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Climate Change

Ecodesign and Energy Labelling Update

Energy-using Products Stakeholder Meeting

Broadway House, London

12 November 2015



- Review of the Energy Labelling Directive
- Recent and expected developments on products
- Commission work plan for 2015-17
- Compliance activities
- Energy Technology List / ECA Scheme
- International activities
- EU Circular Economy



Review of Labelling Directive

- Commission has reviewed the labelling directive
- Proposals published in July 2015
 - Directive becomes a Regulation.
 - Revert to 'A' to 'G'
 - Blank classes at the top. Remove classes from bottom of the label
 - Commission empowered to create a database of products:
 - Manufacturers must register products before placing them on the market
 - Information for Consumers eg label class of each model
 - Technical information for market surveillance authorities
- Current state of play/process
 - Member States have finished Working Group discussion
 - Should be agreed by mid 2016
 - Takes effect from 1 January 2017

Standards and labels agreed by October 2015



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- Circulators
- Electric motors
- Fans
- Domestic lighting
- Tertiary lighting
- Domestic refrigeration
- Domestic dishwashers
- Tumble driers
- Pumps
- LEDs and directional lighting
- Luminaires
- External power supplies
- Standby and off-mode losses
- Network standby
- Domestic washing machines
- Televisions
- Simple set top boxes
- Aircon & comfort fans
- Boilers
- Water heaters
- Computers
- Vacuum cleaners
- Ovens, hobs and cooker hoods
- Local space heaters
- Solid Fuel boilers
- Solid fuel local space heaters
- Ventilation products
- Distribution transformers
- Professional refrigeration

Black = MEPS only ; Red = MEPS & label

Recent developments (1)



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- Local Space heaters
 - Ecodesign and energy label requirements published in July
 - Standards take effect in January 2018
 - Labels from 1/1/18, 1/1/22 for “solid fuel”
- Solid fuel boilers
 - Ecodesign and energy label requirements published in July
 - Standards take effect 1/1/20
 - Labels required for boilers and packages from 1/1/17
- Solid fuel local space heaters
 - Ecodesign regulations and labels published in OJEU in July
 - Standards take effect in January 2022



- Professional refrigeration
 - Ecodesign and energy label requirements published in July
 - Standards take effect from 1 July 2016
 - Labels required from 1 July 2016
- Lighting
 - Stage 6 non directional delayed from 2016 to 2018. UK voted against this.
 - Stage 3 directional not amended
- Air heating products, cooling products and high temp chillers (lot 21)
 - Draft sent to WTO in August and expecting RC December.
- Games Consoles voluntary agreement



Ecodesign (reg no)

- Transformers (548/2014) 1 July 2015
- Boilers/ space heaters (813/2013) 26 Sept 2015
- Water heaters (814/2013) 26 Sept 2015
- Ventilation products (2153/2014) 1 January 2016

Labelling (reg no)

- Boilers/ space heaters (811/2013) 26 Sep 2015
- Water heaters (812/2013) 26 Sep 2015
- Ventilation products (1254/2014) 1 January 2016

Commission's work plans to 2014



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Still to come from existing plans

- Commercial refrigeration
- Warm air central heating products
- Professional 'wet'
- Motors} – existing scope of
- Pumps} regulations extended
- Compressors
- Mains wiring
- Smart appliances
- Uninterruptible power supplies
- Reviews -'cold', 'wet', lighting, TVs, External Power Supplies
- Enterprises' servers
- Steam boilers (<50MW)
- Positive displacement pumps
- Motors < 200W
- Heating controls
- Lighting controls
- Taps and showers
- Windows
- Not expecting action on machines tools, thermal insulation, large industrial furnaces



Expected next steps

- Windows (label) - CF 30 September; may not proceed ?
- TVs and displays (monitors) – RC early 2016
- Commercial Refrigeration RC - early 2016
- Motors, ISC 1st quarter 2015, vote 2016
- Compressors, CF 3rd quarter 2015
- External Power supplies – early 2016 ?
- Machine tools - way forward yet to be confirmed
- Furnaces, way forward yet to be confirmed
- “Tolerances” – early 2016
- Professional ‘wet’ – on hold

CF = Consultation Forum

ISC = Commission’s internal inter-service consultation

RC = Regulatory Committee



Commission work plan 2015-17

- Commission is developing its plan for ecodesign and energy labelling for 2015-2017.
- Progress on previous work plans has been slower than anticipated
 - Work still ongoing on 2009-11 plan and starting on 2012-14 plan
- We want to see a plan that
 - Clears the backlog of ‘new’ products
 - Assesses the remaining untapped potential for products already regulated against the potential for those not looked at yet, and works on those offering the best savings
- NB many products coming to review stage: it is likely that non-energy benefits such as materials impacts will be addressed, as well or, or even instead of, further energy benefits
- Work to date has focussed on energy-using products with little on energy-related products
- Expect plan to be published as part of the ‘circular economy’ package



