



# MONTHLY REPORT

## October 2014

Issue No. R10-14

*Energising the region for economic development*

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### Meetings and Conferences

#### IRENA Workshop

The International Renewable Energy Agency (IRENA) in collaboration with the Southern African Power Pool (SAPP) held a workshop in Harare, Zimbabwe, from 6-8 October 2014 on Renewable Energy Zoning in the Southern African Power Pool Region. The workshop was officially opened by the Permanent Secretary in the Ministry of Energy and Power Development of Zimbabwe, Honourable Partson Mbiriri.

The workshop had the opportunity to discuss various initiatives in Renewable Energy including deliberations on the Africa Clean Energy Initiative from IRENA. A paper on Practitioner’s Guide to Grid Integration of Variable Renewable Energy was presented. The workshop also gave an overview of the challenges and recommended solutions to integration of Variable Renewable Energy.



*Delegates to the IRENA workshop during their visit to the SAPP-CC Offices*

#### 37<sup>th</sup> SAPP Executive Committee Meeting

The 37th meeting of the Southern African Power Pool (SAPP) Executive Committee was held at Skyna Hotel in Luanda, the Republic of Angola, on 31st October 2014. The meeting was officially opened by the State Secretary for Energy of the Republic of Angola, Honourable Joaquim Ventura.

The meeting was attended by all SAPP Member representatives. The meeting started by observing a minute of silence in recognition of the late President of Zambia, President Michael Sata.

The host Chief Executive Officer of ENE delivered the opening statement. He thanked the State Secretary for Energy, Engineer Joaquim Ventura for his commitment. He highlighted that ENE is participating actively in the SAPP committees and various benefits are being derived. ENE is also benefiting through capacity building programs and experience sharing. He invited members to visit the Cambambe Hydro Power Station that is under construction to experience what Angola is doing in new power station developments.



**From left to right:** Mr Jose Neves (CEO of ENE, Angola), State Secretary of Energy of the Republic of Angola, Mr Joaquim Ventura, Mr Mbele Hoohlo, CEO of LEC (Lesotho) and SAPP Executive Committee Chair, Dr Lawrence Musaba, SAPP-CC Manager, listen to the Angolan National Anthem during the official opening

The SAPP Executive Committee Chairperson and Managing Director of LEC of the Kingdom of Lesotho gave opening remarks. In his opening remarks, he stated that major challenges are in the development of new projects looking at the current generation deficit that the SADC region is facing. He emphasised that the SAPP Executive Committee Members will commit to come up with outcomes from the meetings especially on interconnectors.



Members of the SAPP Executive Committee pose for a photo during the 37<sup>th</sup> Meeting in Angola

The State Secretary for Energy gave the welcome and opening speech. He stressed that the Ministry of Energy and Water in Angola hopes that the outcomes from the meetings would strengthen regional cooperation. He

noted that SADC recognises that industrial development needs electricity and electricity leads to social integration and economic growth. He highlighted that the President of the Republic of Angola launched and adopted the mid-term development plan in infrastructure that will lead to quadruple the installed generation capacity in Angola. The State Secretary for Energy highlighted the need to strengthen the transmission grid to increase electrification access to 60 % in Angola. He stressed that the interconnection of Namibia and Angola was a priority for the Government and that is going to lead to a lot of benefits. He wished and expected that the outcome of the meetings would enhance the electricity market in SAPP. He then officially opened the meeting.

### 11<sup>th</sup> SAPP Energy Traders and System Controllers Forum

The 11<sup>th</sup> SAPP Energy Trading and System Controllers Forum was held in Johannesburg, South Africa, from 21 to 22 October 2014. Participants from both Operating and Non-Operating Members of SAPP discussed various experiences and challenges about energy trading and power system operations. Functionalities of the new Energy Trading Platform were presented at the Forum by Enerweb, the developers. Participants also visited the Eskom National Control Centre for familiarisation.



Participants at the 11<sup>th</sup> SAPP Energy Traders and System Controllers Forum in Johannesburg, South Africa, with the Guest of Honour, Mr. W. Theron of Eskom, during the Official Opening Ceremony

## Update on SAPP Projects

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

The ZIZABONA Management and Steering Committee meetings were held in Luanda, Angola, on the 30<sup>th</sup> of October 2014.

The Management Committee was held in the morning and was followed by the Steering Committee in the afternoon of the same day. The meeting proposed a way forward for the project to be bankable. The project will now be sponsored by five SAPP members and namely BPC of Botswana, CEC of Zambia, NamPower of Namibia, ZESA of Zimbabwe and ZESCO of Zambia. The project timelines were discussed and agreed to by the sponsors.

