



CONTENTS

Meetings, Workshops and Conferences ..	1
SADC Energy Thematic Group Meeting 1	
African Power Pool Forum and APUA	
Scientific Committee Meeting.....	1
SAPP Human Resources Working	
Group Meeting.....	2
EAPP – SAPP Meeting	2
System Planning.....	2
SAPP Pool Plan Study	2
SAPP EAPP Transmission Integration	
Study.....	2
Renewable Energy Impact Study	2
SAPP Project Development Readiness	
Assessments	2
System Operations	3
System Disturbances	3
Electricity Trading.....	3
Market Participation	3
Energy Traded	3
Market Clearing Prices.....	3
Market Revenues.....	4
Update on SAPP Projects.....	4
Mozambique – Zambia Interconnector..	4
Kolwezi – Solwezi Transmission line	
Project.....	4
Luapula Hydro Electric Scheme	5
Mozambique – Tanzania Interconnector	
.....	5
Botswana – South Africa Interconnector	
.....	5
Mozambique – Zimbabwe – South Africa	
Interconnector (MOZISA)	5
Angola - Namibia Interconnector	5
Environmental and Social Management	
Framework (ESMF).....	5
Transmission Infrastructure Fund	6
Environmental Corner	6
Clean Energy Fund for SAPP	6
International Environmental Days; May	
2018.....	6
World Migratory Bird Day	6
International Day for Biological Diversity	
6	
Upcoming Events.....	6

Meetings, Workshops and Conferences

SADC Energy Thematic Group Meeting

The SADC Energy Thematic Group meeting took place in Gaborone, Botswana on the 11th April 2018. The SAPP CC Manager who attended with the Chief Engineer made a presentation on the Electricity Markets performance and on progress on SAPP projects. The international Cooperating Partners re-emphasised their support to the activities of SADC, SAPP, RERA and SACREEE.

African Power Pool Forum and APUA Scientific Committee Meeting

The SAPP Coordination Centre Manager, the outgoing Chair of the African Power Pool Forum handed over the Chairmanship to Eastern Africa Power Pool (EAPP) at the annual meeting held in Addis Ababa, Ethiopia on 25 April 2018. The meeting was preceded on 24 April 2018 by a workshop organised by the African Development Bank and the Consortium for Infrastructure in Africa with the theme "Digitalisation of the Power Sector and Security of ICT Systems". The Power Pools in Africa presented on the status of the electricity supply and the status of the regional electricity markets in Africa. Discussions were held on the possibility of developing a continental African generation and transmission master plan being championed by the NEPAD office.

The Association of Power Utilities in Africa (APUA) held the Scientific Committee Meeting that focused on:

- Status of setting up electricity regional markets in Africa
- Reinforcement of information sharing among Power Pools in Africa
- Perspectives on the Cooperation Program in Renewable Energies



- Status of APUA project of establishment of the African Network of Centres of Excellence in Electricity

SAPP Human Resources Working Group Meeting

The SAPP Human Resources Working Group (HRWG) met from 11 to 12 April 2018 in Gaborone, Botswana. They reviewed the existing human resources policies and proposed to introduce new policies for SAPP CC. The team also deliberated on the requests from SAPP Management.

EAPP – SAPP Meeting

The SAPP Coordination Centre Manager and Chief Engineer visited the EAPP Offices in Addis Ababa, Ethiopia to discuss issues of common interest on the sidelines of the APUA meetings during the month.



Visit by SAPP to EAPP Offices

System Planning

SAPP Pool Plan Study

The SAPP engaged the Consultant who developed the SAPP Pool Plan to carry out the dissemination of the Plan. The objective is for highlighting the key country benefits of

implementing the SAPP Pool Plan and the benefits of regional integration.

SAPP EAPP Transmission Integration Study

The SAPP Planning Engineer together with the Consultants on the SAPP EAPP Transmission Integration study verified the SAPP data and transmission model. The main purpose of the exercise was to navigate through operational issues and discuss the initial dynamic results.

