

EELA WEBINAR SERIES

“Upscaling Uptake of EE Appliances and Equipment through MEPS and Labels Implementation”

*Lessons Learnt from South Africa (NRCS)
on MEPS and Labels Program including PRS*

Presented by:

Lancerlot Riyano, Technical Specialist: Lancerlot.Riyano@nrcs.org.za

Millicent Masisi, Principal Inspector: Millicent.Masisi@nrcs.org.za

Date: 15 July 2025

Location: Virtual

Presentation Outline

1. Overview of MEPS program
2. Appliance Labeling
3. Lessons Learnt

1. Overview of South African Standards and Labeling Program

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RSA EE Policy Context

Policy Framework

Constitution

E.g. Bill of rights - “conductive environment”, Chapter 2, Section 24

ACTS

- National Energy Act
- NRCS Act
- EMA

TECHNICAL REGULATIONS

- VC 9006: Water heaters
- VC 9008: white goods
- VC 9109 : GSLs
- VC 9113: electric motors

OTHER POLICY PRESCRIPTS

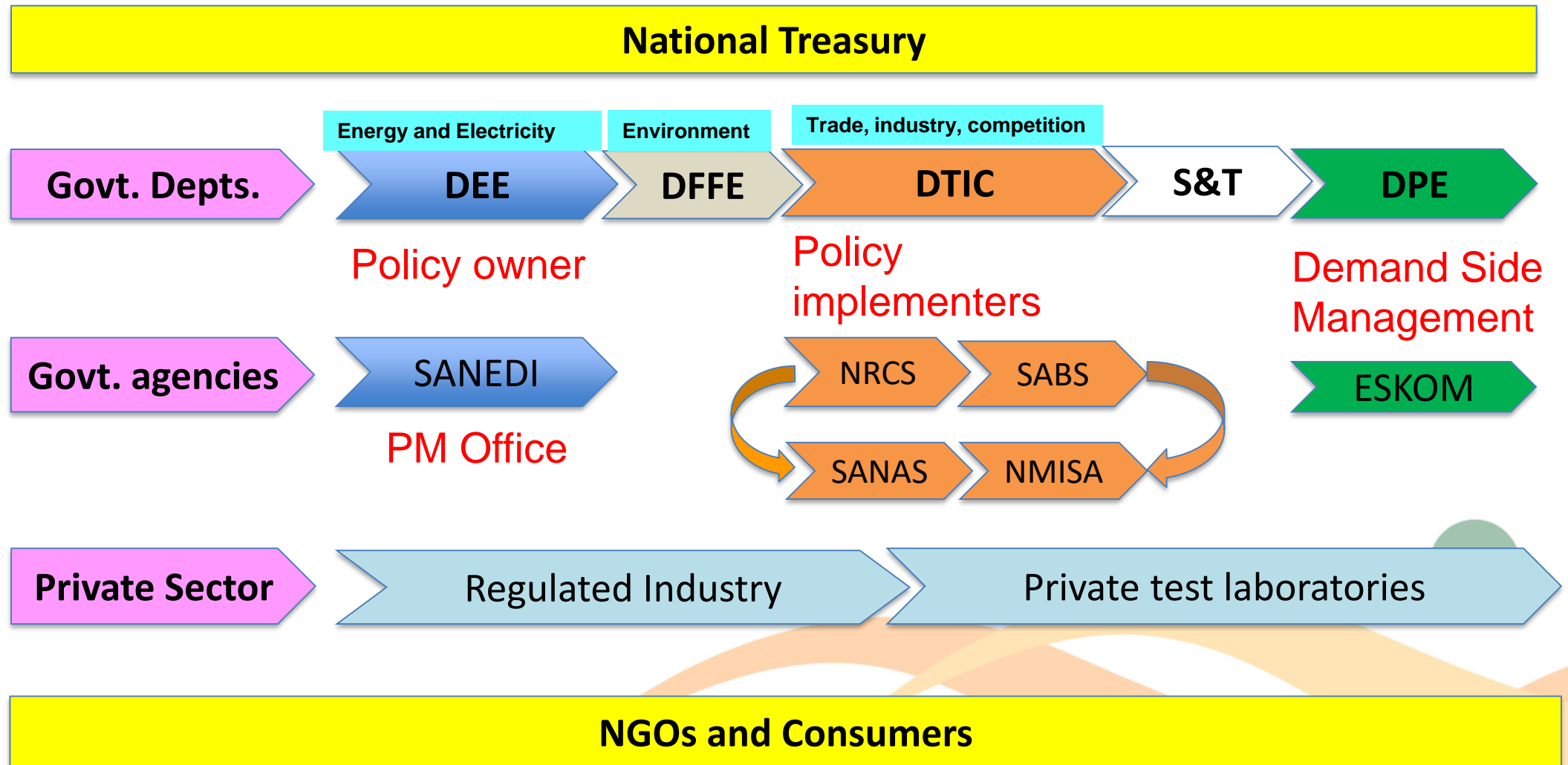
- National EE Strategy
- DMRE Label Guide
- Framework Agreement

