Energy Efficiency Compliant Products 2014

EEPLIANT 2014

June 2017

25 YEARS
PROSAFE
Joint Actions
Best Practice

EEPLIANT

The Project is funded
by the European Union

Innovationsdrivande process

Ekodesignkrav sållar bort
de sämsta produkterna.

Energimärkning sätter
betyg på tillåtna produkter.

Spjutspetsprodukter.

Antal
produkter

Energieffektivitet

ENERG
энергия · ενεργεια
IA
I   II
A+++
A++
A+
A
B
C
D

A++

280
kWh/annum

ENERGIA · ЕНЕРГИЯ
ЕНЕРГЕIA · ENERGIJA
ENERGY · ENERGIE · ENERGI

155 L   54 L   38 dB

2010/1060

Energimyndigheten

PRINTERS

LED

HEATERS

KNOWLEDGE BASE
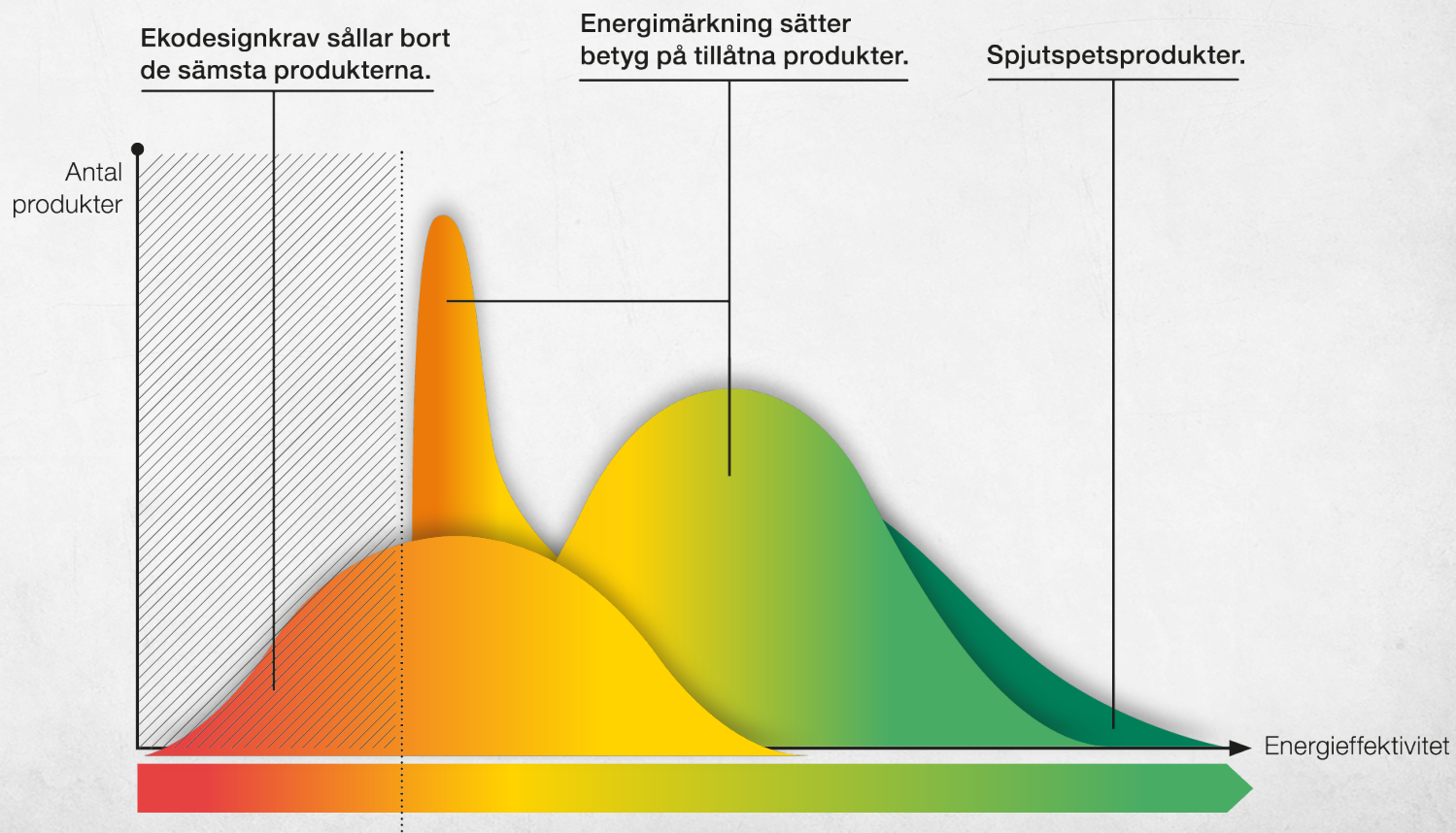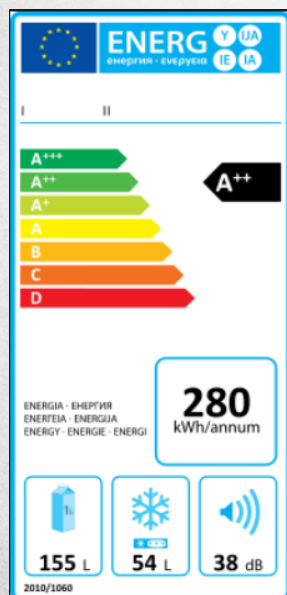
Overall Objectives

