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Meetings, Workshops and Conferences

SAPP JICA Training on PSS/E

In May 2025, various training webinars on power system planning, power system operations, and

cybersecurity were held under the SAP-JICA (Japanese International Cooperation Agency) technical assistance programme. The training on power system simulation program for engineers (PSSE) was held face-to-face in Johannesburg, South Africa, from 5 to 6 May 2025.



Participants at the SAPP-JICA training in Johannesburg, South Africa

SAP S4HANA Portfolio and Project Management (PPM) Training

SAPP-CC and SAPP-PAU teams undertook Portfolio and Project Management (PPM) training in South Africa, from 12 to 16 May 2025. PPM is an ERP tool for managing business processes.



In picture, SAPP Team at the SAP facility in Woodmead, Johannesburg.

AFREC Capacity Building Workshop

The African Energy Commission (AFREC), an institution of the African Union Commission (AUC), has composed a framework for cross-border strategic cooperation in skills sharing in



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the African energy sector. Various stakeholders, including power pools, the academia, government departments of energy, regional economic communities, cooperating partners, centres of excellence in capacity building and energy regulators were called upon to harness skills and assist each other in building skills in the energy sector during validation workshop for the framework that took place from 27 to 28 May 2025.



Participants at the validation workshop in Addis Ababa, Ethiopia

International Association for Impact Assessment Conference

SAPP participated in the 44th Annual Conference of the International Association for Impact Assessment (IAIA25), which took place from 29 April to 4 May 2025, in Bologna, Italy. The conference was held under the theme “Impact Assessment in the Age of Artificial Intelligence”. It brought together over 1,000 experts from more than 80 countries who discussed the impact of artificial intelligence (AI) on impact assessment, ESG (environmental, social and governance) standards as well as sustainable finance.

The following aspects were among the key takeaways:

- Latest frameworks for sustainable finance, and respective reporting requirements,
- Role of AI in processing Environmental and Social Governance data
- Importance of incorporating multidisciplinary knowledge and eco-design principles into engineering practices, and
- latest tools on strategic environmental impact assessments

ENLIT Africa 2025 Conference

SAPP participated in the ENLIT Africa 2025 Conference that took place in Cape Town from 20 to 22 May 2025. The Coordination Centre Executive Director joined the Utilities CEO Forum hosted by ALSF. Some of the topics covered were contracting emergency power, the role of digitalisation and the just energy transition.



Participants at the ENLIT Africa Utility CEO Forum in Cape Town.

System Planning

Meeting with GET.Invest

The meeting focused on GET.Invest support for CMP Phase 3, emphasizing capacity building for power pools and project preparation. GET.Invest offered technical assistance to enhance project development and provide transactional advisory services.

SAPP Pool Plan Update

The SAPP with support from GET.transform is revising the SAPP Pool Plan of 2017. This critical update will serve as a strategic roadmap for electricity planning and investment in the region from 2025 to 2045, addressing changing energy demands, emerging renewable energy dynamics, regional integration goals, and the need for climate-resilient infrastructure.

The updated SAPP Pool Plan aims to:

- Identify priority investments in generation and transmission infrastructure
- Ensure an adequate, efficient, and sustainable electricity supply for the region
- Support regional integration and power trade from 2025 to 2045
- Highlight critical transmission corridors for future investment



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- Build resilience to climate-related risks and strengthen institutional capacity
- Align national energy strategies with continental goals, including the African Union's Agenda 2063, the African Single Electricity Market (AfSEM), and the Continental Master Plan (CMP).

In alignment with the CMP and AfSEM goals, the updated SAPP Pool Plan will serve as a cornerstone for infrastructure development. It reflects a shared vision for a more integrated, reliable, and climate-resilient energy future in Southern Africa.

Transmission Pricing

The Transmission Pricing Task Team Chairperson, the Planning Subcommittee Chairperson and the secretariat engaged CEC and HCB to discuss operations of the Transmission Pricing model on the 12th of May 2025 and 23rd of May 2025 respectively. Further engagement is scheduled for the month of June 2025.

