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Meetings, Workshops and Conferences

Capacity Building on use of ArcGIS Software

The SAPP Planning Sub-Committee has embarked on a project to develop Transmission Grid Maps which will help stakeholders visualise the SAPP grid maps on an online platform. The ArcGIS software was recommended and further procured by the SAPP.

An online training of 9 SAPP CC and SAPP PAU staff on the use of the ArcGIS software was held from the 3rd to the 7th of May 2021.

SADC Energy Thematic Group

The SADC Energy Thematic Group meeting was held on 5 May 2021. The meeting received updates on the progress in the preparation of various initiatives in the Energy Sector in the SADC region.

EnergyNet Africa Utilities Round Table

The SAPP CC Executive Director participated in the Africa Utilities Round Table organised by EnergyNet on 13 May 2021. The discussions centred on the impact of Covid-19 on the operations of power utilities in Africa and was attended by CEOs of power utilities and regional energy institutions.

Joint MSC and OSC Meeting

The SAPP Markets and Operating Sub-Committees (MSC and OSC) held a virtual meeting on 20 May 2021. They discussed progress on implementation of Control Area Services charges. The meeting was also attended by various financiers, SADC, RERA, SACREEE and SAPP.



OSOWOG Inception Workshop

SAPP participated in the inception workshop for One Sun, One World, One Grid (OSOWOG) hosted from India on 24 and 25 May 2021 which aims to build a global ecosystem of interconnected renewable energy supply generators and demand centres across continents to contribute to meeting the targets of the Paris Agreement to prevent dangerous climate change, hasten energy transition, and to achieving the Sustainable Development Goals. SAPP shared experience in interconnectivity and electricity trading.

System Planning

Review of SAPP Load Forecasting Methodology

The project to benchmark and evaluate the different load forecasting methodologies that are being used by the various SAPP members continued during the month.

Progress made during the period under review was the delivery of the Draft Final report on 17 May 2021. This report incorporated comments received during Workshop 2 held on 22 April 2021.

Transmission Pricing Model Review

The SAPP continues with the project to improve the Transmission Pricing Methodology for implementation.

The major milestone for the period under review was the delivery of the draft Inception Report on 5 May 2021. This was followed by Workshop 1 which was held on 11 May 2021. The main objective of the workshop was to discuss the outcomes of the Inception Report which included the key assumptions and approach. Comments were received from the SAPP members and other stakeholders.

The next deliverables for the project are as follows:

- Reporting, implementation proposals and model delivery, thus include:
 - a) Delivery of the Draft Report which will be done upon completion of the transmission pricing model and subsequent training,
 - b) Delivery of the transmission pricing model and user manual
 - c) Delivery of the final report incorporating feedback on Draft Report
- Workshops and Training: Training will be done on the transmission pricing model and Python coding. Workshop 2 will be held to present the draft report and further demonstrate the model and present the indicative results.

SAPP Transmission Maps Development

The SAPP has completed the project of developing transmission grid maps onto ArcGIS software. These interactive maps will help stakeholders to easily visualize the current state of the interconnected systems, projects under consideration and future proposed projects. SAPP members and other stakeholders can now visualise the SAPP grid on the ArcGIS Online portal.

Update on SAPP Projects

Baynes Hydro-Power Plant Project

Technical Studies:

- The evaluation of twenty-two (22) EOI bids for shortlisting, in preparation for invitation of RFP bids is planned for completion in early June 2021.
- The process of estimating the funding gap for the feasibility study has advanced and is ongoing.



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ESIA Studies:

- Preparation of the final aligned work plan comprising a combination of technical and ESIA activities and milestones was completed and submitted to SwedFund on 17 May 2021.
- The process of estimating the funding gap for the ESIA study has advanced and is ongoing.

Kolwezi – Solwezi Interconnector Project

ESIA Studies:

The service contract for the Consultant has been extended in time to June 2021.

- (a) The Consultant received commented feedback from ZEMA on the draft RCAP document.
- (b) On the DR Congo side:
 - The Consultant requested that SNEL settles all RCAP document review fees charged by the environmental authority ACE, to ensure timely approval of the document since the studies are nearing completion.

