| 3 – 4 May 2017 | Project Development Readiness Assessment Mission, Maputo, Mozambique |
| 9 – 11 May 2017 | 2017 World Hydro Congress, Addis Ababa, Ethiopia |
| 11 May 2017 | Website Maintenance Training, Johannesburg, South Africa |
| 12 May 2017 | Meeting on SAPP Priority Projects, Pretoria, South Africa |
| 16 -18 May 2017 | Africa Utility Week , Cape Town, South Africa |
| 16 -18 May 2017 | Power Transfer Limit Studies Workshop, Kitwe, Zambia |
| 22 – 24 May 2017 | 7 th SADC River Basin Workshop and Energy-Food Nexus Workshop, Vaal, South Africa |
| 23 May 2017 | SAPP – NORAD – Sida Annual Meeting, Harare, Zimbabwe |
| 30 May – 1 June 2017 | SAPP Transmission Pricing Task Team Meeting, Harare, Zimbabwe |
| 1 – 2 June 2017 | SAPP MSC Task Team Meeting, Johannesburg, South Africa |
| 6 – 9 June 2017 | Africa Energy Forum, Copenhagen, Denmark |
| 16 June 2017 | International Conference on Renewable Energy Development and Technology, Frankfurt, Germany |

| DATE | EVENT |
|-------------------|--|
| 19 - 20 June 2017 | SADC Electricity Sub Committee Meeting, Windhoek, Namibia |
| 27 - 28 June 2017 | SAPP Pool Plan Utility Workshop, Johannesburg, South Africa |
| July 2017 | SADC Investors Conference, Swaziland |
| 18-20 July 2017 | Power Generation Conference Sandton, South Africa |
| 4 – 8 Sept 2017 | SAPP Management Committee Meetings, South Africa |
| October 2017 | SAPP Executive Committee Meeting, Malawi |



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