

EU SUSTAINABLE ENERGY WEEK



11. PROSPECTS OF LEGISLATIVE DEVELOPMENTS; UNLOCKING THE POWER OF MARKET SURVEILLANCE

**The big challenges faced by market surveillance
authorities that can be overcome by new policy
changes**

Tim Stokes, SEAI, Programme Manager

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A LITTLE BIT ABOUT SEAI...

SEAI's Market Surveillance Programme

Ecodesign

Energy
labelling

Tyre
labelling

- Ireland's national energy authority
- Assigned market surveillance function in 2016



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CHALLENGE 1: SCALE OF TASK V RESOURCES

Costs of verifying compliance

Benefits of our work



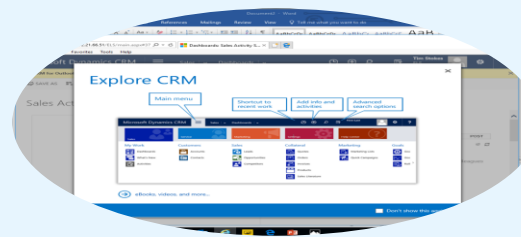
Laboratory testing



Information overload



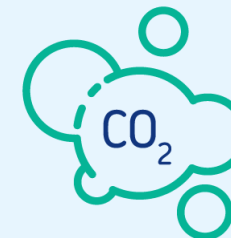
Opportunity to recoup costs



IT solutions



Value of energy saved



GHG emissions reduction



Level playing field



Benefits to society

Improve efficiency to reduce costs

Better demonstrate value to secure resources

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PROSAFE
Joint Actions
Best Practice



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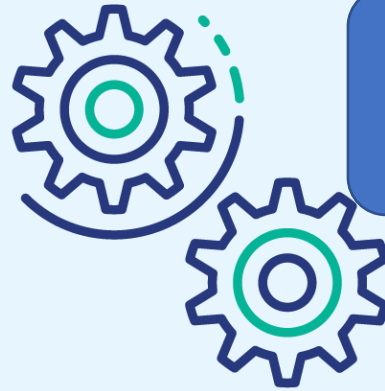
CHALLENGE 2: COOPERATION

Nationally

Different MSAs for different Directives



Internationally



ADCO
ICSMS
EU projects

With stakeholders

Absolutely vital -
Multiplies resources
and impact



Information sharing + working together

Enforcement challenges across national boundaries

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OVERCOMING THE CHALLENGES

- Proposed new regulation on compliance and enforcement (2017 / 0353 (COD))
- Joint actions (e.g. Horizon 2020 projects)
- Initiatives of market surveillance organisations to improve market surveillance

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THANK YOU

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11. PROSPECTS OF LEGISLATIVE DEVELOPMENTS; UNLOCKING THE POWER OF MARKET SURVEILLANCE

Mobilising market surveillance and using IT to build capacity and tackle the challenges imposed by the Energy Labelling and Ecodesign regulations.

Chris Evans, PROSAFE, Senior Programme Manager.

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PRODUCT SAFETY FORUM OF EUROPE



- Not-for-profit NGO, founded in 1990 to enhance *co-operation* between Market Surveillance Authorities and their officers in Europe.
- Mission: to improve the *safety of products* and product related *services*, and the *compliance with the EU legislation*.
- 2006 – 2017 : **58 products, in 24 Joint Actions**
: > **€26m EU funding**
- Participants: **all EU Member States and 2 eligible EFTA Member States**
- Focus: **100% on Market surveillance cooperation**
- Energy programmes: **EEPLIANT1, EEPLIANT2, MSTyr15.**

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INTRODUCTION TO THE SPEAKER

CHRIS EVANS

Co-developer of trans-EU market surveillance programmes:

- ATLETE1 2009-2011
- ECOPLIANT 2012-2015
- EEPLIANT1 2015-2017
- MSTYr15 2016-2018
- EEPLIANT2 2017-2020
- EEPLIANT3 (under development) expected 2019-2023

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MOBILISING MARKET SURVEILLANCE

- Keys to mobilisation...
- Funding
- Access to, and sharing of, data
- Joint actions i.e. collaborative programmes motivating the authorities responsible for enforcement of Energy Labelling and Eco-design regulations to work together

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ACCESS TO AND SHARING OF DATA THROUGH USING IT

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ACCESS TO AND SHARING OF DATA THROUGH USING IT

- We already have the “backend” – EC’s internet-supported *Information and Communication System for the pan-European Market Surveillance* (ICSMS)

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ACCESS TO AND SHARING OF DATA THROUGH USING IT

- We already have the “backend” – EC’s internet-supported *Information and Communication System for the pan-European Market Surveillance* (ICSMS)
- We have a “frontend” coming next year- *European Product Registry for Energy Labelling* (EPREL)

