



CONTENTS

Meetings, Workshops and Conferences ..	1
SAPP Strategic Workshop, Cape Town.....	1
SADC Energy Sub Committee Meeting	1
SAPP Balancing Market Workshop.....	1
Review of the Agreement between Operating Members	2
Special Operating Sub-Committee Meeting.....	2
System Planning	2
Transmission Pricing Methodology	2
Review of SAPP Load Forecasting Methodology.....	2
Transmission Maps Development.....	2
Impact of the Integration of Renewable Energy Technologies on SAPP Grid	3
SAPP Budget Cost Sharing Method Review ...	3
SADC Grid Code Development.....	3
System Operations	3
System Disturbances	3
Electricity Trading.....	3
Market Clearing Prices	4
Market Revenues	4
Update on SAPP Projects.....	4
Angola - Namibia Interconnector.....	4
Botswana – South Africa Interconnector.....	4
Mozambique – Malawi Interconnector	4
Zambia – Tanzania Interconnector Project	4
SAPP Regional Transmission Infrastructure Financing Facility.....	5
Environmental Corner	5
Environmental Project Management.....	5
SADC PCB Elimination Project.....	5
The Regional Energy Regulators Association Annual Conference.....	6
Crime Prevention Working Group Meeting	6
Upcoming Events – 2020	7

Meetings, Workshops and Conferences

SAPP Strategic Workshop, Cape Town

The SAPP carried out a strategic breakaway session in Cape Town, South Africa. The sessions included strategy sessions and team building activities. The team also worked on revising the SAPP vision, mission and culture.



SAPP Staff attending Strategic Workshop

SADC Energy Sub Committee Meeting

The SADC Energy Sub Committee meeting was held for 25 to 26 February 2020 in Dar es Salaam, Tanzania. The Energy Officials worked in preparation for the SADC Energy Minister's meeting that is scheduled to take place in May 2020.

SAPP Balancing Market Workshop

The Joint SAPP Planning, Markets and Operating Sub Committees attended the Balancing Markets workshop in Johannesburg South Africa.



Review of the Agreement between Operating Members

The Joint SAPP Planning, Markets and Operating Sub Committees reviewed the SAPP Agreement between Operation Members together with the SAPP Legal Working Group. Significant progress was made, and the service schedules will be updated.

Special Operating Sub-Committee Meeting

On 21 February 2020 the Operating Sub-Committee (OSC) held a special meeting in Johannesburg, South Africa. The main focus of the meeting was power system disturbances. The meeting discussed causes and mitigation measures. The meeting also came up with an action plan for the following projects: The Agreement between Operating Members (ABOM) review, methodology for handling energy imbalance, and energy metering.



Some OSC members at the special OSC meeting in Johannesburg

System Planning

Transmission Pricing Methodology

The joint PSC, OSC and MSC met in February 2020 to discuss transmission pricing in SAPP. A report was presented to the joint sub committees and a clear roadmap was developed for testing and implementation arrangements.

Review of SAPP Load Forecasting Methodology

In a bid to improve load forecasting techniques the SAPP through the Planning Sub Committee initiated the Load Forecasting study. All SAPP members will be encouraged to use common load forecasting techniques to minimise forecasting errors.

Request for proposals was issued and the Expression of interest has been evaluated and sent to the World Bank for no objection.

Transmission Maps Development

The SAPP Transmission Grid Maps Development project is on-going. The main objective of the study is to develop the transmission grid maps for the SAPP region using commercially available software. These interactive maps will help stakeholders to easily visualize the current state of the interconnected systems, project under consideration and future proposed projects.

The software identification report was submitted in January 2020. The Planning Sub Committee adopted the recommended software during their meeting held in Johannesburg, South Africa in February 2020. The project is expected to be completed in April 2020.



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



Impact of the Integration of Renewable Energy Technologies on SAPP Grid

Part 1 of the study which was focusing on high level techno-economic and regulatory issues has been completed. Recommendations from Part 1 will be discussed with all stakeholders to follow-up on work to support the VRE integration.

Part 2 of the study which focusses on generation planning and dispatch simulation studies will commence in March 2020. Part 2 will consider recommendations from Part 1.

SAPP Budget Cost Sharing Method Review

The Planning Sub Committee was tasked to review the SAPP Budget Cost Sharing method considering the revised SAPP membership categories. The proposed revised budget cost allocation was presented to the SAPP Management Committee for consideration.

SADC Grid Code Development

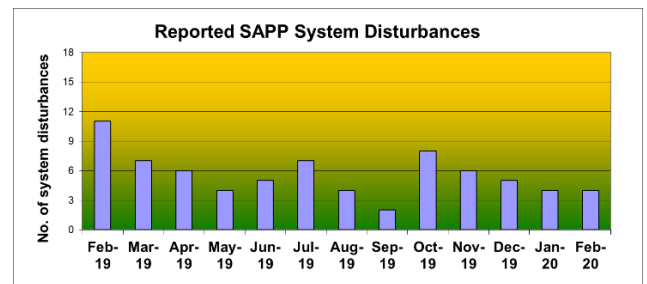
The SAPP has formed a task team to work with RERA when developing the SADC Grid Code. The task team comprises of the three control areas, (ESKOM, ZESA and ZESCO) NAMPOWER and BPC.