Candidate products include

- Base stations
 - Greenhouse covers
 - Hand driers
 - Hot food vending machines
 - Smartphones
 - Kettles
 - Lifts
 - Networking gateways
 - Pressure washers
 - Hair driers
 - PV inverters
 - Refrigerated containers
 - Signage displays
 - Toasters
-
- Building automation control systems in non-residential buildings



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Compliance Activities

European Ecodesign Compliance Project



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Summary

- ECOPLIANT - 3 Year Project (2012 - 2015)
- 10 Member States

Objective

Deliver economic and environmental benefits of the Ecodesign Directive through increased levels of compliance across the Single Market

- Understand and remove obstacles to coordinated and effective market surveillance in EEA countries.
- Establish 'good' practices for coordinated and resource efficient monitoring, verification and enforcement across the EEA.
- Pilot database.

European Ecodesign Compliance Project

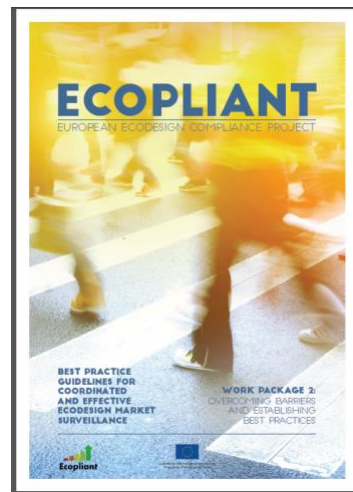


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Key Recommendation

- EEPLIANT project financed under the Horizon 2020 programme brings together 13 MSAs to continue with the adoption and expansion of 'Best Practices' programme for market surveillance authorities and the pilot database.

Best Practice Guideline



Final Project Report



ECOPLIANT: <http://www.ecoplant.eu/>



'Defeat devices'

- VW admits 'cheating' on diesel emissions – use of 'defeat' devices
- Impacts reverberating into energy labelling and ecodesign
 - Claims of similar things in Samsung TVs
 - Dyson taking Bosch and Siemens to court in Netherlands and Belgium, alleging use of defeat devices in specified vacuum cleaners
 - Issue raised at the ADCO of MSAs
 - Recognise that this could be an issue
 - MSAs will push the message that such devices are unacceptable
 - Recognition that things may get harder as smart appliances become more common...
 - But we need to separate the use of defeat devices from the fact that lab standards used to test compliance are not fully reflective of 'real world use'



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Energy Technology List

Energy Technology List / ECA



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- EUP team took on responsibility for the ETL in October 2014
- ETL is a list of ~17,000 products for commerce & industry that qualify for Enhanced Capital Allowances
- Products must fall within generic 'plant and machinery' categories
- Qualification criteria set to cover best ~25% of products in a category
- Complements energy labelling
- ETL also used by business and public sector (e.g. GBS) as an aid to procurement of the best performers
- We are scoping a 'call for evidence' to improve our understanding of stakeholder perceptions around the ETL