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EC SUPPLIED IT - 2019



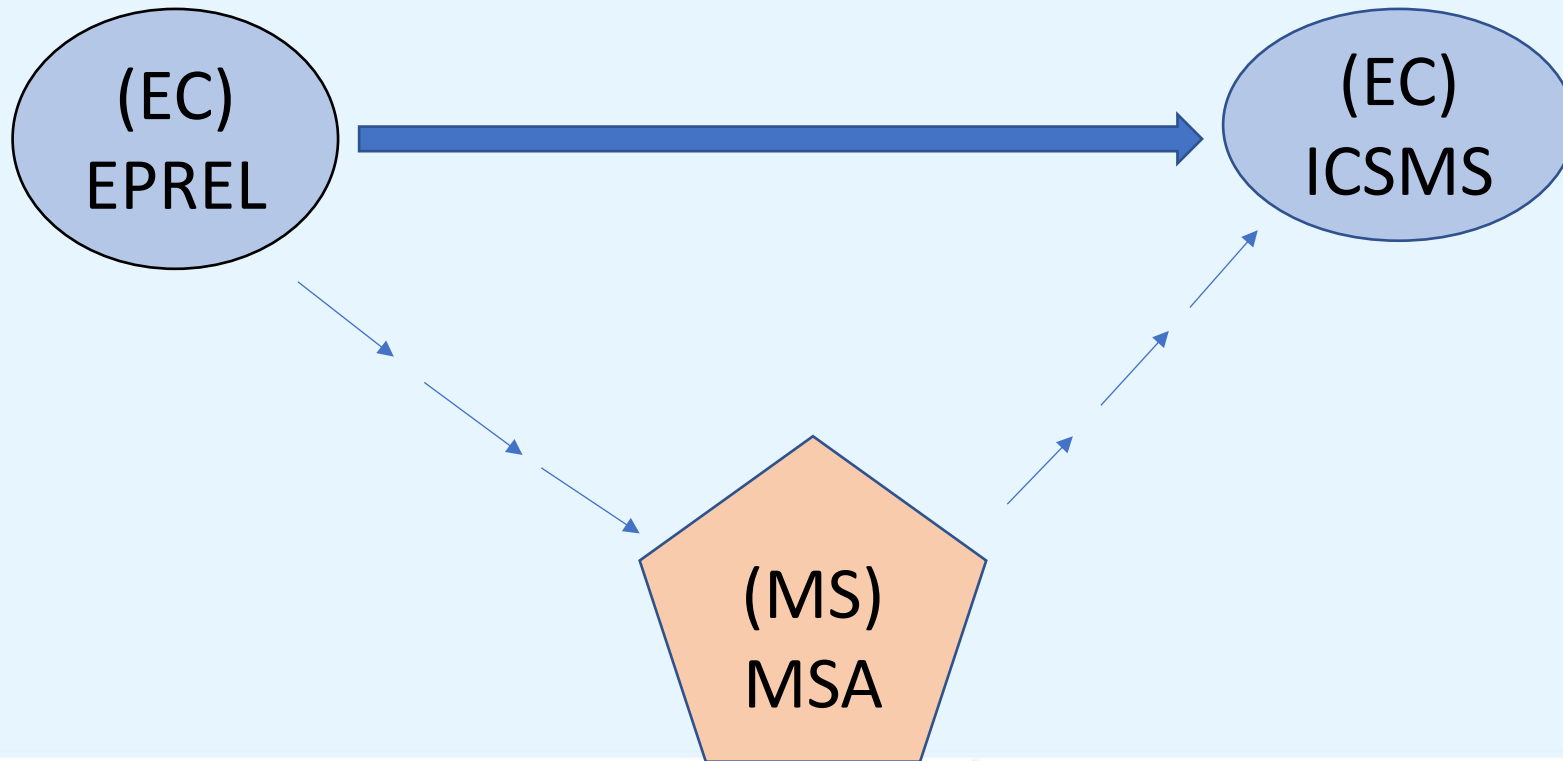
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ACCESS TO AND SHARING OF DATA THROUGH USING IT

- *We already have the “backend” – EC’s internet-supported Information and Communication System for the pan-European Market Surveillance (ICSMS)*
- *We have a “frontend” coming next year- European Product Registry for Energy Labelling (EPREL)*
- We are developing market surveillance specific IT content to fill the middle space. Some initiatives have already started in individual MS, consolidation of these could be a focus in EEPLIANT3

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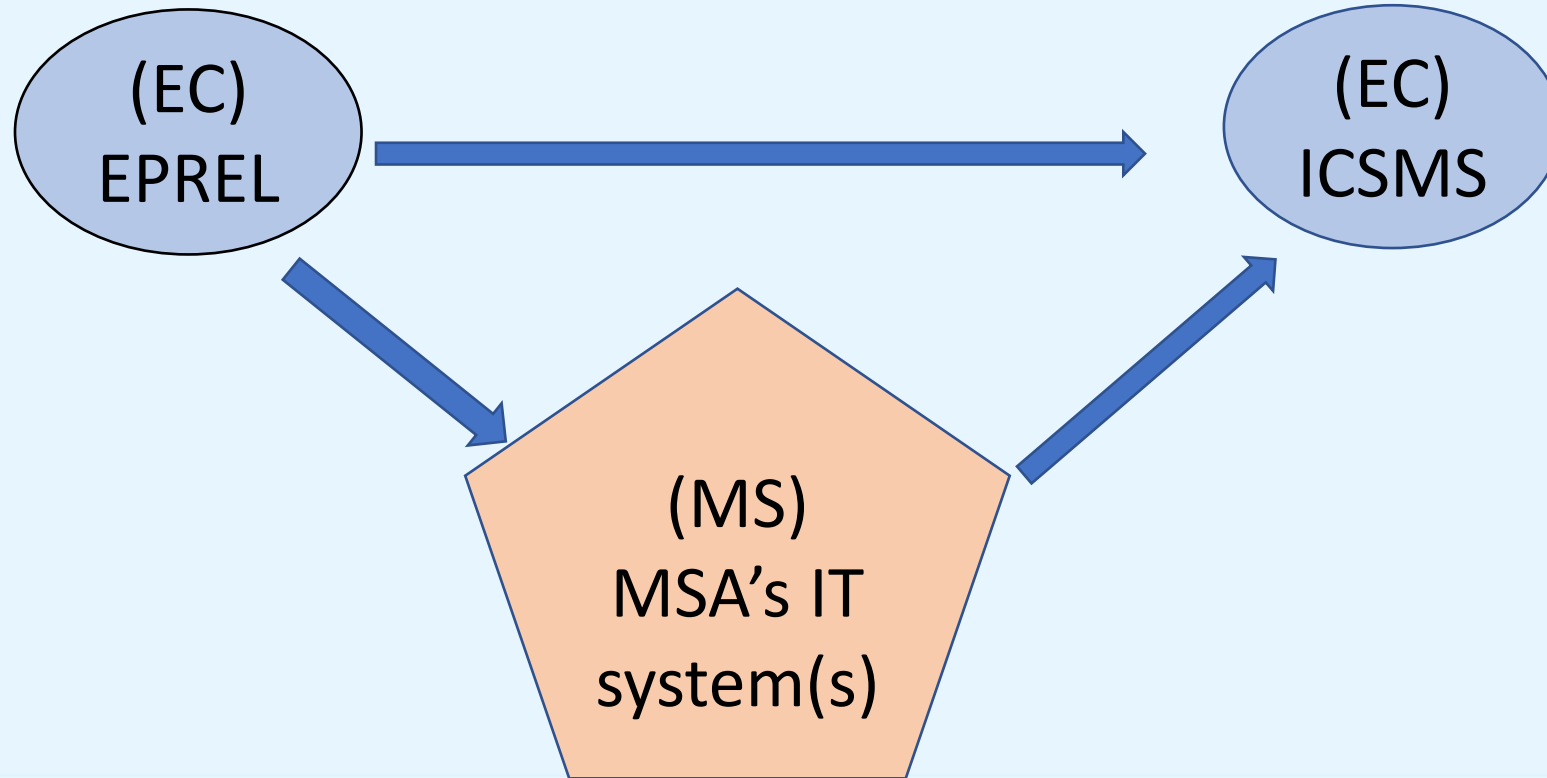
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SEMI-INTEGRATED EC & MSA SUPPLIED IT



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Mobilising market surveillance through collaborative activity

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AN EXAMPLE OF COLLABORATIVE ACTIVITY



Market Surveillance Authorities from 15 Member States working together over a 28 month period to:

- **Inspect and test products** subject to 8 different Energy labelling or Ecodesign regulations
- **Adopt shared good practices** leading to closer harmonisation of market surveillance activities across the EU
- **Take enforcement actions** where non-compliances have been detected
- **Build stakeholder confidence** in the effectiveness of market surveillance

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11. EU PRODUCT ENERGY EFFICIENCY LEGISLATION THE LATEST PROGRESS & THE IMPORTANCE OF COMPLIANCE

The future of the Ecodesign policy – challenges and opportunities.