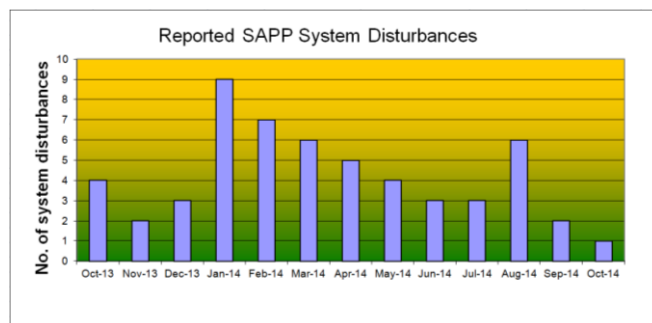
### Mozambique-Zimbabwe-South Africa (MOZISA) Transmission Project

The Development Bank of Southern Africa (DBSA) has provided US\$4 million to prepare the project from scoping studies all the way to bankability. The scoping study will be followed by a full feasibility study and a Transaction Advisor (TA) will be appointed to prepare the project to implementation stage.

## System Operations

### System Disturbances

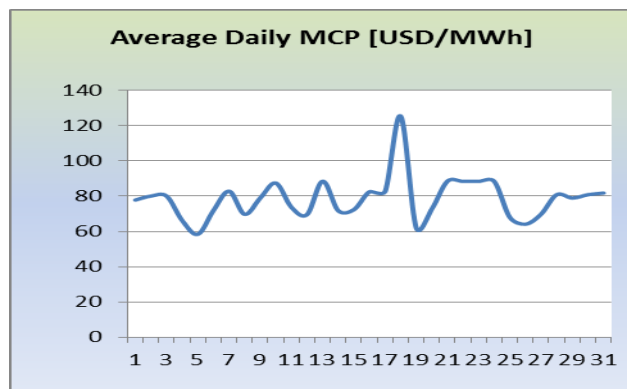
In the month of October 2014, one SAPP system disturbance was reported. This disturbance was characterized by un-damped power oscillations and led to tripping of transmission lines and generation in the central corridor in Zimbabwe and Botswana. Figure below shows a general outlook of reported SAPP system disturbances.



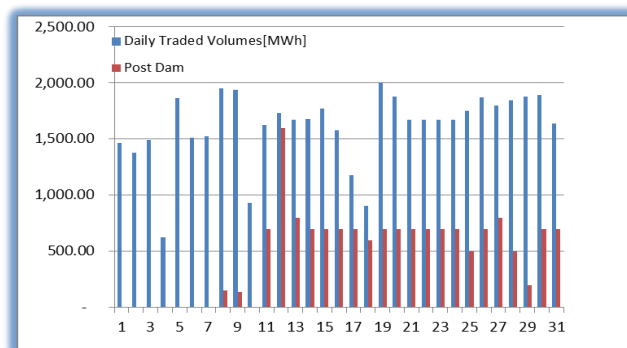
Reported SAPP system disturbances

## Energy Trading

Trading rose significantly in the Day Ahead Market (DAM) with 65,138.40MWh being traded for USD 3,486,851.86 in October 2014. Comparatively, 46,360.90MWh were exchanged in September 2014 amounting to USD 2,743,505.55. However, there was a significant increase in the monthly average market clearing price (MCP) from USD71.26/MWh recorded in September 2014 to USD78.49/MWh achieved in October 2014. Summarised below is the daily average MCP and traded volumes for October 2014.



Daily Average MCP, October 2014



Daily DAM & PDAM Traded Volumes, October 2014

## Environmental Corner

### Climate Change – SAPP CDM Project

The SAPP submitted Prior Consideration Forms to the UNFCCC for Programme of Activities (PoA) for LEDs and Solar Water Heaters (SWH) to be implemented in all member states. The project now appears on the UNFCCC website under prior CDM notifications.

### Regional PCB Phase-out Project

The regional PCB Phase – out project has now moved to the Project Preparation Phase where the UN has engaged a consultant to do a Project Preparation Document (PPD). The project will involve all SAPP member states with the exclusion of South Africa and DRC. South Africa will be financed under a separate programme while DRC was considered under the West African Power Pool. The UN has agreed to in-kind co- financing at a ratio of 4:1(Recipient: UN). Member states have been requested to update PCB waste streams in their respective countries and submit to the UN by January, 2015.

## Upcoming Events

DATE	EVENT
5-9 Nov 2014	Parliamentary Workshop, <b>Victoria Falls, Zimbabwe</b>
10-14 Nov 2014	Factory Acceptance Tests on the New Trading Platform, <b>Johannesburg, South Africa</b>
10-14 Nov 2014	Project Definition Redness Assessment (PDRA) of the CEC projects, <b>Kitwe, Zambia</b>
17 Nov 2014	SAPP-Eskom-ZESA meeting on the MOZISA project, <b>Harare, Zimbabwe</b>
17-20 Nov 2014	Meeting on the Zambezi River Basin, <b>Lusaka, Zambia</b>
20 Nov 2014	Telecommunications Working Group meeting, <b>Windhoek, Namibia</b>
17-21 Nov 2014	EU Sponsored Workshop- Integration of Renewable Energy, <b>Pretoria, RSA</b>
22-29 Nov 2014	SAPP Management Committee Brazil tour, <b>Rio de Janeiro, Brazil</b>
26-29 Nov 2014	SAPP Inter Power Games Preparatory & Facilities Inspection Meeting, <b>Gaborone, Botswana</b>