Upcoming events include the circulation of dummy invoices for members to carry out their financial impact assessment of the model. Other activities include:

- Developing transmission pricing rules and policies to monitor and ensure integrity of participants and ensure the availability of networks.
- Conduct performance evaluation of methodology after year one.

Preparation of Sector-Based Consultations and Stakeholders Roundtables

The project brochures for the Luapula project and renewable energy markets were updated. These will be presented at the upcoming Sector-Based Consultation and Stakeholders Roundtables and hosted by the African Union Commission's Department of Infrastructure and Energy (IED), in collaboration with AUDA-NEPAD and UNECA. The consultations will focus on mobilizing climate finance for infrastructure projects and are scheduled from 9 to 12 June 2025, in Addis Ababa, Ethiopia. The sessions will gather

representatives from Power Pools, Member States, Regional Economic Communities, project owners, the private sector, financial institutions, and development partners.

Continental Energy Program for Africa (CEPA)

The CEPA team has been appointed to conduct pre-feasibility studies for selected transmission interconnector projects. The initiative is part of the CMP and aligns with the African Single Electricity Market (AfSEM), a flagship project under AU Agenda 2063, adopted by the AU Heads of State at the 2024 Summit. The CEPA promotes a portfolio-based approach for implementing priority projects, supported by the European Union through the Continental Energy Programme for Africa.

Update on SAPP Projects

Angola-Namibia Interconnector

In the month under review, work on the project constituted reviews and update to the draft tender documents for the Angola transmission section, which is about 92% of the ANNA Project.

The Tender Documents are for the procurement of an EPC contractor, the construction company that will install the proposed transmission infrastructure and construct the transmission interconnector infrastructure in Angola. The overall infrastructure requirements for the project are as follows:

Angola:

- Construction of a 336km, 400kV transmission line between proposed Lubango substation, through the proposed Cahama substation and up to the border with Namibia.
- Construction of the Lubango and Cahama transmission substations.

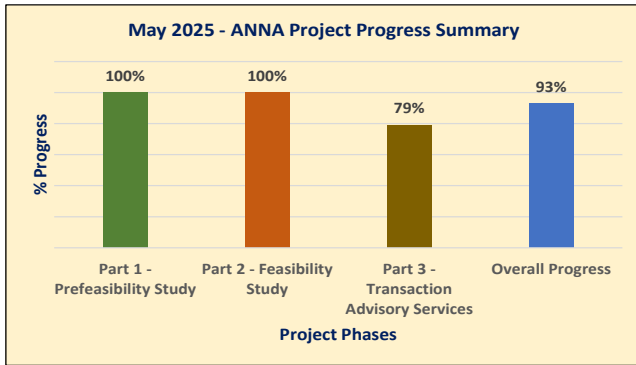
Namibia:

- Construction of a 30km, 400kV transmission line from the border with Angola to the existing Kunene substation in Namibia.



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Overall Project Progress at 93%

Baynes HPP Transmission Lines Project

Technical Feasibility Study:

In the month under review, Phase 2 project works comprised the following:

Data Collection:

SAPP provided the following data to the Consultant:

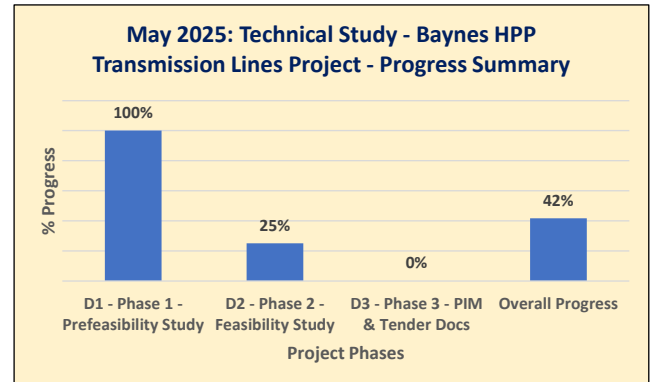
- Transmission and network constraints data.
- Regional interconnection developments data.
- Demand and energy forecast.
- Generation expansion planning.