Chloé Fayole, ECOS, Senior Programme Manager

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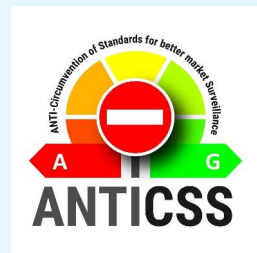
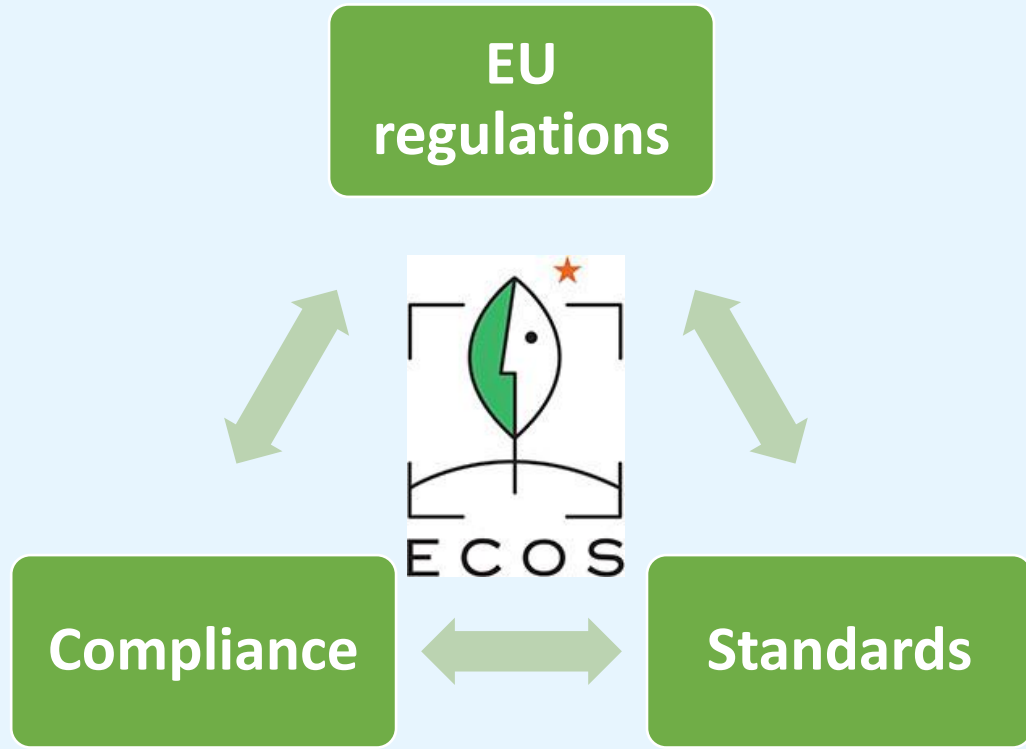
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ECOS ECODESIGN ACTIVITIES



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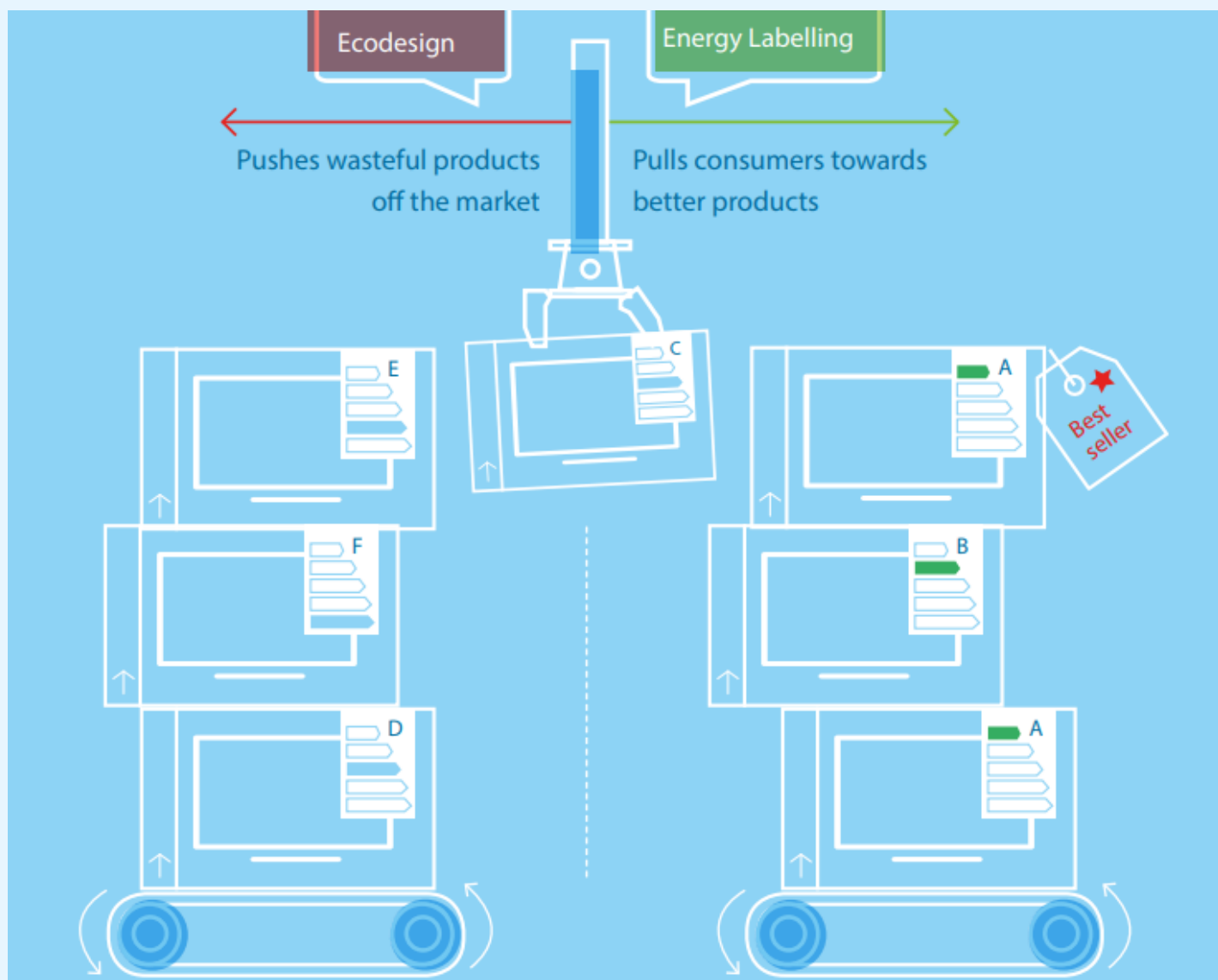
ECODESIGN & ENERGY LABELLING: A EUROPEAN SUCCESS

