

# **Ecodesign Directive 2009/125/EC & Energy Labelling Directive 2010/30/EU**

## **EU-Serbia Screening Exercise**

## *Europe 2020 Strategy:*

- **objectives on employment, innovation, education, social inclusion and climate/energy**
- **Flagship Initiative Resource Efficient Europe**

## *Europe 2020 Targets:*

- **Reduce greenhouse gas levels by 20%**
- **Increase share of renewables to 20%**
- **Reduce energy consumption by 20%**

# Energy efficiency of products

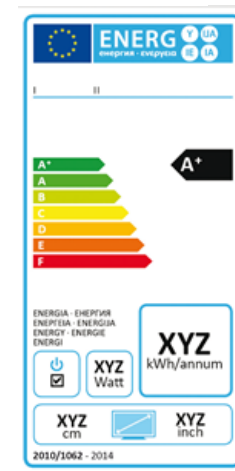


## Main instruments



**Ecodesign Directive 2009/125/EC:** "Framework" defining the "rules" for setting product-specific requirements/legislation on energy efficiency and further parameters. Compliant products receive "CE Mark"

**Energy Labelling Directive 2010/30/EU:** "Framework" defining the "rules" for setting product-specific requirements/legislation on standard information of the consumption of energy and other resources



## Other related instruments

**Ecolabel:** The EU Ecolabel helps identify products and services that have a reduced impact on the environment throughout their life cycle, from the extraction of raw material through to production, use and disposal.



**Green Public Procurement:** Voluntary instrument. GPP can help stimulate a critical mass of demand for more sustainable goods and services which otherwise would be difficult to get onto the market.



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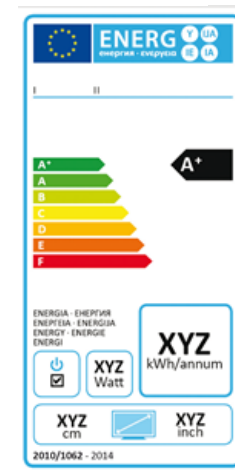


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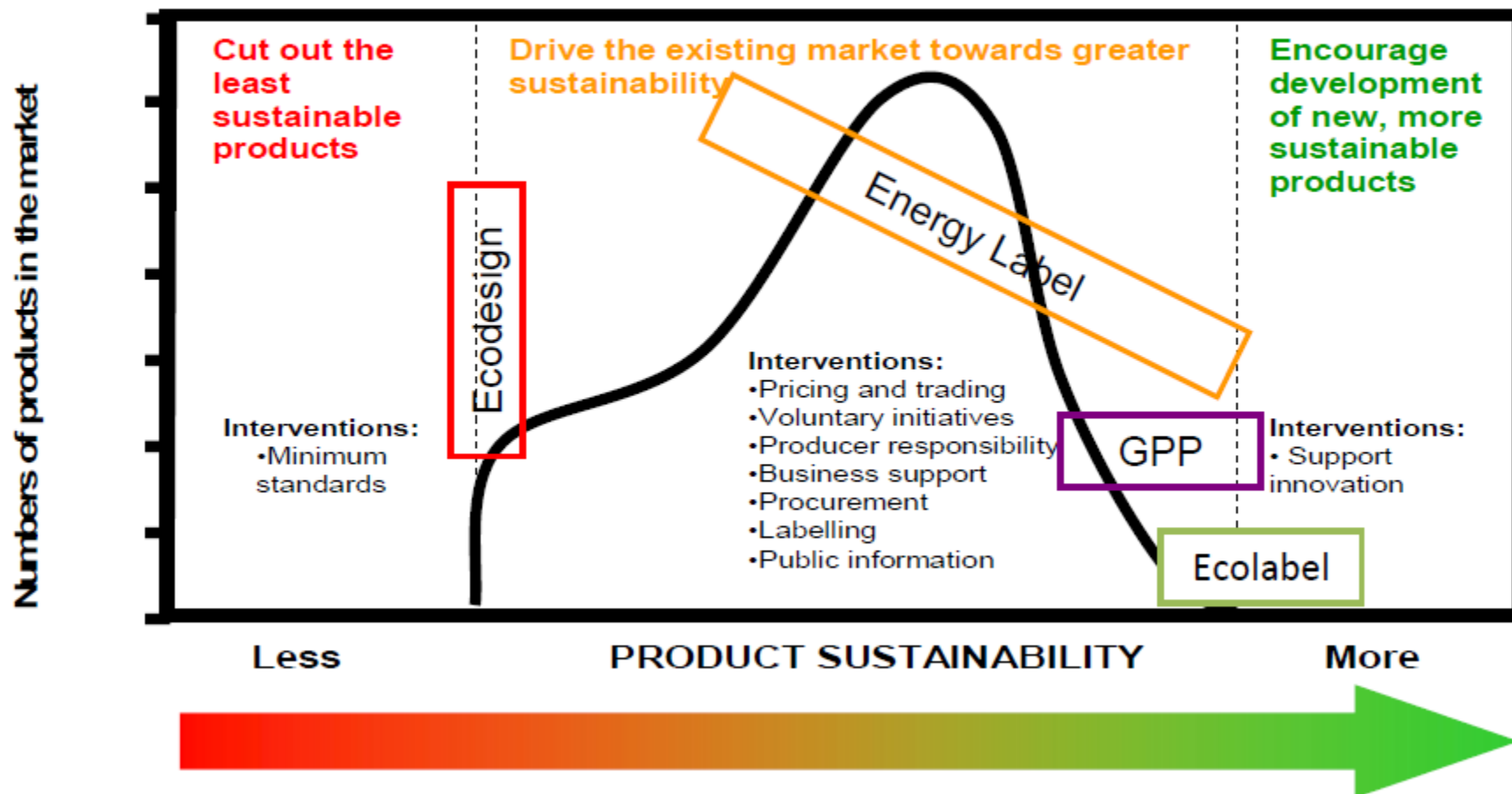