Technical Study Milestone Delivered:

The first training of RNT, NamPower and SAPP personnel working on the Project took place from 5 to 9 May 2025, in South Africa focusing on planning, design, and construction of transmission lines. The training was provided by Trans-Africa Projects (TAP) of South Africa and included field work at ESKOM facilities.



Planning, design, and construction of transmission lines training field work at ESKOM tower testing facility in Johannesburg



Overall progress is about 42%

ESIA Studies:

Project Administration:

- The first coordination between technical and ESIA consultants took place on 9 May 2025.
- Decision was made to conduct a route alignment workshop of the technical and ESIA after the completion of the Lidar survey.

Preparation of the Stakeholder Engagement Material:

- Commenced with the compilation of the Preliminary Stakeholder Engagement Plan (SEP) and the Background Information Document, and the process is ongoing.
- Specialist Studies:
- Appointed Resettlement, Social, and Visual specialists.
- Specialist studies will assess the 400 m-wide Lidar survey corridor (as opposed to the original 800m corridor).

The deliverable received so far is the compiled Background Information Document, which will be used during the initial consultation meeting.

IPOEs:

The AfDB agreed to change the liability contract clause on the IPOE's. The two outstanding individual consultants have been re-engaged and draft contracts have been sent for their approval.

Procurement:

The payment variation for the Feasibility Study Contract was approved by the AfDB on 28 May 2025.



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Luapula Hydro Project

The Luapula New Partnership for Africa's Development Infrastructure Project Preparation Facility (NEPAD IPPF) Facility Agreement is expiring on 30 June 2025, and the process to extend for a further two years has started. The delay was due to the funding for the Environmental and Social Impact Assessment (ESIA) required to complement the Techno-Economic Study was not in place for the technical study to commence.

Mozambique – Tanzania Interconnector Project

The conditions precedent (CPs) for the first disbursement were submitted to the AfDB on 21 May 2025.

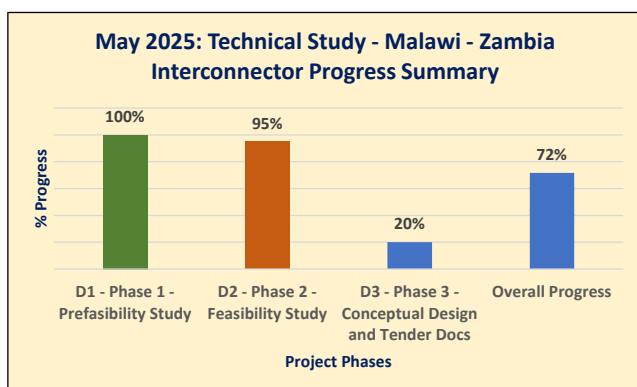
Malawi – Zambia Interconnector Project

Technical Feasibility Study:

Technical Study milestones delivered during the month:

- The draft final Feasibility study report on 7 May 2025.
- The draft final network analysis report on 8 May 2025.
- The final geotechnical investigations factual report on 8 May 2025.
- Overall progress on the Project is about 72%.

Technical Study Overall Progress:



Overall progress is 72%

MAZA – ESIA Studies:

Project Progress Update - Zambia:

- ESIA-related field surveys in Zambia are complete. The noise, air, water, ecology, and socio-economic surveys reports have been completed.
- The preparation of the ESIA draft report is in progress and is expected by early June 2025.
- The exchange of information related to the RAP activities is ongoing between the Utilities and the Consultant.

Project Progress Update – Malawi:

- Enumerator and supervisor training was completed on 2–3 May 2025 in Lilongwe, Malawi. The training covered engagement protocols, survey content, digital tools, data quality.
- All survey tools and the Entitlement Matrix have been finalized.
- Field surveys including socio-economic surveys, census, and inventory of losses, are ongoing.
- Fieldwork started the week of 26 May 2025 and is expected to last one month.

