

Which products fall with in the scope of the Eco Design of Energy Using Products Directive?

The Directive sets the framework for the application of implementing measures to Energy Using Products which potentially fulfil the following criteria:

- The product is an energy using product (i.e. a product that is dependent on energy (including electricity, fossil fuels and renewables)) for it to work as intended;
- The product represents a significant volume of sales and trade (takes as > 200, 000 units per annum);
- The product shall have a significant environmental impact on the community (Life cycle approach is taken);
- The product has a significant potential for improvement and the improvement should be feasible.

Means of transport are exempt from the directive.

This implies that the directive only applies to products that are covered by an implementing measure.

What is an implementing measure?

Which implementing measures are currently in force?

An implementing measure is a specific legislation enacted under the conditions set by the Eco Design of Energy using Products Directive. The implementing measure typically takes the form of a Commission regulation and contains the following points:

- The Scope;
- Definitions;
- The Technical requirements (e.g. minimum energy efficiency limits);
- The Conformity Assessment Procedures (including technical documentation requirements);
- Verification procedure to be followed by Market Surveillance Authorities;
- The establishment of Bench Marks for use in the future;
- The Date when the Commission shall review the implementing measure.

To date only one implementing measure has been approved under the Eco design of Energy using Products Directive, namely:

Draft - COMMISSION REGULATION (EC) No .../.. of [...] implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign

requirements for standby and off mode electric power consumption of electrical and electronic household and office equipment.

The regulation will come into force after the approval of the Council and the European Parliament.

The Eco Design of Energy using Products Directive adopted the following former directives as implementing measures:

- [Directive 2000/55/EC](#) on energy efficiency requirements for **ballasts for fluorescent lighting** (In force since April 2002);
- [Directive 96/57/EC](#) on energy efficiency requirements for **household electric refrigerators, freezers and combinations thereof** (In force since September 1999);
- [Council Directive 92/42/EEC](#) on efficiency requirements for **new hot-water boilers fired with liquid or gaseous fuels**. (In force since June 1994).

How are implementing measures developed and what are the plans for the future?

Implementing measures are based on preparatory studies which take between 1 and 2 years. Then an impact assessment is performed by the Commission and the draft implementing measure is launched for discussion in the **Consultation Forum**. The final draft has to be approved by the Standing Committee in which all the member states are represented.

The plans for the years 2008/2009 for the finalising of pending studies and the intended adoption dates for implementing measures may be found at:

<http://ec.europa.eu/energy/demand/legislation/doc/planning.pdf>

The European Commission is obliged to prepare a work plan for the adoption of implementing measures. A study commission by it identified an indicative list of product groups which are suitable candidates for the imposition of implementing measures. These product groups, shown below, have a significant potential for improving their environmental performance. Discussions on implementing measures on product groups selected from the list are expected to follow the plans for 2008/2009.

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Rank	EUP Category	Product Details
1	In House data Networking, data processing equipment	Central Storage Units, Server, data storage, mainframes, data distribution and storage centres, Thin Clients
2	Transformers	Distribution transformers, power transformers
3	Tool machines (Manufacturing – Industrial Use)	Lathes, milling machines, grinding machines, bending, cutting drilling machines etc
4	Electric and fossil fuelled heating equipment	Electric water heaters, electric storage heating radiators, liquid filled electric radiators, Gas fires, electric fires,patio heaters, hot air distribution systems.
5	Surgical, patient recovery and healing equipment	Ultraviolet or infra red ray medical, medical drill engines, diathermic apparatus, Respiration apparatus,
6	Industrial and laboratory furnaces and ovens	Infra red radiation ovens, resistance heated industrial and laboratory furnaces,furnaces and ovens functioning by dielectric loss. Furnaces and ovens for the incineration of rubbish
7	Domestic equipment for clothes caring and others	Electric steam irons, household ironing machines, household sewing machines.
8	Compressors	Compressors, air compressors
9	Welding Machines including automatic welding machines	Welding machines for metals, plastic or rubber. Automatic or semi automatic welding machines
10	Electrodiagnostic apparatus	Electro-cardiographs, ultrasonic scanning apparatus,electric blood pressure monitors
11	Network Equipment for all types of Data processing (Data, Telecoms, internet, mobile and radio network)	Base stations for mobile net creation, hubs, routers, networking equipment, modems
12	Power electronics products (inverters, static converters, inductors, soft starters)	Uninterruptible power supplies (UPS), Inverters, static converters,power supply units, internal power supply units, ac converters, ... battery chargers for vehicles
13	Sound and Image processing machines and equipment	Video players/recorders, transmissions apparatus for broadcasts, digital cameras, projectors, ... photographic enlargers and reducers
14	Domestic equipment for clothes caring and others	Electric steam irons, household ironing machines, household sewing machines.
15	Refrigerating Equipment	Compressors for refrigerating equipment, freezing equipment, evaporators, condensers, chillers, ice makers,

