

**Eco design implementing measures  
enacted within the framework of  
Directive 2005/32/EC**

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## Directive 2005/32/EC

- Entered into force on 11 Aug 2007;
- All implementing measures enacted under it should be read together with it;
- Hence all implementing measures carry with them the requirements of CE marking / declaration of conformity;
- It is a placing on the market / putting into service legislation.

## Each implementing measures

- Scope;
- Energy efficiency measures;
- Verification Standards;
- Verification Procedure based on testing;
- Benchmarks.

## Regulation 1275/2008/EC

*Ecodesign requirements for standby and off mode electric power consumption of elect & elect household and office equipment;*

- First implementing measure – horizontal one;
- Applies in two stages:
  - Stage 1 from 7 Jan 2010
  - Stage 2 from 7 Jan 2013
- Sets energy efficiency limits for standby mode and off mode consumption.

## Regulation 1275/2008/EC - Scope

- Household appliances: - Washing machines, Clothes dryers; Dish washing machines, Electric ovens, Electric hot plates; Microwave ovens; Toasters; Fryers; Grinders, coffee machines and equipment for opening or sealing containers or packages, Electric knives, Other appliances for cooking and other processing of food, cleaning, and maintenance of clothes  
Appliances for hair cutting, hair drying, tooth brushing, shaving, massage and other body care appliances,  
Scales

## Regulation 1275/2008/EC - Scope

- ICT equipment intended primarily for use in the domestic environment.
- Consumer equipment: - Radio sets, (TV's), VCR, Hi-fi recorders, Audio amplifiers, Home theatre systems, Musical instruments, And other equipment for the purpose of recording or reproducing sound or images, including signals or other technologies for the distribution of sound and image other than by telecommunications.

## Regulation 1275/2008/EC - Scope

- Toys, leisure and sports equipment, Electric trains or car racing sets, Hand-held video game consoles, Sports equipment with electric or electronic components , Other toys, leisure and sport equipment.
- Subject to amendments by more specific implementing measures eg on set top boxes.

## Regulation 107/2009/EC on the eco-design of simple-top boxes

- Simple set top access (not conditional access);
- Applies in two stages:
  - Stage 1 from 24 Feb 2010
  - Stage 2 from 24 Feb 2012
- Sets energy efficiency limits for standby mode and active mode consumption.
- The standby mode limits prevail over those set by Reg 1275/2008/EC

## Regulation 244/2009 on eco-design requirements for non-directional household lamps

- Applies to:
  - Incandescent, halogen, CFLi; & LED lamps that emit light all around.
- Does not apply to:
  - Coloured lamps;
  - Special purpose lamps;
  - Directional lamps;
  - HID
  - fluorescent lamps without an integral ballast;
  - Incandescent lamps rated Volt < 60V.

## Regulation 244/2009 on eco-design requirements for non-directional household lamps

- Sets minimum efficacy limits for all the lamps;
- Sets lamp survival, maintenance factor, no. of switching cycles before failure, starting time, lamp warm up time , UV emissions and power factor limits for all lamps apart from LED lamps;
- Sets colour rendering limits for CFLi's.

# Regulation 244/2009 on eco-design requirements for non-directional household lamps

- Sets labelling requirements for all lamps. This includes equivalent incandescent lamp power.
- Note – this is different from the energy labelling legislation .

Energy		
More efficient		
	A	
	B	
	C	
	D	
	E	
	F	
	G	
Less efficient		
1200	Lumen	
6000	hours	

## Regulation 244/2009 on eco-design requirements for non-directional household lamps

Applies in 5 stages:

- Stage 1 from Sept 2009  
*Ban all non-clear lamps (except CFLs) + incandescent > 75W (classes D to E) & all incandescent lamps (classes F and G)*
- Stage 2 from Sept 2010  
*Ban incandescent > 60W (classes D to E)*
- Stage 3 from Sept 2011  
*Ban all incandescent  $\geq$  60W (classes D to E)*

# Regulation 244/2009 on eco-design requirements for non-directional household lamps

Applies in 5 stages:

- Stage 4 from Sept 2012  
*Ban all incandescent (classes D to E)  
(lamps of ene. classes A to C allowed)*
- Stage 5 from Sept 2013  
*Second level of performance requirements*
- Stage 6 from Sept 2016  
*Special capped halogen lamps (G9 & R7) – at least class C. All others class B.*

## Regulation 245/2009 on eco design of external power supplies

*Awaiting publication in the OJEU;*

- External power supplies (eg. mobile/notebook type);
- Applies in two stages:
  - Stage 1 from Mid 2010
  - Stage 2 from Mid 2011
- Sets energy efficiency limits for no load and average active efficiency.
- Ext pwr supplies with  $V_{out} < 6V$  or  $I_{out} < 550mA$  are exempt from Reg 1275/2008/EC.