- Help deliver the intended economic and environment benefits of the Energy Labelling and Ecodesign Directives by increasing the rates of compliance with them

- Improve the harmonisation of enforcement actions between MSAs in different Member States

Members of EEPLIANT 2014

12 member states from Belgium, Austria, Bulgaria, Denmark, Germany, Lithuania, Malta, Netherlands, Poland, Slovenia, United Kingdom and Sweden.
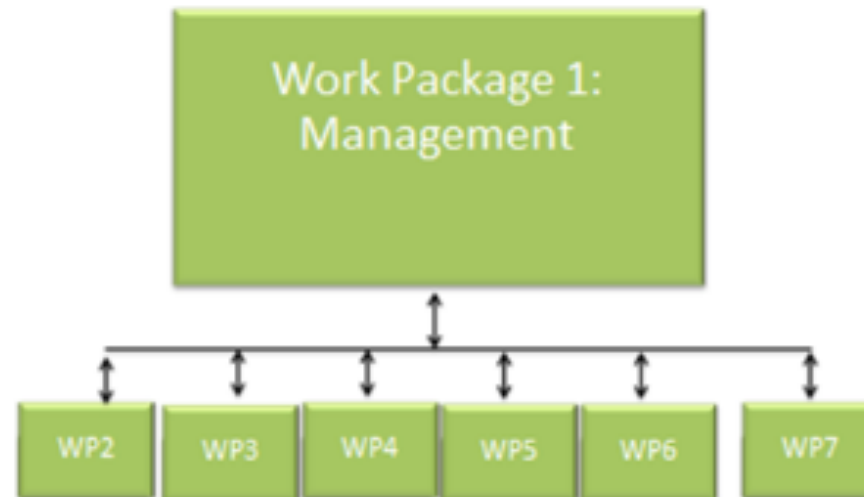
Market Surveillance Cooperation:

- Document Inspection Templates
- Standard Letters
- Best practice Guidelines
- Common FAQ's
- Processes
- Compliance Grading Guide
- Common Screening Methodology

