



Ecodesign Directive 2009/125/EC & Energy Labelling Directive 2010/30/EU State of Play

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B1 Sustainable Industrial Policy and Construction**

Energy efficiency of products

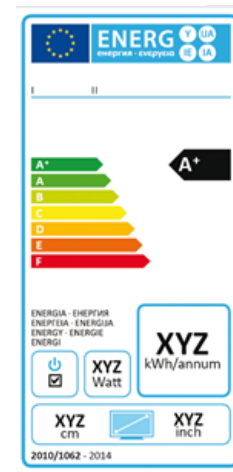


Main instruments



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.



Energy efficiency of products



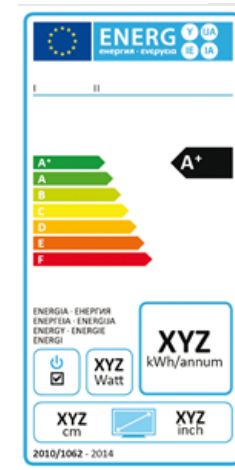
Main instruments



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

Compulsory

Energy Labelling Directive 2011/654/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

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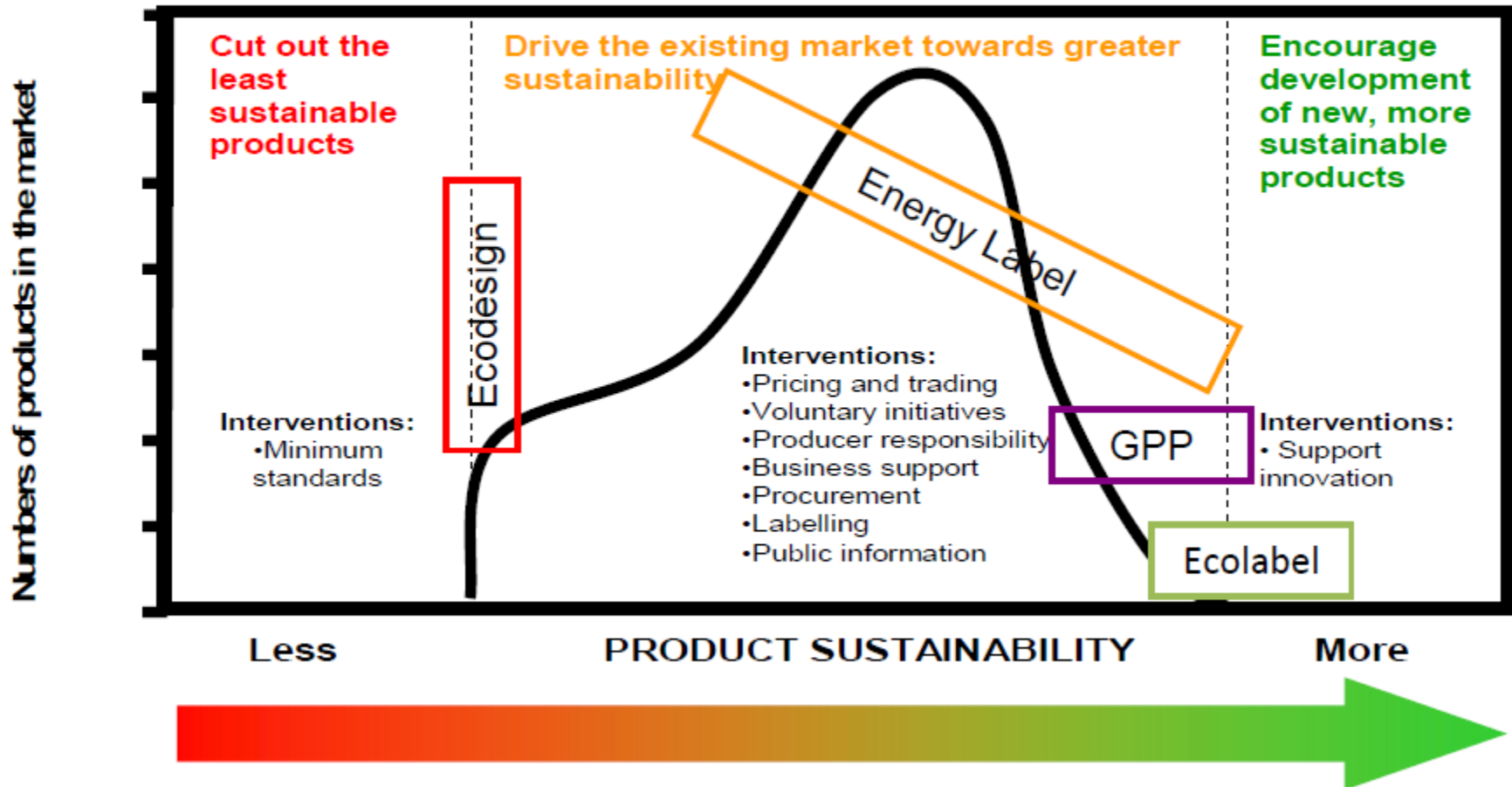
Voluntary

