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Meetings, Workshops and Conferences

Conference on Energy Access in Sub-Saharan Africa - Turkey

The G-20 Conference on Energy Access in Sub-Saharan Africa was held in Turkey from 1 to 2 October 2015 and was attended by Energy Ministers from Africa. Areas of focus included

Energy Investment Opportunities in Sub-Saharan Africa and the interaction between the private and public sector to ensure the transformative projects under the Africa Power Vision, PIDA and Clean Energy Corridor work are done.

This focused on public policy, regulatory environment, financial engineering and risk mitigation and the Sustainable Energy for All (SE4All) country action processes.

Inaugural Expert Working Group Meeting on PPPs in Africa

Electricity plays a central role in the sustainable development of Africa by contributing to economic transformation and social development. It enhances productive capacity and improves education and public health services besides the provision of basic human needs. Given the importance of the sector, the United Nations Economic Commission for Africa (ECA) in collaboration with the Infrastructure Consortium of Africa (ICA) called for the Inaugural Meeting of Expert Working Group on PPPs in Africa's Electricity Sector on the 6th of November 2015 in Addis Ababa, Ethiopia.

The Experts Working Group intended to identify and address policy issues related to Africa's electricity sector and explore future research and capacity needs related to the sector. More specifically, the Expert Working Group was to address two key questions: (i) how can the private sector play a proactive role in electricity power service provision in Africa? (ii) Is it possible to motivate private companies to provide these services at a profit while maximizing the benefits that flow to governments and their citizens?

The final conclusion was that the meeting agreed that there was need for:



- i. In-depth case studies of the presentations that were made. The group was tasked to come up with:-
 - Lessons learned
 - the challenges and how to overcome them, and
 - Success stories and the surrounding lessons
- ii. Needs assessment of the capacity of the African power pools; and,
- iii. The SAPP, which is stronger in Power Markets and Energy Trading, to share with other power pools in Africa their experiences. Similarly, the WAPP was stronger in project implementation and their experience could also be shared with other power pools across Africa.

12th SAPP Traders and Controllers Forum

The 12th SAPP Energy Traders and System Controllers Forum was held in Lubumbashi, Democratic Republic of the Congo. Energy Traders and System Controllers discussed various issues affecting their jobs and made recommendations to the SAPP Operating and Markets Sub-Committees. During the forum, participants were also trained on the SAPP New Trading Platform. Lastly, participants visited the 220kV *Poste Haute Tension de Karavia* to familiarise with the ± 75 Mvar Static var Compensator (SVC) which was commissioned in 2012 and assists in controlling voltage levels in the SAPP system.



Some SAPP Energy Traders and System Controllers in Lubumbashi, DR Congo

IRENA Renewable Energy Training in Arusha, Tanzania

The 1st Africa Renewable Energy Training Week (RETW) was convened in Arusha, Tanzania from 12 to 16 October, 2015. The course, hosted by IRENA is a tailor made capacity building exercise for the needs expressed by power system decision makers from the Southern African Power Pool (SAPP) and East African Power Pool (EAPP) region. The main objective of the course was to support the work of national and regional decision making bodies in Southern and Eastern Africa in order to integrate renewable generation resources into power systems, create an Africa-specific educational platform where regulators and decision makers will be able to observe and exchange experiences and best practices from across the globe.



Some of the participants at the IRENA Training on Renewable Energy

SAPP- MTP Traders Certification Training Johannesburg

A trading certification training programme for the SAPP trading platform (SAPP-MTP) was held for SAPP traders on 20-21 October 2015 in Johannesburg, South Africa. The training was conducted by Enerweb and Bredensen Consulting who are the developers of the SAPP-MTP and was attended by SAPP Traders. The course covered the trading in the various SAPP



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trading platforms that include the Forward Physical Monthly (FPM-M), Forward Physical Weekly (FPM-W), Day Ahead Market (DAM), Intra Day Market (IDM). These markets have been developed and commissioned. The DAM system is already being used for live trading and IDM is planned for live trading from the 1st of December 2015.

SAPP Market Rules Review Meeting, Johannesburg

The SAPP has added other markets as part of its SAPP-MTP development. The market rules that are currently in place were developed with only the DAM market in mind. With the addition of other markets as part of the SAPP-MTP that include FPM-M, FPM-W and IDM, there is need to update the market rules. The MSC met initially in April 2015 and on 22-23 October 2015, a second meeting was held to finalise the market rules. The meeting managed to finalize the draft SAPP Market Book of Rules (MBOR).



