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## Meetings, Workshops and Conferences

### Workshop on Transmission Tariff Calculation Tool

A workshop on the use of the transmission tariff calculation tool was held in Harare, Zimbabwe with support from the African Union Commission and the EU Technical Assistance Facility. The workshop was attended by representatives from utilities and regulators.



*Members of the SAPP and Regulators at Workshop in Harare*

## System Planning

### Review of SAPP Load Forecasting Methodology

The SAPP Load Forecasting Task Team reviewed the expression of interest received for the review of the load forecasting methodology in SAPP.



## Transmission Maps Development

The SAPP has prepared and submitted comments on the preferred software for the Transmission Maps development. The Consultant will go ahead with the maps development.

## Impact of the Integration of Renewable Energy Technologies on SAPP Grid

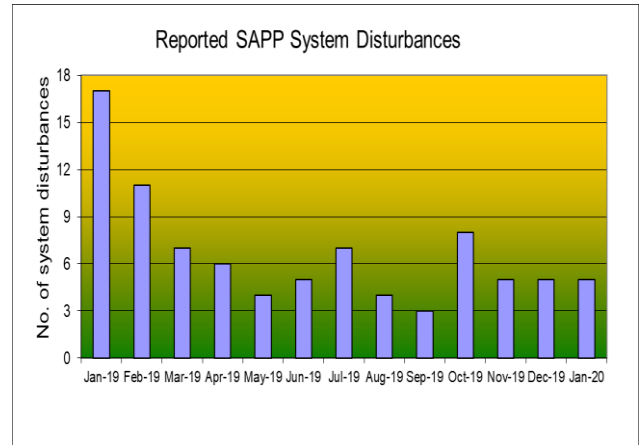
The comments on the draft final report were incorporated and the final report will be issued during the first week of February 2020.

## System Operations

### System Disturbances

In the month of January 2020, five (5) SAPP system disturbances were reported. In the first one, the interconnection between Zambia and DR Congo tripped. Subsequently, the Zambian and DR Congo systems experienced voltage and frequency fluctuations. In the second one, the interconnector between Mozambique and Zimbabwe had to be switched off on emergency following a report that a mentally-challenged person had climbed a high voltage tower.

In the third one, due to lightning, a transmission line in Zimbabwe tripped on a transient fault. In the fourth one, the Mozambique-South Africa HVDC link lost an output of about 800 MW due to tripping of HVDC converter bridges in Mozambique. In the fifth and last one, the 220 kV bus coupler circuit breaker at Songo in Mozambique tripped due to an HVDC system fault and affected exports to Zimbabwe. Refer to figure below for an outlook of reported SAPP system disturbances.



## Electricity Trading

### Trading

Trading on the market was lower during the month of January 2020 when compared to December 2019. 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 6% to 166 GWh in the month of January 2020, from the December 2019 volume of 177 GWh. The January 2020 traded volume was however higher by 35% when compared to January 2019 in which traded volumes were 123 GWh.



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



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## Market Clearing Prices

### FPM Monthly Prices

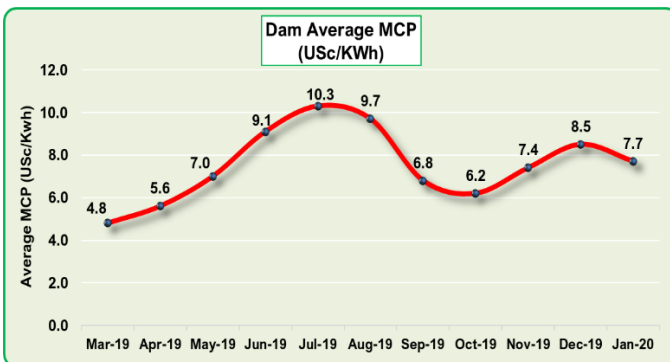
Non off-peak prices increased marginally from 10.0USc/KWh in December 2019 to 10.2USc/KWh in January 2020. Off Peak prices decreased by 20% from 6USc/KWh in December 2019 to 4.8USc/KWh in January 2020.

### FPM Weekly Prices

The average price for the peak period was lower by 7.9% at 19.7USc/KWh in January 2020 from the December 2019 figure of 21.4USc/KWh. Standard period average prices increased from the December 2019 figure of 9.9USc/KWh to 10.3USc/KWh in January 2020. The average off-peak price increased from 4.3USc/KWh in December 2019 to 5.2USc/KWh in January 2020.

### Day Ahead Market

The monthly average DAM market clearing price (MCP) was lower during the month of January 2020 at 7.7USc/KWh when compared to 8.5USc/KWh recorded in December 2019.



Daily Average DAM MCP prices from March 2019 to January 2020.

### Intra Day Ahead Market (IDM)



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The average IDM price for the peak period for the month of January 2020 was 8.7USc/KWh, down from the December 2019 figure of 12.4USc/KWh. The average IDM price for the standard period in January 2020 was 6.3USc/KWh when compared to 7.4USc/KWh recorded in December 2019. IDM Off-peak average price increased from 3.2USc/KWh in December 2019 to 3.3USc/KWh in January 2020.

## Market Revenues

A total of USD 12 million was exchanged on the competitive market during the month of January 2020 when compared to a total of USD 15 million exchanged in December 2019. The change is mainly attributed to the reduced traded volumes in the month of January 2020 when compared to December 2019. Note that USD 5 million was exchanged on the competitive market in January 2019.