INTERNATIONAL CONVENTIONS AND PROTOCOLS

- UN Millennium Development Goals and Sustainable Development Agenda
- United Nations Framework Convention on Climate Change (UNFCCC)
- Super Efficient Appliance Labeling Development (SEAD)

S&L Program stakeholder map

Concurrent mandates and interests from different stakeholders



NRCS Regulatory scope

BU Mission

Enforce VCs in electrical and electronic technology areas

REGULATORY MANDATE

- NRCS Act 5 of 2008
- Legal Metrology Act
- Delegated by OGAs

~600 products within scope

SAFETY

HEALTH

ENVIRONMENT

FAIR TRADE

16 VCs

Safety of products

- Household Appliances
- Power Tools
- Transportable Power Tools
- IT and Business Equipment
- Audio and Visual Equipment
- Lighting Equipment
- Handheld Power Tools
- Electrical /Electronic Products,.

4 VCs

16 products

Energy Efficiency

VC 9008- appliances
VC 9006 - geysers
VC 9109 – GSLs
VC 9113 – Electric motors

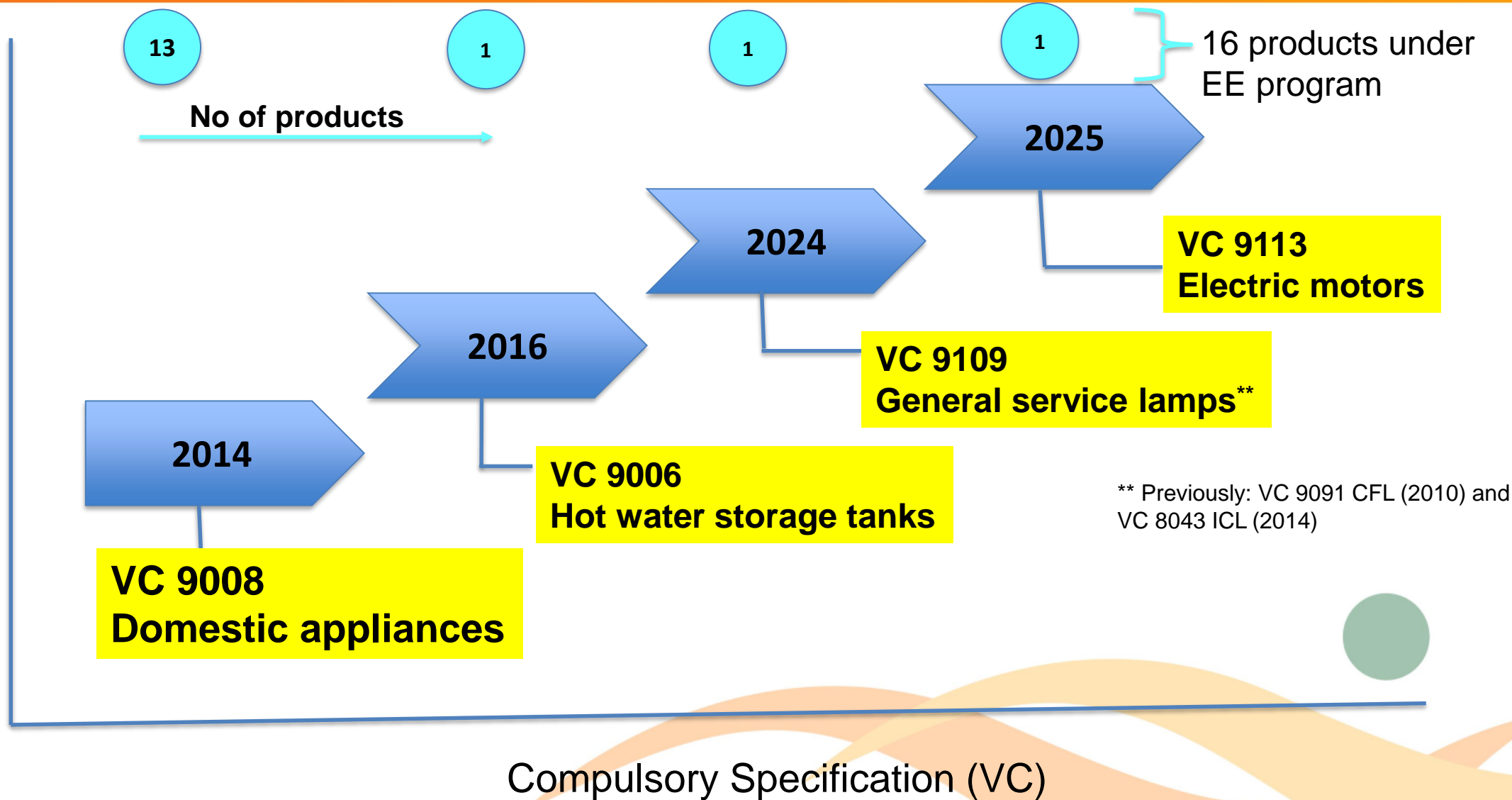
WIP VCs

- Street lighting

**Electrotech
Business
Unit**

- 21 market surveillance inspectors
- 13 Approvals inspectors

Timeline of current mandatory MEPS in South Africa

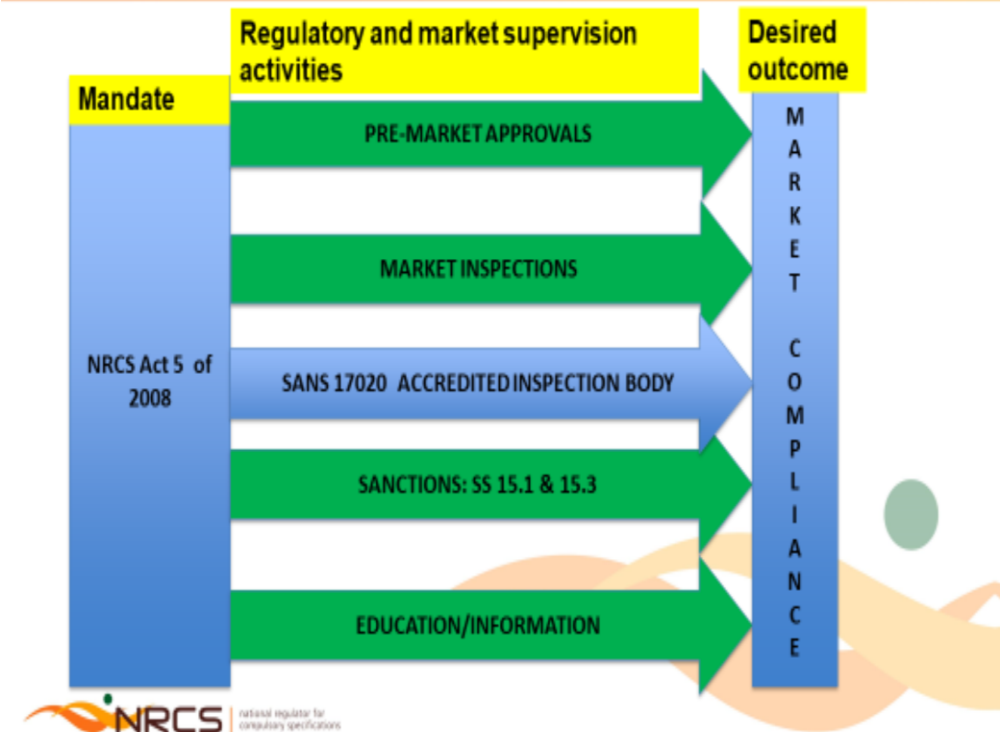


