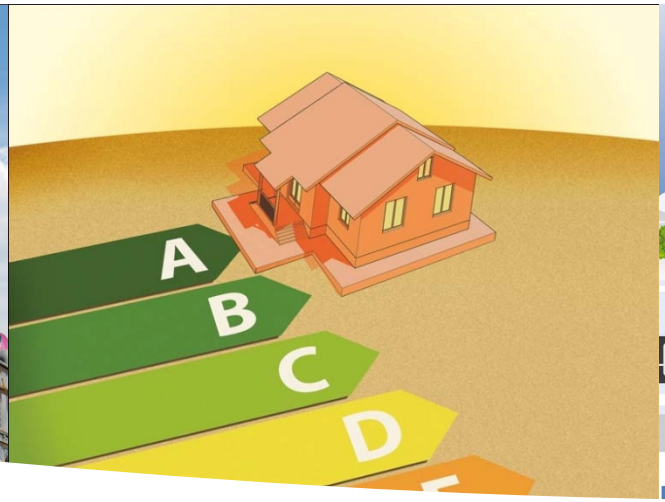

Possible Ecodesign & Labelling Requirements for General Lighting products

under the Directive on the Ecodesign of Energy-Related Products (2009/125/EC)

Nineteenth meeting of the Ecodesign Consultation Forum
Brussels, 5 July 2011

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Structure of the meeting

I. Setting the context

II. Detailed discussion of the draft Regulations

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Legislative framework for the energy efficiency of general lighting lamps

	Non-directional lamps		Directional lamps	
	Ecodesign	**Energy Labelling**	**Ecodesign**	**Energy Labelling**
Situation today (with technologies covered)	***244/2009*** (all except: FL_{ni}, HID, non-household) ***245/2009*** (FL_{ni}, HID with street lighting caps)	***98/11/EC*** (FL_{ni}, mains voltage lamps >4W) *update planned 2012*	*Planned 2012*	*Planned 2012*
Missing now	Non-household HL, CFL_i & LED; HID with non-street lighting caps	HID, low voltage non-FL_{ni}, LED < 4W	All	All
Missing after 2012	Non-household HL, CFL_i & LED; HID with non-street lighting caps	—	—	—

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Functionality requirements were not set for non-directional LEDs in Regulation 244/2009. The upcoming ecodesign regulation will contain functionality requirements also for non-directional LEDs.

Legislative framework for the energy efficiency of lighting products other than lamps

Lamp control gear

- **Fluorescent and HID lamp ballasts** are covered in 245/2009
- **Halogen lighting converters** are planned to be covered now
- **LED control gear** are an unassessed technology, probably premature for coverage by efficiency requirements

Luminaires

Off-mode electrical efficiency requirements are set for luminaires for fluorescent and HID lamps in Regulation 245/2009 (based on ballast efficiency).

No further product requirements are proposed, because:

- for professional luminaires, further improvements are determined by lighting system design
- for household luminaires, aesthetic function too important and product range too diverse for ecodesign requirements. But energy label will ensure user information on compatibility with energy efficient lamps.

Planned steps in the adoption procedure

Ecodesign regulation (ED), Energy Labelling regulation (EL)

- Consultation Forum (EL/ED)
- Interservice consultation (3 weeks, EL/ED)
- WTO notification (60 days, EL/ED)
- Commission adoption (EL only) / Regulatory committee (ED only)
- post-Lisbon right of objection of EP and Council (2 or 4 months, EL only)
- pre-Lisbon right of scrutiny of EP and Council (3 months, ED only)
- Commission adoption (ED only)
- Entry into force (EL/ED)

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Based on the adoption procedure on air-conditioners.
Several weeks or months can pass between two steps.