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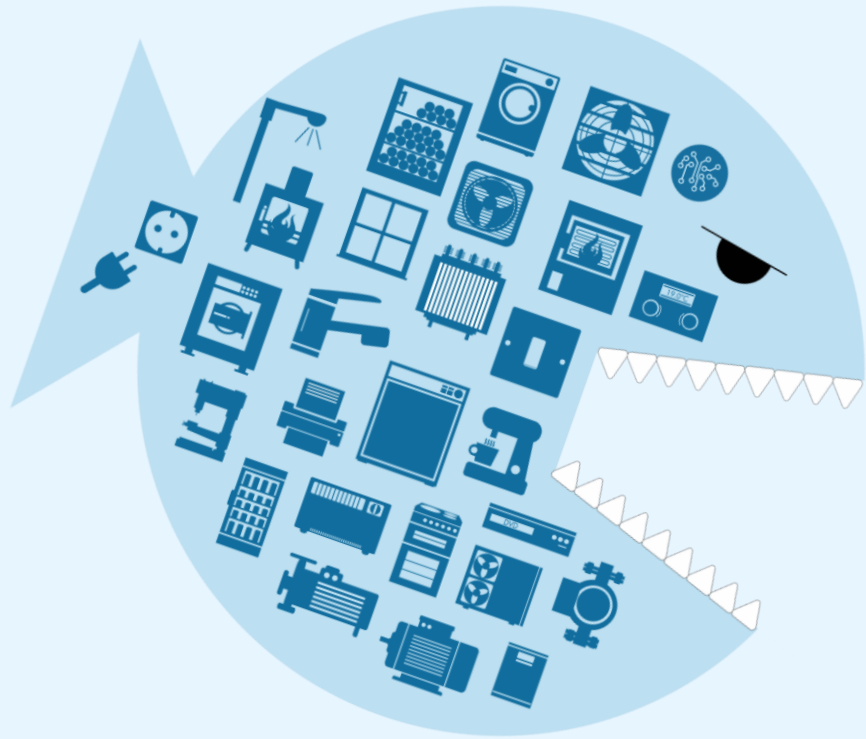
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ENERGY SAVINGS SO FAR



-175 million tons oil equivalent

~ **9%** of EU total energy consumption

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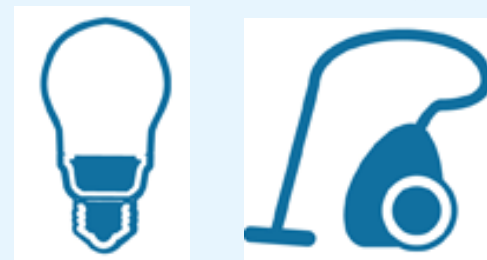
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BEYOND ENERGY

Water



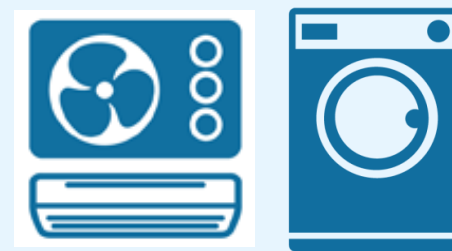
Durability



Air quality



Noise



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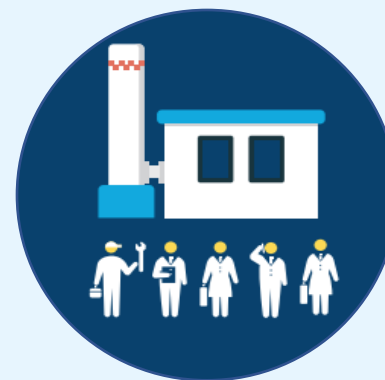
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ECONOMIC BENEFITS



- 490€/year
on household
energy bills



+55 billion
in annual revenues
by 2020



Reducing
imports equivalent to
65 million barrels of oil
each year

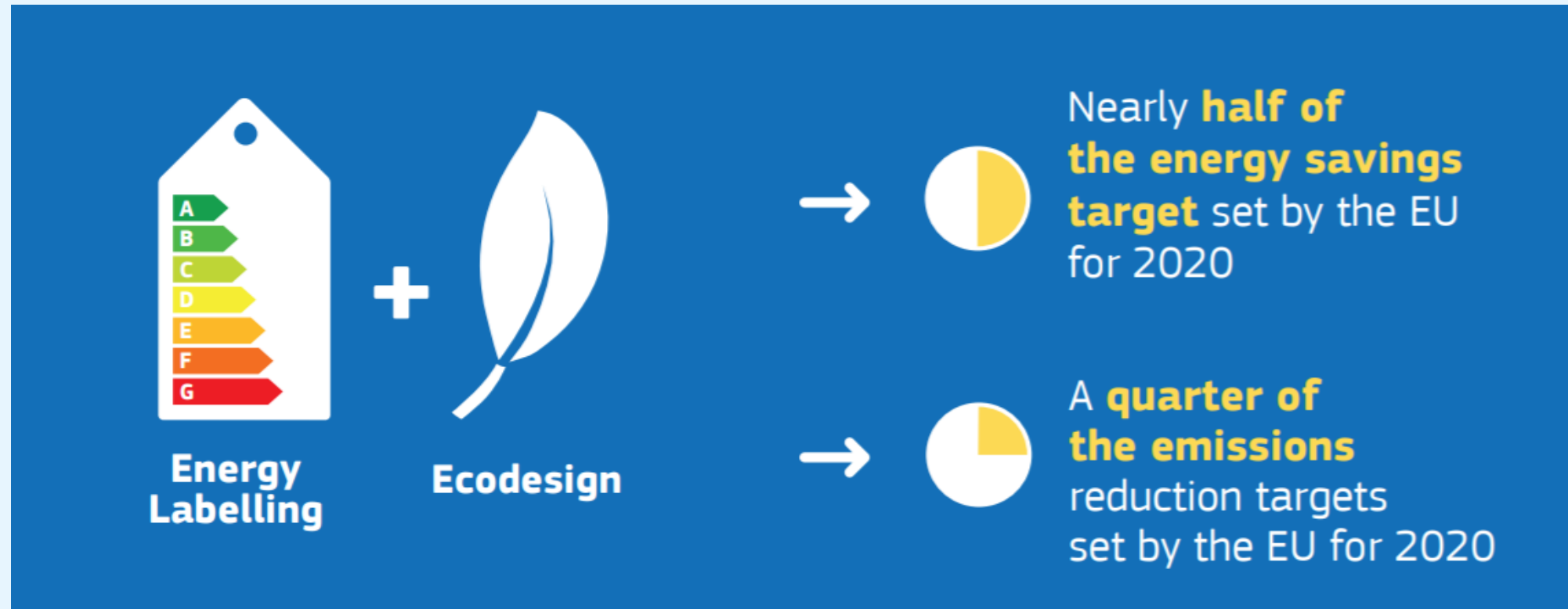
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2020 TARGETS



