



Energy Efficient Product Policy in the European Union

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Energy Community Energy Efficiency Coordination Group

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nergy



EU policy framework for energy efficiency

Energy Efficiency Directive 2012/27/EU Performanc
e of
Buildings
Directive
2010/31/EU

Ecodesign

Directive 2009/125/EC

Energy Star EU-US agreement **Energy Labelling**

Directive 2010/30/EU

Labelling

Regulation 2009/30/EU

Financing Energy Efficiency

European Structural Investment Fund; Horizon 2020; LIFE + funding; European Fund for Strategic Investments; Member State programmes; etc.



A brief history of EU product efficiency policy (I)

- 1979: 1st Energy labelling framework directive.
- 1980: Failed Commission proposals for implementing directives.
- Framework Directive requested additional Implementing Measures.

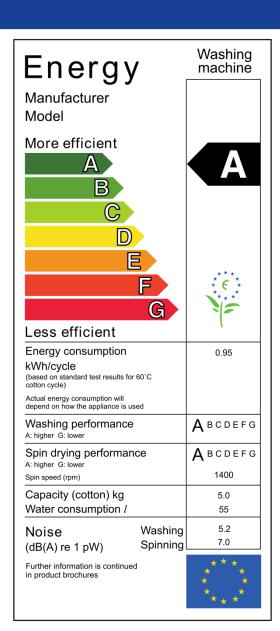


Electric oven Abcdefgh	XYZ00
Usable volume	00 I
Preheat consumption to 200 °C	0,0 kWh
Steady state consumption (one hour at 200 °C)	0,0 kWh
TOTAL	0,0 kWh
Cleaning cycle consumption	n.a.
Standard: CENELEC	HD 376



A brief history of EU product efficiency policy (II)

- 1992: 2nd Energy labelling framework directive on household appliances.
- Multilingual and modular.
- Various implementing directives.





A brief history of EU product efficiency policy (III)

Minimum energy efficiency requirements 1992-2002

- Three independent Council directives between 1992 and 2000.
- 2003 proposal for Ecodesign Framework Directive.
- 2009 and 2010: revision of both Framework Directives.



Ecodesign and Energy Labelling: A combined effort

Combined effect ensures a dynamic improvement of the market:



Ecodesign Directive 2009/125/EC

Energy Labelling Directive 2010/30/EU (under revision) + Labelling of Tyres (Regulation 1222/2009)

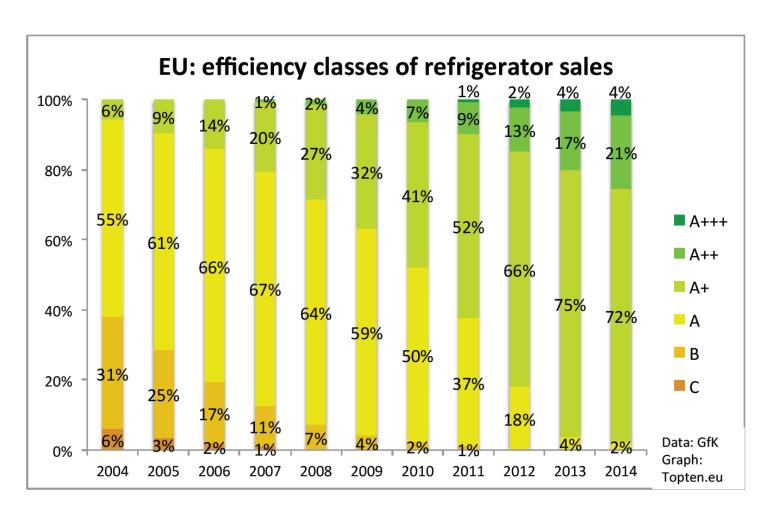


Ecodesign and Energy labelling: Results achieved

- Half of the 20% energy efficiency target for 2020.
- 175 Mtoe primary energy savings per year by 2020.
- 320 Mt CO₂ equiv. greenhouse gas emission reduction.
- Savings of around € 500 per household per year.
- € 55 billion extra revenue for industry, wholesale and retail sector.