SAPP Traders pose for a photo during the SAPP-MTP certification training course in Johannesburg, South Africa

Demand Side Management Working Group Meeting, Johannesburg

The SAPP Demand Side Management Working Group was held in Johannesburg, South Africa. Discussion focused on the Utility Demand Side



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Management Programs and the Measurement and Verification Guidelines for SAPP and Efficient Lighting under the SAPP-UNEP Partnership.

Festival of Diplomacy Seminar, Rome, Italy

The SADC Diplomatic missions in Italy organised a seminar on the power situation in Southern Africa on the 23rd of October 2015 where Italian investors were invited. SAPP and SADC were invited to speak on behalf of the SADC diplomatic missions. The seminar was attended by SADC Ambassadors and various Italian investors who expressed interest in the SADC organisation and the SAPP market structure. Mr Remigious Makumbe – SADC Director for Infrastructure and Mr Musara Beta, the SAPP Chief Market Analyst attended the seminar on behalf of SADC and SAPP respectively.

AFSEC Technical Meetings, Cape Town, South Africa

The African Electro-technical Standardisation Commission (AFSEC) held its technical committee meetings at Eskom Bellville Office in Cape Town from 22 to 23 October 2015. SAPP was invited to participate in the meeting of the AFSEC Technical Committee no. 8 (AFSEC TC8). AFSEC TC8 was chartered to work with power utility companies, national standard bodies, regulators, vendors and power pools in order to comprehensively and consistently make a difference regarding the challenges of access to affordable electricity supply in Africa. AFSEC TC8 was mandated to develop harmonized standards and other deliverables with emphasis on overall system aspects of electricity supply systems and acceptable balance between cost and quality for the users of electrical energy. AFSEC TC8 will provide guidance to African countries on various system aspect of electrical energy supply. Through participation in AFSEC technical committees, SAPP will have an opportunity to present specific requirements from

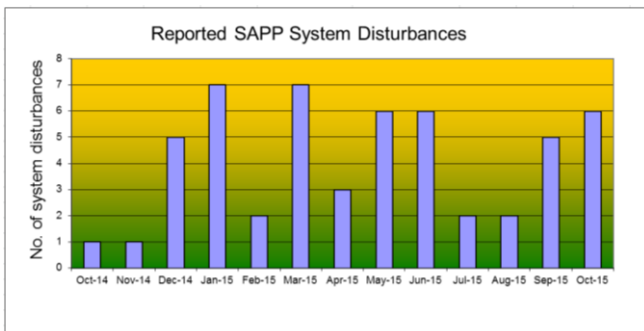
the region in international standards. SAPP was represented by the Operations Engineer.

System Operations

System Disturbances

In the month of October 2015, six system disturbances were reported on the SAPP interconnected system. These were:

- An emergency switching of a generator in Zambia resulted in a sudden state of underfrequency. Subsequently, generation and transmission equipment tripped in the central corridor in Zimbabwe.
- Three 330kV transmission lines carrying about 700MW to the Copperbelt in Zambia tripped on a fault.
- The 220kV interconnector between Zambia and DR Congo tripped on under-frequency protection.
- Trip caused by an earth-fault on one 400kV transmission line in Botswana and led to loss of customer load.
- An under-frequency incident caused by loss of about 900MW output from the Mozambique - South Africa HVDC link.
- The 400kV Zimbabwe - Botswana tie line tripped due to bush fire. The figure below gives an outlook of reported SAPP system disturbances.



Reported SAPP System Disturbances

Update on SAPP Projects

Zimbabwe – Zambia- Botswana –Namibia (ZIZABONA) Transmission Project

The Environmental and Social Impact Assessment (ESIA) report has been submitted to the Zambia Environmental Management Agency (ZEMA) for review and approval. However the consultant has raised concern over the delay by ZEMA to respond to the submission.

Mozambique - Zimbabwe - South Africa (MOZISA) Inter-connector Project

The Technical Inputs Workshop on the MOZISA Project was held in Johannesburg, South Africa. The key assumptions for the study that included among other things the load forecast and generation supply projects were agreed upon. This was followed by the MOZISA Management Committee Meeting where progress of the project was evaluated against key deliverables.