NRCS regulatory approach

Quality infrastructure lattice

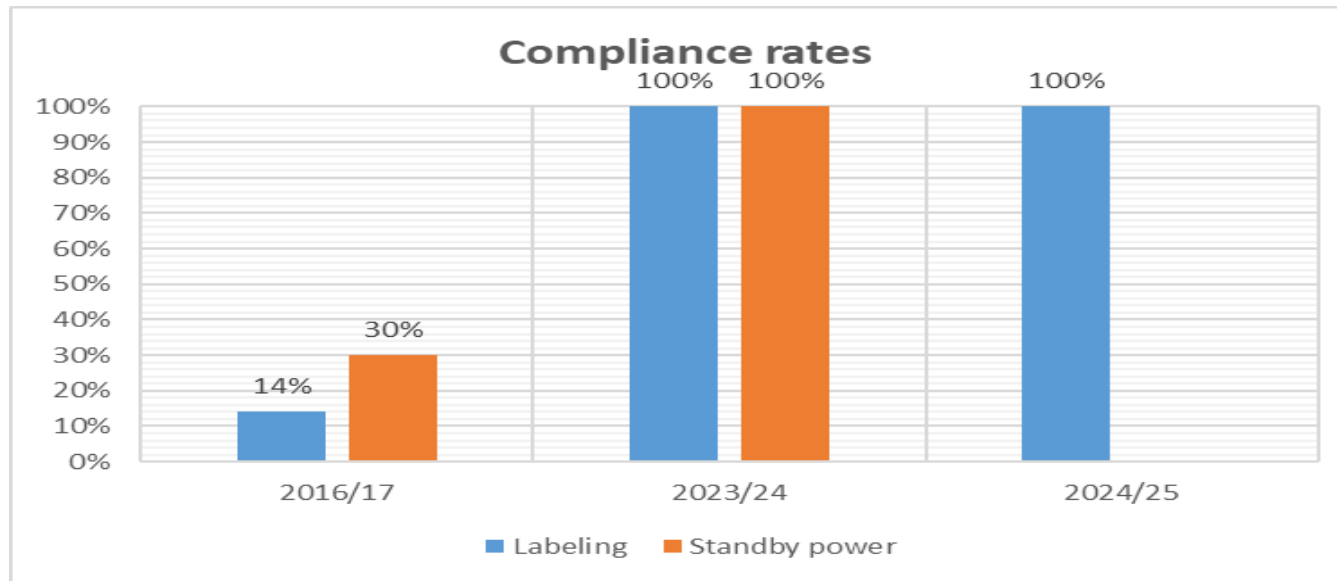


Overview of regulatory approach



- System of interrelated mandates with reciprocal and pooled interdependencies.
- NRCS occupies the regulatory function in the QI lattice, operationalizing EE Policy by implementing and administering energy efficiency technical regulations.
- QI institutions report to the same government department(ministry)

Some experiences from the field



- Millions of ICL/CFLs destroyed since inception
- Inspectors still find some ICLs on the market
- Testing constraints for some products e.g. air conditioners and laundry Equipment
- Target to conduct 800 annual inspections on energy efficiency regulations
- Conduct 2 major blitz operations on energy efficiency products annually

2. Energy Efficiency Appliance Registration Database

Millicent Masisi, Principal Inspector: Millicent.Masisi@nrccs.org.za

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EE Appliance Registration Online Database Overview

Energy Efficiency (EE) Appliance Registration Database is an online system for submitting Letter of Authority (LOA) applications.

- The **EE Appliance Registration Online Database** was launched on the 1st of April 2021.
- Pilot testing phase:
 - Conducted with internal and external stakeholders to validate the **system functionality**
 - Dummy applications were submitted and evaluated to **simulate real use**
 - Feedback received was used to **refine the system** for broad implementation.

EE Appliance Registration Online Database System Functional Portals

Operational

Not yet developed

Applicant Portal

Applicant submit
LOA
applications

01

Regulator Portal

Evaluation of LOA
applications and
reporting

02

Public Portal

The public can
view which
products have EE
LOAs and view
MEPS

03

EE Appliance Registration Online Database Structure and Input Fields

Illustration of the EE Appliance Registration Online Database Structure and Input Fields: Applicant and Regulator Portals

LOGIN

REGISTER AN ACCOUNT

Please enter your Email Address and Password to login to the Energy Efficiency Product Database.

Email Address *


Enter your Email Address.

Password *

Enter the password that accompanies your username.

LOGIN

Forgot Password?