Renewable Energy Impact Study

The SAPP Renewable Energy Impact Study Expressions of Interest were issued during the month. The objective of the studies is to support the SAPP prepare the interconnected system for the integration of variable renewable energy (VRE) generation in a secure, reliable and economic manner. The studies are in two independent parts. Part 1 focuses on the techno-economic and regulatory issues, whilst Part 2 pays attention to the national power systems of countries that will be implementing VRE over the horizon of analysis (2018-2022).

SAPP Project Development Readiness Assessments

The SAPP conducted the training on the use of the Project Development Readiness Assessment (PDRA) Tool to engineers from TANESCO. A total of 13 participants attended the training. The readiness of the Zambia-Tanzania-Kenya Interconnector was evaluated including the Kinyeredzi power plant.



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



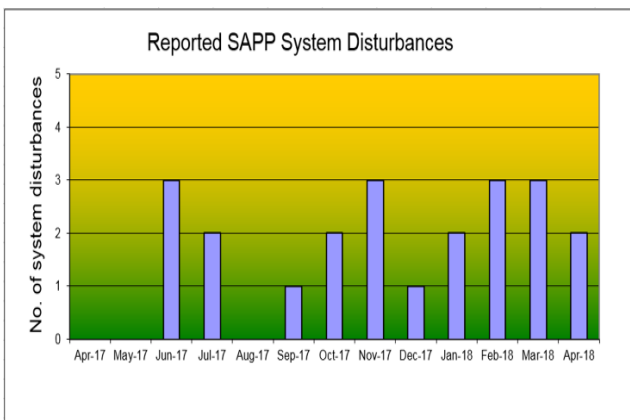


TANESCO and SAPP participants at the PDRA Workshop in Dar es Salaam, Tanzania

System Operations

System Disturbances

Two (2) system disturbances were reported on the SAPP interconnected system in the month of April 2018. Both of them were caused by faults on the HVDC system in Mozambique and resulted in loss of generation and power frequency excursion. The Figure below shows the reported SAPP system disturbances from April 2017.



Electricity Trading

Market Participation

There were eleven (11) active portfolios from nine (9) members in DAM during the month of April 2018. There was a slight change when compared to the month of March 2018 in which there were eleven (11) active portfolios from eight (8) members.

Energy Traded

Trading in the market was marginally higher during the month of April 2018 when compared to March 2018. 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 5.2% to 126,796.5MWh in the month of April 2018, from the March 2018 volume of 120,570.10MWh. The April 2018 traded volume of 126,796.5 was however marginally lower by 0.05% when compared to the same period of April 2017 in which traded volumes were 126,853.9 MWh. Below is the overview of volumes traded in DAM, IDM, FPM-M and FPM-W for the month of April 2017 and April 2018.



Traded Volumes in MWh in DAM, IDM, FPM-W and FPM-M for the month of April 2018.

Market Clearing Prices

FPM Monthly Prices

Non-off-peak prices decreased by 1.4% from 6.460USc/KWh in March 2018 to 6.372USc /KWh in April 2018. Off Peak prices decreased by 2.5%



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



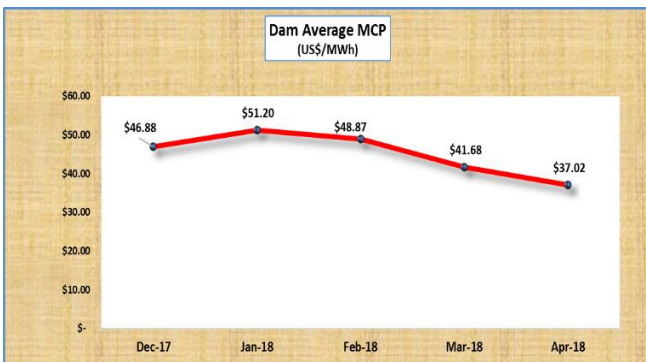
from 3.255USc/KWh in March to 3.172USc/KWh in April 2018.

FPM Weekly Prices

The average price for the Peak period was lower by 8.6% at 8.03USc/KWh in April 2018 from the March 2018 average peak price of 8.78USc/KWh. Standard period average prices decreased from the March 2018 average prices of 6.38USc/KWh to 5.885USc/KWh in April 2018. The average Off–Peak price also decreased from 3.4USc/KWh in March 2018 to 2.66USc/KWh in April 2018.