400kV Botswana – South Africa (BOSA) Project

A Request for Proposals (RFP) was issued for detailed feasibility studies for the project. The prospective consultant is to undertake project scoping, carry-out detailed feasibility studies and develop a Project Information Memorandum (PIM) to Engineering, Procurement and Construction (EPC) and to prepare the project to Financial Close. The closing date for submission of RFPs is 13 November, 2015.



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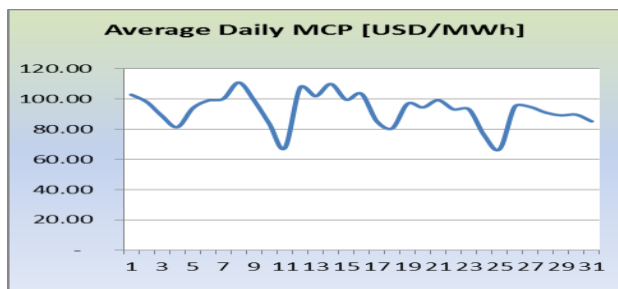
Electricity Trading

Energy Traded

There were ten (10) active portfolios from nine (9) members during the month of October 2015, exactly the same number of portfolios and participants when compared to September 2015 records. Total traded volumes on DAM and PDAM was relatively higher in October 2015 at 125,765.80 MWhr. Of this, 93% or 116,631.60 MWhr was traded on DAM while 9,134.20 MWh or 7% was traded in PDAM. PDAM decreased by 9,495.30 MWh or 51% in October 2015 when compared to September 2015 where 18,629.50 MWh was traded in PDAM. On the other hand DAM traded volume increased by 50,164.40 MWhr or 175% from the 66,467.20 MWhr recorded in September 2015.

Market Clearing Prices

Prices were relatively stable in the market for most of the days during the month of October 2015. The average monthly market clearing price (MCP) was slightly lower during the month of October 2015 at 9.28 USc/KWhr when compared to the 9.54 USc/KWhr recorded in September 2015. MCP prices have been averaging around 7.00 USc/KWhr in the previous months. Below is a summary of the daily average MCPs for the month of October 2015.



Daily Average MCP, October 2015.

Market Revenues

A total of **USD 8,733,361.40** was exchanged on the DAM and PDAM market during the month of October 2015 when compared to a total of **USD 5,925,849.07** exchanged in September 2015. The increase is mainly attributed to the increase in traded volumes.

Environmental Corner

PCB Phase-out Project

A revised Project Document was submitted to the Global Environmental Facility (GEF) for consideration during their meeting in November, 2015. It should be noted that ZESCO of Zambia has already phased out PCBs from all potential sources and are currently tendering for destruction of PCB contaminated material.

Environmental Management Systems

Utilities are working on the implementation of Environmental Management Systems (EMS) and are expected to have moved towards ISO compliance by February, 2015.



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Upcoming Events

| DATE | EVENT |
|------------------|---|
| 2 Nov 2015 | Inauguration of the IEC Africa Regional Centre (IEC –AFRC), Nairobi, Kenya |
| 5 Nov 2015 | <ul style="list-style-type: none"> ▪ 39th SAPP Executive Committee Meeting ▪ 20th SAPP Anniversary Celebrations, Lusaka, Zambia |
| 9 – 12 Nov 2015 | ICH Training on SAPP Markets, Johannesburg, South Africa |
| 10 – 12 Nov 2015 | SAPP, ZESA and ZESCO Control Areas Power Transfer Limits Studies Meeting, Harare, Zimbabwe |
| 12 – 14 Nov 2015 | SAPP IPG, Lesotho, Maseru |
| 13 – 17 Nov 2015 | PIDA Week, Abidjan, Cote d'Ivoire |
| 16 – 17 Nov 2015 | ICA 2015 Annual Meetings |
| 25 – 26 Nov 2015 | SAPP Eskom Control Area Power Transfer Limits Studies Meeting, Germiston, South Africa |
| 1 – 4 Dec 2015 | RNT – NamPower Meeting on Angola Namibia Project, Namibia |
| 1 – 4 Dec 2015 | RERA – SAPP USAID meeting, Namibia |
| 8 – 9 Dec 2015 | Human Resources Working Group Meeting, Harare, Zimbabwe |
| 10 Dec 2015 | Finance Working Group Meeting, Harare, Zimbabwe |



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