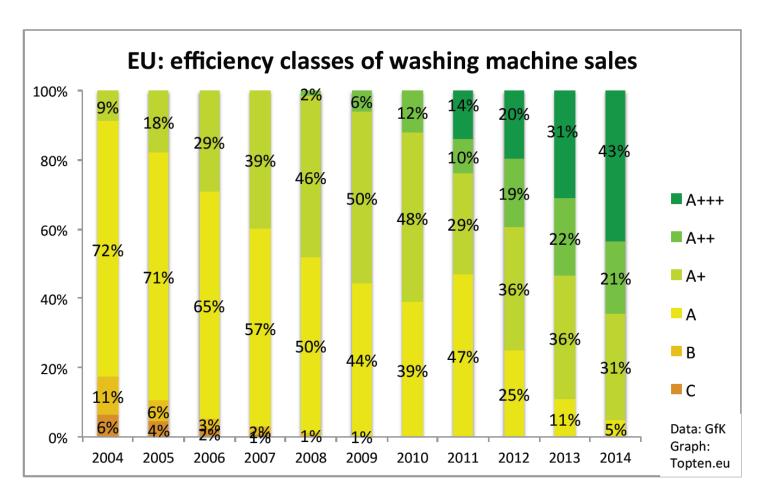


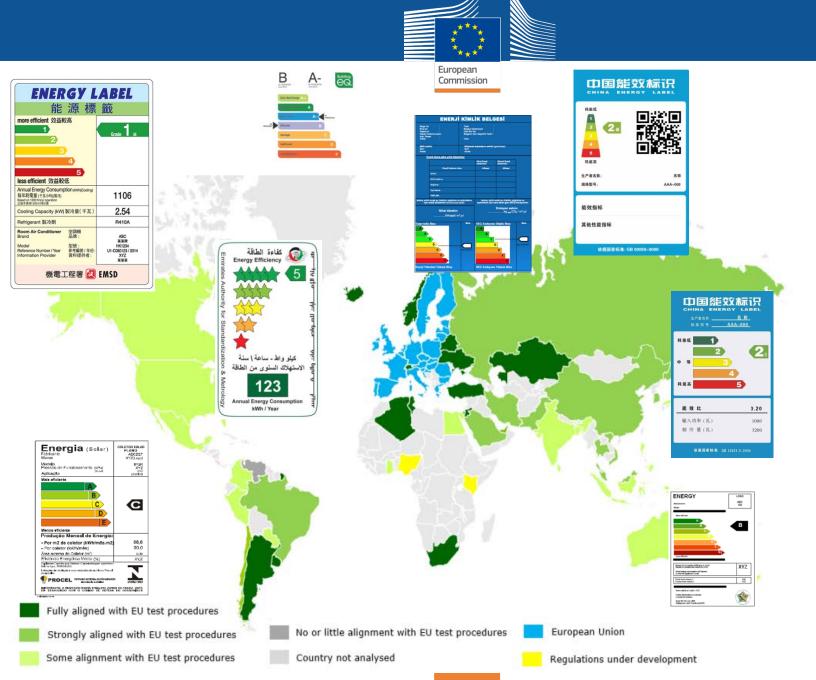
Market transformation





Market transformation





TV



Air conditioners



Washing machines





Ecodesign (Directive 2009/125/EC)

Setting of mandatory requirements for energyrelated products to improve their environmental performance.





Criteria for action

What products?

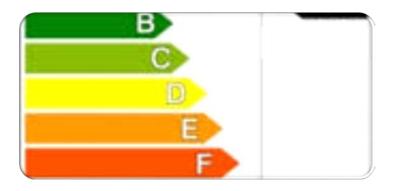
No (significant) negative impact on a series of requirements.





Energy Label (Directive 2010/30/EU)

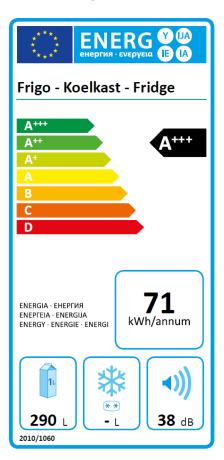
Sets mandatory labelling requirements for energy-related products to enable consumers to make informed choices.