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		walk in cold rooms, refrigerated service cabinets
16	Air Conditioning systems and heat pumps	Air con machines with refrigeration units, Heat pumps, cooling towers, Air con with cooling capacity above 12Kw, chillers,
17	Electromechanical hand tools	Drills, saws, grinders, angle grinders, sanders, planners, chainsaws, hedge trimmers, lawn edge cutters
18	Measuring transformers	Voltage measuring transformers, current measuring transformers
19	Aerials, antenans, radars, radio navigation and control systems	Radar apparatus, radio navigational aid apparatus, Antennas-aerials
20	Lifting, Moving and Loading Equipment	Elevators, escalators, hoists, winches, fork lift, rolling mill machinery
21	Cashiers and Ticketing Machines	Cash registers, postage franking machines, ticket issuing machines, ATMs and automated bank machines
22	Sound Processing Machines and Equipment (including Radio Equipment)	Microphones, loudspeakers, amplifiers, CD players, sound recording or reproducing devices, radio receivers
23	Other Motors or Motor Driven Equipment not covered by existing Lots and other categories	Large motors > 150Kw, small pumps and motors < 0.75kw, DC motors, petrol and oil dispensing pumps
24	High energy diagnostic and healing equipment	X-Ray machines, X-ray tomography, magnetic tomography, gamma cameras
25	Lighting installations not covered by existing Lots	Retail lighting, industrial lighting, emergency lighting, traffic signs and road signals,
26	Food Production Equipment	Commercial cooking equipment, commercial coffee and tea machines, Non domestic hobs
27	Vending Machines for beverage and goods	Cold vending machines, water dispensers
28	End Equipment for data use and communication with option of net connection	Telephone answering machines, telephones sets, videophones, portable receivers for calling or paging.. Mobile phones, palm tops
29	Motor Driven equipment for waste water process, hot water and chemical process	Sewage and wastewater pumps and mixers, jet aerators Special pumps for chemicals
30	Machines for personal care	Household weighing machines, electric shavers, electric air driers

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31	Ventilation equipment for underground infrastructures and special processes	Combustion fans for power stations and boilers Process cooling fans and heating fans
32	Mowers	Lawn mowers, mowers for parks,
33	Boilers	Waterlube boilers, firetube boilers, vapour generating boilers, superheated water boilers, heat exchange units
34	Generating sets using fossil fuels	Diesel, gasoline and gas fired generators

What is the consultation forum and what is its job?

The consultation forum is set up by virtue of Article 18 of Directive 2005/32/EC, and is composed of the following members:

- One representative from each Member State and acceding countries (27+3);
- Plus Qualified organisations selected by Commission (30), made up of Industry, Consumer, Environmental representative organisations.

The aim of the Consultation Forum is to conduct preliminary discussion of Commission proposals for implementing measures among stakeholders. The forum may meet on more than once occasion to consider implementing measures. After the discussions it will report to the Regulatory Committee, who will have the final decision on implementing measures.

Information on the latest meetings of the consultation forum may be found at:

http://ec.europa.eu/energy/demand/legislation/eco_design_en.htm#consultation_forum

Do the implementing measures call for the CE mark?

The implementing measure is a daughter legislation of the Eco design of Energy using products Directive which together impose environmentally related requirements on products that fall within the scope of the implementing measure.

Requirements that emanate from the directive are:

- CE mark;
- Declaration of Conformity;
- A technical file.

Requirements that emanate from the implementing measure:

- Technical requirements;
- Specific labeling requirements,

Do the implementation measures contain any installation requirements?

The implementation measures and Directive 2005/32/EC are placing on the market legislation. That is they put requirements on products that are produced in the EU or imported into the EU. However certain implementing measures may place recommendations on the installation of certain energy using products. The intention of such recommendations is to serve as guidance when the member state or the EU is implementing other legislation. For example the draft implementing measure on Water Heaters gives guidance on the installation of water heaters in buildings. The purpose of this guidance is to eventually complement the Energy Performance of Buildings Directive.

How are the minimum technical requirements in the implementing measures set?

The minimum technical requirements are based on studies commissioned by the EU Commission. These studies have to show that the product is mass produced, that it has a significant environmental on the EU and that impact can be improved feasibly. These criteria are translated into targets of the implementing measure, which typically are:

- The minimum target i.e. all products with in the scope of the implementing measures should at least meet this target. . This is based on the **lowest cost of a product**. The cost includes the production cost (including the integration of any design options intended to make the product more eco-friendly) and the running cost (eg consumption of electricity during the life of the product). This lowest cost of a product is usually known as the **Least Life Cycle Cost (LLCC)** and it defines the type of product for which the expenditure over the total life of the product is the lowest;
- Other more stringent targets that may be implemented at a later date are based on the premises that certain existing technology that gives a better environmental performance would be more diffuse by that time;
- The **bench marks** are targets based on the best products available and are meant to give direction to industry as what would the future minimum targets may be.