System Operations

System Disturbances

Four (4) SAPP system disturbances were reported on the interconnected power system. In the first one, the 400 kV South Africa - Botswana interconnector tripped after birds roosting close to conductors initiated an earth fault. In the second one, the interconnection between Zambia and DR Congo tripped due to heavy rain storms. In the last 2 disturbances, the 400 kV South Africa – Botswana interconnection tripped.

The cause has not yet been established. Refer to figure below for the general outlook of reported SAPP system disturbances.



Electricity Trading

Trading on the market was significantly lower during the month of February 2020 when compared to January 2020. 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 43% to 95 GWh in the month of February 2020, from the January 2020 volume of 166 GWh. The February 2020 traded volume was lower by 29% when compared to February 2019 in which traded volumes were 134 GWh.



Monthly Traded Volumes (GWh) in DAM, IDM, FPM-W and FPM-M (April 2019 to February 2020)



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



Market Clearing Prices

FPM Monthly Prices

Non off-peak prices remained unchanged from the January 2020 price of 10.2USc/KWh. Off Peak prices increased by 10.4% from 4.8USc/KWh in January 2020 to 5.3USc/KWh in February 2020.

FPM Weekly Prices

The average price for the peak period was lower by 15% at 16.8USc/KWh in February 2020 from the January 2020 figure of 19.7USc/KWh. Standard period average prices decreased from the January 2020 figure of 10.3USc/KWh to 10.0USc/KWh in February 2020. The average off-peak price increased from 5.2USc/KWh in January 2020 to 5.4USc/KWh in February 2020.

Day Ahead Market

The monthly average DAM market clearing price (MCP) was lower during the month of February 2020 at 7.6USc/KWh when compared to 7.7USc/KWh recorded in January 2020.

Intra Day Ahead Market (IDM)

The average IDM price for the peak period for the month of February 2020 was 9.4 USc/KWh, up from the January 2020 figure of 8.7 USc/KWh. The average IDM price for the standard period in February 2020 was 5.7 USc/KWh. The average off-peak period price decreased from 3.3USc/KWh in January 2020 to 2.8 USc/KWh in February 2020.

Market Revenues

A total of USD 6 million was exchanged on the competitive market during the month of February 2020 when compared to a total of USD 12 million exchanged in January 2020. The change is mainly attributed to change in traded volumes in the month of February 2020 when compared to January 2020. USD 5.5 million was exchanged on the competitive

market during the same month of February in 2019.

Update on SAPP Projects

Angola - Namibia Interconnector

A validation workshop to discuss the finalisation and submission of ESIA Reports to the respective regulators in Namibia and Angola was held on the 17-18 February 2020. The Draft ESIA Report is was submitted on 28 February 2020 for Angola. The submission of the Final ESIA Report to MET in Namibia is planned for beginning of March 2020. The final feasibility report will be issued in March 2020.

Botswana – South Africa Interconnector

As for the Environmental and Social status, responses to stakeholder and comments from the Department of Environmental Affairs (DEA) in South Africa are expected in March 2020. The project is awaiting environmental authorisation from the Department of Environmental Affairs in South Africa.

Mozambique – Malawi Interconnector

The project has reached financial close and construction phase of the project is planned to commence in March 2020 and is expected to be commissioned by 2022.

Zambia – Tanzania Interconnector Project

The Nakonde Mbeya (100 km) and Mbeya – Iringa (292km) feasibility study was completed and funding has been obtained from the World Bank. Iringa – Dodoma - Singida – Shinyanga (670 km) line of 400 kV transmission line was completed and is operating at 220 kV. Phase II of the substation upgrading to 400 kV is



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



underway and is due for completion during the first quarter of 2020.

For the Singida – Arusha - Namanga (Kenya) – funding was secured for the transmission and substation segments. Construction commenced and is expected to be completed by May 2020. Funding will be provided by the World Bank for construction of Tanzania - Zambia Interconnection project. Commissioning of the Zambia - Tanzania Interconnector is expected in February 2022. The IGMOU for the project is at final stages of signing.

SAPP Regional Transmission Infrastructure Financing Facility

The Consultant made a presentation to the Joint SAPP Planning, Markets and Operating Sub Committees. A separate presentation was also done at the SADC Energy Sub Committee meeting in Tanzania highlighting the progress of the project and the next steps.

Environmental Corner

Environmental Project Management

The Environmental Sub Committee EIA Task Team assigned to provide guidance on the expiration of Environmental Approval (EA) certification submitted its findings. The following was established:

- Countries have on average a 2 – 5 year validity period, with provision for extension;
- Validity periods are legislated, with a scientific backing for their determination, as such, their revision may not be feasible;
- EA authorisation is a requisite to securing funds from DFIs; and
- Causes of expiry is extension of timelines for financial closure.