Day Ahead Market

The monthly average Day Ahead market clearing price (MCP) was slightly lower during the month of April 2018 at 3.702USc/KWh when compared to the 4.168USc/KWh recorded in March 2018.



Daily Average MCP prices December 2017 to April 2018.

Intra Day Ahead Market (IDM)

The average peak spot price for the IDM for the month of April 2018 was 8.271USc/KWh from the March 2018 average of 6.971 USc/KWh. The average standard spot price marginally increased from 4.627 USc/KWh in March 2018 to 4.671 USc/KWh in April 2018. The average off-peak spot price marginally increased from 2.761USc/KWh in March 2018 to 3.037USc/KWh in April 2018.

Market Revenues

A total of USD6.09 million was exchanged on the DAM, IDM, FPM-W and FPM-M market during the month of April 2018 when compared to a total of USD5.83 million exchanged in March 2018. The change is mainly attributed to changes in traded volumes.

Update on SAPP Projects

Mozambique – Zambia Interconnector

Utilities, SAPP and the USAID consultants submitted comments on the inception report and a workshop for finalizing the report is scheduled for the 22 May 2018 in Maputo. Zambia has provided all technical data but some data is still outstanding for Mozambique.

The site visits were conducted successfully for the Environmental studies in the two countries between 9 and 20 April 2018. The consultants are updating the report to address comments on the inception report.

Key dates:

- 22 May 2018: Inception report presentation
- September 2018: Preliminary Feasibility Report
- May 2019: Final Feasibility Report
- September 2019: Final Design report

The project is on track and within budget.

Kolwezi – Solwezi Transmission line Project

Site visits to both DRC and Zambia were completed on the 9th April 2018. The inception report is complete in both English and French and is being reviewed by the utilities. The site visits identified potential target villages for rural electrification both in Zambia and DRC. The requirements will be defined during the next stage of the study. Key dates:



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



- a) 29 May: Presentation of the Inception Report
 - b) May 2019: Final Feasibility Report
 - c) September 2019: Final Design report
- The project is on track and within budget.

Negotiations with the successful bidder for the ESIA study took place during the month and contract award is expected in May 2018.

Luapula Hydro Electric Scheme

The following occurred in April 2018:

- A Variation Order has been submitted for change in scope and schedule of the hydrological survey.
- Meteorological and hydrological studies are in progress.
- The Market study was concluded.
- Training on hydrology, hydropower and risk assessment and management was conducted in Johannesburg from 10 to 12 April 2018

Key dates

- a) Options Assessment Report: June 2018 – date at risk due to the appointment of the ESIA consultant
- b) Draft Feasibility Report: August 2018
- c) Final Feasibility Report: October 2018

There is a delay in the technical studies due to installation of gauging stations which has only been possible during the low rainfall season. This may cause a 6 months delay.

The ESIA studies are currently lagging by about four months.

Mozambique – Tanzania Interconnector

The SAPP and the African Development Bank conducted a pre-appraisal mission for the Mozambique – Tanzania Interconnector Project. During the mission in Mozambique meetings were held with the Deputy Minister of Energy and Natural Resources, the Director of Energy, the Regulator and the Chairman of EDM with his

Management Team. In Tanzania the team met with Officials from the Regulator and the Managing Director of TANESCO and his Team. All the parties welcomed the initiative and it was highlighted that the project is of regional significance.

Botswana – South Africa Interconnector

The ESIA study in Botswana went through some challenges that are being addressed.

The Transaction advisory contract has been extended by 16 months with no change in costs.

Mozambique – Zimbabwe – South Africa Interconnector (MOZISA)

The project is being restructured into two components. Mozambique-Zimbabwe and Zimbabwe-South Africa and the following documents were prepared:

- Draft terms of reference (TORs) for MOZI
- Draft TORs for ZISA
- Draft Project Implementation Framework for both components
- Project activity and work plan

Angola - Namibia Interconnector

A Project kick off meeting on Part 2 – Feasibility Report on the project was held in Windhoek, Namibia on 26 April 2018. The objective of the meeting was to discuss the overall approach to the feasibility study, the workplan, methodology and associated timelines and deliverables including the project governance.