Technical Working Group meeting

- Open issues in the working documents (e.g. definitions, class limits, limits for minimum energy performance and lamp functionality)
- Today's meeting: opinion on matters of principle that should guide the Commission in establishing the technical details
- Technical sub-group of the Consultation Forum to discuss technical details in September
- Interested Forum members can delegate experts to the sub-group (invitation will be circulated)

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II. Detailed discussion of the draft Regulations

1. Any questions on the presentation so far? (not on scope)
2. Scope of the two regulations (incl. exemptions)
3. Definitions in the two regulations

<u>Energy Labelling</u>

4. Where and how to set label class limits?
5. Lamp label design
6. Luminaire labelling
7. Other questions

<u>Ecodesign</u>

8. Ambition and timing of lamp efficiency requirements
9. Product information req. lamps
10. Retrofit LED lamps
11. Halogen converters
12. Verification procedure
13. Lamp functionality requirements
14. Other questions

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Kind reminders for the discussion to be efficient

On upcoming slides, the following symbols indicate:

Recommended question type for the Forum (on principles)

Details better discussed in the Technical Sub-group

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2. Scope of the two regulations
(incl. exemptions)

« Exemptions based on technical parameters and on application should be distinguished»

« The limits of coloured light should be exactly… »

« How about PAR73 lamps used in baldachin hospital beds?»

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3. Definitions in the two Regulations

« The definitions in the Regulations should relate to standards in such a way… »

« 'External lamp control gear' should mean… »

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Lamp Energy Labelling Regulation

4. How to calculate the label classes? Where to set the label class limits?

« The class limits should correspond to lamp technologies, taking account… »

« The D class limit of 1.75 should be lowered to 1.62 »

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Lamp Energy Labelling Regulation

5. Lamp label design

« There should be no difference between the short and the long version of the label »

« The kWh/year parameter should be in a larger font»

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Lamp Energy Labelling Regulation

6. Luminaire labelling

« The principle of the luminaire label would be difficult to understand in case… »

« The arrow pointing to the lamp's class should be white on black, not black on white »

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Lamp Energy Labelling Regulation

7. Other questions

Question on principles

Details better discussed in Technical Sub-group

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Ecodesign Regulation

8. Ambition and timing of lamp efficiency requirements

« In Stage 3, the minimum level should be set at the level of technology X for all other lamps »

« PAR73 baldachin hospital bed lamps need a temporary exemption until… »

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Ecodesign Regulation

9. Product information requirements
(including on equivalence claims with halogens)

« The idea of including some product information on the lamps themselves is… »

« The light output requirement for MR16 LED retrofit lamps should be raised by 80 lumens… »

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Ecodesign Regulation

10. Requirements on retrofit LED lamps
(retrofits to linear fluorescent lamps and possibily to other professional lighting technology)

« The principle of expecting the same service from an LED retrofit as from the lamp it replaces is… »

« In verifying equivalence, the limit for spill light should be set at 11%, not 10% »

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Ecodesign Regulation

11. Efficiency requirements for halogen converters

« The efficiency requirements should / should not phase out magnetic converters… »

« The requirement phasing out magnetic converters should be set at 87.5%, not 92.5% »

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Ecodesign Regulation

12. Verification procedure

« Verification tolerances should distinguish between products and parameters measured »

« The tolerance threshold for halogen converters should be 9%, not 10% »

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Ecodesign Regulation

13. Lamp functionality requirements

« Minimum functionality requirements should relate to the best in class in a way that… »

« The premature failure allowance for reflector CFLi should be increased by 0.5% »

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Ecodesign

14. Other questions

Question on principles

Details better discussed in Technical Sub-group

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Immediate next steps

1. Additional comments as a follow-up to the Forum: by 12 July
2. Commission services send questions to the Forum on technical details: by 19 July
3. Technical details from Forum members: by 15 September
4. Technical Sub-group meeting to discuss technical details: on 23 September
5. Updated position papers from Forum members: by 30 September

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Thank you for your attention!!!

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http://ec.europa.eu/dgs/energy/index_en.htm

http://www.e-lumen.eu/