

The ELCsⁱ proposal for domestic lighting

The ELCs domestic lighting proposal has a number of phases, starting with highest wattage lamps and gradually covering lower wattages.

For each phase, there would be minimum efficiency specifications based on an energy efficiency classification (see *table 1*), and on luminous efficacy or lumens per watt (see *table 2*). For each wattage category, manufacturers are calling for requirements to become more stringent over time. All lamps that do not carry the EU Energy Labelⁱⁱ are not in the scope of this proposal. Proposals to tackle reflector lamps, which make up the remaining 15% of the incandescent lamp market, are being also prepared.

To ensure continued quality and cost effectiveness for Europe's consumers, all lamps placed on the EU market should also have to have a minimum rated lifetime of 1000 hrs and comply with relevant IEC and CEN standards.

Table 1 - Energy Efficiency Class - proposal per phaseⁱⁱⁱ

Lamp Category	Phase 1 2009	Phase 2 2011	Phase 3 2013	Phase 4 2015	Phase 4 + 2017 ^{iv}
> 100W	ABCD EFG	ABC DEFG			
75W+		ABCD EFG	ABC DEFG		
60W+			ABCD EFG	ABC DEFG	
25W+				ABCD EFG	ABC DEFG

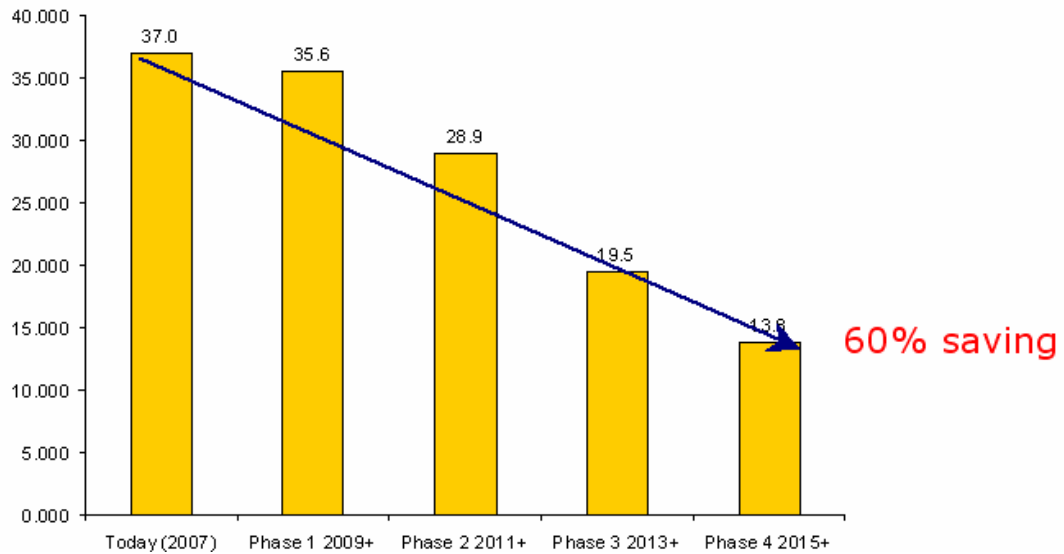
Table 2 - Typical Wattages and proposed Lm/W values per phase^v

Lamp Category	Phase 1 2009	Phase 2 2011	Phase 3 2013	Phase 4 2015	Phase 4 + 2017 ^{vi}
> 100W	18 lm/W	20 lm/W			
100W		14 lm/W	17 lm/W		
75W		14 lm/W	16 lm/W		
60W			13 lm/W	15 lm/W	
40W				11 lm/W	14 lm/W
25W				10 lm/W	12 lm/W