To mitigate the expiry, the following interventions are proposed:

- Engage Government Ministries for provisional approval, cognisant of legal requirements.
- Engage DFIs on commitment to acquire EA authorisation prior to project implementation. This commitment is to be stated in the Environmental and Social Commitment Plan (ESCP) of ESIA report. The ESCP is a new requirement as stipulated in the World Bank revised Environmental and Social Standards; and
- Continuous investigations for improvement to identify additional interventions.

SADC PCB Elimination Project

The African Institute convened a Regional Dissemination and Verification Meeting on PCB related Legislation Review in, Pretoria, South Africa, 27-28 February 2020. The Meeting aimed at, dissemination of the national review reports, verification of the



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



outcomes and collective consultation and agreement on critical path to take in order to realize that all countries are compliant with regard to PCB regulation and that there are no bottlenecks created for regional Environmental Sound Management (ESM) of PCB. The specific objectives of the meeting were to:

- Present, verify and finalize national recommendations for regulatory changes proposed in national reviews; and
- Review and establish detailed schedule and National Action Plans and commit to the delivery of regulatory update.

Also discussed was the development of country Phase Out plan, including compiling all the detailed information for the annexes (e.g. detailed list of individual equipment to be phased out) and to be driven by the owners of the equipment in question. Once finalized, the Phase Out Plan needs to be implemented by the owners and other stakeholders. The Plan should make explicit provision for adoption of the best available technologies for replacement. Modalities of executing the phase out plan must be stated; and preferably establish a regional mandate to bind every participating country and regularly update on progress until December 2025 (Stockholm Convention requires the eliminating the use of PCB contaminate: identification and labelling; and removal from use) and 2028 (Stockholm Convention requires Environmentally Sound Management of PCB waste).

The Regional Energy Regulators Association Annual Conference

The Regional Energy Regulators Association (RERA) invited the SAPP to participate in the Association annual conference held in Victoria Falls Town, Zimbabwe, 19 – 20 February 2020. The Conference was held under the theme, “Creating a Conducive

Environment to Enhance Regional Energy Security, Trade and Investment.” The SAPP made presentations on “Power Supply and Demand in the Southern African Power Pool and Pool Plan 2017 Highlights” and “SAPP Market Evolution and Performance.” Of critical concern from the delegates was the timelines for implementation of projects to address the Regional power deficit and the future energy sources to be explored to allow for regulation.

Crime Prevention Working Group Meeting

The Crime Prevention Working Group (CPWG) held a meeting in Victoria Falls Town, Zimbabwe, 18 – 19 February 2020. The CPWG strives to put in place strategies to prevent theft and vandalism of the electrical infrastructure network in a bid to provide reliable and sustainable power supply in-line with the SAPP Mission. The SAPP network continues to be vandalised by criminals resulting in power outages and loss of valuable network infrastructure and revenue. The utilities present reported a total of 7,151 incidents on electrical and associated infrastructure and 2,327 other crimes. Strategies devised to address these crimes continue to be explored, with steady progress, though investment in technological advancements presents itself a tangible solution.



CPWG Delegates in Victoria Falls, 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



Upcoming Events – 2020

DATE	EVENT
3 – 5 March 2020	54 th SAPP Meetings, Lilongwe, Malawi
4 March 2020	42 nd SAPP CC Board Meeting, Malawi
10 – 12 March 2020	MTP Training, Dar as Salaam, Tanzania
11 – 13 March 2020	International Renewable Energy Conference, Victoria Falls, Zimbabwe
16 – 18 March 2020	African Power Pools Meetings with EU, Brussels, Belgium
19 - 20 March 2020	SAPP HRWG Meetings, Maputo, Mozambique
26 March 2020	SAPP Executive Committee Meeting, Johannesburg, South Africa
April / May 2020	SADC Energy Thematic Group Meeting, Gaborone, Botswana
11 – 14 May 2020	African Utility Week, Cape Town, South Africa
18-22 May 2020	SADC Joint Energy and Water Ministers' Meetings, Tanzania
20-21 May 2020	Finance Working Group Meeting, Luanda, Angola
18 - 24 June 2020	20 th Congress and Exhibition of Association of Power Utilities of Africa (APUA), Dakar, Senegal
30 June - 3 July 2020	Africa Energy Forum, Barcelona, Spain
25 – 27 August 2020	55 th SAPP Meetings, Maseru, Lesotho
27 August 2020	44 th SAPP CC Board Meeting, Lesotho
October 2020	SADC Energy Thematic Group Meeting, Gaborone, Botswana
29 October 2020	49 th SAPP Executive Committee Meeting, Kinshasa, DRC

DATE	EVENT
27 November 2020	45 th SAPP CC Board Meeting, Harare, 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

