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Meetings, Workshops and Conferences

SAPP Pool Plan Workshop

The SAPP held a workshop on 7-8 December 2016 to discuss the progress on the SAPP Pool Plan Study. The workshop also provided an opportunity to discuss and agree on the assumptions for the various countries. The sections covered included the demand study, generation and transmission planning and Geographic Information System (GIS). The draft country generation and transmission plans report is expected the first week of February 2017. The final study report is expected at the end of June 2017.

SAPP Traders and Controllers Study visit to Europe (Group 2)

The second group of the SAPP Energy Traders and System Controllers carried out a Study visit of the European interconnected electric power

system organizations. The study visit was sponsored by the European Union Commission (EU) through the Technical Assistance Facility for the Sustainable Energy for All (SE4ALL) initiative. Companies visited were the French Transmission System Operator RTE, in Paris, France and CORESO and ENTSO-E in Brussels, Belgium. Areas covered during the visit were as follows;

- ❖ Electricity Market structure and organisation in Europe
- ❖ Balancing market including balance responsible entities and congestion management
- ❖ Access to interconnections and the different European network codes
- ❖ Real time operation training of system controllers handling of system disturbances
- ❖ Operation of a power spot exchange
- ❖ Implementation of the European market with the coordination of the interconnections



SAPP Energy Traders and System Controllers during the Study Tour.

Finance Working Group Meeting

The Finance Working Group met from the 5th to the 6th of December 2016 in Harare, Zimbabwe. The meeting deliberated on the SAPP budget for the 3 years from 2017 to 2020, evaluated and recommended an external auditor for SAPP for



the next years from 2017 to 2020, finalized the terms of reference for the external auditors and reviewed the policies and procedures for SAPP.

Power Transfer Limits

Power system simulations were carried out in two workshops to determine or re-confirm power transfer limits on SAPP interconnectors. The first workshop was held in Johannesburg from 5 to 6 December 2016 for power utilities in the Eskom Control Area. The second one was held in Harare from 13 to 16 December 2016 for power utilities in the ZESA and ZESCO Control Areas. All SAPP power utilities participated in these workshops. The transfer limits were due to be applied in the year 2017.



Some Participants at the Transfer Limits Workshop Held in Harare

Renewable Energy Investors and Developers Round Table Workshop

Following the successful launch of NEPAD Support Programme for Renewable Energy Access and the holding of the first investors/developers round table during PIDA Week in Abidjan on 23-24 November 2016, a second investors/developers event was convened in Dakar, Senegal on 12-13 December, 2016.

NEPAD and UNDP with the support of the Ministry of Energy and Development of Renewable Energy in Senegal hosted the event to provide a platform for interaction between the owners of Renewable Energy projects and developers/investors/financiers in order to

conclude arrangements for either further development or financial closure of the projects. The event builds on NEPAD initiative to assist countries that completed its SE4LL Action Agenda and Investment Prospectus to further develop its identified high priority renewable energy projects to implementation.

Countries presented one or two chosen renewable energy projects stating the status of project development and what is needed to take the project to the next stage of development. The projects presented will be considered for funding under NEPAD Support Programme for Renewable Energy Access. Mr. Johnson Maviya represented the SAPP at the Round Table.



A session at the Renewable Energy Investors and Developers Round Table

System Operations

System Disturbances

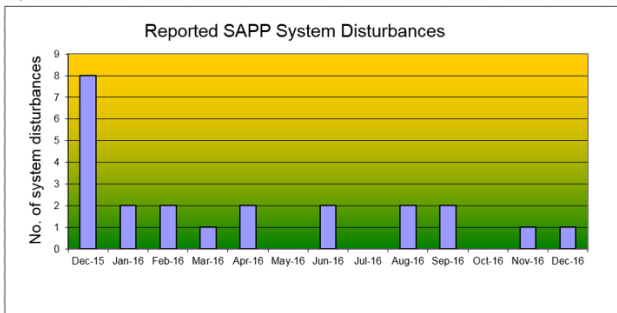
In December 2016 only one incident, of frequency excursion, was reported. About 730 MW from one big unit was lost in South Africa when the unit tripped on over-temperature protection. Frequency dropped from 49.791 Hz to 49.422 Hz and was immediately restored to normal band through demand response participation and taking out units from pump-mode. The figure



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 Website: www.sapp.co.zw



below gives a general outlook of reported SAPP system disturbances.