ZIZABONA Transmission Interconnector

In the month under review, the Consultant conducted bilateral meetings with project utilities, ZESA, ZESCO and BPC, to review and finalise the network model and grid topology and impact of interconnected networks.

Bilateral Meetings:

The bilateral technical meetings between the project utilities took place to validate the proposed models and achieve alignment of the grid topology with the planning horizon of 2030, 2035 and 2050 future grids, respectively.

- Meeting held with ZESCO on 27 May 2025
- Meeting held with ZESA on 28 May 2025
- Meeting held with BPC on 30 May 2025.

Technical Study Milestones Delivered:

- Updated final line route and substations report delivered on 30 May 2025.



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- Updated Market study report delivered on 30 May 2025.

Regional Transmission Infrastructure Financing Facility (RTIFF)

A kick-off meeting between GIDE, the appointed RTIFF Legal Counsel, and the SAPP Secretariat and ALSF was held on 16 May 2025, following the signing of the Letter of Engagement and the agreement on the scope of legal activities to be undertaken.

The objective is to finalize internal consultations and conclude discussions with Climate Fund Managers (CFM) by the end of June 2025.

System Operations

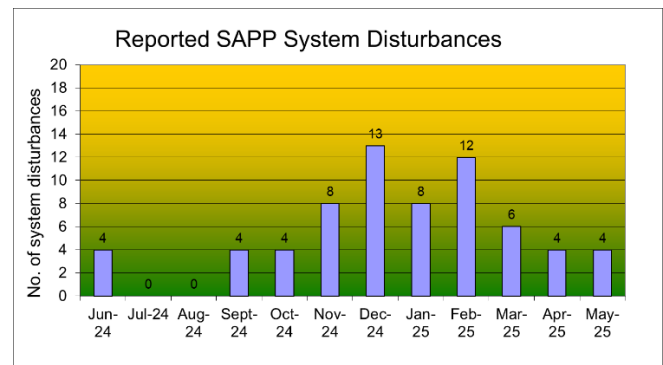
SAPP System Disturbances

In the month of May 2025, four (4) SAPP system disturbances were reported. In the first one, a transmission line tripped in Zimbabwe, leading to the disconnection between Mozambique North and Zimbabwe. Mozambique North lost power temporarily as one generator tripped at Cahora Bassa. In the second one, a generation unit tripped in South Africa from 655 MW and power frequency dipped from 49.90 Hz to 49.49 Hz. In the third one, a load of 894 MW was lost in Mozambique and power frequency shot from 50.247 Hz to 50.56 Hz. Pumped storage units, changing modes from standstill to pumping, assisted in restoring power frequency to normal band. In the fourth one, the 400 kV Eswatini – Mozambique interconnector tripped due to a faulty tower that collapsed because of vandalism. See pictures below.



Collapsed vandalised 400 kV tower in Eswatini

Refer to the figure below for an overview of reported SAPP system disturbances.



Key SAPP Outages

OUTAGES IMPLEMENTED IN MAY	
DATE	EQUIPMENT DESCRIPTION
05 May 2025	400kV NTCSA-NamPower interconnector for maintenance.
05 May 2025	400kV NTCSA-NamPower interconnector for maintenance.
11 May 2025	400kV NTCSA-BPC-ZESA interconnector for maintenance.
26 May 2025	400kV EDM-EEC interconnector for repairs of a broken conductor.
31 May 2025	275kV NTCSA-EDM for maintenance.



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NEAR-FUTURE PLANNED OUTAGES	
DATE	DESCRIPTION
03 June 2025	400kV NTC-SA-EEC for CT replacement.
14-15 June 2025	Outage of the 400kV NTC-SA-BPC-ZESA interconnector for maintenance.
16 June 2025	400kV NTC-SA-EDM for controlled forestry burning.