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# Increased Energy Efficiency & Sustainability of Products

## PRODUCT INTERVENTIONS – Overall approach



## **Ecodesign sets (mandatory) requirements for Energy-related Products to improve their environmental performance**

- ⇒ **(New) Products that do not meet these requirements are not allowed to be placed on the EU market from a certain date**
- Ecodesign Directive 2009/125/EC establishes the framework (conditions, criteria, procedures etc.)
  - The product requirements are specified in product-specific "Implementing Regulations"
  - Product requirements can cover also other environmental impacts other than energy use
  - Legal basis Article 114 TFEU: free movement of products within the internal market
  - Member States responsible for market surveillance

## Ecodesign Requirements

- Generic, aiming at the improvement of the overall environmental performance, focusing on environmental aspects identified in the implementing measure

**and/or**

- Specific, in the form of limit values or thresholds for selected environmental aspects with a significant adverse impact on the environment

*For instance:*

*Minimum Energy Performance Requirements (MEPS)*

## Ecodesign Requirements

**Once the Regulation (implementing measure) is in place,**

**A product covered by it needs  
(art. 5):**

- A CE Marking**
- A declaration of conformity**



This way, the manufacturer ensures that the product complies with all relevant provisions.



## What products?

- 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

## Criteria

- 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

## The two "sisters" Directives...a practical (non updated) example

### ***Draft Labelling Regulation on professional storage cabinets***

Energy efficiency classes of professional storage cabinets

### ***Draft Ecodesign Regulation on professional refrigeration products***

Professional storage cabinets within the scope of this Regulation shall comply with the following energy efficiency index (EEI) limits:

- (i) From 1 January 2016:  $EEI < 115$
- (ii) From 1 July 2017:  $EEI < 100$
- (iii) From 1 July 2019:  $EEI < 90$

Energy efficiency class	EEI
A+++	$EEI < 10$
A++	$10 = EEI < 15$
A+	$15 = EEI < 20$
A	$20 = EEI < 30$
B	$30 = EEI < 40$
C	$40 = EEI < 55$
D	$55 = EEI < 75$
E	$75 = EEI < 85$
F	$85 = EEI < 95$
G	$95 = EEI < 115$