Environmental and Social Management Framework (ESMF)

The contract for the updating of the ESMF has been finalized and the execution is underway. A disclosure workshop is planned for 30 May 2018 for the SAPP environmental subcommittee.



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



Transmission Infrastructure Fund

The shortlist for consultants to investigate the establishment of the Transmission Infrastructure Fund for SAPP has been completed. The RFP was issued and bids are expected in mid-May 2018.

Environmental Corner

Clean Energy Fund for SAPP

The new SAPP Grid Emission Factor has been successfully calculated by GFA consulting of Germany under the sponsorship from the Germany Government.

Prior to 2020, all Renewable Energy projects, included in the SAPP Pool Plan and whose Levelized Cost of Electricity Generation (LCOEG) is above a predefined benchmark qualify as eligible to receive (additional) financial viability gap support via a feed in premium (FIP). Projects that are successful in a competitive bid process, would receive up to 10 years of FIP payments with up to 20% front-loaded payments to improve bankability under the proposed Clean Energy Fund for SAPP (CEF4SAPP).

Post-2020 requirements may move from project specific support to sectoral crediting including a Regional Determined Contribution for the SAPP electricity sub-sector and technical assistance can be provided for the development of a joint NDC for the SADC electricity sub-sector. Discussions continued during the month on the proposals for setting up the fund.

International Environmental Days; May 2018

World Migratory Bird Day

This day is commemorated on 12 May 2018 and aims to reach out to a broader audience and amplify its message for bird conservation. The World Migratory Bird Day will be reinforcing education and awareness about the need to protect migratory birds their habitats especially in

view of their interaction with electricity infrastructure.

International Day for Biological Diversity

The Day is celebrated on 22 May 2018. The aim is to increase understanding and awareness of biodiversity issues so that development does not result in increased rate of biological diversity loss. The 2018 Theme for the Day is "Celebrating 25 Years of Action for Biodiversity".

Upcoming Events

DATE	EVENT
3 – 4 May 2018	Joint SAPP OSC and MSC Workshop on SAPP - EAPP Integration in Pretoria, South Africa
8 – 10 May 2018	Project Development Readiness Assessment for CEC and Ndola Energy, Ndola, Zambia
8 – 10 May 2018	MSC Traders Workshop On MTP, Gaborone, Botswana
9 – 11 May 2018	SADC Technical Experts and Senior Officials Meeting on Project Prioritisation, Pretoria, South Africa
15 -16 May 2018	Project Development Readiness Assessment for ESCOM, Malawi
15 -17 May 2018	Africa Utility Week, Cape Town, South Africa
17 -18 May 2018	African Union Reference Group on Infrastructure, Addis Ababa, Ethiopia
23 May 2018	SAPP Coordination Centre Board Meeting, Harare, Zimbabwe
22 - 24 May 2018	SAPP Transmission Pricing Task Team Meeting, Harare, Zimbabwe
29 - 31 May 2018	SAPP Power Pool Plan and Electricity Market Workshop and



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



	SADC Energy Subcommittee meeting, Johannesburg, South Africa
30 - 31 May 2018	SAPP Telecommunications Working Group Meeting, Johannesburg, South Africa
13-14 June 2018	Quality of Supply Working Group Meeting, Maputo, Mozambique
5 June 2018	SAPP NORAD Sida Annual General Meeting, Harare, Zimbabwe
19 - 22 June 2018	Africa Energy Forum, Mauritius
26 - 29 June 2018	IEEE PES- IAS Power Africa Conference 2018, Cape Town, South Africa
11-12 July 2018	SAPP Blackstart Preparedness Working group meeting, Gaborone, Botswana
Sept 2018	51 st SAPP Management Committee Meetings, Tanzania
17-18 Oct 2018	15 th SAPP Energy Traders and System Controllers Forum, Windhoek, Namibia
Oct 2018	45 th SAPP Executive Committee Meetings, Zimbabwe



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