Malawi – Zambia Interconnector Project

The procurement of feasibility and ESIA study consultancy services have advanced, with the EOI stage completed and the process entering RFP stage. Eight (8) companies have been shortlisted for the technical study while seven companies have been shortlisted for the ESIA study.

Mozambique – Zambia Interconnector Project

Technical Studies:

Following approval of time extension to the service contract of the Consultant:

- (a) The tax exemption issue affecting Geotechnical consultants in Zambia is still a pending issue.

- (b) ZESCO has been collaborating with the Ministry of Finance and the tax authority ZRA on the issue, to which there is an indication of positive developments towards resolving the VAT exemption issue.
- (c) Geotech laboratory test results for soil samples are ready.
- (d) The Network study report is planned for review and approval in early June 2021.

ESIA Studies:

- Update of the ESIA reports
 - ✓ Review comments on the ESIA and RFP Reports for the Zambia portion as well as those for the ESIA and ESMP from Mozambique have been received.
 - ✓ The ESMP updates are currently underway.
 - ✓ Substantial comments were received on the RFP regarding the assumption made on the Mozambican RoW – the update of RFP required substantial amendments to be made.
- Stakeholder engagement and disclosure process
 - ✓ All the stakeholder documentation for Zambia is ready for the disclosure process.
 - ✓ Mozambique disclosure documents were circulated for review and comments.
- Next steps
 - ✓ The Consultant will continue with updating the reports which will be submitted for final review and approval towards the second week of June 2021.
 - ✓ Once the Mozambique English draft reports are approved – the Portuguese versions will be updated and circulated for review and approval.
 - ✓ Public disclosure will commence in Zambia once the Zambian reports are approved



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- ✓ Public disclosure will commence in Mozambique once the Portuguese reports are approved.

Zambia – Tanzania Interconnector Project

Technical Studies:

- The Consultant submitted the draft tender documents, specifications, Bill of Quantity (BOQ) and technical datasheets for the 330kV transmission interconnector on 18 May 2021.
- ZESCO and SAPP participated in the review and revision of the documents by providing comments to the employers' requirements and BOQ final design and tender documents.
- Due to the voluminous nature of the draft final tender documents comprising five (5) Lots, a period of five (5) weeks has been allocated for the review process, workshopping, and update of the tender documents with pertinent comments from all stakeholders.
- The final bidding document is expected to be submitted by 16 July 2021 as per plan.

Regional Transmission Infrastructure Financing Facility (RTIFF)

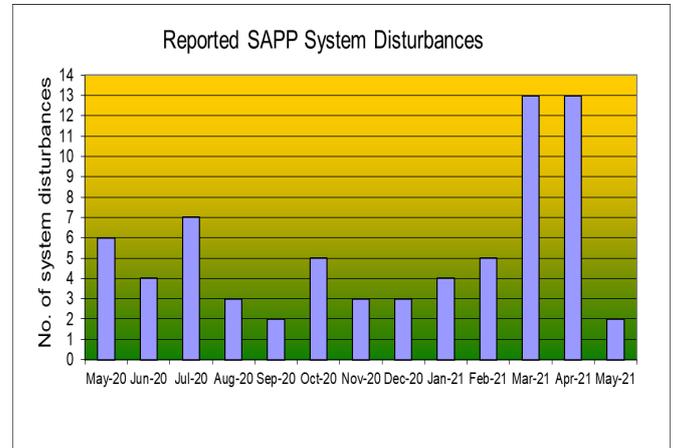
The team is carrying out the administrative procedures required to continue with phase 2 of the assignment which aims to move forward the design of RTIFF towards establishment and operationalization while ensuring that the Facility is well integrated with the SADC Regional Development Fund (RDF).

System Operations

SAPP System Disturbances

In the month of May 2021, two low power frequency excursion events were reported. The first one was due to tripping of one pole of the Mozambique - South Africa HVDC link.