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.



Increased Energy Efficiency & Sustainability of Products

PRODUCT INTERVENTIONS – Overall approach



Story so far.....



39 'Lots' with some 50 product groups

14 Ecodesign Regulations and 5 Energy Labelling Regulations adopted

Product	Example Estimated savings by a set of Regulations (annual by 2020) [TWh]
Standby	35
Simple set-top boxes	6
Street & Office lighting	38
External power supplies	9
Domestic lighting	37
Electric motors	135
Circulators	23
Freezers/refrigerators	6
Televisions	43
Fans	34
Air conditioning and comfort fans	11
Total [TWh]	377

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

B2C: DG ENER

B2B: DG ENTR

DG ENV could be involved in the near future
(depending on the Ecodesign Working Plan)

Ongoing Product Groups – DG ENTR 'B2B'



B2B Ecodesign "Lot"	B2B Product Group	(TWh)	Possible Implementing Measure & Date	Measure Should Apply From
		Estimated energy savings <i>per year</i> in 2020		
ENTR Lot 1	Professional refrigeration	6 TWh	Regulation + Labelling: 2014	2015-16
ENTR Lot 2	Transformers	12 TWh	Regulation: 2014	2015-16
ENTR Lot 3	Sound & Imaging Equipment	4 TWh	Voluntary Agreement: 2014	2015-16
ENTR Lot 4	Industrial ovens & furnaces	35 TWh	Regulation + Labelling (small-medium products): 2015	2016-17
ENTR Lot 5	Machine Tools	4 TWh	Voluntary Agreement: 2014-15	2015-16
ENTR Lot 6	Air-conditioning & ventilation systems	100 TWh	Regulation: 2015	2016-17
PROJECTED B2B FINAL ENERGY SAVINGS PER YEAR, IN THE YEAR 2020		c. 160 TWh	Equivalent to c. 80 million tonnes of CO2 saved annually	

B2B & Overall Ecodesign Projections to 2020: Annual Savings Year on Year

- **B2B savings p.a. by 2020 = 16 small new nuclear power stations**
- **TOTAL (Consumer Goods + B2B) Ecodesign energy savings per year by 2020 = 800 TWh, more than all present EU-wide Renewable Electricity used**
- **TOTAL CO2 savings: c. 400 million tonnes per year (2020)**
- **THIS IS THE SAME AS THE EU ETS by 2020!**



Ecodesign Working program 2012-2014 (provisional)



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

Additional combined energy savings potential: over 500 TWh per year by 2030.

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.

Other new actions

Helpdesk: support in informing e.g. consumers, companies and compliance authorities on ecodesign and energy labelling matters. Launch of tender being planned.

Standardisation: Call for proposals for support to NGOs and for Commission services in standardisation. Launch of tender being planned.

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.

Review of Ecodesign and Energy Labelling Directive

Ecodesign review in 2012: Provisional conclusions: the Directive achieves its main policy objectives. It is too early to evaluate the full effects of the Directive (implementing measures not yet in place sufficiently long time).

Energy Labelling review in 2014: Launch of studies on the impact of implementing measures, support actions, standardisation, market surveillance in 2012-2013 etc to support the review in 2014. First behavioural study concerning Energy Labelling, in collaboration with DG SANCO, to be finished on Autumn 2012.