The Savings Potential

**Chart 1: CO2 saving potential through efficient lighting in the home
- 23 Mega tons CO₂^{vii} -**

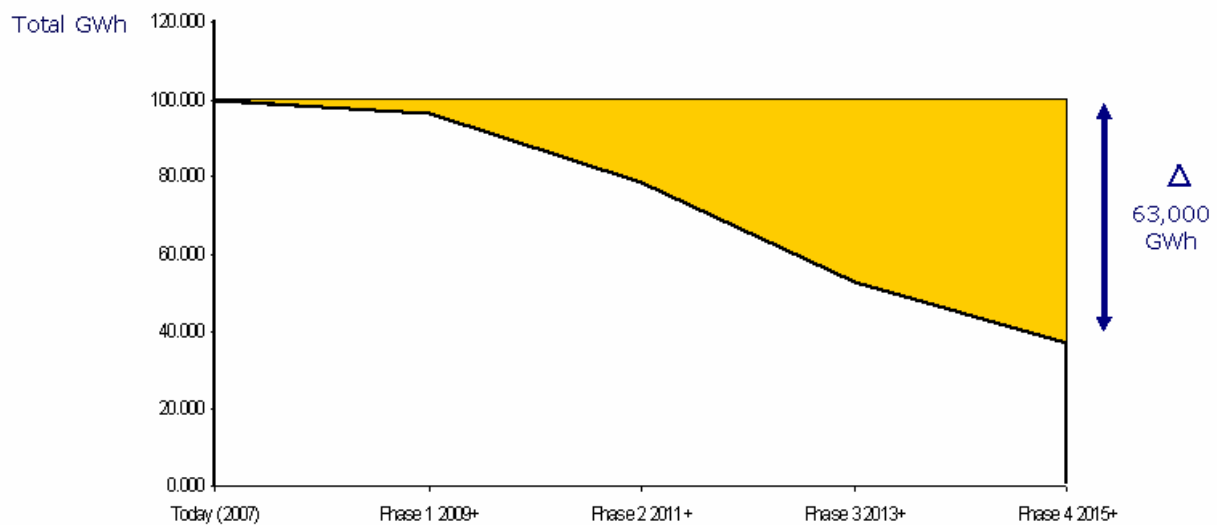
Total CO2 emission in Mega tons



**Chart 2: Annual reduction of electricity consumption
in lighting in the home (GWh)**

Lighting in the home:

Reduction of energy consumption based on ELC energy efficiency lighting proposal



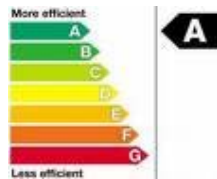
i **About the ELC**

Created in 1985, the European Lamp Companies Federation (ELC) is both the forum and the voice of the lamp industry in Europe. It represents the leading European lamp manufacturers, which collectively directly employ 50,000 people, and account for 95 percent of total European production, with an annual turnover in Europe of €5 billion. The members of the ELC are: Aura, BLV, GE, Havells Sylvania, NARVA, OSRAM and Philips.

For more about energy efficient lighting see: www.elcfed.org

ii **The EU Energy Label**

The EU Energy Label rates products from A, (the most efficient) to G (the least efficient). For lamps the EU energy label goes from up to A to G. In all EU Member States by law, the label must be shown on all domestic lamp packaging.



EU Energy Label (left)

iii *Table 1 - Energy Efficiency Class - proposal per phase:*

- Valid for 220 to 250 volt mains supply.
- Lamp minimum rated lifetime threshold = 1,000 hrs.
- Products with EEL in red, supported by binding legislation, shall not be placed on the EU market from the specified year.

iv *Table 1: Phase 4+ 2017 – Notes the additional improvement for lamp category 25W+.*

v *Table 2 - Typical Wattages and proposed lm/W values per phase:*

- Valid for 220 to 250 volt mains supply.
- Lamp minimum rated lifetime threshold = 1,000 hrs.
- For other wattage levels the exact lm/W value is defined by Directive (98/11/EC).

vi *Table 2: Phase 4+ 2017 - Notes the additional improvement for lamp category 40W and 25W.*

vii 23 Mega tons represents a forest of 23,000 square kilometres which is 13,5% more than the area of Slovenia (20,273 km²).

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