

Title of the measure:	IRL 27 Energy Efficient Lighting
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General description

This measure was included in the agreed Programme for Government (June 2007). The measure is a phasing out of incandescent lights through the Energy related Products Directive (2009/125/EC) and Commission Regulation (EC) No 244/2009.

Commission Regulation (EC) No 244/2009 of 18 March 2009 implements Directive 2005/32/EC (superseded by Directive 2009/125/EC) with regard to eco-design requirements for non-directional household lamps. The regulation provides for the phased introduction of minimum efficiency standards for lamps and effectively phases out incandescent lamps.

Impact evaluation

A bottom up model of the housing stock, lighting requirements by room and by lamp rating was developed. The aggregate savings are 45 kWh/yr per lamp replaced based on aggregate savings of 55W and 830 operating hours per annum.

Key assumptions/statistics informing the monitored and projected savings are:

- Existing deployment rate of energy efficient lighting (CFLs) in dwellings
- Number of fixtures per (average) dwelling
- Run-time per fitting
- Number of dwellings moving to full use of CFLs or energy efficient alternative before 2016.

Expected energy savings in 2016	1,200 GWh
Expected impact on energy savings in 2020	1,200 GWh

Semi Quantitative Estimate

low	medium	X high
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Definition of Impact:

Low: Impact below 0.1 % of overall energy (fuel/electricity) consumption or energy-related CO₂ emissions in the residential sector of Ireland.

Medium: 0.1 to below 0.5 % of overall energy (fuel/electricity) consumption or energy-related CO₂ emissions in the residential sector of Ireland.

High: 0.5 % upwards of overall energy (fuel/electricity) consumption or energy-related CO₂ emissions in the residential sector of Ireland.

Interaction of measures

Lighting affects the specific energy consumption (Energy Performance Coefficient) calculated for new dwellings under the 2008 and subsequent building regulations.

The impact of the improved efficiency of lighting in existing (pre 2008) housing stock is evaluated separately.

Historical data

Savings achieved in 2010	200 GWh
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References

For more information see: http://www.seai.ie/Power_of_One/Energy_Saving/Lighting/