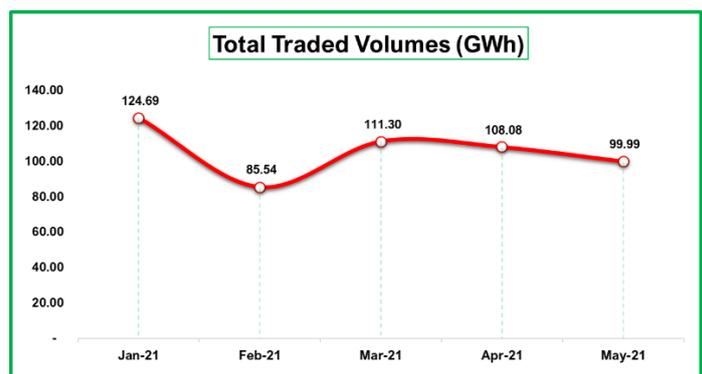
The second one was due to tripping of a generation unit in South Africa from 307 MW. Refer to the figure below for the reported SAPP system disturbances in the last twelve months.



Electricity Trading

Traded Volumes

Trading on the market was lower during the month of May 2021 when compared to April 2021. 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 7.5% to 99.99 GWh in the month of May 2021, from the April 2021 volume of 108.08 GWh.



Monthly Traded Volumes (GWh) in DAM, IDM, FPM-W and FPM-M (January 2021 to May 2021)



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Market Energy Prices

FPM Monthly Prices

The May 2021 market clearing price for the non-off-peak period was 10 USc/kWh, the same as the April 2021 figure. The price for the off-peak period was also the same as the April 2021 figure of 4.0 USc/kWh.

FPM Weekly Prices

The average market clearing price for the peak period was higher by 12.8% at 21.1 USc/kWh in May 2021 from the April 2021 figure of 18.7 USc/kWh. Standard period average market clearing prices increased from the April 2021 figure of 7.2 USc/kWh to 8.2 USc/kWh in May 2021. The average off-peak market clearing price for the month of May 2021 was 3.8 USc/kWh, the figure as for April 2021.

Day Ahead Market

The monthly average DAM market clearing price (MCP) was higher by 5% during the month of May 2021 at 8.4 USc/kWh when compared to 8.0 USc/kWh recorded in March 2021.

Intra Day Ahead Market (IDM)

The average IDM price for the peak period for the month of May 2021 was 11.7 USc/kWh, down from the April 2021 figure of 11.8 USc/kWh. The average IDM price for the standard period was 7.7 USc/kWh in May 2021, the same figure recorded in April 2021. The average off-peak period price recorded for May 2021 was 3.5 USc/kWh, down from the April 2021 figure of 5.1 USc/kWh.

Market Revenues

A total of USD 7.13 million was exchanged on the competitive market during the month of May 2021 when compared to USD 7.14 million exchanged in April 2021. The change is mainly attributed to changes in prices. USD

5.41 million was exchanged on the competitive market during the same month of May in 2020.

Market Surveillance

Market Monitoring and Surveillance

The Market Surveillance Office in the SAPP Co-Ordination Centre is on its third year since inception and is operational and active in conducting market monitoring and surveillance across all the SAPP Markets.

During the month under review there were no observed cases of market manipulation. On year-on-year basis compared to May 2020, the Market Clearing Prices (MCPs) for May 2021 were relatively higher due to the easing of the COVID-19 lock-down restrictions and the beginning of the winter months.

Transmission capacity utilisation was deemed to be efficient according to the transmission capacity allocation rules.

The Market Operator observed its own processes and procedures.

Environmental Corner

Regional Workshop for Gender Focal Persons on Mainstreaming Gender in the SADC Renewable Energy Sector

The Southern African Research and Documentation Centre (SARDC) and the SADC Centre for Renewable Energy and Energy Efficiency (SACREEE) jointly convened a virtual workshop on Mainstreaming Gender in the Renewable Energy Sector for Gender Focal Persons (GFPs) on 27 May 2021. The purpose of the Workshop was to strengthen the capacity of GFPs from SADC Member States and regional energy institutions in mainstreaming gender in the formulation and implementation of programmes and projects in the SADC Renewable Energy Sector.



