

SABS

Delivering Quality Assurance since 1945

*2022 The South African
Energy Efficiency
Confederation
(SAEEC) Conference*

Tshepang Pheelwane
SABS Testing Laboratory

SEPTEMBER 2022

Cluster Structure

Rotating Machines Testing

Lighting Technology Testing

Appliances Testing

NRCS Compulsory Regulations

Developments & Progress



Electronics and Appliances

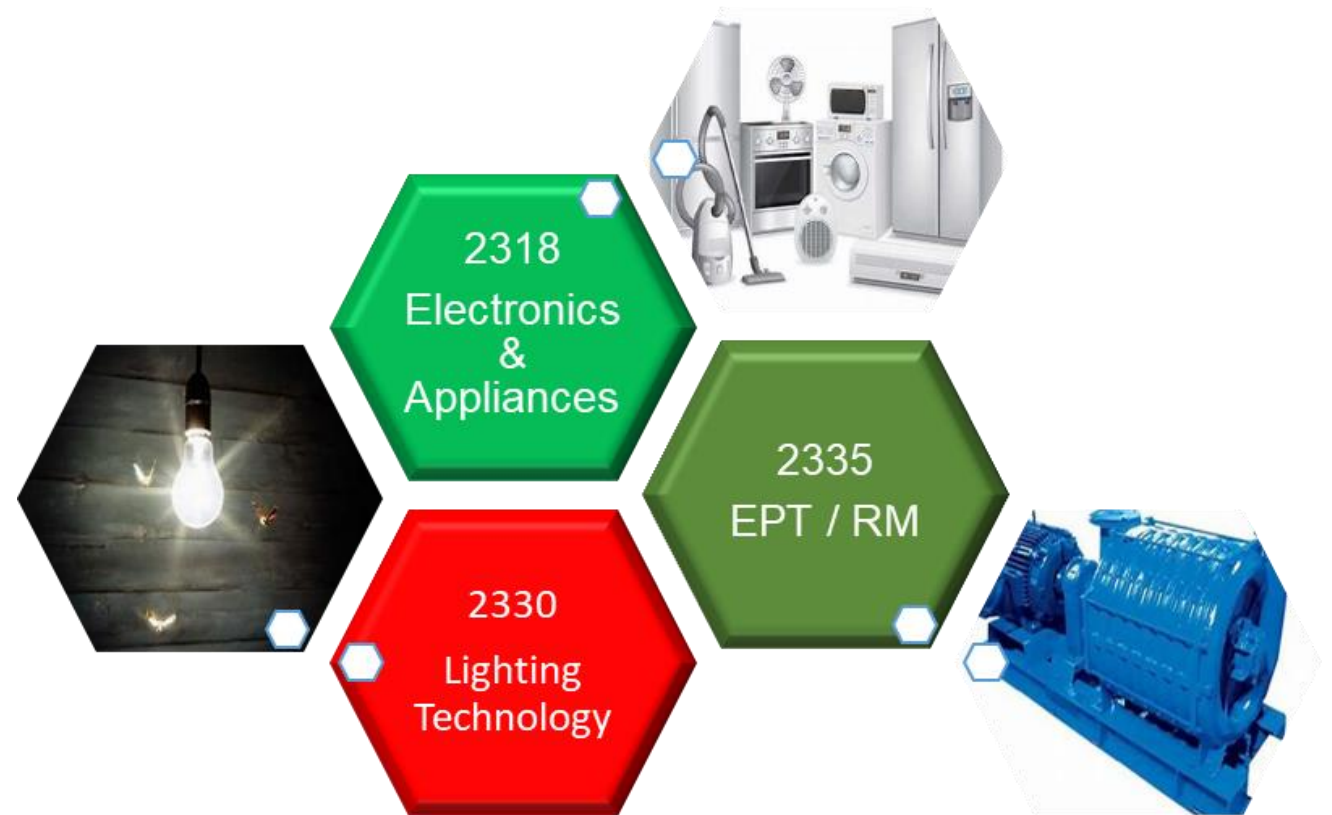
Refrigerators
Cooking Appliances
Dish Washers
Laundry Equipment
Geysers
Electricity Meters
Element and Thermostat
Electrical Appliances

Explosion Prevention Technology & Rotating Machines

Induction Motors
Power Tools
Diesel Engines
Fuel Dispensers
Mechanical Glands
Mining products

Lighting Technology

Reflectors
Road Safety Signs
Automotive lights
Lamp holders
Luminaires
Automotive glasses
Number plates



Testing Capabilities and Gaps

Power tools

Generators

Electric motors



Testing Capabilities and Gaps

Capabilities:

Safety and Performance testing

CFL lamps

Streetlights and Floodlight

General, domestic, industrial

Special application and Emergency luminaires

Gaps:

LED lamp

Photometric measurement



Testing Capabilities and Gaps

Capabilities:

Audio/Video

Refrigerators

Stove ovens

Low power measurement on all appliances

Hot water storage heaters

Gaps:

Dishwashers

Washing machines

Washer-Dryer combo



Compulsory Regulations

- **VC 9091: Compact Fluorescent Lamps (CFL)**
- **VC 8043: Incandescent Lamps**
- **VC 8055: Electrical and electronic apparatus**
- **VC 8043: Incandescent lamps**
- **VC 9006: Hot water storage tanks for domestic use**
- **VC 9008: Energy efficiency and labelling of electrical and electronic apparatus**

<http://www.savingenergy.org.za/wp-content/uploads/2017/11/A-guide-to-energy-efficiency-labelling.pdf>

Developments:

- Positive industry interest received from local manufactures due to “**Local Content**” Government Policy
- Demands for testing Energy Efficiency products is improving
- Various platforms have been created to address deployment and testing of Energy Efficiency to determine the risks involved in not testing the products
- The SABS has invested in equipment to fully capacitate its testing facility to satisfy for current demand
- The regulator (NRCS) is facilitating the compulsory standard/regulation in various areas with assistance from testing facilities, consumers and manufacturers
- Industry is kept on the loop through publications on testing developments and capabilities via professional websites and as well as social media platforms.
- Appliance Laboratory has integrated labeling into their systems
- EE projects and EE developments at SABS is still at initial phase and will required financial resources and support from the industry in both private and public sector.

Thank You.
SABS