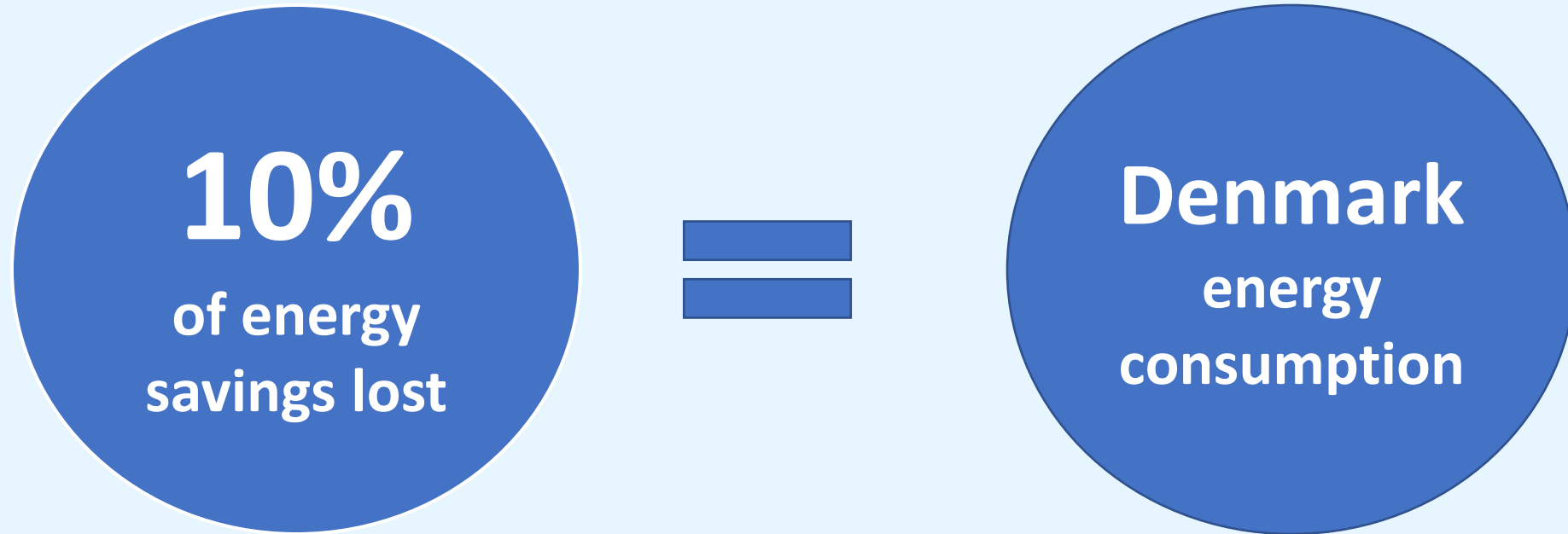
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NON COMPLIANCE:



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ECODESIGN & ENERGY LABELLING, THE ROAD AHEAD

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NEW PRODUCTS

- Domestic

Lighting, fridges,...

- Electronics

Displays, computers,...



- Industrial

Fans, transformers, motors,...

- Energy-related

Taps and showerhead, windows,...

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NEW PRODUCTS



- Domestic refrigeration review
- Domestic washing machines review
- Domestic dishwashers review
- Lighting regulations review
- TVs & Displays review

= 14 Ecodesign measures
= 6 Energy Labels

- Enterprise servers
- Commercial refrigeration
- Electric motors review
- Industrial fans review
- External power supplies
- Welding equipment
- Power transformers review
- Standby and networked standby review?
- Compressors?