The link is clear

DG ENERGY (lot)

- 1 Boilers (heat pumps)
- 2 Water heaters
- 10 Room air conditioners
- 12 Commercial refrigeration (display cabinets, cold vending machines)
- 13 Domestic refrigeration
- 17 Laundry dryers (heat pump dryers)
- 20 Local room heaters
- 21 Hot air central heating systems

DG ENTERPRISE (lot)

- 1 Commercial refrigerating equipment
- 6 Air conditioning and ventilation systems

All these product groups use refrigerants!

They represent the majority of F-Gas Global Warming emission

How to act on it?

Ecodesign is based on a Life-cycle approach to improve environmental performance.

The focus is energy-efficiency, but also other aspects can and have to be considered.

One should consider the overall impact on the atmosphere, then choose the best solution.

Case by case.

An Example: ENTR Lot 1 Professional Refrigeration

There are five products in this Lot:

- Storage Cabinets
- Blast Cabinets
- Condensing Units
- Industrial Process Chillers
- Walk-in Cold Rooms

The Impact Assessment studies by our contractor are, or will be soon, available at http://www.taitconsulting.co.uk/Ecodesign_Consultation.html

Comments and data are still welcome (To the speaker, please)

We are now writing the Impact Assessment.

Two products (Storage Cabinets and Blast Cabinets) are set to be presented to the IA Board on December the 18th.

The others will follow soon.

Afterwards, a draft regulation will go through the Inter-Service Consultation (ISC).

(For your information, the following slide illustrates the procedure)

Close attention to and coordination with the coming F-gases regulation are required.

(Preparatory and adoption procedure)



1. Product study completed

2. Consultation Forum and first proposal

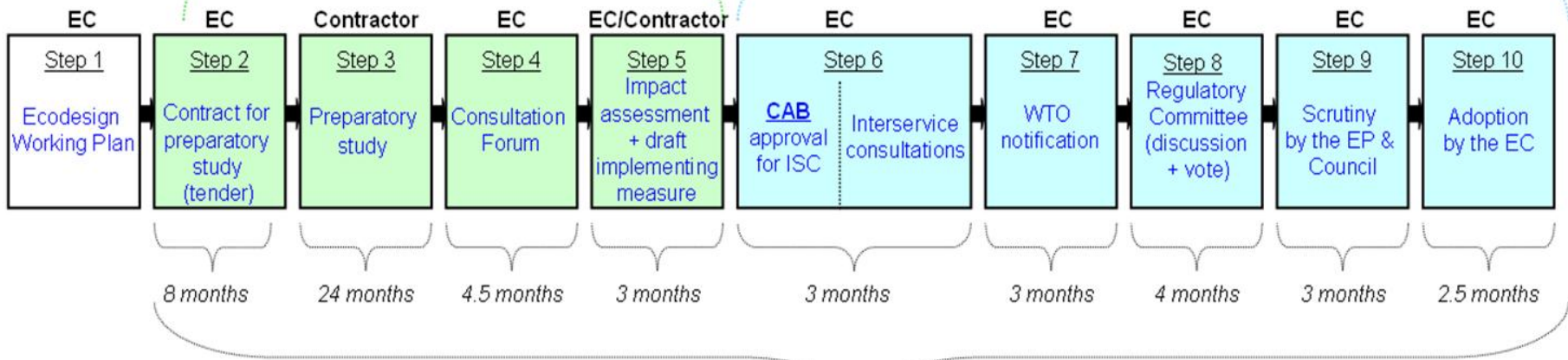
3. Draft regulation

4. Approved by Regulatory Committee

5. Final regulation

Preparatory phase

Adoption phase



55 months

An Example: Two ENTR Lot 1 Products

Storage Cabinets



Condensing Units



An Example: Two ENTR Lot 1 Products

Storage Cabinets

Total Warming Impact:
95% Energy Consumption
5% Direct Emissions

Technology: alternative and very efficient gases available (Hydrocarbons)

Ecodesign and Energy Labelling will push the market in the right direction (away from high GWP refrigerants)

Issue: some safety regulations

Condensing Units

Total Warming Impact:
80% Energy Consumption
20% Direct Emissions

Technology: alternatives available, sometimes not very energy efficient

Ecodesign has to be applied carefully to push market in the right direction (away from high GWP refrigerants)

Issue: often loaded on site with refrigerant gas

Thanks for your attention!

More information at:

http://ec.europa.eu/enterprise/policies/sustainable-business/ecodesign/index_en.htm

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