

Energy Efficient Lighting Industry Position

The Lighting Industry Strategy & Fully supported by GE

EU-wide product standards for lamps under the lighting specific implementing measures (EUP)

National measures to encourage renovation of existing lighting installations

EU-wide lighting installation design criteria under new legislation

EU Commission backed agreements to promote efficient lighting with retailers

A key legislative measure - EuP

*The EU will intervene on the **demand side** by making efficient use of energy wherever possible*

The Eco-Design of Energy Using Products Directive (EuP) sets **EU-wide minimum energy performance standards** - including specific standards for lamps, ballasts & luminaires.

“The scope for energy savings lies mainly in the following equipment sectors”

- Heating and water heating equipment
- Electric motor systems
- **Lighting in the both the domestic & tertiary sectors**

EUP Legislation

Tertiary sector - Street lighting



Street lighting

The regulation is based on an agreed efficacy level and will be implemented through legislation

Stage 1 -

Stage 2 - Phase Out "Standard" High Pressure Sodium lamps according to defined limits from 2012

- Phase Out Low performance Metal Halide lamps 2012

- Phase Out High Pressure Mercury and Mercury retrofit HPS from 2015

Stage 3 - Phase Out Low performance (all QMH) metal halide lamps according to defined limits from 2017

Long term : Only High output HPS and CMH will be sellable in Europe

EUP Legislation

Tertiary sector - Street lighting

Exemptions

- directional light sources
- not white light sources (except HPS)
- lamps intended for use in other applications than general lighting
- UV sources
- HID lamps not having E27, E40 or PGZ12 bases

EUP Legislation

Tertiary sector - Office lighting



Stage 1 - Phase out T8 halophosphor + lamps with CRI < 80

Timing

From March 2010

Phase out method

Can't put on the market the banned products No sales for mfrers or importers after implementation date, but distributors can sell off their stock

Implications

Peak demand on T8 Halo before the implementation date

Demand shift to T8 Poly / T5 ... Strong price fight expected

Note T12s (even Halo) still can stay on the market until 2012

EUP Legislation

Tertiary sector - Office lighting



Stage 2 - Phase out T10 & T12

Timing

From 2012

Phase out method

Can't put on the market the banned products No sales for mfrers or importers after implementation date, but distributors can sell off their stock

Implications

T12 lamps need to meet the specified lumen / watt minimum requirements ... Most types (both Halo and Poly) will be phased out

Demand shift to T8 Poly / T5

EUP Legislation

Tertiary sector - Office lighting



Stage 3 - Phase out of CFL – not integral operated on conventional ballast ... 2 Pin Biax S, D, T and 2D

Timing

From 2017

Phase out method

Can't put on the market the banned products ... No sales for mfrers or importers after implementation date, but distributors can sell off their stock

Implications

Demand shift to 4 Pin CFL Plug In

EUP Legislation

Tertiary sector - Office lighting

Exemptions

- Lamps with 7mm diameter (T2) or less
- Short T5 ... $\leq 13W$
- High watt T5 ... $> 80W$
- Specialty Fluorescent lamps
 - Germicidal CFL / LFL
 - Blacklight Blue T8 / T12
 - Aquarium LFL
 - Fly & Insect control LFL / CFL
 - Cinema LFL / CFL
- Lamps intended for use in other applications than general lighting

EUP Legislation

Domestic lighting

Stage	Date	Clear Lamps		Frosted Lamps	
		Phase out	Replace	Phase out	Replace
1	01/09/09	100W	Class C 1000 Hours	All Frosted Lamps	Class A
		<100W	Class E		
2	01/09/10	75W	Class C		
3	01/09/11	60W	Class C		
4	01/09/12	<=40W	Class C		
5	01/09/13	Increase Quality	C Class 2000 Hour	Longer life, faster run up better lumen maint.	
	2014	Review			
6	01/09/16	All clear lamps	Class B		

EUP Legislation

Domestic lighting

Highlights

- Complete phase out of INC range within 4yrs
- Major changes from Sept 09
 - Clear lamps - C class above 75W and E class below 75W
 - Frosted/Opal - ALL WATTAGE to A class (CFL In reality)
- Certain ranges to disappear from Sept 2009:
 - Krypton, LongLife, Enrich, Daylight, ComputerL, Frosted/Opal
- Packaging changes for both lighting & none lighting product
 - Clear communication for special purpose types – Sept 09
 - Additional technical information to be added on pkg (switching cycle...) - Sept 10
 - Only 'A' energy class products can claim 'Energy Saving' non directional lamps – Sept 09
 - Specific lumen targets to claim Watt equivalency to INC products – Sept 09
- 2013 Specifications change for C Class Halogen (2000hrs life) & CFL – longer life, faster run up etc
- C class can stay until 2016 except G9/DEQ – no end date for these
- All DEQs to move to C class or exempted from Sept 09



EUP Legislation

Domestic lighting

Exemptions

- Directional lamps = Reflectors
- Lamps with lumen below 60lm or above 12000lm (750W+ DEQ)
- Lamps with voltage below 60V
- 'Non-white light' lamps (e.g. some of colored, insect lamps)
- UV lamps
- Lamps with S14, S15, S19 caps (Linestra, Striplight)
- HID and Fluorescent without integrated ballast
- Lamps not for household room illumination – need to be specially marked on the packaging
 - Fridge/Oven pygmy
 - Rough service, Low volt