## Ecodesign and Labelling - Results Achieved



- Expected savings by 2020
- Estimates do not include rebound effect

# Ecodesign product-specific measures

## 26 ecodesign regulations

1275/2008	Electric power consumption standby and off mode
107/2009	Simple set-top boxes
244/2009	Non-directional household lamps
245/2009	Fluorescent lamps for high intensity discharge lamps
278/2009	External power supplies
640/2009	Electric motors
641/2009	Circulators
642/2009	Televisions
643/2009	Household refrigerating appliances
1015/2010	Household washing machines
1016/2010	Household dishwashers
327/2011	Industrial fans
206/2012	Airco and comfort fans

547/2012	Water pumps
932/2012	Household tumble driers
1194/2012	Directional lamps
859/2009	Lamps regulation amending regulation 245/2009
347/2010	Lamps regulation amending regulation 245/2009
622/2012	Circulators (amending regulation 641/2009)
617/2013	Computers and servers
666/2013	Vacuum cleaners
801/2013	Networked standby
813/2013	Space heaters
814/2013	Water heaters & storage tanks
66/2014	Domestic ovens, hobs and range hoods
548/2014	Power transformers

## 2 voluntary ecodesign agreements

COM (2012) 684	Complex set top boxes
COM (2013) 23	Imaging equipment

# On-going work

## Regulations under development

Electronic displays

Solid fuel boilers

Local space heaters

Air heating products

Ventilation products

Professional refrigeration

Commercial refrigeration

Waste water pumps

Other pumps

Compressors

Other motors

## Voluntary agreements under development

Game consoles

Machine tools

## Regulations under review

Household dishwashers

Household refrigerating appliances

Household washing machines

Household tumble driers

Electrical lamps and luminaires (stage 6)

External power supplies

Lighting (non-directional and tertiary, and special purpose)

*Further products under study*

## Priority product groups:

- Window products
- Steam boilers ( < 50MW)
- Power cables
- Enterprises' servers, storage and ancillary equipment
- Smart appliances/meters
- Wine storage appliances

## Optional product groups:

- Positive displacement pumps
- Fractional horse power motors under 200W
- Heating controls
- Lighting controls/systems
- Thermal insulation products for buildings

**Power generating equipment:** Inclusion of this product group was requested by stakeholders. Specific study assessing the potential of power generating equipment <50MW will be launched.

