



# MONTHLY REPORT

## January 2014

### Issue No. R01-14

*Energising the region for economic development*

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#### Meetings and Conferences

##### Finance Working Group Meeting

The Finance Working Group met on the 8<sup>th</sup> of January 2014 at the SAPP Coordination Centre in Harare, Zimbabwe, to perform an internal audit on the financial books of accounts of the Southern African Power Pool Coordination Centre (SAPP-CC). The main focus areas were checking compliance with the procurement, delegation of authority and travel policies. A report on the findings on the internal audit shall be availed to the SAPP-CC by the Finance Working Group Chairperson. On the 9<sup>th</sup> of January 2014 the group met to deliberate on the SAPP-CC budget for the year 2014/15. The group also came up with the risk register for SAPP-CC.

##### SAPP Systems Controllers Training

The European Union (EU) funded capacity building project for SAPP is now being implemented. Under this project, the two-week Training for SAPP System Controllers was held from 13 to 23 January, 2014, at Kafue Gorge Regional Training Centre in Zambia. One system controller from each SAPP member organisations, apart from Lunsemfwa Hydro and Mozambique Transmission Company, participated in this training.



*The training participants and some of the trainers*

The training was quite intensive. Among various areas, it covered theory of power systems, energy markets, case studies of typical events on the SAPP interconnected system (like major power failures), and operating guidelines. There were also site visits to the 990MW Kafue Gorge Power Station and to the National Control Centre in Lusaka, Zambia.



*Training participants during one of the site visits*

Trainers were of vast experience and were drawn from France, Kafue Gorge Regional Training Centre (KGRTC), ZESCO and the SAPP Coordination Centre. The training also included laboratory exercises for turbine governor control and synchronising of a synchronous machine to the power grid. Using simulators at KGRTC, trainees also carried out computerised high voltage switching of a typical switchyard in SAPP. At the closing ceremony of the training, the SAPP Coordination Centre Manager, Dr Lawrence Musaba, thanked EU for the support and KGRTC and AETS for successfully delivering the training. He also challenged the 'graduates' to now go and control the interconnected system in such a

manner as to ensure continuity and quality of power supply to customers at all times.



Trainees during the graduation ceremony

### SAPP Transmission Pricing

The SAPP Transmission Pricing Task Team met to discuss the draft final report on Transmission Pricing Implementation. The initial transmission pricing model was presented to SAPP for testing various sensitivity cases.

### Tanzania-Zambia Power Interconnection Study

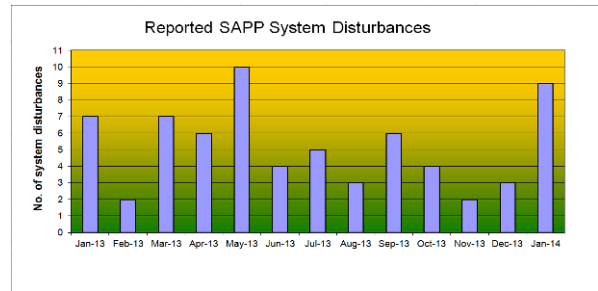
A meeting was held in Siavonga, Zambia on 28 to 29 January 2014 to review the inception reports on the environmental social impact assessment study for the Tanzania (Mbeya) Zambia (Kasama) Interconnector. The program was coordinated by NELSAP under the Nile Basin Initiative with funding from the Government of Norway. The Consultant also made preliminary findings on the demand forecasts and generation plans and preliminary power line layouts.

### System Operations

### System Disturbances

In the month of January, 2014, there was a remarkable increase of reported system disturbances as compared to the previous few months. A total of nine system disturbances were reported. For some, power swings were observed in the central transmission corridor in Zimbabwe leading to tripping of lines and generation. One of the triggers of the power swings was power rejection from the Mozambique - South Africa HVDC transmission system. But one of the system disturbances was caused by a faulty surge arrester in DR Congo, while the other was caused by a bus

bar fault in Zambia. Figure below shows a general outlook of reported SAPP system disturbances.