# Regulation 245/2009 on eco design of fluorescent lamps w/o integral ballast, HID lamps, (inc ballasts & luminaires)

*Awaiting publication in the OJEU;*

- Applies to:
  - single capped and double capped fluorescent lamps ;
  - LPS, HPS, MV, MH.
- Does not apply to:
  - Coloured lamps;
  - Special purpose lamps;
  - ATEX & Medical Devices lamps.

# Regulation 245/2009 on eco design of fluorescent lamps w/o integral ballast, HID lamps, (inc ballasts & luminaires)

Applies in three stages:

- Stage 1 from 13 April 2010
  - Stage 2 from 13 April 2012
  - Stage 3 from 13 April 2017
- Sets efficacy , lamp maintenance & survival factor, limits on all lamps + energy efficiency limits on their ballasts.
  - Sets colour rendering limits on fluorescent lamps
  - Applies to complete luminaires.
  - Provides for labelling requirements inc Hg content.

## **Regulation 245/2009 on eco design of fluorescent lamps w/o integral ballast, HID lamps, (inc ballasts & luminaires)**

Expected out come:

- Phasing out of T10 & T12 lamps + MV lamps;
- Phasing out of magnetic ballasts for florescent lamps.

## Regulation XXXX on eco design of motors

*Waiting to be published in the OJEU;*

- Applies 3Φ S1 induction motors (0.75Kw – 375Kw).
- Does not apply to:
  - motors designed to operate wholly immersed in a liquid;
  - motors completely integrated into a product;
  - Special purpose motors (eg ATEX or high amb. Temp.)
- There are 3 stages:
  - Stage 1 from 16 June 2011 (IE2 + info)
  - Stage 2 from 1 Jan 2015 (IE3 for >7.5KW, or IE2 VSD)
  - Stage 3 from 1 Jan 2017 (IE3 for all or IE2 VSD)

## Regulation XXXX on eco design of TV's

*To be subject to a vote at the end of March;*

- Applies TV's with and w/o integral tuner.
- There are 3 stages:
  - Stage 1 from 7 Jan 2010 (standby/off mode)
  - Stage 2 from mid 2010
  - Stage 3 from 1 April 2012
- Sets standby/off mode, energy efficiency limits, + automatic power-down and home mode setting.
- More specific regulation regarding standby.

## Regulation XXXX on eco design of household refrigerators

*To be subject to a vote at the end of March;*

- Applies also to wine storage devices.
- There are 5 stages:
  - Stage 1 from 1 July 2010 ([info](#))
  - Stage 2 from 1 July 2012
  - Stage 3 from 1 July 2013 ([functional](#))
  - Stage 4 from 1 July 2014
  - Stage 5 from 1 July 2015
- Sets energy efficiency limits on standard programme.

## Regulation XXXX on eco design of Household Dish Washers

*To be subject to a vote at the end of March;*

- Applies in three stages:
  - Stage 1 from 1 July 2010
  - Stage 2 from 1 July 2011([information](#))
  - Stage 3 from 1 July 2013
- Sets energy efficiency limits on standard programme.
- The user must be told which is the most efficient programme & the water/elect consumption of all the programmes.

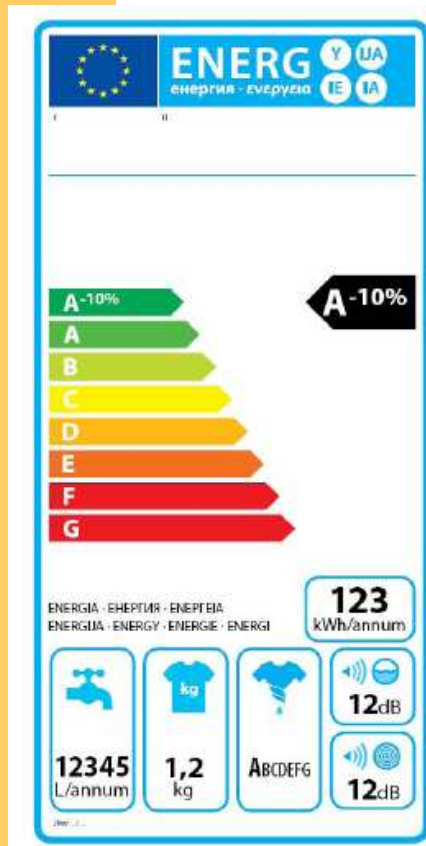
## Regulation XXXX on eco design of Household Washing machines

*To be subject to a vote at the end of March;*

Applies in three stages:

- Stage 1 from 1 July 2010
  - Stage 2 from 1 July 2011 (*information*)
  - Stage 3 from 1 July 2013
- Sets energy efficiency limits on standard programme (60°/40° cycles).
  - Also sets minimum performance parameters as regards wash whiteness and water consumption.
  - The user must be told which is the most efficient programme & the water/elect consumption of all the programmes.

# Directives XXXX on energy labelling of WM, DW, TV's



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Thank you

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