Power Supply – Demand Situation

The table below shows the power supply and demand situation for the month of May 2025.

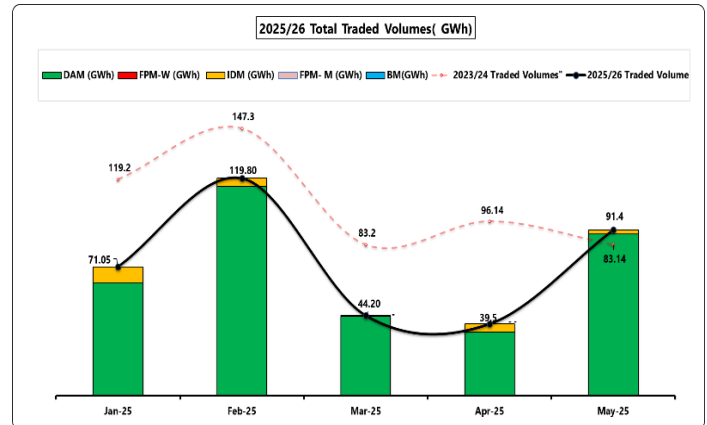
Country, Utility	Available (MW), during time of peak	Recorded Peak Demand (MW) ¹	Load Shed (MW)
South Africa, Eskom	32,849	29,202	-
Botswana, BPC	740	647	-
Eswatini, EEC	70	229.37	-
Mozambique, EDM and HCB ^{2,3}	2,246	1,024	-
Namibia, NamPower	543.5	613	-
Zambia, ZESCO, CEC	2,023	1,825	600
Zimbabwe, ZESA	1,505	1,538	600
Lesotho, LEC	104	159	-
DR Congo, SNEL ²	2,034	1,976	200

Notes: ¹Recorded peak demand – after load shedding
²Estimated figures
³EDM excludes MOZAL, which has been included in Eskom demand.

Electricity Trading

Traded Volumes

Total traded volumes in all the markets increased by 131% to **91.4 GWh** in May 2025, from the April 2025 volume of **39.5 GWh**.

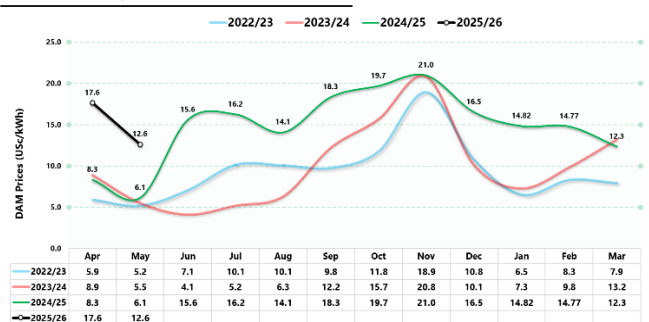


Monthly Traded Volumes (GWh) in FPM-M, FPM-W, DAM, IDM, and BM (January 2025 to May 2025)

Market Energy Prices

The monthly average DAM market clearing price (MCP) for May 2025 was 12.6 USc/kWh, representing a 28% decrease compared to the April 2025 market-clearing price of 17.6 USc/kWh.

DAM Prices (USc/kWh)
2025/26 Financial year



DAM Monthly Average Market Clearing Prices from January 2025 to May 2025

Market Revenues

In May 2025, the total revenue exchanged on the competitive market was US\$8.7 million, representing a 7.4% increase from the US\$8.1 million exchanged in April 2025. In May 2024, US\$5.0 million was exchanged on the competitive market.