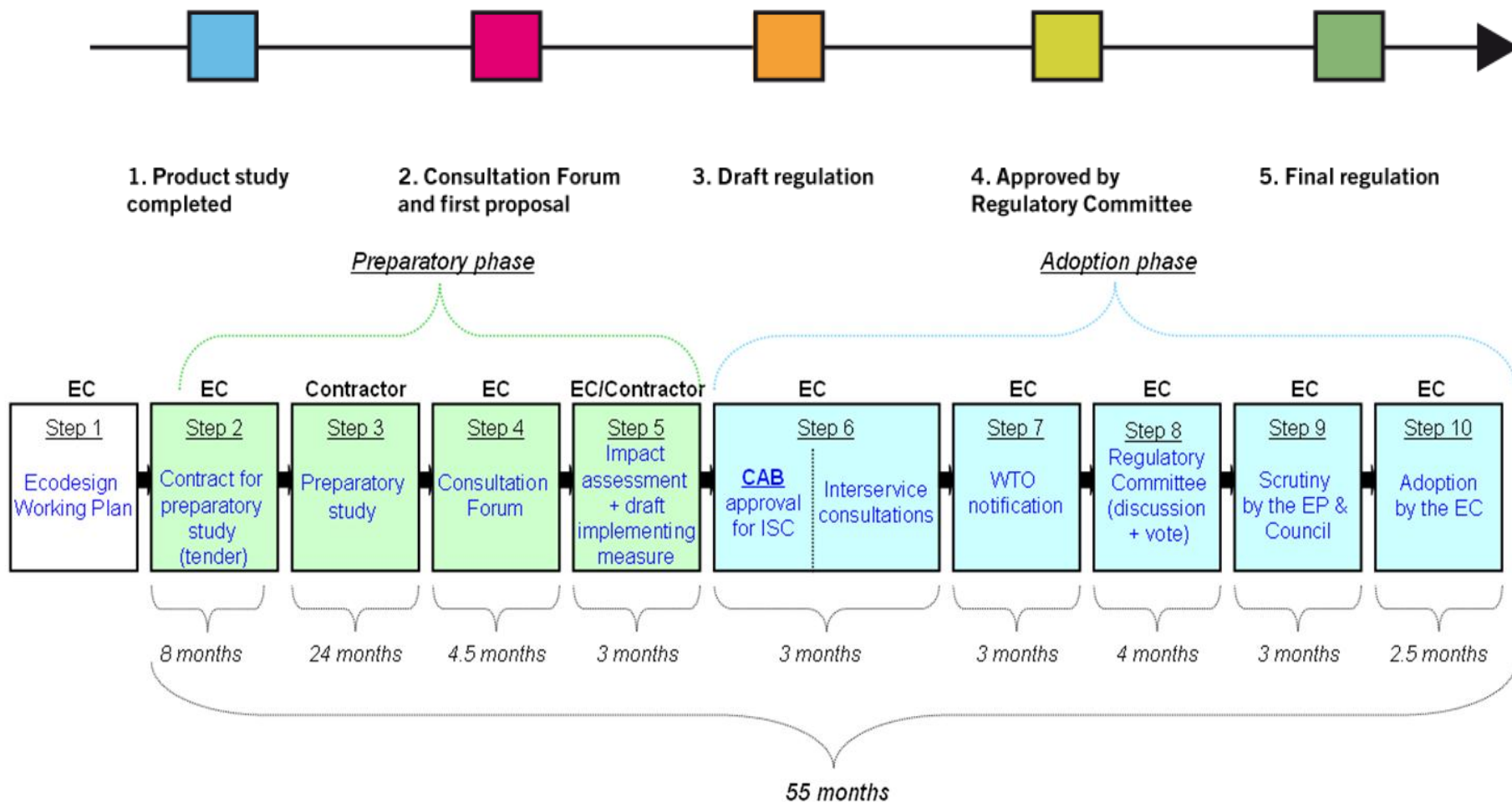
As a general rule, this is the repartition of ecodesign products groups within the Commission:

B2C: DG ENER

B2B: DG ENTR

Water related products: DG ENV

# Preparatory and adoption procedure





# Other actions of the "ecodesign world"



**Methodology:** Revised and extended Ecodesign Methodology for Energy Related Products endorsed by the Consultation Forum on 19 January 2012:

[http://ec.europa.eu/enterprise/policies/sustainable-business/ecodesign/methodology/index\\_en.htm](http://ec.europa.eu/enterprise/policies/sustainable-business/ecodesign/methodology/index_en.htm)

**Standardisation:** Call for proposals for support to NGOs and for Commission services in standardisation.

**Market surveillance:** Annual market surveillance collections exercise launched in 2012. Better understanding on how Member States carry out market surveillance, identify common problems, help deciding on possible further actions.

**Helpdesk:** support in informing e.g. consumers, companies and compliance authorities on ecodesign and energy labelling matters. Launch of tender foreseen for 3rd quarter 2012.

## Manufacturers' obligations

- Design and construct in compliance with eco-design requirements
- Possibly use harmonised standards to test their products and declare their performance
- Carry out conformity assessment (self-assessment is the general rule)
- Affix the CE marking

Only manufacturers affected?

NO!

Importers too, if the manufacturers are not established in the EU and have no representative

## Member States' obligations

- Most important: **Market Surveillance** (Art. 3).
- MSs have to make sure that products covered by a regulation comply with it.
- This means that they will have to designate authorities to carry out conformity assessment market surveillance, including products checks.
- Depending on the gravity of the non-compliance, measures have to be adopted; they can go range from an order to comply or a small fine up to a prohibition.
- The Commission has to be informed of the results.

# Thank you!



**European Commission  
DG Enterprise and Industry  
Sustainable Industrial Policy Unit B1  
B - 1049 Brussels**

**Contact: [ENTR-Ecodesign@ec.europa.eu](mailto:ENTR-Ecodesign@ec.europa.eu)**

**[http://ec.europa.eu/enterprise/policies/sustainable-business/ecodesign/index\\_en.htm](http://ec.europa.eu/enterprise/policies/sustainable-business/ecodesign/index_en.htm)**