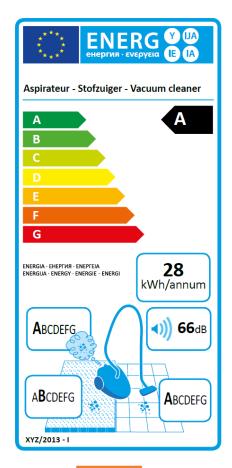


Energy Labelling – Examples

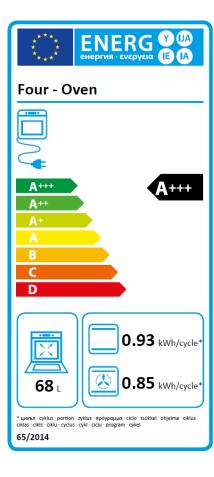
Refrigerators



Vacuum cleaners



Ovens





Measures in place

29 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	Air-conditioning products and comfort fans
547/2012	Water pumps
932/2012	Household tumble driers
1194/2012	Directional lamps
548/2014	Power transformers
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
1253/2014	Ventilation units
2015/1095	Professional refrigeration
2015/1185	Solid fuel local space heaters
2015/1188	Local space heaters
2015/1189	Solid fuel boilers
2016/2281	Air heating and cooling products, process chillers

16 Energy labelling Regulations

1059/2010	Household dishwashers
1060/2010	Household refrigerating appliances
1061/2010	Household washing machines
1062/2010	Televisions
626/2011	Air conditioners
392/2012	Household tumble driers
874/2012	Electrical lamps and luminaires
665/2013	Vacuum cleaners
811/2013	Space heaters
812/2013	Water heaters & storage tanks
65/2014	Domestic ovens, hobs and range hoods
518/2014	Internet energy labelling
1254/2014	Residential ventilation units
2015/1094	Professional refrigeration
2015/1186	Local space heaters
2015/1187	Solid fuel boilers

3 Voluntary agreements

COM (2012) 684 Complex set top boxes COM (2013) 23 Imaging equipment COM (2015) 178 Game consoles



Main ongoing activities

- Review Energy Labelling Directive
- Review Energy Star agreement
- Review tyre labelling regulation
- Review of several implementing measures

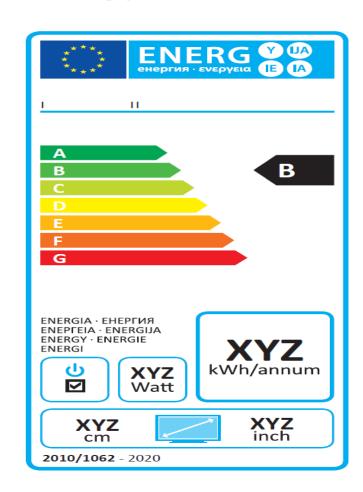


Commission proposal energy label (I)

Effectiveness.

Limit confusion.

Limit costs.





Commission proposal energy label (II)

- Rescaling
- Database
- Working plan and consultation forum
- Delegated acts





Product registration database

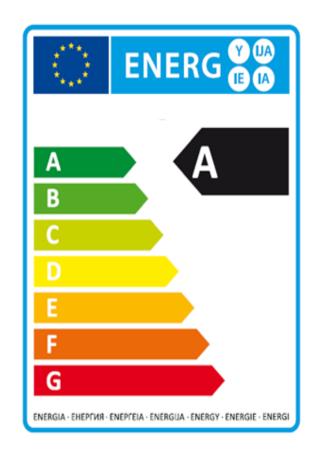
- Registration of label and compliance information.
- Direct access for authorities.
- Direct access for consumers.