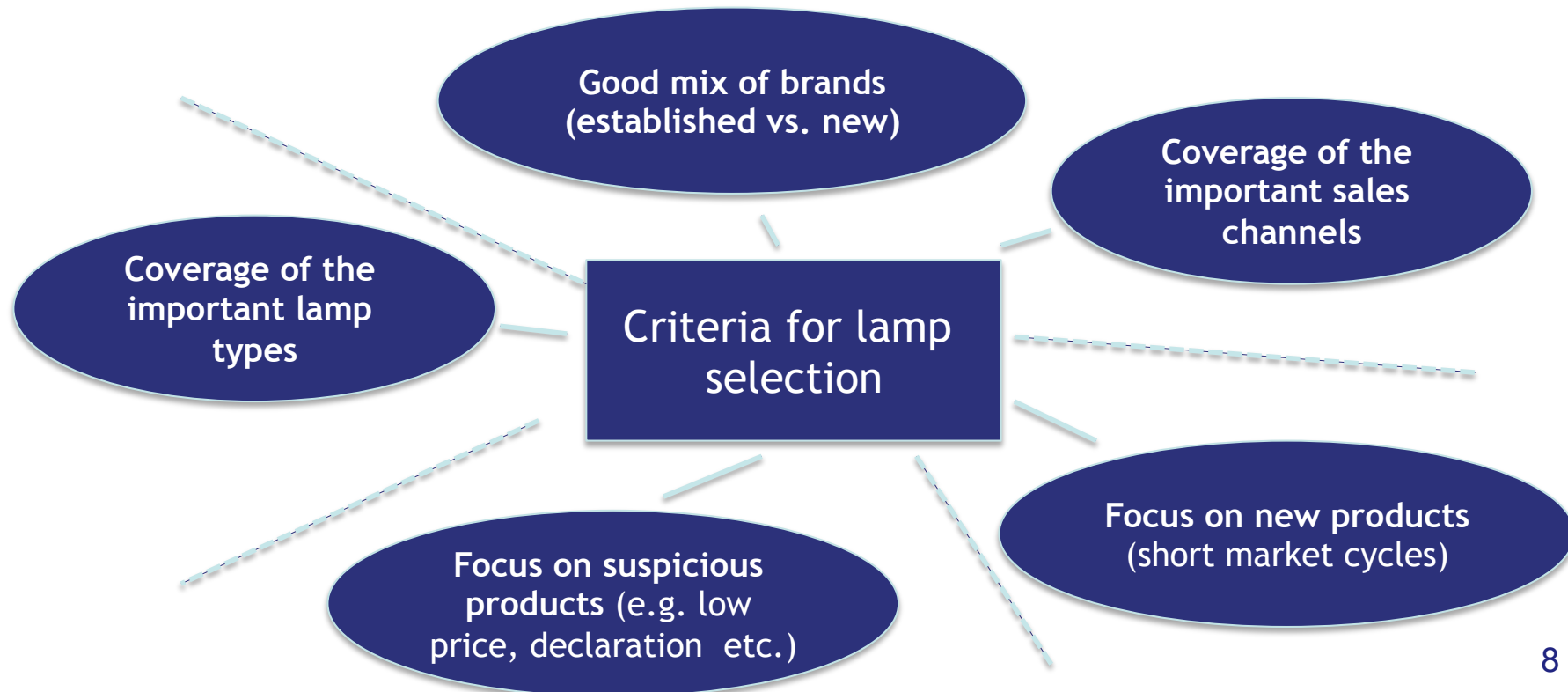# 1) LED surveillance:

- **Non directional lamps**

- **Directional lamps**

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LED selection & verification procedures

➢ **Targeted respectively „risk based" approach** for efficient detection of non-compliant products (Focus on suspicious lamps including screening based on a simplified testing methods)

Criteria for lamp selection

- **Good mix of brands (established vs. new)**
- **Coverage of the important sales channels**
- **Coverage of the important lamp types**
- **Focus on new products** (short market cycles)
- **Focus on suspicious products** (e.g. low price, declaration etc.)

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LED test results

Non-compliance:

- **Luminous flux**: 59%
- **Electric power**: 19%
- **Energy efficiency index**: 20%
- **Colour temperature**: 13%
- **Colour rendering**: 5%

