



Directorate-General
for Energy



● Energy efficient products - Introduction to Ecodesign

EU Energy Policy and the Global Challenges
13 April 2011

Paul Hodson, Head of Unit,
European Commission, DG Energy, C3
Energy Efficiency & Intelligent Energy

● Framework Directive 2009/125/EG

Main objectives:

- Legal Basis Article 95: Establishing a framework for the setting of ecodesign requirements for energy-related products -> free movement of these products within the internal market
- Recast 2009: Extension of the scope from energy-using towards energy-relevant products
- Priority of the legislator (Article 16): Products with a high potential for cost-efficient reduction of CO₂-emissions
- The product-specific requirements are defined in implementing measures

● Mandate to exploit the Ecodesign potential

- European Council of 8./9. March 2007 calls for a thorough and rapid implementation of dynamic minimum efficiency requirements for energy-using equipment
- Resolution of the European Parliament of 25.11.2010 regarding the Energy Strategy «Towards a new strategy for Europe 2011-2020 »
-> encouraging the Commission to implement the Ecodesign-Directive to the full e.g. by including more products and applying a dynamic standard-setting to ensure that ambitious targets are set and regularly updated.

● Which products?

Article 15 (1) and (2):

- Significant volume of sales and trade, indicatively 200.000 units p.a.
- Significant environmental impact
- Significant potential for improvement in terms of its environmental impact without entailing excessive costs (taking into account: wide disparity in the environmental performance of products available, failure of market forces)

● Implementing Measures need to meet criteria, Article 15(5)

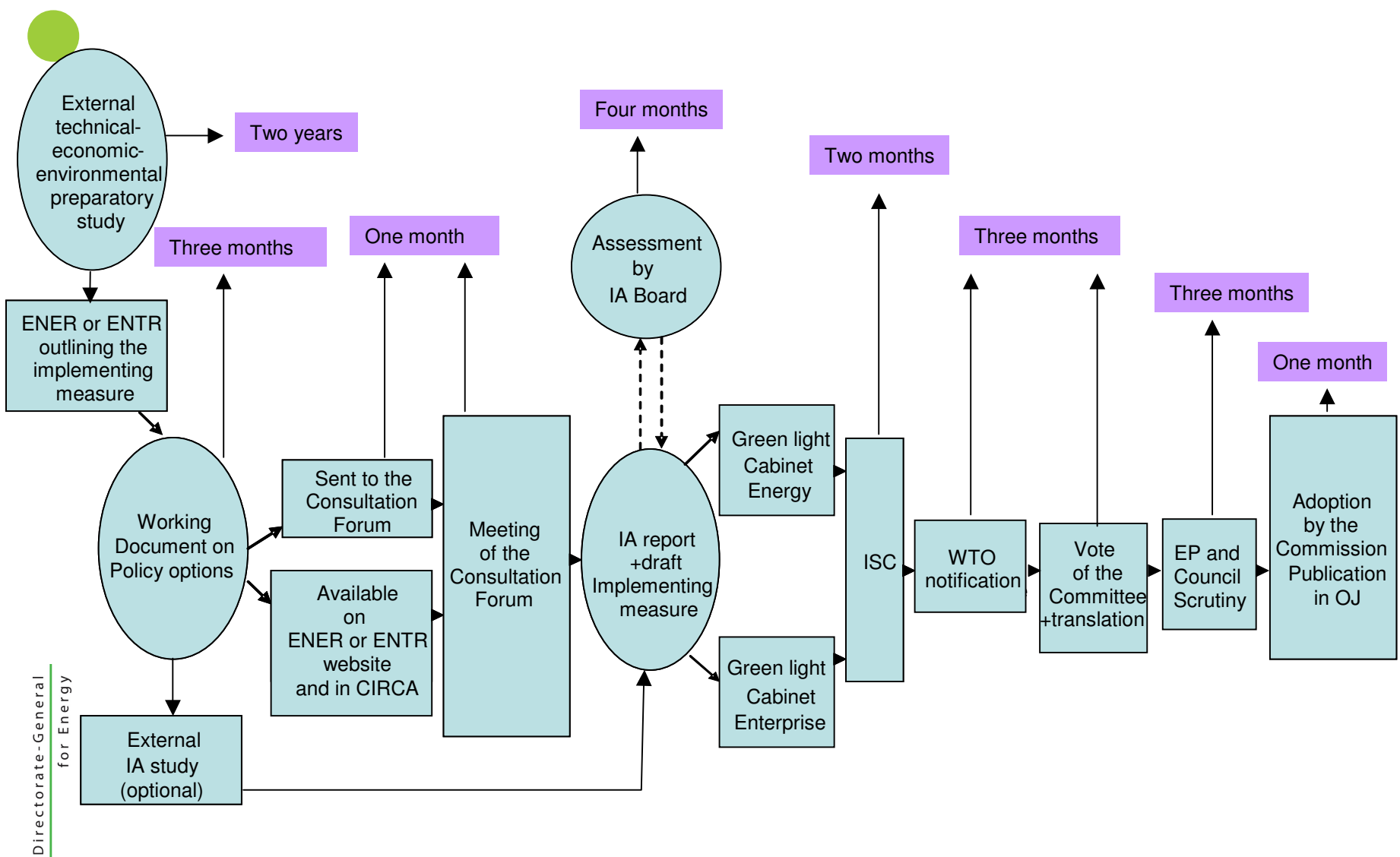
- No (significant) negative impact on
 - » Functionality
 - » Health and safety
 - » Affordability
 - » Industry's Competitiveness
- Not imposing proprietary technology on manufacturers
- No excessive administrative burden for manufacturers

● Ecodesign requirements/parameters (Annexes)