## Update on SAPP Projects

### Angola- Namibia Interconnector

The following activities have been completed to date:

- EIA Scoping Public Meetings and Final Scoping Report
- Preliminary Substation design and Drawings
- Preliminary overhead lines design and drawings

### Botswana – South Africa Interconnector

The BOSA Facility Agreement between the DBSA and SAPP was signed and extended to 30 September 2020.

Eskom received comments from the Department of Environmental Affairs (DEA) in

South Africa which did not approve the ESIA and did not provide Environmental Authorisation (EA).

### Inga – Soyo Interconnector

SAPP reviewed the terms of reference (TORs) prior to soliciting for funding for the technical and environmental feasibility studies.

### Zambia – Tanzania Interconnector Project

- Negotiations of the Technical proposals for the Zambia -Tanzania Interconnector were held between ZESCO, SAPP and the Consultant to confirm the understanding of the scope of work and methodology.
- The scope is for the 2<sup>nd</sup> Pensulo-Mpika (184km), Mpika-Kasama (197km) and Kasama-Nakonde (211km) transmission lines at 330kV, plus two SVC/STATCOM locations and associated substations.
- The World Bank will fund the Nakonde-Kasama line.

### Luapula Hydro Electric Power Scheme

The following activities have been completed:

- Final Pre-Feasibility Study Report.
- Final Environmental & Social Impact Screening Reports and Stakeholder Consultation Framework.

## Environmental Corner

### Environmental Project Management

The task team assigned to manage the expiration of Environmental approvals prior to project implementation conducted its assignment. The expiration has seen the escalation in project costs, which require conducting additional environmental studies and payment of environmental review fees. The task team's mandate included, but not limited to, the following:

- Plausible enhance relevant stakeholders, particularly International Financial Institutions (IFIs), to harmonise with national legislative requirements;
- Aligning of environmental and technical planning taking cognizance of project implementation schedules;
- Benchmark with intergovernmental organisations on management of expiring certificates; and
- Consider other interventions in managing expiration of certificates.

The findings shall be presented at the 54<sup>th</sup> SAPP Environmental Sub-Committee meeting in Lilongwe, Malawi and submitted to the Management Committee for consideration for approval.

### Environmental Management Systems

Utilities continue to be at various stages of implementing Environmental Management Systems (EMS), aimed to enhance the management of environmental impacts and thereby improving their environmental performance. There has been notable improvements in the implementation in the utilities. The current status is as follows:

- Three (3) utilities have fully implemented ISO 14001:2015;
- One (1) utility towards internal audit;



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- Three (3) have commissioned consultants for the implementation; and
- Two (2) are conducting in-house implementation.

### Upcoming Events – 2020

DATE	EVENT
3 – 7 February 2020	SAPP CC Strategic Breakaway, <b>Cape Town, South Africa</b>
10 – 13 February 2020	SADC Energy Coordination Meetings, <b>Gaborone, Botswana</b>
18 – 19 February 2020	Crime Prevention Working Group Meetings, <b>Victoria Falls, Zimbabwe</b>
18 – 21 February 2020	Joint MSC, OSC and PSC Meetings, <b>Johannesburg, South Africa</b>
19 – 21 February 2020	RERA Annual Conference, <b>Victoria Falls, Zimbabwe</b>
25 – 26 February 2020	Integrated Demand Management Working Group Meetings, <b>Maputo, Mozambique</b>
27 February 2020	4 <sup>th</sup> RENPOWER Mozambique – The Renewable Energy, Off-Grid & Power Infrastructure Investors Conference, <b>Maputo, Mozambique</b>
25 – 27 February 2020	SADC SCOM, <b>Dar as Salaam, Tanzania</b>
3 – 5 March 2020	54 <sup>th</sup> SAPP Meetings, <b>Lilongwe, Malawi</b>
4 March 2020	42 <sup>nd</sup> SAPP CC Board Meeting, <b>Malawi</b>
11 – 13 March 2020	International Renewable Energy Conference, <b>Victoria Falls, Zimbabwe</b>
16 – 18 March 2020	African Power Pools Meetings with EU, <b>Brussels, Belgium</b>
19 - 20 March 2020	SAPP HRWG Meetings, <b>Maputo, Mozambique</b>

26 March 2020	SAPP Executive Committee Meeting, <b>Johannesburg, South Africa</b>
April / May 2020	SADC Energy Thematic Group Meeting, <b>Gaborone, Botswana</b>
11 – 14 May 2020	African Utility Week, <b>Cape Town, South Africa</b>
18-22 May 2020	SADC Joint Energy and Water Ministers' Meetings, <b>Tanzania</b>
20-21 May 2020	Finance Working Group Meeting, <b>Luanda, Angola</b>
18 - 24 June 2020	20 <sup>th</sup> Congress and Exhibition of Association of Power Utilities of Africa (APUA), <b>Dakar, Senegal</b>
30 June - 3 July 2020	Africa Energy Forum, <b>Barcelona, Spain</b>
25 – 27 August 2020	55 <sup>th</sup> SAPP Meetings, <b>Maseru, Lesotho</b>
October 2020	SADC Energy Thematic Group Meeting, <b>Gaborone, Botswana</b>
29 October 2020	49 <sup>th</sup> SAPP Executive Committee Meeting, <b>Kinshasa, DRC</b>
27 November 2020	45 <sup>th</sup> SAPP CC Board Meeting, <b>Harare, Zimbabwe</b>



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