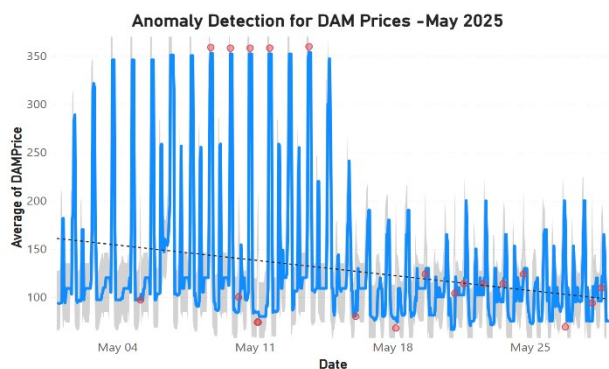
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Market Surveillance

Market Monitoring and Surveillance

During the month under review, the MS Unit concentrated on monitoring and investigating reported anomalies. A comprehensive assessment revealed that these anomalies were non-malicious. The unit also examined the activities of the Market Operator and investigated possible instances of insider trading and market manipulation. The results confirmed that all trading activities within the market were in full compliance with regulatory standards, with no concerns raised.

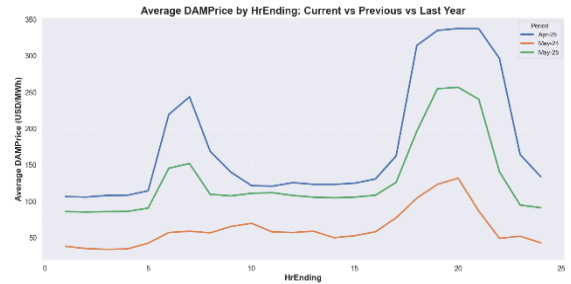


During the month under review, the average hourly Day-Ahead Market (DAM) prices trended downwards.

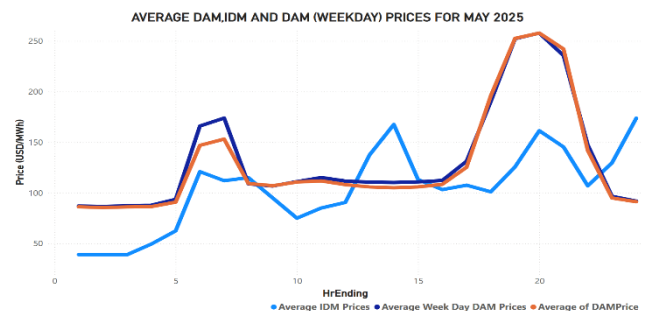
No formal surveillance cases were opened. Routine screening of bids and pricing behavior flagged minor pricing anomalies at the minimum price range. Further analysis revealed that these anomalies were influenced by the prevailing dynamics of supply and demand within the market.

Average DAM Clearing Prices for May 2025, April 2025, and May 2024.

The average hourly DAM clearing prices for May 2025 were lower than those of April 2025 and higher than those of May 2024 for all hours of the day.



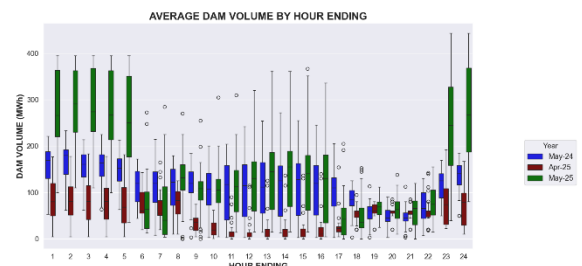
Average hourly IDM and DAM Prices for May 2025



The average weekday DAM clearing prices were tracking the average hourly DAM clearing prices. The IDM market followed DAM price trends but remained consistently lower, reflecting its residual balancing nature. Price inversions during hours ending 13:00, 14:00, 23:00, and 24:00 are likely due to localized constraints or scarcity. No indications of price gaming were found in these hours.

DAM Market Volumes

The quantities traded on the DAM and IDM did not raise any form of suspicion and thus did not warrant any investigations. Utilities did not participate in the FPM and Balancing Markets.



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During the month under review, unconstrained Day-Ahead Market (DAM) volumes were higher compared to April 2025 and May 2024 figures.

Adherence to Transmission Capacity Allocation Criteria

There were no major generator and transmission system outages reported during the month under review.

MTP system Performance

The MTP system performed according to expectation during the month under review.