- consider all phases of the life cycle (manufacturing, transport, use, disposal)
- consider for each phase the essential environmental aspects (consumption, material, emission, waste etc.)
- determine energy efficiency/energy consumption levels which allow life cycle cost minimum for end consumers

● Methodology

- Technical, ecological and economic analysis of a product (“preparatory study”)
- Consultation Forum: Proposal (Commission) on the substance of the implementing measure, Discussion with Stakeholders
- Legislative Proposal, impact assessment, WTO-Notification
- Alternative under certain conditions: Voluntary agreements
- Vote in Regulatory Committee (Member States)
- Control through European Parliament and Council («regulatory procedure with scrutiny»)
- Adoption by Commission



Directorate-General
for Energy



● Results of the process in particular:

- “Ambition” of the measure
- Timeline of the implementation, transitional periods;
- Monitoring of the impacts on manufacturers, in particular SMEs (e.g. regarding product development cycles, conformity assessment/measurements...)
- Presented in the product-specific Impact Assessment

● **Adopted measures - status:**

Product	Estimated savings per year by 2020
Standby by	35 TWh
Simple set top boxes	6 TWh
Street and Office Lighting	38 TWh
External power supplies	9 TWh
Electric motors	140 TWh
Domestic lighting	39 TWh

Directorate-General
for Energy

● Adopted measures - status:

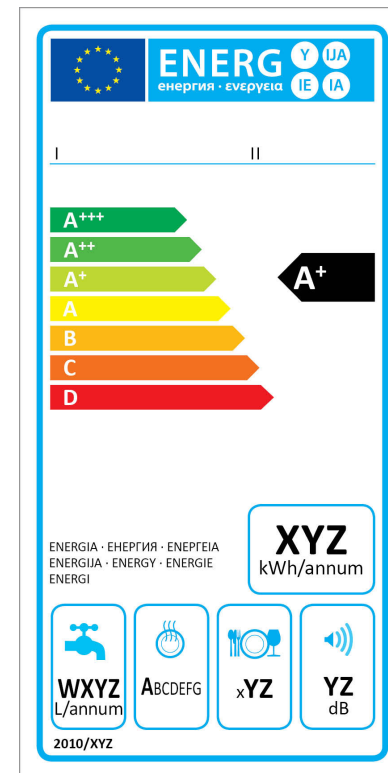
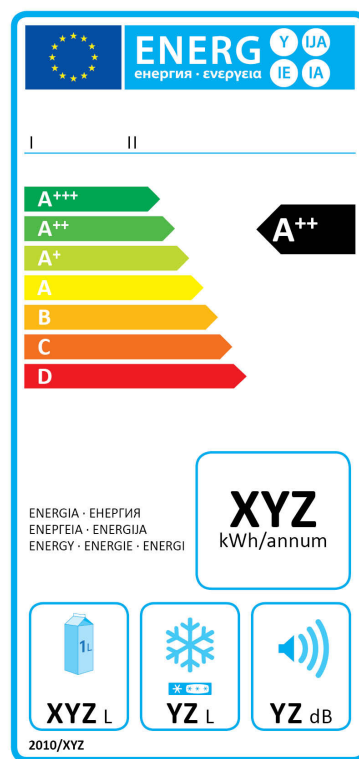
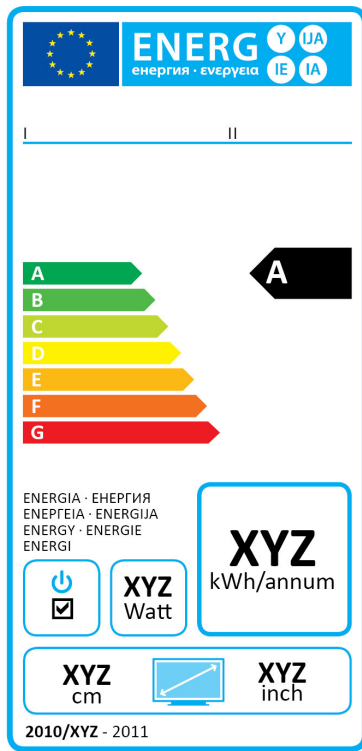
Product	Estimated savings per year by 2020
Circulators	27 TWh
Fridges and freezers, with energy label	6 TWh
TVs, with energy label	43 TWh
Washing machines, with energy label	2 TWh
Dishwashers, with energy label	2 TWh
Fans	34 TWh
In total – more than electricity consumption of UK = 20-25% of the EU's energy efficiency target	around 381 TWh (82 Mtoe)



Complementary: Energy label

- Recast Energy label Directive 2010/30/EU
- First new Labels (OJ. L 314, 30.11.2011): TVs, Refrigerating Appliances, Washing Machines, Dishwashers

● Complementary: Energylabel



Directorate-General
for Energy



● Next steps

- Work Programme for energy-relevant Products: first half 2012
- Review of the Ecodesign Framework Directive by 2012
- Review of Implementing Measures, e.g. TVs by 2012
- Implementing Measures (see table)



Measures - Indicative planning for 2011

2011		
2 nd Quarter	3 rd Quarter	4 th Quarter
<ul style="list-style-type: none">• Air conditioners (Eco Design & Labelling)	<ul style="list-style-type: none">• Electric Pumps (Eco Design)• Personal Computer and Displays (Eco Design)• Heating Boilers and Water Heaters (Eco Design & Labelling)• Domestic Laundry Driers (Eco Design & Labelling)	<ul style="list-style-type: none">• Commercial Refrigeration (Eco Design & possibly Labelling)• Vacuum Cleaners (Eco Design & Labelling)• Domestic Lighting II: reflector lamps and luminaires (Eco Design & Labelling)



Thank you for your attention!!

paul.hodson@ec.europa.eu