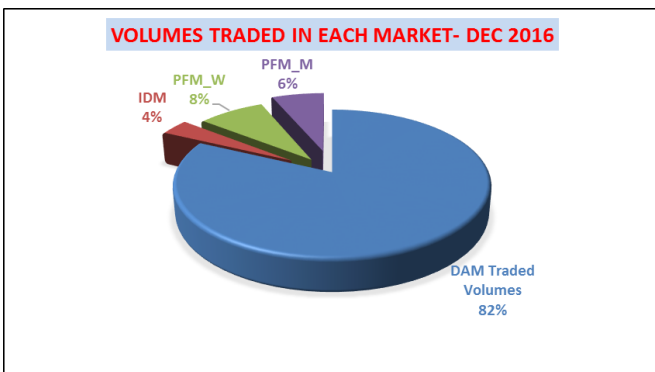


Reported SAPP System Disturbances

Electricity Trading

Energy Traded

Trading in the market was lower during the month of December 2016 when compared to November 2016. 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 **20.4% to 111,596.7 MWh** in the month of December 2016 from the November 2016 figure of 140,179.2 MWh. Below is the overview of volumes traded in DAM, IDM, FPM-M and FPM-W for the month of December 2016.



Traded Volumes in MWh in DAM, IDM, FPM-W and FPM-M for the month of December 2016.

Market Clearing Prices

FPM Monthly (FPM-M) Prices

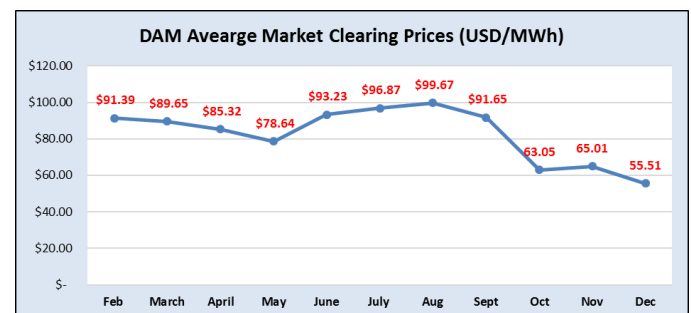
Non off-peak prices the FPM-M decreased by 10.9% from 12.008 USc/KWh in November 2016 to 10.701 USc/KWh in December 2016. Off Peak prices also marginally decreased by 3.3% from the 3.812 USc/KWh recorded in November 2016 to 3.688 USc/KWh in December 2016.

FPM Weekly (FPM-W) Prices

The average price for the Peak period in the FPM-W market was lower by 7.2% at 11.89USc/KWh in December 2016 from the November 2016 figure of 12.818 USc/KWh. Standard period average prices marginally decreased from the November 2016 average prices of 8.466 USc/KWh to 8.141 USc/KWh. The average Off-Peak price also marginally decreased by 5.1% from 4.628 USc/KWh in November 2016 to 4.394 USc/KWh in December 2016.

Day Ahead Market (DAM)

The average monthly market clearing price (MCP) in the DAM was slightly lower during the month of December 2016 at 5.551 USc/KWh when compared to the 6.501 USc/KWh recorded in November 2016. Below is a summary of the daily average MCPs for the month of December 2016.



Daily Average MCP prices Feb 2016 to December 2016.



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 Harare, Zimbabwe,
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 Email: info@sapp.co.zw Website: www.sapp.co.zw



Market Revenues

A total of **USD 7,401,145.31** was exchanged on the DAM, IDM, FPM-W and FPM-M market during the month of December 2016 when compared to a total of **USD 11,227,322.92** exchanged in November 2016. The decline is mainly attributed to the decrease in traded volumes and the decreased market clearing prices recorded in December 2016 when compared to November 2016

Environmental Corner

Training on Climate Resiliency for Energy Projects

The African Development Bank (AfDB) convened a training workshop on Climate Resiliency for Energy projects in the SAPP region. Participants were drawn from SAPP utilities, SADC member state ministries of Energy and Environment. Participants were exposed to the AfDB operational and Investment Facilities for climate Resilient Infrastructure, due diligence procedures used by AfDB to address climate risks, major operational activities for integrating climate risks in infrastructure investments, safeguards measures used to minimize climate risks of infrastructure investments and a number of financial resources in available in the Bank.



Participants during the Training on Climate Resiliency for Energy Projects

Upcoming Events

DATE	EVENT
18 -19 Jan 2017	MSC Meetings, Johannesburg, South Africa
20 - 24 Feb 2017	48 th SAPP Meetings, Bulawayo, Zimbabwe
28 - 29 March 2017	Power and Electricity World Africa, Johannesburg, South Africa
23 March 2017	42 nd SAPP Executive Committee Meetings, Maseru, Lesotho
29 March 2017	SADC Energy Thematic Group Meeting, Gaborone, Botswana
14 – 15 April 2017	2017 Interpower Games Preparatory Meeting, Windhoek, Namibia
9 –11 May 2017	World Hydro Power Congress, Addis Ababa, Ethiopia
16 -18 May 2017	Africa Utility Week, Cape Town, South Africa



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 Email: info@sapp.co.zw Website: www.sapp.co.zw

