BASQUE ECODESIGN MEETING 2017

The Ecodesign Regulatory Framework in the EU

Cesar Santos - European Commission

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European Commission

State of play of the Ecodesign and Energy Labelling regulatory framework

- Implementing measures adopted since 2008:

  → 29 Ecodesign Regulations (products specific + standby)
  → 3 Ecodesign Voluntary Agreements
  → 16 Energy Labelling Regulations
  → Horizontal Regulation to tighten up verification tolerances

- Regulatory process adapted to the new Better Regulation Guidelines

- New Energy Labelling Regulation in force since 08/2017 + new product database

- Additional focus on material efficiency requirements

- Further implementation is facing considerable methodological challenges

Energy savings related to Ecodesign and Energy Labelling by 2020

EU Ecodesign Regulations

1275/2008	Standby and off mode electric power consumption
107/2009	Simple set-top boxes
244/2009	Non-directional household lamps (amended by 859/2009/EC)
245/2009	Fluorescent lamps without integrated ballast, high intensity discharge lamps, ballasts and luminaires (amended by 347/2010/EU)
278/2009	External power supplies
640/2009	Electric motors (amended by 4/2014/EU)
641/2009	Circulators (amended by 622/2012/EU)
642/2009	Televisions
643/2009	Household refrigerating appliances
1015/2010	Household washing machines
1016/2010	Household dishwashers
327/2011	Fans
206/2012	Air conditioning and comfort fans
547/2012	Water pumps
932/2012	Household tumble driers
1194/2012	Directional lamps, light emitting diode (LED) lamps and related equipment
617/2013	Computers and servers
666/2013	Vacuum cleaners
801/2013	Networked standby electric power consumption
813/2013	Space heaters
814/2013	Water heaters
66/2014	Domestic cooking appliances
548/2014	Power transformers
1253/2014	Ventilation units
1095/2015	Professional refrigeration
1188/2015	Local space heaters
1189/2015	Solid fuel boilers
1185/2015	Solid fuel local space heaters
2281/2016	Air heating products, cooling products, high temperature process chillers and fan coil units

EU 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
65/2014	Domestic cooking appliances (ovens and range hoods)
518/2014	Internet energy labelling
1254/2014	Domestic ventilation units
1094/2015	Professional refrigeration
1187/2015	Solid fuel boilers
1186/2015	Local space heaters

+

3 Voluntary Agreements

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

More information at: http://ec.europa.eu/growth/industry/sustainability/ecodesign/index_en.htm

Ecodesign WP 2016-2019 – New products

- Building Automation and Control Systems
- Electric kettles
- Hand dryers
- Lifts
- Solar panels and inverters
- Refrigerated containers
- High-pressure cleaners (only energy label)

+ study on ICT products (gateways, smartphones, base stations)

Ecodesign WP 2016-2019 – Ongoing work

- Commercial refrigeration
- Compressors
- Machine tools and welding equipment – Consultation Forum planned for October 2017
- Professional washing machines, dryers and dishwashers
- Enterprise servers, data storage equipment
- Water-related products
- Smart appliances
- Lighting controls/systems

Ecodesign WP 2016-2019 – Forthcoming reviews

- Televisions and electronic displays
- External power supplies
- Electric motors
- Fans
- Lighting products
- Domestic refrigerators and freezers
- Dishwashers and washing machines including combined washer-driers
- Standby … power consumption of electrical and electronic household and office equipment
- Water pumps
- Water heaters and hot water storage tanks
- Vacuum cleaners
- Computers and computer servers
- Circulators
- Air conditioners and comfort fans
- Transformers
- Tumble driers
- Solid fuel boilers
- Solid fuel local space heaters
- Space and water heaters
- Local space heaters
- Ventilation units

Put in another way, energy savings related to Ecodesign & Energy Labelling by 2030

Energy Savings

Existing Measures:
Energy savings equivalent to the primary annual energy consumption of Italy by 2020

New Measures:
Energy savings equivalent to the primary annual energy consumption of Sweden by 2030

Implications of the Circular Economy Package for the Ecodesign framework

- Fresh emphasis on requirements related to the circular economy, such as durability, recyclability, reusability, reparability, upgreadability, etc…