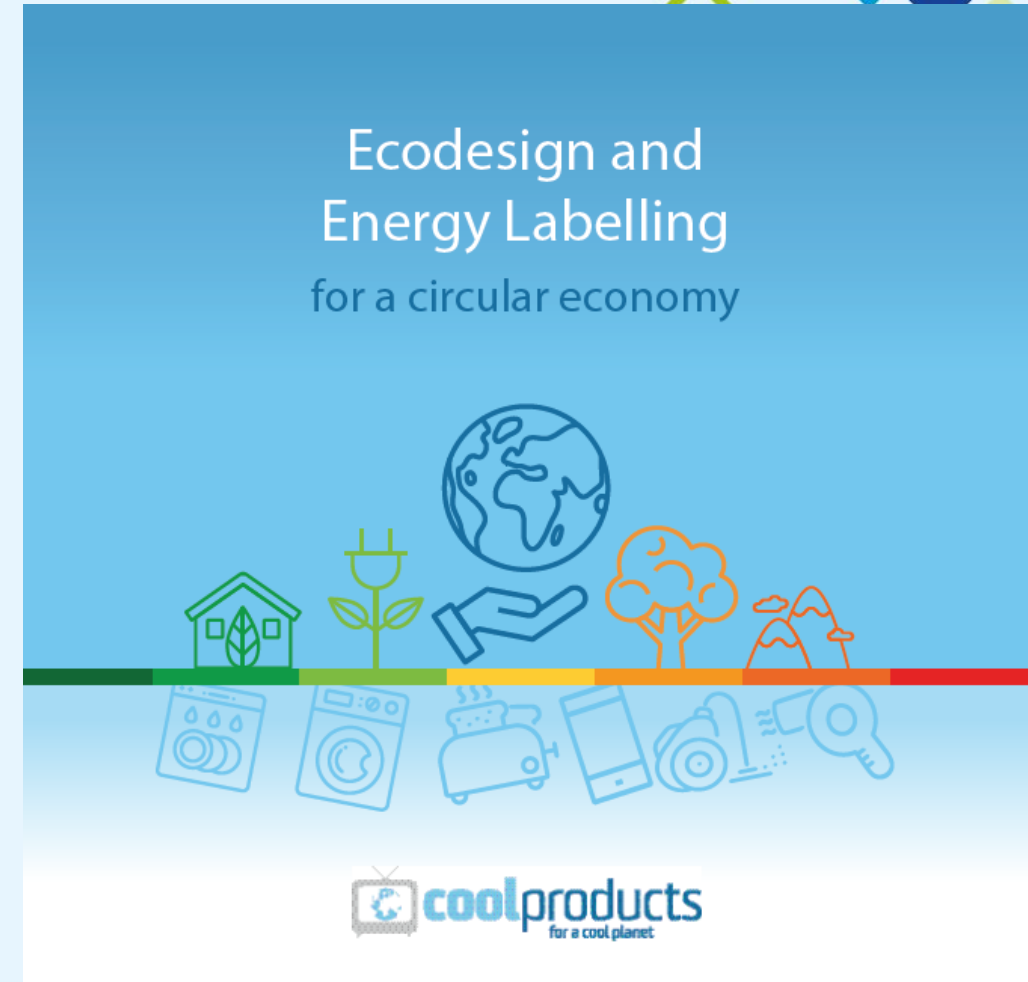
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NEW REQUIREMENTS

Energy
efficiency

Resource
efficiency



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NEW METHODS?

SAME SAME...

- Solid wording
- Experience

BUT DIFFERENT

- New timing
- New low-cost options
- Need for tailored sanctions

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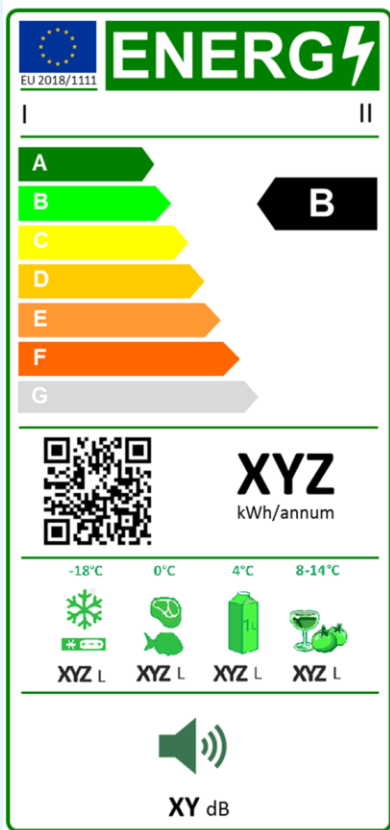
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NEW TOOLS: DATABASE

Operational from 1st January 2019

Potential beneficiaries:

- Member States
- Suppliers
- Public / Policy-makers



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(NOT NEW) CHALLENGES

- Increase market surveillance
- Secure high-level political support
- Communicate to citizens
- Swifter, ambitious implementation

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The importance of product compliance to achieving EU's energy efficiency goals.

5 June 2018

Energy Efficient Products & Market Surveillance

***Ronald PIERS DE RAVESCHOOT
Policy Officer
Energy Efficiency
Directorate General for Energy***





Content

I. Policy context

II. Achievements

III. Challenges for market surveillance



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I. Policy context

EU policy framework for energy efficiency

PRODUCTS

**Energy
Efficiency**
Directive
2012/27/EU

**Energy
Performance of
Buildings**
Directive 2010/31/EU

Being revised as part of the 'Clean energy for All
package'

**Energy
Labelling**
Regulation
2017/1369
(replacing Directive
2010/30/EU)



Ecodesign
Directive
2009/125/EC

Tyre 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.

How do we achieve energy efficiency in product design?

Combined effect ensures a dynamic improvement of the market:



Both regulations are «frameworks» defining the «rules» for setting product-specific requirements through Regulations.

Ecodesign Working Plan 2016-2019

(Part of the Clean Energy for All package)

Product groups:

- Ongoing work
- Reviews
- New product groups

Market surveillance:

- Continued support of ADCO group
- Dedicated joint surveillance actions (e.g. Eepliant)

Other: *Circular economy + international collaboration*

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	Airco 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
2015/1428	Lighting amendment (stage 6)

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

Voluntary agreements

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

Tyre labelling regulation

1222/2009/EC	Labelling of tyres with respect to fuel efficiency and other essential parameters
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Plan 2016-2019

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

New products for study

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

Measures under review

- 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
- Tyres

Voluntary agreements under development

- Machine tools

Package of measures under preparation (with possible adoption by the end of the year)

New measures

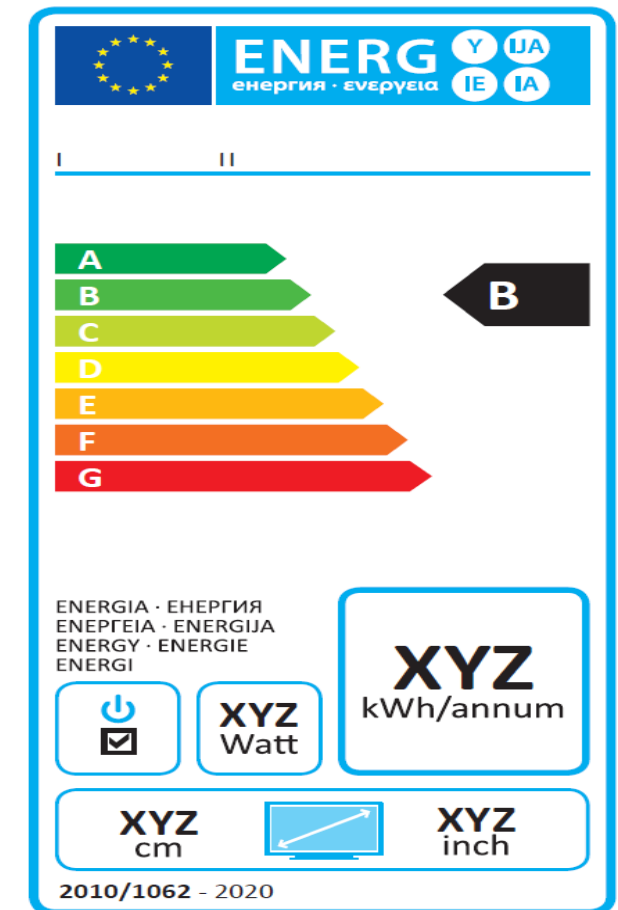
- Enterprise servers (ED)
- Welding equipment (ED)
- Commercial refrigeration (ED + EL)

