

# Market surveillance in Denmark

Ecodesign and energy labelling in practice – experiences, challenges, regulation and impact Aarhus, Denmark November 2016

> Sekretariatet for Ecodesign og Energimærkning af Produkter

Energistyrelsen



#### Market surveillance in Denmark



Secretariat established by the Danish Energy Agency to handle tasks regarding administration and co-ordination of market surveillance activities



#### Main tasks for the secretariat

- conducting market surveillance of energy related products regulated by energy labelling and/or ecodesign
- 2. inspecting energy labelling in shops, both physical shops and web shops
- 3. inspecting energy labelling information in sales material, i.e. advertisements
- 4. handling enquiries in general from producers, importers, retailers, consumers and other interested parties





#### **Responsibility of Manufacturer**

Ecodesign	Energy labelling
directive	directive
(2009/125/EC)	(2010/30/EC)
Regulations i.e.	Regulations i.e.
(EU) 813/2013	(EU) 811/2013
(EU) 814/2013	(EU) 812/2013
(EU) 1253/2014	(EU) 1254/2014





# **Energy labelling regulations**

- a general introduction
- Article 1 subject matter and scope
- Article 2 definitions
- Article 3 responsibility of suppliers (and timetable)
- Article 4 responsibilities of dealers
- Article 5 measurement and calculation methods
- Article 6 verification procedure for market surveillance purposes





# **Ecodesign regulations**

- a general introduction
- Article 1 subject matter and scope
- Article 2 definitions
- Article 3 Ecodesign requirements and timetable
- Article 4 Conformity assessment
- Article 5 verification procedure
- Annexes all the demands are outlined in here





#### **Responsibility of Manufacturer**

Ecodesign	Energy labelling
directive	directive
<ul> <li>Assess the product conformity</li></ul>	<ul> <li>Supply the energy label(s) and a</li></ul>
with requirements <li>Prepare CE-declaration of</li>	product fiche
<ul> <li>conformity</li> <li>Affix the CE-mark</li> <li>Elaborate technical documentation</li> </ul>	Elaborate technical documentation





## **Responsibility of Manufacturer**

General overall demands

- documentation has to be elaborated before the first model is placed on the market
- documentation shall be made available within 10 days of receipt of a request from authorities
- the manufacturer shall keep documentation relating to the conformity assessment available for authorities for a period of 10 years after the last of that product has been manufactured





#### Market surveillance

Overall annual plan by the Danish Energy Agency

- Types of inspection
- Product categories and focus areas
- Campaigns



#### **Documentary checks consists of ..**

Control of documentation					
Energy	Common for Energy	Ecodesign			
labelling	labelling and Ecodesign	Regulations			
Inspection of	Inspection of	Inspection of	Inspection of		
data sheets	technical	CE declarations	product		
	documentation		information		
Advertises			requirements		
			Website, user		
			manual, rating plate,		



#### Focus at ecodesign market surveillance

#### Conformity assessment







# **CE declaration of conformity**

#### Article 5 of the Ecodesign directive (EU) 125/2009:

# 3. The EC declaration of conformity shall contain the elements specified in Annex VI and shall refer to the appropriate **implementing measure**

Annex VI states:

The EC declaration of conformity must contain the following elements:

- 1. the name and address of the manufacturer or of its authorised representative;
- 2. a description of the model sufficient for its unambiguous identification;
- 3. where appropriate, the references of the harmonised standards applied;
- 4. where appropriate, the other technical standards and specification used;
- 5. where appropriate, the reference to other Community legislation providing for the affixing of the CE mark that is applied; and
- 6. the identification and signature of the person empowered to bind the manufacturer or its authorised representative.



#### Ecodesign directive 2009/125/EC

Annex IV Internal design control (referred to in Article 8(2))

- 2. A technical documentation file *making possible an assessment of the conformity of the product with the requirements* of the applicable implementing measure must be compiled by the manufacturer.
- The documentation must contain, in particular:
- (a) a general description of the product and of its intended use;
- (g) the results of measurements on the ecodesign requirements carried out, including details of the conformity of these measurements as compared with the ecodesign requirements set out in the applicable implementing measure.

#### Energy labelling: directive 2010/30/EC

#### Article 5 Responsibilities of suppliers

• (iii) test reports, where available, including those carried out by relevant notified organisations as defined under other Union legislation





All the declared/supplied data about the product must be substantiated by the manufacturer

Minimum demands from ecodesign – and other required product information







Energy label information verification

- Energy class
- Sound power level
- Consumption of resources

Values stated in product fiche, advertisements, webshops ...





