Implementation of Standards in The African Power Sector

The Role of IEC- AFRC

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Outline

• About the IEC
• Africa Quality Infrastructure
• IEC-AFRC Mission
• Recommendations
• Conclusion
IEC Family: 170 countries

83 Members
87 Affiliates

Global reach – 170 Countries
98% World population
96% Electricity generation
the whole energy chain
Standards = knowledge
Conformity Assessment = application of knowledge
Standards + Conformity Assessment = Value
Standardization

Global knowledge platform

20,000 experts

212 Technical Fields (SC/TC)

1,500 working groups

Over 9200 standards
Four Conformity Assessment Systems

CAB - Conformity Assessment Board

IECEE
Electrotechnical Equipment and Components

CB Scheme
IECEEx
Equipment for use in Explosive Atmospheres

CB-FCS Scheme
Ex Equipment
Ex Services
Ex Personnel

PV Programme
IECQ
Quality Assessment System for Electronic Components

E3 Energy Efficiency
Active & Passive components
Processes
HSPM
Avionics

IECQ
Wind Energy

IECRE
Solar Energy
plant, equipment and services associated with Renewable Energy Systems

Marine Energy

Hazardous Substances
IEC offices

IEC locations around the world

IEC Central Office & IECEE/IECRE Secretariat

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IEC Central Office
More about the IEC Central Office
Visit the IECEE & IECRE websites

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More about the IEC-AFRC Office

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Tim Roth
More about the IEC-RecNA Office
AFSEC’s Main contribution to the AU Sectors

Accurate measurement
Harmonization of Standards
Adoption of Standards
Confidence in
- Testing
- Calibration
- Certification
- Inspection
Through Accreditation
Training
Research and innovation
Education

Agriculture
Agro food and agriculture programmes of CAADP & 3ADI

Infrastructure, Transport & Energy
Electric Power sector
Power trade
Renewable energy/SE4All

Environmental & Natural Resources
Mining Industry
Air & water quality
Land use
Climate Change

Health
Pharmaceutical Industry
Traditional Medicine
Medical devices

Trade & Industry
Support to SMEs
Reduction of Trade barriers
Africa Trade Support Web Portal
Awareness & Education

ATC 8
ATC 13
ATC 57
ATC 64
ATC 77
ATC 82
ATC 31
ATC 13
ATC 64
ATC 82
Mission
Mission

• As the regional focal point for Africa, the IEC Africa Regional Centre (IEC-AFRC) will provide training and assistance to African countries in adopting and using IEC International Standards and Conformity Assessment Systems.

• IEC-AFRC aims to motivate more African countries to participate in IEC work as a Member or participant in the Affiliate Country Programme.
Influencing the International Standard

don’t let others write the rules
Standards – A Strategic tool

more strategic than you think
To add: Seychelles, Madagascar and Mauritius
Results

• 5 regional or sub-regional organizations

• 4 new Affiliates NECs established

• More than 500 persons met (ministers, regulators, NSBs, industries, power utility companies, consumers, governmental officers)

• 2 new Affiliates (Liberia and Cape Verde)
Recommendations

1. Establish NECs and involve the stakeholders in the selection and adoption of the standards.

2. NECs to have business plan connected to National Development Plans and the SDGs.
Recommendations

3. Declare the national adopted Standards

4. Do not only adopt the standards, select and declare also the relevant TCs

5. Send comments on the adopted standards if justified

6. Follow up the on-going process (draft standards) – Not only standards taker, also standards maker by providing input

7. Public commenting (to promote)

8. Use of the IEC Conformity Assessment certificates database to assess the conformity of Electrotechnical Products

9. Participate in IEC General Meeting - next one is in Vladivostok in Russia
Conclusion

- Important effort is made by IEC to involve all countries in its global standardization and conformity assessment activities, especially for developing countries in Africa through the Affiliates Country Programme and the support of the Africa regional Centre
  - Affiliates and nomination of experts
  - Affiliates Plus and Access to more Standards
  - ACAS (to help for the use of IEC CA to facilitate trade and insure electrical safety)
  - Mentoring Programme to support and train NC and NECs
  - More experts allowed (one expert per TC/SC selected)

- Participation in IEC standardization work by countries allows them to be actors and not only users

- IEC- AFRC aims to help African countries to benefit fully from IEC work in order to facilitate intra regional and international trade of electrotechnical products regard to WTO objectives
IEC-AFRC Updates
Thanks for your attention

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