Reviews

- Power transformers (ED)
- External power supplies (ED)
- Electric motors (ED)
- Industrial fans (ED)
- Domestic refrigeration fridges (ED + EL)
- Lighting (ED + EL)
- Washing machines (ED + EL)
- Dishwashers (ED + EL)
- Electronic displays and TVs (ED + EL)

New Energy Labelling Regulation

- » Adopted: 04/07/2017
- » Entry into force: 01/08/2017
- » Consumer studies show rescaling label back to A to G is most effective, long term solution than A+++
- » To limit confusion, labels on display in shops will be replaced from old to new in a short period
- » Database
 - Facilitate Market Surveillance
 - Inform customers
- » Inform consumers if software or firmware updates could reduce a product's energy efficiency
- » Bans the use of 'defeat devices', which alter a product's performance under test conditions





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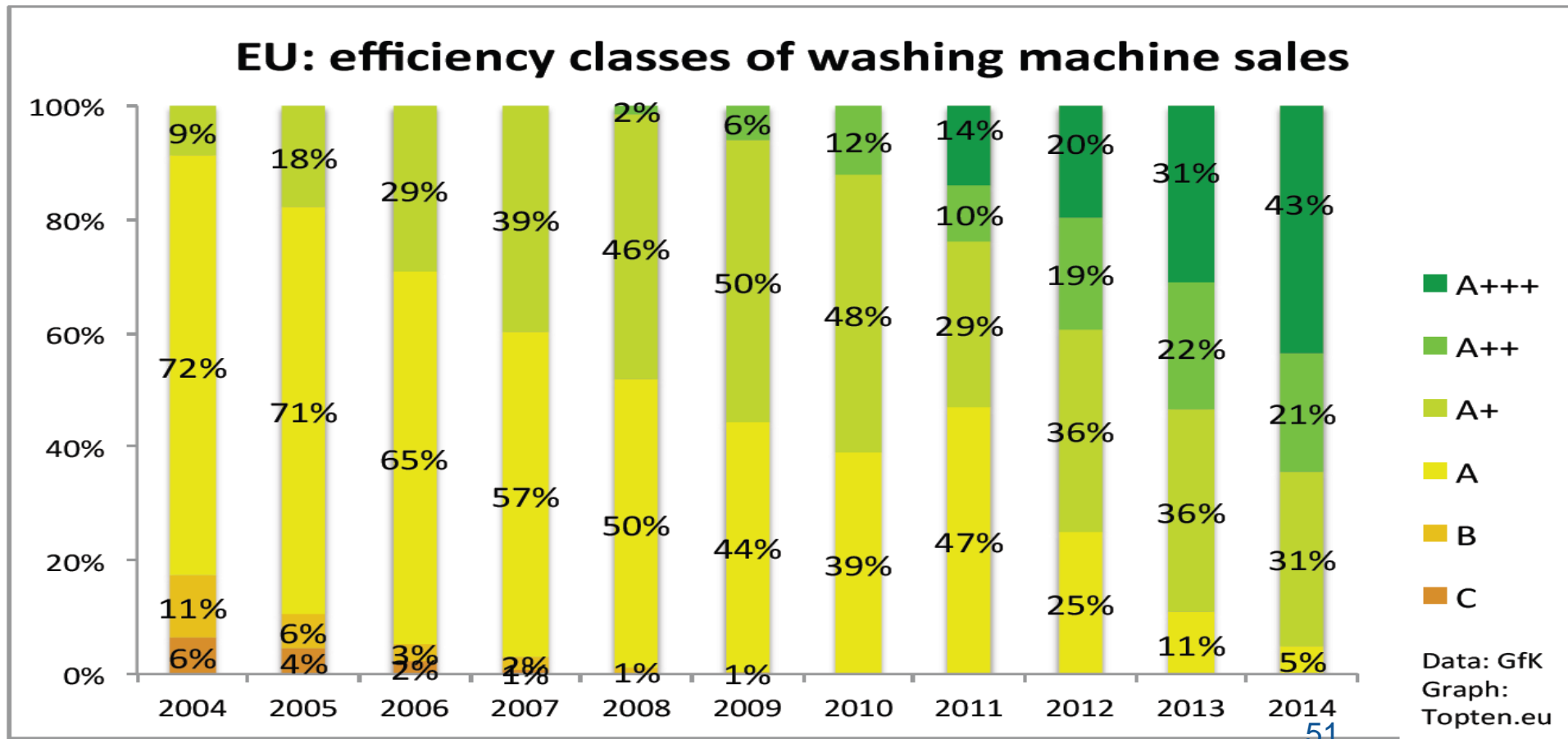
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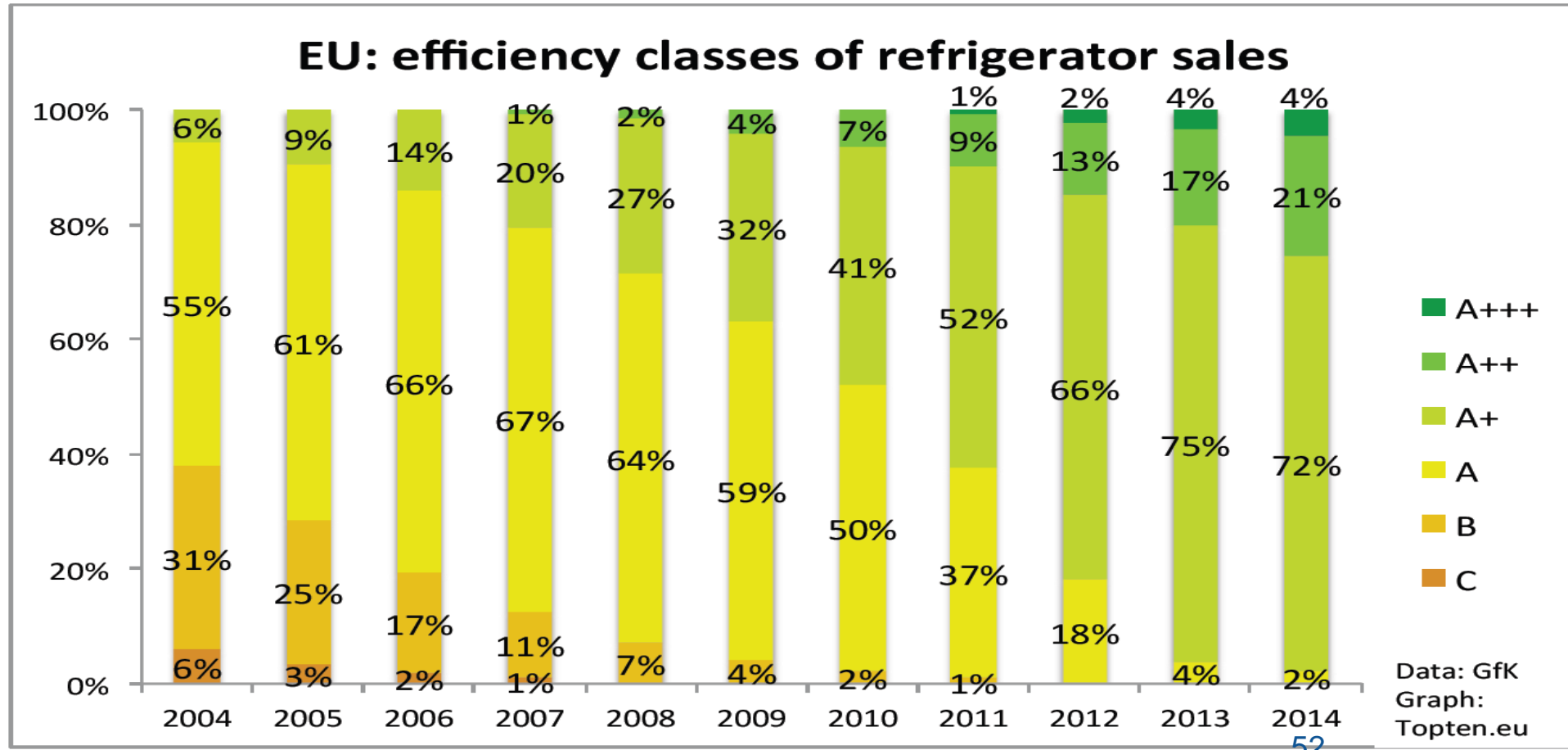
● **II. Achievements**

