

# TANZANIA BUREAU OF STANDARDS



## **THE LAST MILE** **A Workshop on Enhancing the Distribution of Off-grid Energy Solutions**

**PROTEA HOTEL, DAR ES SALAAM, TANZANIA**

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# **LIGHTING GLOBAL QUALITY STANDARDS**

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# 0. Presentation Outline

- 1.0 Introduction
- 2.0 TBS Main Functions
- 3.0 Standards Development Process
- 4.0 Adoption of Lighting Global Standard
- 5.0 TBS Pico PV testing laboratory
- 6.0 Quality Control Systems
- 7.0 Conclusion



# 1.0 Introduction

- ❑ Parastatal organization under the Ministry of Industry, Trade and Investment.
- ❑ Established by Standards Act no. 3 of 1975 and re-established by Standards Act No.2 of 2009 in order to give it more powers
- ❑ Established to support institutional infrastructure for the industry and commerce
- ❑ Responsible for all issues related to standardization and quality assurance at the national level.

# 1.0 Introduction .....

- ❑ Custodian, an overseer observant of standards in Tanzania
- ❑ Undertake measures for **quality control** of products of all descriptions and promote **standardization in industry and commerce**
- ❑ Membership: ISO, IEC, WHO/FAO, EASC, ARSO, Codex Alimentarius, SADCSTAN.



# 1.0 Introduction.....

- Legally integrated with:
  - i) Standardization
  - ii) Metrology
  - iii) Conformity assessment activities – product inspection, testing and certification



## 2.0 TBS Main Functions

- ❑ Formulation and promulgation of Tanzania Standards in all sectors.
- ❑ Implementation of standards through third party certification schemes.
- ❑ Promotion of standardization and quality assurance services.
- ❑ Undertaking testing of products.
- ❑ Undertaking calibration of industrial and scientific measuring equipment and instruments.

## 2.1 Functions in relation to Standards development

- ❑ Prepare, frame, modify or amend National Standards
- ❑ Assist the Government or any other person in the preparation and framing of Standards
- ❑ Co-operate with regional and international organizations in all matters related to standardization and quality assurance and represent the country in such matters;
- ❑ Co-operate with other government agencies, representatives of any industry or any statutory corporation or person with a view to securing adoption and application of Standards.



## 2.2 Functions in relation to Standards implementation

- ❑ Quality control of commodities and services of all descriptions
- ❑ Promote standardization in industry and trade
- ❑ Provide products testing and calibration services
- ❑ Provide products inspection and certification services for local and imported products



## 3.0 Standards Development Process

- ❑ TBS Core function
- ❑ TBS is a Secretariat in the development process
- ❑ Involves Stakeholders in a specific Sector
- ❑ Stakeholders includes; Regulators, Consumers, R&D, Academia, Government Departments, Manufacturers, Contractors, Distributors etc.
- ❑ Development follow Standardization Principles as per ISO/IEC directives and Practises through Technical Committees which are mirror committees to ISO, IEC, ARSO, EAC and SADCSTAN
- ❑ The process is a Stakeholders driven



## 3.0 Standards Development Process...

- ❑ Standard is published and declared by the Minister responsible for trade as Mandatory or Compulsory after passing all the Stages for Standards Development
- ❑ **Compulsory Standards**
  - ❖ Obligatory requirements or essential characteristics that are needed to ensure the usefulness of a product
  - ❖ Those incorporated in regulations
- ❑ **Voluntary Standards**
  - ❖ Optional or recommendatory requirements -help to improve the serviceability of a product and informative requirements
  - ❖ Do not have the force of law, they serve as guidelines
- ❑ Declaration is through National Gazette
- ❑ Standards are reviewed after every 5 years