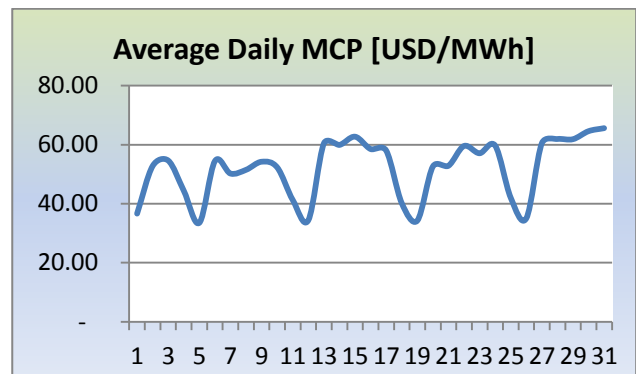


Reported SAPP system disturbances

### Energy Trading

Trading continued to be steady buoyed by the availability of some transmission capacity on the SAPP central corridor in January 2014. A total of **3,626.90 MW** were traded in the auction market amounting to **USD 211,179.44** in January 2014. Comparatively, **6,122.60 MW** were traded in December 2013 at a total cost of **USD 302,457.79**. On a more positive note, the average monthly market clearing price (MCP) decreased slightly during the month of January 2014 to an average of **5.189 USc/KWhr** when compared to the **5.245 USc/KWhr** achieved in December 2013.

Summarized below is the daily average MCP for January 2014.



Average Daily MCP, January 2014

## Environmental Corner

The Annual Sustainable Development Bulletin for 2014 has been completed and will be published in March, 2014. Topics contained in the Bulletin are:

1. Bio-Gasification Project: the case of Copperbelt Energy Corporation (CEC) of Zambia;
2. Compact Fluorescent Lamps (CFLs) and Efficiency Lighting: the case of Zimbabwe Electricity Supply Authority (ZESA);
3. The Standardised Grid Emission Factor for the Southern African Power Pool;
4. Resettlement Action Plan: the case of ZESCO in Zambia; and
5. PCB Phase out initiatives by Swaziland Electricity Company (SEC).

|                  |   |
|------------------|---|
| 3 – 4 Mar 2014   | SAPP Management Committee Meeting Workshop, <b>Johannesburg, South Africa</b>           |
| 5-6 Mar 2014     | Markets Sub - Committee Balancing Mechanism Workshop, <b>Johannesburg, South Africa</b> |
| 11 – 12 Mar 2014 | Power & Electricity World Africa 2014, Sandton, <b>Johannesburg, South Africa</b>       |
| 17 – 19 Mar 2014 | Power Gen Africa, <b>Cape Town, South Africa</b>  |
| 18 – 19 Mar 2014 | PDRA Training, <b>Johannesburg, South Africa</b>  |
| 25 March 2014    | 36th SAPP Executive Committee Meeting, <b>Kinshasa, DRC</b>                             |
| 8 – 9 April 2014 | SAPP Renewable Energy Working Group, <b>Johannesburg, South Africa</b>                  |
| 15-17 April 2014 | AFUR Meetings, <b>Nairobi, Kenya</b>  |

## Upcoming Events

| DATE             | EVENT   |
|------------------|---|
| 7 Feb 2014       | SAPP-UZ Electrical Department handover Ceremony, <b>Harare, Zimbabwe</b>            |
| 10 – 13 Feb 2014 | 42nd General SAPP Meetings, <b>Maseru, Lesotho</b>                                  |
| 12 – 13 Feb 2014 | 2nd High Level Meeting of the African –EU Partnership, <b>Addis Ababa, Ethiopia</b> |
| 18 – 20 Feb 2014 | Africa Energy Indaba, Sandton, <b>Johannesburg, South Africa</b>                    |
| 19 Feb 2014      | IRENA – Africa Clean Energy Corridor, <b>Johannesburg, South Africa</b>             |
| 21 – 25 Feb 2014 | EU-SAPP Project Evaluation on Energy Efficiency, <b>Harare, Zimbabwe</b>            |
| 24 – 25 Feb 2014 | ZIZABONA MANCO and Steering Committee Meeting, <b>Windhoek, Namibia</b>             |
| 27 Feb 2014      | SADC ETG Meeting, <b>Gaborone, Botswana</b>   |