Commission proposal energy label (III)

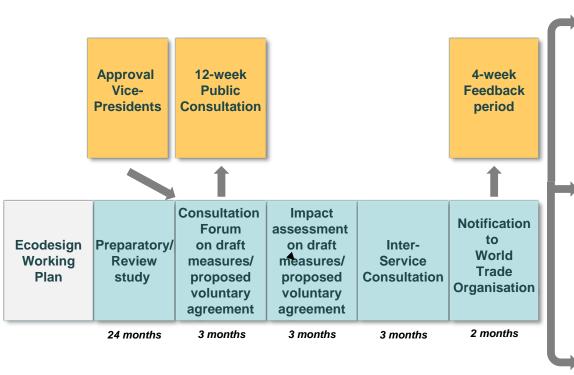
Recent and future steps

- Vote in Parliament
- Vote in Council
- Adoption on 26 June 2017
- Publication
- Entry into force





Better Regulation



Voluntary Agreements procedure

Notify Voluntary
Agreement & European
Parliament & Council (no right of scrutiny)

Adoption by
European
Commission of Report & Agreement & Letter to signatories

2 months 2 months 1 month

Ecodesign (implementing acts) procedure

Scrutiny by Regulatory **Publication** European Adoption by Committee in the **Parliament** European (discussion Official Commission and vote) Journal Council 2 months 1 month 1 month 3 months

Energy Labelling (delegated acts) procedure

Expert Group
Member
States
(discussion)

Adoption by
European
Commission

Objection European Parliament & Council

Publication in the Official Journal

2 months 1 month 2 (+2

2 (+2) months 1 month



Ecodesign Working Plan 2016-2019

New measures under development

- Electronic displays (review of televisions)
- · Commercial refrigeration
- Compressors
- Windows
- Welding equipment
- · Professional washing machines, dryers and dishwashers
- Enterprise servers
- Water-related products (taps and showers)

Products under study

- Smart appliances
- Lighting controls/systems
- Uninterruptible power supplies

New products to be studied

- Building Automation and Control Systems
- Electric kettles
- Hand dryers
- Lifts
- Solar panels and inverters
- Refrigerated containers
- High-pressure cleaners

Measures under review/to be reviewed

- External power supplies
- Electric motors
- Fans
- Lighting products
- Household refrigerating appliances
- Household dishwashers
- Household washing machines
- Standby and off mode electric power consumption of electrical and electronic household and office equipment
- Water pumps
- Computers and computer servers
- Circulators
- Air conditioners and comfort fans
- Transformers
- · Household tumble driers
- Vacuum cleaners
- Space and water heaters
- Local space heaters
- Ventilation units

Voluntary agreements under development

Machine tools



Energy Star

- Voluntary.
- EU programme based on international agreement with USA.
- EU Scope.
- Dynamic enhancement of specifications.
- Evaluation of programme.





Tyre labelling

Fuel efficiency (rolling resistance)

 Reduce fuel consumption and related pollutants emissions.

 Fuel savings between 2.4 and 6.6 Mtoe at EU level in 2020.

72 dB 1222/2009 - C1

External Rolling Noise

Wet Grip



Further information (I)

Products on Europa (including products pages)
http://ec.europa.eu/energy/en/topics/energy-efficient-products

List of ecodesign measures:

https://ec.europa.eu/energy/sites/ener/files/documents/list _of_ecodesign_measures.pdf

List of energy labelling measures:

https://ec.europa.eu/energy/sites/ener/files/documents/list
_of_enegy_labelling_measures.pdf



Further information (II)

"Energy Label Generator":

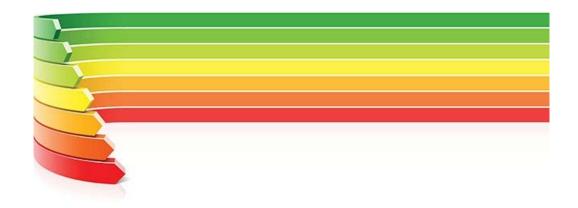
http://ec.europa.eu/energy/en/energy-labelling-tools

Market surveillance authorities in the Member States can be found here:

http://ec.europa.eu/growth/industry/sustainability/ecodesi
gn/



Many thanks for your attention



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Website: http://ec.europa.eu/energy/efficiency/index_en.htm