Market Operator Activities

There were no delays in publishing market results during the month under review. The Market Operator performed according to expectations during the month under review.

Environmental

SAPP CC Environmental Management Programs

The stakeholder engagement and relationship management assignment is currently in progress. During the period under review, the inception report was finalised. Stakeholder engagement was initiated, starting with questionnaire-based interviews with SAPP management to solicit as much information as possible to establish a firm foundation for the assignment. The assignment seeks to provide a coordinated approach to stakeholder engagement in line with the requirements of international best practice as well as strategic partners.

Task Force on Nature-Related Financial Disclosures (TNFD)

SAPP ESC participated in a virtual capacity building session on the 15th of May 2025 focusing on nature-related financial disclosures. This event was hosted in partnership with Creamer Media. The session provided a practical overview of the TNFD. It expanded focus on nature's four realms: land, atmosphere, freshwater, and ocean. Finally, it concluded by demonstrating how these intersect with society and what this means for

future Environmental, Social and Governance reporting metrics, and general sustainable strategies of institutions.

Upcoming Events - 2025

DATE	EVENT
9 -13 June 2025	SAPP MTP Certification Training, Harare, Zimbabwe
9 -13 June 2025	RETRADE – SAPP project appraisal, Harare, Zimbabwe
10 June 2025	63 rd SAPP CC Board meeting, Harare, Zimbabwe
9 - 12 June 2025	Sector-Based Roundtables on Climate Finance for Infrastructure, Addis Ababa, Ethiopia
17 - 20 June 2025	Africa Energy Forum, Cape Town, South Africa
24 - 26 June 2025	MSC Strategy Session, Johannesburg, South Africa
27 - 28 June 2025	UNECA Consultative meeting on Energy in Africa, Kigali, Rwanda
30 June – 1 July 2025	Continental Energy Security Policy Framework and the 3 rd Africa Nuclear Energy Summit, Kigali, Rwanda .
30 June - 4 July 2025	SADC Joint Energy and Water Officials and Ministers Meetings, Harare, Zimbabwe
02 July 2025	SAPP-EAPP Interconnection Operations Working Group Meeting, Online, MS Teams
3 July 2025	SAPP 30 th Anniversary Gala Dinner, Harare, Zimbabwe
July 2025	MTP Certification Training, Lusaka, Zambia
8 - 11 July 2025	SAPP-EAPP Coordination Meeting, Addis Ababa, Ethiopia
9 – 10 July 2025	Generation Planning Working Group Meeting, Lusaka, Zambia .
15 -17 July 2025	EDM-ESCOM Interconnection Readiness - Site Visit of Matambo Substation and HCB Power Plant – Tete, Songo, Mozambique
14 -18 July 2025	JICA visit to SAPP, Harare, Zimbabwe
23-24 July 2025	Telecommunications Working Group Meeting, Malawi
29-31 July 2025	Protection System Coordination Task Team meeting, Lusaka, Zambia



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6-7 August 2025	Crime Prevention Working Group Meeting, Harare, Zimbabwe
14-15 August 2025	Power Quality Working Group Meeting, Gaborone, Botswana
16 - 24 August 2025	TICAD 9 High-Level Meeting, Japan
August/September 2025	65th SAPP Meetings, South Africa
8-10 September 2025	GEI Conference, Beijing, China
28 Sept – 2 Oct 2025	IEEE PES/IAS Power Africa Conference (PAC 2025), Cairo, Egypt
14-17 October 2025	CIGRE SA Regional Conference, Pretoria, South Africa
October 2025	59th SAPP EXCO Meeting, Lesotho
28-30 October 2025	SAPP-EAPP Interconnection Operations Working Group Meeting, Dar es Salaam, Tanzania (TBC)
19-20 November 2025	SAPP Energy Traders and System Controllers Forum, ESCOM, Malawi (Venue TBC)
December 2025	64th SAPP CC Board Meeting, Harare, Zimbabwe



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