#### -ecodesign requirements

#### As described in Regulation 813/2013 (annex II)

5. REQUIREMENTS FOR PRODUCT INFORMATION

From 26 September 2015 the following product information on heaters shall be provided:

(a) the instruction manuals for installers and end-users, and free access websites of manufacturers, their authorised representatives and importers shall contain the following elements:

#### - And continues

- (b) the technical documentation for the purposes of conformity assessment pursuant to Article 4 shall contain the following elements:
  - the elements specified in point (a);





- ecodesign requirements

Verifying the requirements:

Seasonal space heating/useful efficiency Sound power level Water heating efficiency, if applicable Emission of  $NO_x$ , if applicable

Table 7           Technical parameters for boiler space heaters, boiler combination heaters and cogeneration space heaters
Model(s): (information identifying the model(s) to which the information relates)
Condensing boiler: [yes/no]
Low-temperature (**) boiler: [yes/no]
B11 boiler: [yes/no]
Cogeneration space heater: [yes/no]
Combination heater: (yes/no) If yes, equipped with a supplementary heater: (yes/no)
Item Symbol Value Unit Item
Rated heat output         Prated         x         kW         Seasonal space heating energy efficiency $\eta_z$ x         %
For boiler space heaters and boiler combination heaters: Useful heat output Useful heat output
At rated heat output and high-temperature regime (*) $P_4$ $x.x$ $kW$ At rated heat output and high-temperature regime (*) $\eta_4$ $x.x$ $\kappa$ At 30 % of rated heat output and low-temperature regime (*) $P_1$ $x.x$ $kW$ At 30 % of rated heat output and low-temperature regime (*) $\eta_4$ $x.x$ $\kappa$ For cogeneration space heaters: Useful heat output cogeneration space heater with supplementary heater $P_{CHP100}$ $x.x$ $kW$ At rated heat output of cogeneration space heater * $siq0$ For cogeneration space heater * $siq0$ $x.x$ $kW$ At rated heat output of cogeneration space heater with supplementary heater enabled $P_{CHP100}$ $x.x$ $kW$ At rated heat output of cogeneration space heater * $siq0$ $x.x$ $\kappa$
For cogeneration space heaters: Electrical efficiency     Supplementary heater       At rated heat output of cogeneration space heater disabled     Name       At rated heat output of disabled     Name
full load elmax x,x kW Standby here loce

enab

At full



#### The issue of tolerances

- When authorities perform market surveillance by testing a product a defined tolerance must be granted on the result
- However, when a producer declares values for a product, they are not allowed use any addition to actual measured values
- Transversal regulations for clarification on the purpose of tolerances have been issued





# **Selection of products**

- reasonable doubt
- performance history
- market share
- low price segment
- Danish importers of products with origin outside EU
- widespread inspection on newly regulated product categories





# **Document inspection**

- the procedure

Requesting documentation

Guidance and evaluation / possibly a reminder

Results of inspection

Case ending/possibly transferral to the DEA





# **Verification testing**

#### Physical testing of product in laboratory:

- Fulfilment of minimum requirements (or maximum) from ecodesign
- Deviation from declared values on energy label and product fiche
  - 2. The model shall be considered to comply with the applicable requirements if:
    - (a) for heaters, packages of space heater, temperature control and solar device, and packages of combination heater, temperature control and solar device, the seasonal space heating energy efficiency  $\eta_s$  is not more than 8 % lower than the declared value at the rated heat output of the unit;
    - (b) for combination heaters and packages of combination heater, temperature control and solar device, the water heating energy efficiency  $\eta_{wh}$  is not more than 8 % lower than the declared value at the rated heat output of the unit;
    - (c) for heaters, the sound power level  $L_{WA}$  is not more than 2 dB higher than the declared value of the unit;
    - (d)... (e)... (f)...

Regulation (EU) 811/2013, annex VIII





# **Verification testing**

The settings of the appliance to be tested are to be specified by the manufacturer

Will be requested directly from the laboratory





# **Costs for inspection?**

Danish law states that manufacturers shall make a specimen available to the DEA for verification testing

Further, the cost for the case handling and laboratory testing falls to the manufacturer, if the test result shows non-compliance If a manufacturer cannot supply sufficient documentation for the product, the cost also falls to the manufacturer



# Guidance of manufacturers and importers are prioritised in Danish market surveillance

- written guidelines
- customised tutorial sessions
- focus on reaching SMEs



Closer contact to MSA results in higher awareness at manufacturers

 and the overall aim is a fair market with energy efficient products





# Establishing compliance

#### Methods and calculation

#### Supplementary to the regulations

Commission communication in the framework of the implementation of Commission Regulation (EU) No 813/2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for space heaters and combination heaters and of Commission Delegated Regulation (EU) No 811/2013 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to the energy labelling of space heaters, combination heaters, packages of space heater, temperature control and solar device and packages of combination heater, temperature control and solar device

(2014/C 207/02)





# **Establishing documentation**

#### Methods and calculation

Supplementary to the regulations also







# **Questions?**

Please do not hesitate to contact the secretariat if you have questions relating to ecodesign and/or energy labelling



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