Manage Products

MANAGE EE PRODUCTS

Record ID: ZAF-R-00# | Product Type: Refrigerators/Freezers | Standard: SANS 941:2014 | Test Standard: SANS 62552:2008 ED. 1 AND IEC CORR. 1, NAT. AMDTS 1, 2

Please note: All fields marked with a (*) are mandatory! Legend: ■ = Success ■ = Error (Please correct data entry) ■ = Warning (Values are outside of expected range)

Regulatory Details *

+

Applicant Details

+

Product Identification *

+

Product Specification *

+

Test Details *

+

Test Results *

+

Performance Claims *

+

File Uploads *

+

Fees and Declaration *

+

Comments

+

EE Appliance Registration Online Database Structure and Input Fields

Illustration of the EE Appliance Registration Online Database Structure and Input Fields: Regulator Portal: Reports

LOGIN

REGISTER AN ACCOUNT

Please enter your Email Address and Password to login to the Energy Efficiency Product Database.

Email Address *

Enter your Email Address.

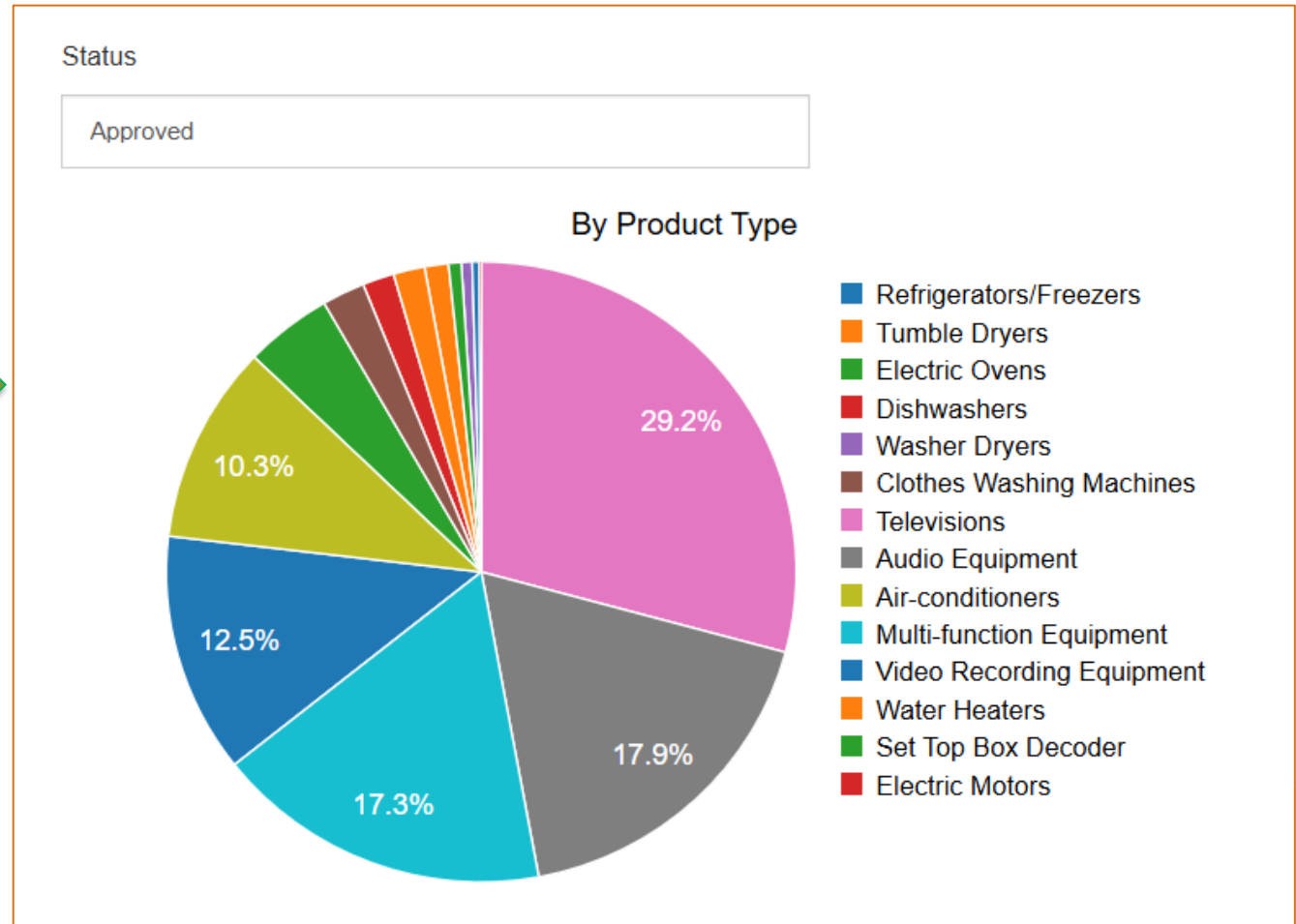
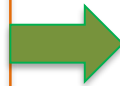
Password *

Enter the password that accompanies your username.

