



Lighting products

Ecodesign and energy labelling regulations

*Orsola Mautone, Sylvain Robert
Unit Energy Efficiency
DG ENERGY
European Commission*

Current acts on Lighting

ECODESIGN

- Commission Regulation (EC) No 244/2009
 - non-directional household lamps
- Commission Regulation (EC) No 245/2009
 - products normally used as street lighting and office lighting
- Commission Regulation (EU) No 1194/2012
 - directional lamps, LEDs and related equipment

ENERGY LABELLING

- Commission Regulation (EU) No 874/2012

Ecodesign - Why the review?

1.

Commission Regulation (EC) No 244/2009 – art. 7

Commission Regulation (EU) No 245/2009 – art. 7

Commission Regulation (EU) No 1194/2012 – art. 8

= To reflect technological progress

2.

Ecodesign Working Plan 2016-2019

lighting products as one of the major savings opportunities

Energy label – why the review?

New Energy Labelling Framework Regulation (EU) 2017/1369, entered into force 01/08/2017:

➔ Rescaling of the energy labels from an **A to G scale**

For lighting products:

➔ Energy labelling regulation introducing A to G rescaled labels should be adopted **by 2 November 2018**

MAIN DRIVERS FOR BOTH REVIEWS

Technology development

Simplification, including for market surveillance authorities

Updating tests and verification tolerances

Restrict loopholes with a redefinition of the scope



The Commission presented the results of the review at the Ecodesign Consultation Forum on 7/12/2017

ECODESIGN

THE PROPOSAL

SCOPE

Placing on the market of LIGHT SOURCES and SEPARATE CONTROL GEARS

For LIGHT SOURCES:

A continuation from the current regulations, but with a better definition of the scope, so that some ambiguities are resolved and less exemptions are needed.

To exempt products: clear, verifiable definitions needed to avoid loopholes and facilitate market surveillance

→ specific exemptions are listed (including related to health and safety)

New elements: stand-by power, new testing procedures and flickering

For CONTROL GEARS:

Same requirements as in existing Regulations and something new for LEDs

→ however, no phase-out expected

SCOPE

The requirements also apply to light sources and separate control gear placed on the market in a **containing product**

*Containing products **are not** in scope, but the contained light sources and control gears are.*

Introduction of regulatory requirements on **removability**



Circular economy

LIGHT SOURCES

➔ **Proposal:** not allowed as of September 2020:

Linear Fluorescents T8 2-,4-,5-foot length

Halogen Low Voltage Directional lamps
(MR11-GU4, MR16-GU5.3, AR111-G53)

Halogen Low Voltage capsules (G4 and GY6.35)

Halogen Mains Voltage capsules (G9)

Halogen linear R7s > 2700 lm

Compact Fluorescent Linear integrated



*Reminder: what is phased-out by existing regulations
remains phased-out under proposed regulation*

ENERGY LABEL

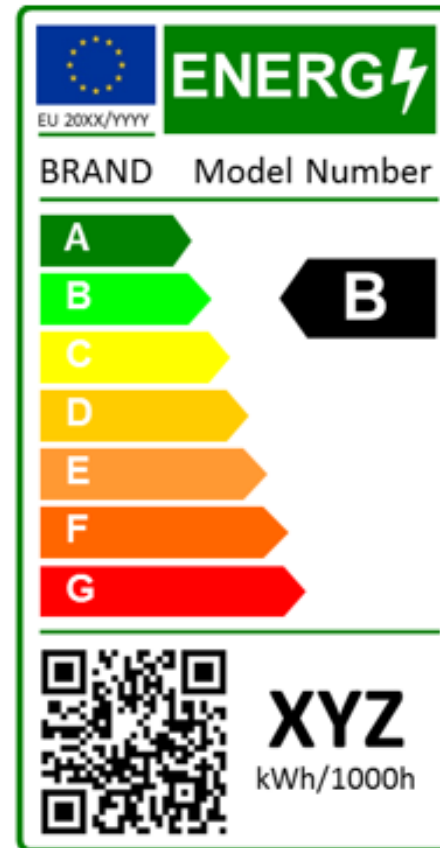
THE PROPOSAL

Proposal: from September 2020
(in any case: together with the new
ecodesign)

Use A-G scale (instead of A⁺⁺-E)

The new scale will allow to
distinguish between future LEDs
(rather than between LED and conventional)

*These layouts are proposals. The
Commission is running a consumers
testing study to define the layout*



Packaging



Packaging (facing buyer)
& internet

→ scale 85 - 210 lm/W, equal steps of 25 lm/W

Built in a way that:

- Classes A and B empty at September 2020
- Majority of models falls into class A at least 10 years later

Energy efficiency class	Total mains efficacy η_{TM} (lm /W)
A	$\eta_{TM} \geq 210$
B	$185 \leq \eta_{TM} < 210$
C	$160 \leq \eta_{TM} < 185$
D	$135 \leq \eta_{TM} < 160$
E	$110 \leq \eta_{TM} < 135$
F	$85 \leq \eta_{TM} < 110$
G	$\eta_{TM} < 85$

Applies to the same light sources in scope of the ecodesign proposal (**not** to *separate control gears*)

But: **less exemptions**

- *E.g. lamp in oven: only information requirements in ecodesign but subject to energy label*
- *E.g. light sources with a beam angle $< 10^\circ$: exempted from ecodesign but subject to energy label*

Applies the same principle of containing product than in ecodesign, **but** no label to be provided/exposed (only info on the class)

No label on luminaires any longer

Thank you for your attention



Referent policy officer:

Orsola Mautone

Email: orsola.mautone@ec.europa.eu

Website: https://ec.europa.eu/energy/efficiency/index_en.htm