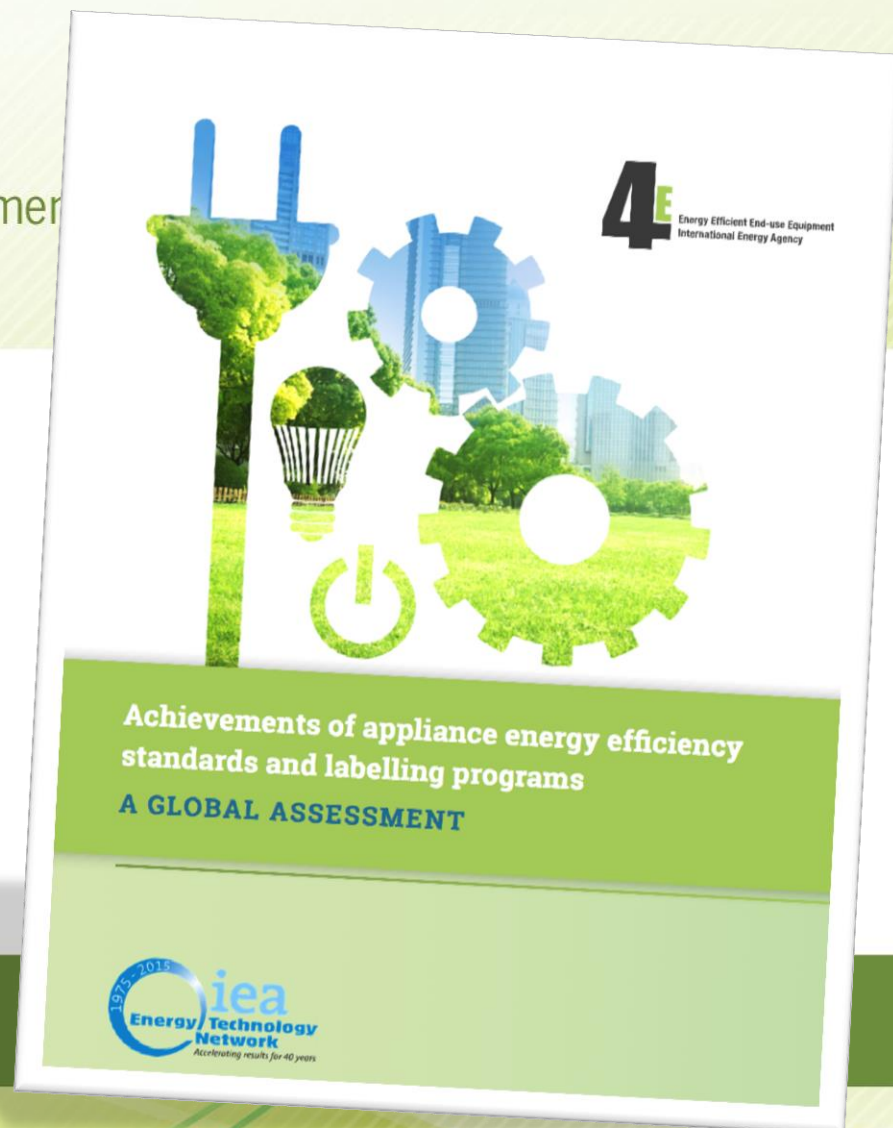




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International Activities

4^E IEA Implementing Agreement Efficient Electrical End-Use Equipment



www.iea-4e.org



Achievements of EESL programs

- Report provides an authoritative summary of **past achievements** of national energy efficiency standards and labelling (EESL) programs for **appliances & equipment**.
- EESL programs include:
 - Minimum energy performance standards (MEPS)
 - Mandatory comparison labels (usually stars or numbers)
 - Endorsement labels (the best in class)
- EESL programs operate in >80 countries, covering >50 different types of equipment in all sectors.
- They provide the cornerstone of most national energy efficiency and climate change mitigation programs.



- 100 billion networked devices by 2030. Consuming more than 6% of current total final global electricity consumption.
- Uptake of best available technologies could reduce energy demand by up to 65%
- Huge opportunity for energy savings in devices and networks while also delivering increased energy productivity across all sectors
- Global value chain requires global response from governments and industry
- Video at <http://edna.iea-4e.org/cda>



- Launch of **Connected Devices Alliance**: network of 300 participants in key sectors – including 19 governments
- Dialogue between industry and government representatives have included 3 workshops & 26 teleconferences
- 7 key projects initiated, towards a common goal:

Maximise network-enabled energy savings and minimise the energy consumption from all networks and network-connected devices



- Key initiatives launched 2015:
 - A set of global **Definitions** to underpin the development of policies and initiatives
 - Voluntary **Design Principles** for the design and operation of connected devices
 - Voluntary **Policy Principles** to encourage a common global framework
 - **Centre of Excellence** to promote best practice
 - Development of **Awards** to recognise significant achievements



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EU CIRCULAR ECONOMY PACKAGE

**Presentation to Energy using Products Stakeholder
Event**

Clare Southworth, Defra
12 November 2015

The Story so Far

- Original package published in July 2014, but withdrawn later that year.
- Commitment to replace it with a ‘more ambitious’ package covering the whole circular economy by the end of 2015.
- Original Communication included a commitment to *“further develop the application of the Ecodesign Directive by paying further attention to resource efficiency criteria, including for the future priority product groups in the 2015-2017 Work Plan”*.

UK engagement

- Three consultations in Summer 2015:
 - Public consultation on Circular Economy
 - Public consultation on functioning of waste markets
 - MS only consultation
- UK Government responses available at:
<https://www.gov.uk/government/publications/circular-economy-and-waste-markets-uk-government-response-to-european-commission-consultations>



Next steps

- Publication of revised package (expected early December)
- Publication of Ecodesign work plan for 2015-17
- Revised mandate on material efficiency standards



Questions ?