SOUTHERN AFRICAN POWER POOL
(Affiliate Member of AFSEC)

Electricity Supply Industry Standards

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INTRODUCTION TO THE SAPP

Geographic

- 12 Countries
- 230 Million people
- Average Electricity growth rate 3% p.a.
- Installed Capacity 56,000 MW
- Available Capacity 50,000 MW
- Peak Demand 46,000 MW
The Challenges experienced by SAPP at start of the pool:

- **Language of communication**
  - Local languages
  - Foreign languages - English, French or Portuguese?

- **Dispute resolution**
  - How will disputes be resolved?
  - Who will be the referee?

- **Harmonisation Issues**
  - Different legal frameworks
  - Different technical standards
The SAPP is faced with the following operational challenges:

a. The migration from a cooperative pool to a competitive pool.

b. The implementation of a competitive market at a time that the region has run out of generation surplus capacity.

c. The provision of a reliable power supply in an environment with diminished generation surplus capacity and low tariffs.

d. The implementation of cost reflective tariffs and the adoption of regulatory principles that would enhance those tariffs.
Transmission Projects

2013: ZIZABONA - 220/330 kV

2013: Mozambique Malawi

2014/5: Zambia – Tanzania - Kenya - 400 kV

2015: DRC - Angola - 400 kV

2016: MOZAMBIQUE BACKBONE - RSA

2016/7: Namibia – Botswana
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**FROM YEAR 2001**

- Bilateral contracts
- Short-Term Energy Market (STEM) - 2001
- Post STEM (Balancing Market) - 2002
ANCILLARY SERVICES - Inter/ Intra Control Areas

Energy Exchange - SAPP commissioning SCADA system
INTERCONNECTING POWER POOLS IN AFRICA

POWER POOLS IN AFRICA

- **COMELEC**
- **WAPP**
- **CAPP**
- **EAPP (+ RDC, Rwanda, Burundi)**
- **SAPP**
Standards setting is responsibility of Power Pools

Where as Power Pools in the area?

What are Power Pools doing?

What is the role of the regulator / Governments?
Grid Code Objectives should be clear, grid code development

Industry structure in which grid code is applied?

Responsibilities of service providers?

Standards, conformance & monitoring - to what level?

Ownership of grid code and updates
• System aspects for electrical energy supply – TC 8

• Electrical Energy Measurement, tariff and Load Control – TC 13

• Power System Management and Associated Information Exchange – TC 57