LOGIN

Forgot Password?

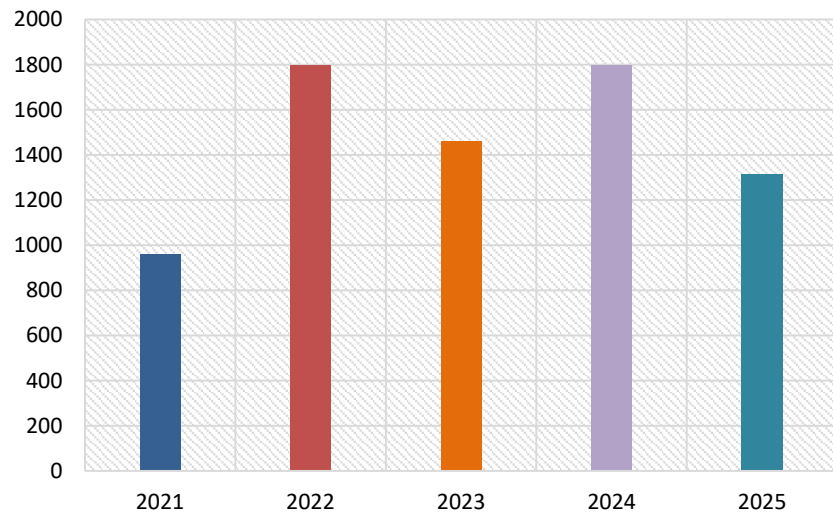
EE REPORTS ▾



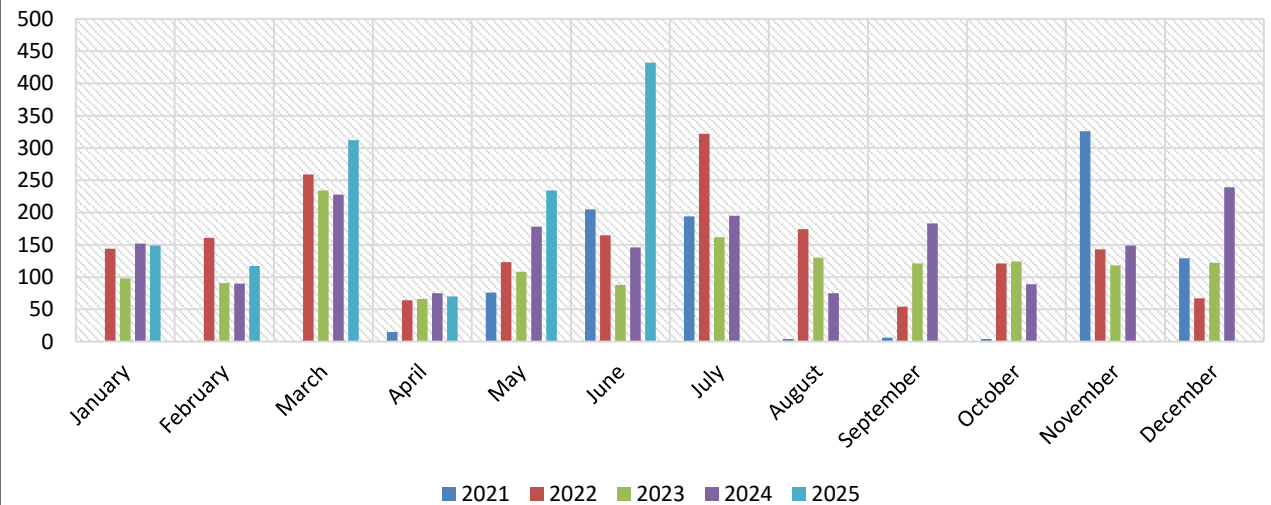
EE Appliance Registration Online Database Statistics

