



European Commission

Enterprise and Industry
Directorate-General

Ecodesign Directive

First Stakeholder Meeting of
ENTR Lot 6 preparatory study on
Air conditioning and ventilation systems

Brussels, 5 July 2010



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The Ecodesign Directive

2009/125/EC

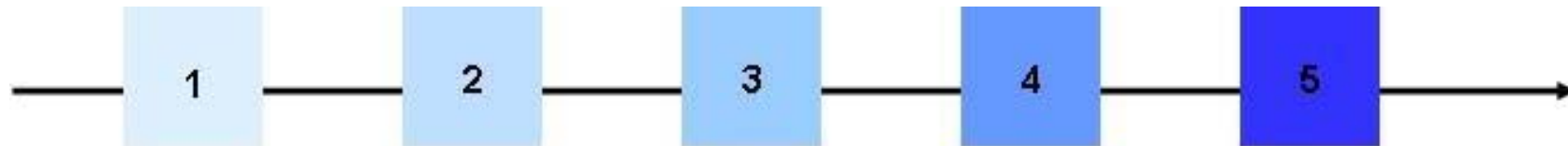
- **The Directive establishes a framework for the setting of ecodesign requirements for energy-related products.**
- **“Ecodesign” aims at improving the environmental performance of products throughout their life-cycle by integration of environmental aspects in the product design, in balance with technical and economic constraints.**
- **Framework Directive implemented through implementing measures by Commission or self-regulation measures by industry**



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Adoption process of implementing measure for a product



1. Preparatory study by external consultants
2. Consultation Forum under Article 18 of the Ecodesign Directive
3. Draft proposal and impact assessment by Commission
4. WTO notification, Vote by Member States in Regulatory Committee, Scrutiny by the European Parliament
5. Adoption of Regulation by Commission, directly applicable in Member States



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Commission adopted 9 implementing measures

Ecodesign Regulation		Adoption	Saving potential per year in 2020
1275/2008	Standby and off mode of household and office equipment	17.12.2008	35 TWh
107/2009	Simple set-top boxes	04.02.2009	6 TWh
244/2009	Non-directional household lamps	18.03.2009	37 TWh
245/2009	Street and office lighting	18.03.2009	38 TWh
278/2009	External power supplies	06.04.2009	9 TWh
640/2009	Electric motors	22.07.2009	135 TWh
641/2009	Circulators	22.07.2009	25 TWh
642/2009	Televisions	22.07.2009	26 TWh
643/2009	Household refrigerating appliances	22.07.2009	4 TWh
			315 TWh

Expected savings in 2020 equal to 12% of the total annual EU electricity consumption



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Indicative list of product groups of the Ecodesign Working plan (2009 – 2011)

- **Large air-conditioning and ventilation systems**
- **Electric and fossil-fuelled heating equipment**
- **Food-preparing equipment**
- **Industrial and laboratory furnaces and ovens**
- **Machine tools**
- **Network, data processing and data storing equipment**
- **Large refrigerating and freezing equipment**
- **Sound and imaging equipment**
- **Transformers**
- **Water-using equipment**



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Product group: Air-conditioning and ventilation systems

Annex I of Ecodesign Working plan (2009 – 2011):

- **Product examples:** Large air conditioners > 12 kW; Water-cooled air conditioners; Ventilation systems.
- **Significant environmental impact:** High energy consumption (> 1 000 PJ/year), with long operating time (cooling/heating period, increasing ventilation time) and high-growth market; Other environmental impact of power electronics, displays and refrigerants.
- **Significant potential for improvement:** High potential for energy savings (estimated average > 20%); Potential for other environmental improvements (e.g. substitution of refrigerants, extension of lifetime or easy recycling); Third-country specifications (Energy labelling, Eco-labels, Energy Star and MEPS) indicate potential for improvement



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Content of a Preparatory Study

Objective: Whether and Which Ecodesign Requirements for an Energy-Using Product

1. Product Definition, Test Standards, Existing Legislation
2. Economic and Market Analysis
3. User Behaviour
4. Environmental and Economic Assessment of Base-Case
5. Technical Analysis BAT and BNAT
6. Improvement Potential, including Sensitivity Analysis
7. Policy and Impact Analysis



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Thank you for your attention

Commission's Ecodesign website

[http://ec.europa.eu/enterprise/eco_design/
productgroups.htm](http://ec.europa.eu/enterprise/eco_design/productgroups.htm)

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