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The objective was to build a critical mass of gender and energy stakeholders with increased capacity to ensure meaningful gender mainstreaming in the programmes that promote gender equality in the RE sector. The gender focal persons are strategically positioned to influence gender mainstreaming in the development of programmes and projects in respective ministries and institutions. The Workshop focused on gender and renewable energy as these are central to human and socioeconomic development as stipulated in various developmental frameworks such as the Sustainable Development Goals, the SADC Energy Protocol, the Revised SADC Protocol on Gender and Development as well as the SADC regions development blueprint, the Regional Indicative Strategic Development Plan 2020 - 2030.

Gender mainstreaming will advance equitable and sustainable distribution of benefits from RE for men and women at national and regional levels. The Regional Workshop directly benefited GFPs from SADC Member States by strengthening their capacity on how to understand the correlation between gender and renewable energy.

Second Programme for Infrastructure Development in Africa Water Session

AUDA-NEPAD, Global Water Partnership, and partners are collaborating on advancing the Programme for Infrastructure Development in Africa (PIDA) Water Projects. These efforts are under the auspices of the Continental Africa Water Investment Programme (AIP) which was adopted by the African Union Heads of State as part of PIDA-PAP II in February 2021. The Second PIDA Water session was virtually convened on 18 May 2021. Presentations were made on the following: Resource mobilisation strategy,

and PIDA Service Delivery Mechanism and status of projects in the Small Island States; North, West and Central Africa; and Southern and Eastern Africa. AIP aims to transform the investment outlook for water security and sustainable sanitation for a prosperous, peaceful and equitable Africa.

6th Nile Basin Development Forum

The 6th Nile Basin Development Forum (NBDF) hosted by Ethiopia, continued to host its series of webinars, in the month of May 2021, assessing the implementation of water resources investments at a speed and scale commensurate with the growing demand for food, water and energy across the Basin. The SAPP, at the invitation of the NBDF, participated in May webinars which included, but not limited to the following areas of discussion:

- Bridging the gap between water supply and demand.
- Re-thinking regional investments in the Nile Basin.
- Governance aspects relating to investments in the Nile Basin.

The discussions exemplified the importance of addressing competing water demands, prioritising projects of regional benefits and instituting legal and institutional frameworks to govern the developments.

European Union Green Deal Training

Fifteen (15) Members of the Environmental Sub-committee nominated to attend the European Union (EU) Green Deal eight-week course, 3 May – 24 June 2021, covering the fundamentals of energy and climate policy as reformulated in the context of the EU Green Deal, participated in the training.



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In the month of May, the following topics were covered: The EU Energy policy; EU institutions, treaties and legislation; Subsidiarity and solidarity; The role of EU agencies; International climate agreements; Decarbonisation instruments; Cross border mechanism and World Trade Organisation: Methane emissions; Different dimensions security of supply from import dependency to reliability; Planning the networks of the future; Resource adequacy and capacity mechanisms; Energy transitions and energy poverty; Electricity markets in the EU; Gas wholesale markets; and Energy system integration.

World Environment Day 2021

World Environment Day (WED) 2021 will be commemorated on 5 June. The theme of WED 2021 is 'Reimagine. Recreate. Restore.' as this year marks the beginning of the United Nations Decade on Ecosystem Restoration. Utilities are urged to participate in the commemoration of this day as we continue to promote environmental sustainability.

Upcoming Events – 2021

DATE	EVENT
1-3 June 2021	AU Specialised Technical Committees on Transport, Intercontinental. and Interregional Infrastructures and Energy
15 June 2021	Blackstart and Emergency Preparedness Working Group Meeting, Virtual
29 June 2021	47 th SAPP CC Board Meeting
September 2021	57 th SAPP Meetings

28 October 2021

51st SAPP Executive Committee Meeting and SAPP AGM



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