- Standardisation request to clarify terms, definitions, methods and metrics

- Reflection on how to streamline policies for sustainable products, i.e., Ecodesign, Energy Labelling, Ecolabel, Green Public Procurement, PEF.
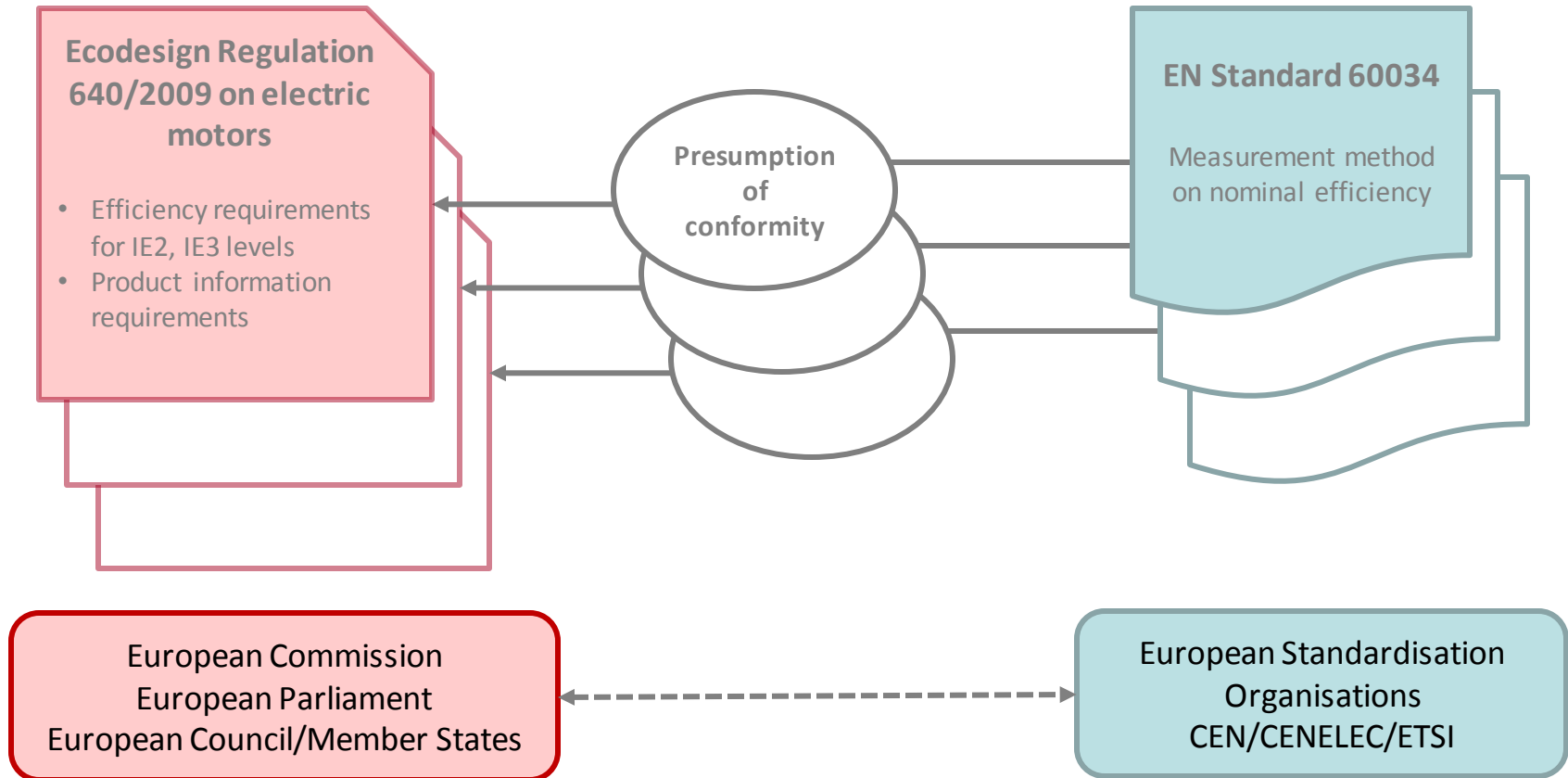
Overview of standardisation work on material efficiency under M/543

CEN and CENELEC have established a Joint Working Group 10 and mobilised more than 200 experts, grouped as follows:

- Project Team 1 - Terminology
- PT 2 - Durability
- PT 3 - Upgradability, Ability to repair, Facilitate Re-Use, Use or re-used components
- PT 4 - Ability to re-manufacture
- PT 5 - Recyclability, recoverability, RRR index, Recycling, Use of recycled materials
- PT 6 - Documentation and/or marking regarding information relating to material efficiency of the product

The ESOs will submit more than a dozen of standards and Technical Reports by 2019

How Regulations and EN standards fit together

Ecodesign Regulation 640/2009 on electric motors

- Efficiency requirements for IE2, IE3 levels
- Product information requirements

Presumption of conformity

EN Standard 60034

Measurement method on nominal efficiency

European Commission
European Parliament
European Council/Member States

European Standardisation Organisations
CEN/CENELEC/ETSI

- The use of EN harmonized standards provides presumption of conformity with legal requirements
- Economic operators may use other methods to provide conformity
- Manufacturers' self-declarations may use EN harmonized standards anywhere in the world
- Where possible, EN standards are in line with ISO/IEC international standards

Typical environmental requirements in Ecodesign

- Energy performance / Energy efficiency (e.g., motors, transformers, vacuum cleaners, fridges, etc…)
- Standby / network standby

- Water consumption (e.g., washing machines, dishwashers)
- Noise emissions (e.g., vacuum cleaners, air conditioning)

- NOx emissions (e.g., heaters)
- CO emissions (e.g., solid fuel heaters)

- Minimum lifetime of lamps, vacuum cleaners

- Non-recycled mercury and lead in lamps and televisions
- High global warming potential refrigerant content in air conditioners

- Facilitating disassembly (e.g., vacuum cleaners, circulators, electric motors, fans, water pumps, space and water heaters, etc…)

- Availability of spare parts

Implementation challenges

- Legal and methodological limitations to regulate systems and services

- Enforceability of circular economy requirements

- Premature obsolescence

- Market speed of ICT products

- Connectivity, Internet of Things

For more information

- **http://ec.europa.eu/growth/industry/sustainability/ecodesign/index_en.htm**

- **http://ec.europa.eu/energy/en/topics/energy-efficiency/energy-efficient-products**

- **GROW-ECODESIGN@ec.europa.eu**