## 4.0 Adoption of Lighting Global Standard

- ❑ Control the Quality of Pico-PV Products in the Market
- ❑ The International Standard IEC/TS 62257-9-5:2016 was adopted as TZS 1951-9-5:2016 *“Recommendations for small renewable energy and hybrid systems for rural electrification – Part 9-5: integrated system – Selections of stand-alone lighting kits for rural electrification”*
- ❑ Read in conjunction with TZS 1952:2016 *“Off-grid solar photovoltaic lighting kits – Requirements”*
- ❑ Public notified through Daily News & Habari Leo of 7<sup>th</sup> April 2017 Notice to be Gazetted as Compulsory Standards
- ❑ Manufacturers and Exporters of Pico-PV must comply to the Standards



## 5.0 TBS Pico-PV Testing Laboratory

- ❑ IFC–World Bank in cooperation with TBS established the capacity testing of pico-PV products according to the test methods in TZS 1951-9-5/IEC 62257-9-5.
- ❑ The Quality of Pico - PV products to be placed in Tanzania market can be verified and Regulated through TBS.
- ❑ High Tech. Equipment and Highly Trained Personnel.
- ❑ Next Step: Market surveillance and raid exercise
  - ❖ Police
  - ❖ TBS
  - ❖ TAREA
- ❑ Stakeholders of PV Technology encouraged to use the facility



## 6.0 Quality control systems

Governed by the Standards Act No. 2 of 2009 with applicable Regulations

- ❑ Standards (Certification) Regulations.
- ❑ Standards (Batch Certification) regulation for products to be imported to Tanzania
- ❑ Standards (Tested product) Regulations
- ❑ These regulations are instruments used to verify the conformity and impose penalties to defaulters



## 6.0 Quality control systems.....

### Standards (batch) Regulation

- ❑ Regulates all matters relating to import of goods.
- ❑ Importers are required to import goods conforming to the relevant approved Standards.
- ❑ Prohibits importation and placing to the market goods not conforming to Standards.



## 6.0 Quality control systems.....

Batch certification Regulation;

- ❑ Insists Pre-shipment Verification of Conformity to Standards (PVoC) and issuance of certificate of conformity (CoC) for imported products
- ❑ Prohibits importation of goods not conforming to the Standards
- ❑ Practiced by contracted agents operating worldwide





## 6.0 Quality control systems.....

- ❑ The Standards Act prohibits the commodity which falls under compulsory standards to be placed to the market after being inspected and tested and found to comply with the relevant Standards
- ❑ Such products are required to undergo inspection and certification process as per product certification scheme and regulations



## 6.0 Quality control systems....

### Standard (Certification) Regulations

- ❑ Regulates the use of Standards Marks and grant of licence to certified products conforming to relevant Standards
- ❑ Prohibits any person to use a Standards Mark to any commodity or process unless the licence is granted in accordance with the applicable regulation



## 6.0 Quality control systems.....

### Standards (Tested products) Regulation

- ❑ Applies use relevant foreign standards for certification where there is no Tanzania Standard
- ❑ Provision for use relevant other national, regional, or company Standards
- ❑ The applicable standards be reviewed and approved by technical committees as interim to develop national Standard



## 6.0 Quality control systems....

### Pre- implementation seminar

- ❑ Applicable to compulsory Standards
- ❑ Carried out to relevant stakeholders before implementation starts
- ❑ Creates awareness for compliance
- ❑ Provides smoothness in implementation to those who have not been involved in the development process
- ❑ A grace period may be granted for compliance preparations before enforcement commences



# Quality control...

## Penalties to Non compliance

- Impose penalties or imprisonment or both
- The compounding of the offence



## 7.0 Concluding remarks

- ❑ We commend the remarkable efforts being made by Development Partners and other stakeholders of PV Technology to ensure that Tanzania market has Quality Products.
- ❑ Awareness programs to users of PV Products regarding their quality is emphasized.
- ❑ Importers of PV products to get in touch with TBS for consultation as far as Quality is concerned.
- ❑ Participation in Standards Development by Stakeholders is of high importance.



**Thank you for your attention!**