Lighting products

Ecodesign and energy labelling regulations

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Current acts on Lighting

**ECODESIGN**

- Commission Regulation (EC) No 244/2009
  - non-directional household lamps

  - 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?

   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:

<table>
<thead>
<tr>
<th>Light Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linear Fluorescents T8 2-,4-,5-foot length</td>
</tr>
<tr>
<td>Halogen Low Voltage Directional lamps (MR11-GU4, MR16-GU5.3, AR111-G53)</td>
</tr>
<tr>
<td>Halogen Low Voltage capsules (G4 and GY6.35)</td>
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<tr>
<td>Halogen Mains Voltage capsules (G9)</td>
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<tr>
<td>Halogen linear R7s &gt; 2700 lm</td>
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<tr>
<td>Compact Fluorescent Linear integrated</td>
</tr>
</tbody>
</table>

*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
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

<table>
<thead>
<tr>
<th>Energy efficiency class</th>
<th>Total mains efficacy $\eta_{TM} (\text{lm} / \text{W})$</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>$\eta_{TM} \geq 210$</td>
</tr>
<tr>
<td>B</td>
<td>$185 \leq \eta_{TM} &lt; 210$</td>
</tr>
<tr>
<td>C</td>
<td>$160 \leq \eta_{TM} &lt; 185$</td>
</tr>
<tr>
<td>D</td>
<td>$135 \leq \eta_{TM} &lt; 160$</td>
</tr>
<tr>
<td>E</td>
<td>$110 \leq \eta_{TM} &lt; 135$</td>
</tr>
<tr>
<td>F</td>
<td>$85 \leq \eta_{TM} &lt; 110$</td>
</tr>
<tr>
<td>G</td>
<td>$\eta_{TM} &lt; 85$</td>
</tr>
</tbody>
</table>
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°: 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

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