➤ Both positive and negative deviations
(e.g. luminous flux up to -60% and +25%)
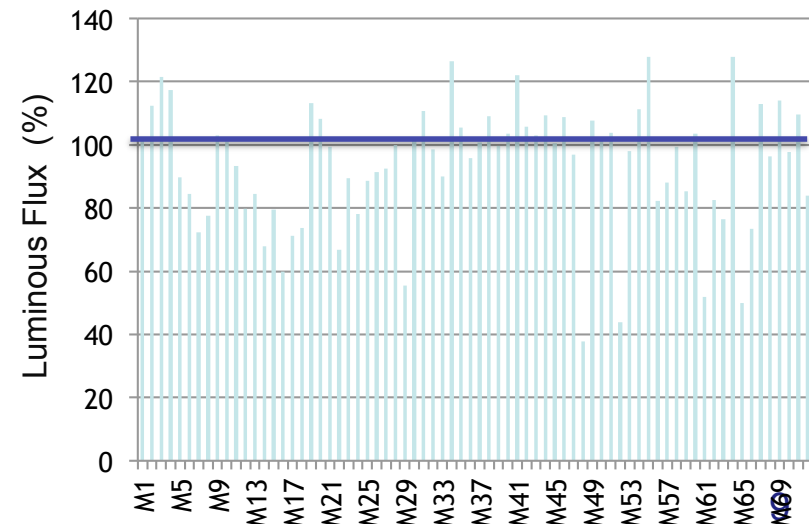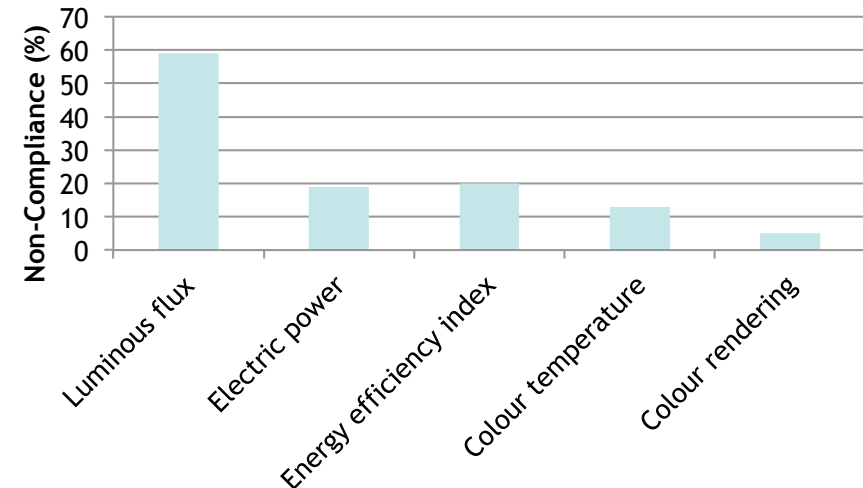
2) Imaging equipment surveillance

- Voluntary agreement

- Product selection from Energy Star Product List.

- At least 40 models of printers are being verified and tested by the EEPLIANT project. As the imaging equipment product category is covered by a voluntary agreement, results are also being shared within the respective industry association representatives and members

- Documentation requests issued.

- VA process imperfect fit with standard MSA approach

- All compliant, but problems to get the documentation

3) Heaters

Scope:

- Combination heaters (space heating + hot water)
- Capacity < 70 kW (Energy Label Directive)
- Capacity < 400 kW (Ecodesign Directive)

Inspections and tests :

- Electric heaters for space heating < 70 kW: Tech. doc.
- (Small) Gas boilers < 70 kW: Tech. doc. + lab test
- Big gas boilers up to 400 kW: Tech. doc. + in-situ test
- Heat pumps < 70 kW: Tech. doc. + lab test

Test results: gas boilers

Efficiency:
- 9 OK (within tolerances)
- 1 non-compliant

Sound power level:
- 3 non-compliances

Nox:
- 4 non-compliances

Total:
- Only 4 of 10 boilers comply

Measured- Declared values. Efficiencies
- Seasonal space heating energy efficiency (%)
- Water heating energy efficiency (%),

Measured- Declared values. Sound power
- Sound power level (dB)

Measured- Declared values. NOx
- NOx emission (mg/kWh)

Summary of Results (1/2)

- Technical documentation
  - Many non-compliances (errors, missing information, missing documents, impossible to find data, etc.)
- Gas boilers < 70 kW
  - Complies to efficiency requirements (declared value equals measured value within tolerance +/- 8%)
  - Some problems in declared values for noise or NOX
- Heat pumps < 70 kW
  - Minor issues with seasonal space heating efficiency
  - Some problems with noise and water heating efficiency
  - WP6 will examine feasibility of quicker and cheaper screening test method

Summary of Results (2/2)

- Big boilers, 70 – 400 kW
  - Tested boiler complied with efficiency requirements
  - Test method seems to work
- Packages
  - General awarenes low
- WP6 has made several observations on the legislation and the authorities' possibility to enforce it. They will be conveyed to the ADCO group and the Commission

Thank you

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