01 April 2021 – 30 June 2025: **7331** applications received.

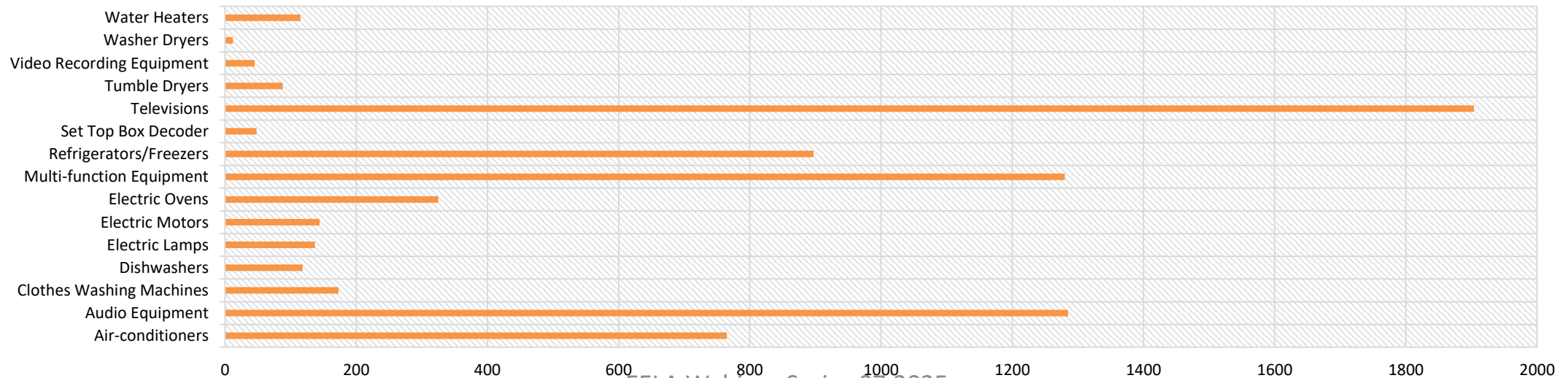
Applications Received



Applications Received



Total Applications per Product Category



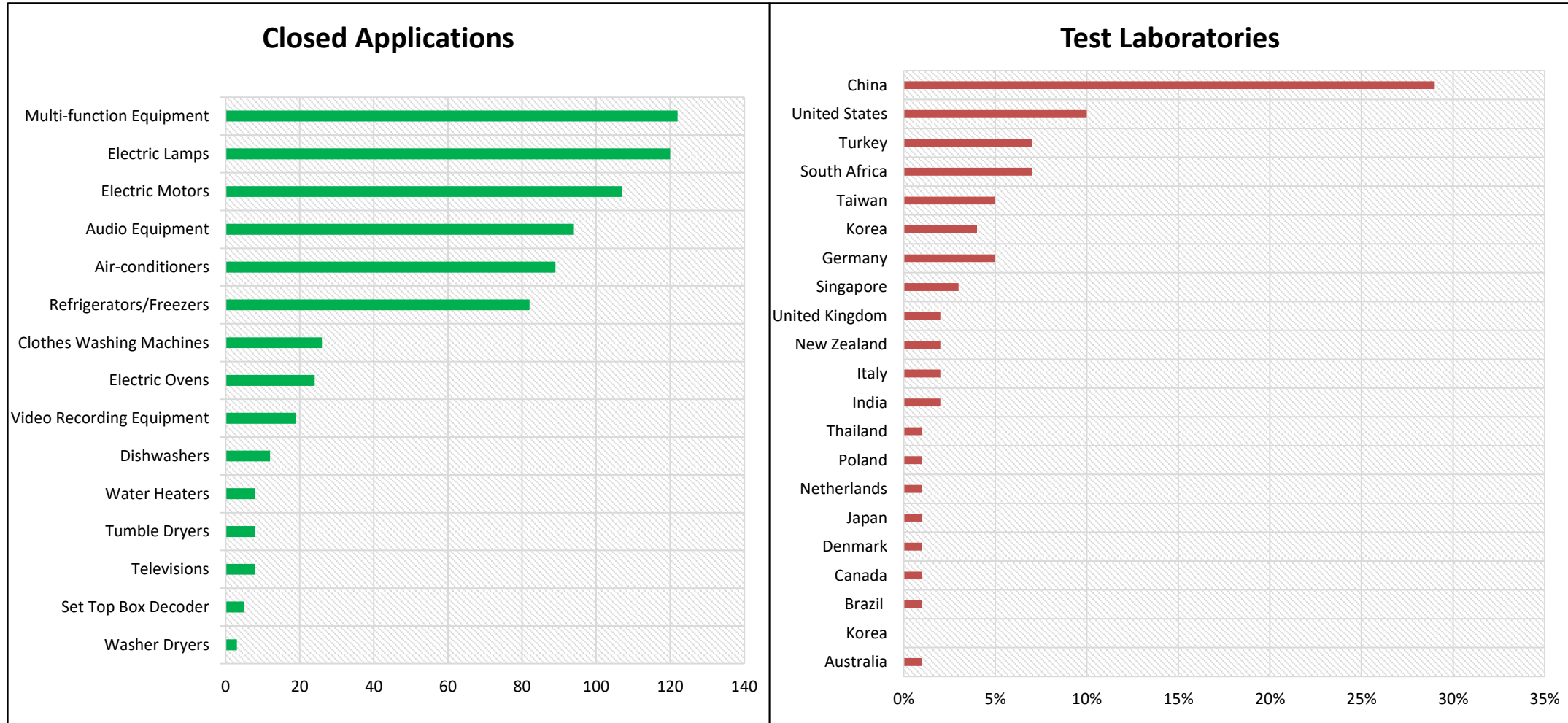
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EE Appliance Registration Online Database Statistics