Ecodesign and Energy labelling - Results Achieved

- » Delivers close to **half of the 20% energy efficiency target** for 2020
- » 175 Mtoe primary energy savings per year by 2020, more than the annual primary energy consumption of Italy
- » 340 Mt CO₂ equivalent less greenhouse gas emissions, more than 7% of EU total emissions in 2010
- » € 102 billion net saving on consumer expenditure, equivalent to € 465 per household per year
- » € 55 billion extra revenue + 800.000 extra direct jobs for industry, wholesale and retail

Source: Impact accounting study (https://ec.europa.eu/energy/sites/ener/files/documents/2014_06_ecodesign_impact_accounting_part1.pdf)





● III. Market Surveillance



Enforcement

Market surveillance is the role of national authorities, it includes:

- Inspecting technical documentation
- Inspection of labels in shops and on the internet
- Random and/or risk based sampling
- Product testing
- Collaboration with customs
- Cooperation with other market surveillance authorities

Market surveillance regulation 765/2008

- Framework for market surveillance
- Applies to all Union harmonisation legislation on products
- Applies also to Ecodesign, Energy Labelling and Tyre Labelling

Level of Compliance

(Findings of the Review study and IA of ED/EL directives 2010-2015)

- » Around 0.6% of the market is surveyed
- » 10-25% of products estimated to be non-compliant with ecodesign requirements
- » 20% energy labels missing in shops
- » 10% less energy savings than envisaged
- » Weak enforcement by Member States
- » Cooperation between market surveillance authorities is limited

Market Surveillance (3)

The future:

- » Shift in focus from adding more regulations to improving, implementing and enforcing existing ones
- » More priority and resources at national level (?)
- » More collaboration on surveillance and enforcement:
 - EU-funded joint surveillance actions
 - Support to the AdCo - Administrative Cooperation Groups
 - Harmonised approaches (e.g. FAQ + Guidance documents)
 - Formal exchange of information via ICSMS
 - More sharing of 'scarce' resources (e.g. centres of excellence)
- » Energy labelling database to facilitate MSA work – maybe one day for Ecodesign too ?
- » Improved regulatory framework for additional powers and reinforced coordination (DG GROW proposal for a Compliance And Enforcement Regulation)



EU support - Market surveillance Joint Actions and implementation



Overview of latest projects:

- **EEPLIANT3** under preparation (2019-2023) - EUR 6 million
- **ANTICSS** (2018-2021): Anti-Circumvention of Standards for better market Surveillance
- **EEPLIANT2** (2017-2020) - Testing of Household refrigerators, Network standby, Standby and off mode, External power supplies, and Professional refrigeration
- **INTAS** (2016-2019) - Testing of large fans and large transformers
- **MSTYR15** Tyres labelling – (2016-2018 - final conference held 30/05/2018)
- **LabelPack Aplus** (2015-2018, ending)- Facilitating the implementation of product-specific measures: "package label" for space and water heaters
- **EEPLIANT** (2015-2017) - Testing of LED lamps, heaters, imaging equipment

Benefits of joint actions:

- Better enforcement leading to energy savings (EEPLIANT 86GWh)
- Improving collaboration across MSAs, harmonised approach to complex issues
- Gaining of experience and shaping up best practices in testing of potentially challenging products
- Visible enforcement of EU product legislation with resulting reduction in consumer detriment
- Improving the operation of free EU market (by removing the free-riding non-compliant products).
- Sharing of inspection and testing results with all MSAs in the EU, so that they can use them too,
- Input into policy making and standardisation

Further information

Products on Europa (including products pages)

<http://ec.europa.eu/energy/en/topics/energy-efficiency/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_energy_labelling_measures.pdf

Further information

"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/ecodesign/>



Thank you for your attention!

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ICSMS

Information and Communication System for Market Surveillance

- IT platform to facilitate communication between MSAs
- allows information on non-compliant products to be quickly and efficiently shared between authorities
- Internal/public area
- Increased use
- New functionalities being implemented

EU-level product registration/database

- Foreseen in the energy labelling revision
- Entry into force 1 January 2019
- Public and compliance parts
- Circumscribing technical documentation