Using the system as a strategic regulatory tool:

- Closed applications = targeted inspections
- Test laboratories = need for national testing capacity



EE Appliance Registration Online Database Statistics

Advantages

- Faster application processing and LOA issuance
- Real-time tracking of application status
- Reduced human error through online submissions
- Faster turnaround time
- Easily accessible
- Reporting

Challenges

- Applicants unfamiliar with standards terminology
- Submissions with errors or misinterpretation of requirements
- System updates to reflect new regulatory scopes – EE Label MEPS
- Applications submitted with incomplete or invalid documents causing delays in processing the applications
- Clients requiring ongoing support to keep up with the system

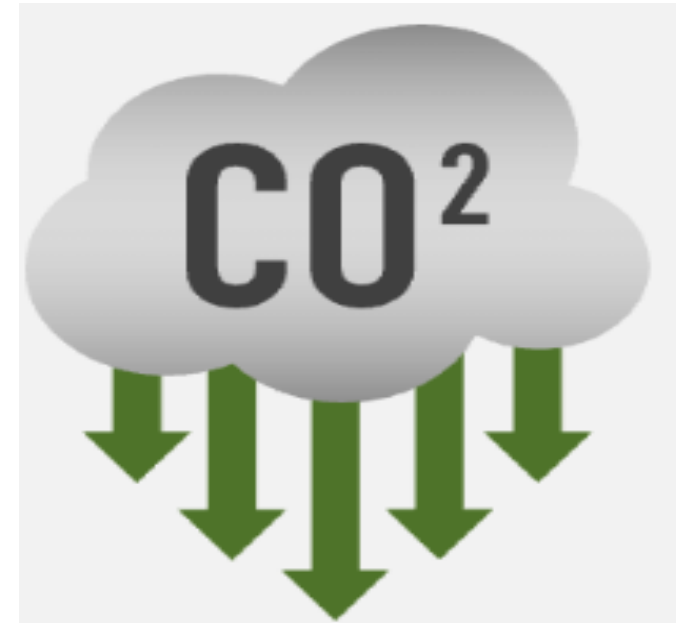
3. LESSONS LEARNT

General lessons/challenges

1. **Concurrent and overlapping mandates** and interests require continuous coordination between the different agencies and interest groups
2. **Pressure groups**, e.g. from regulatees themselves, is necessary to keep the regulatory system operational and effective
3. **Communication** of results is important to keep stakeholders aware that the system is working
4. It is important to keep abreast of **global best practice**
5. **Industry readiness** should not be taken for granted, at the 11th hour industry may spring a surprise, and claim they are not ready for new policy implementation.
6. The problem of **repeat offenders**
7. **Understanding the industry** before implementing regulations
8. **Agile regulatory** model may be required for different products
9. The proliferation of **AI** systems require regulatory response

EE Appliance Registration Online Database

- 1 Stakeholder involvement in the development process
- 2 Training and support
- 3 Use the system as strategic regulatory tool
- 4 Communication for smooth transition
- 5 Incorporate cost savings
- 6 Incorporate a carbon emission calculator
- 7 Need for public portal



Thank you