



European  
Commission

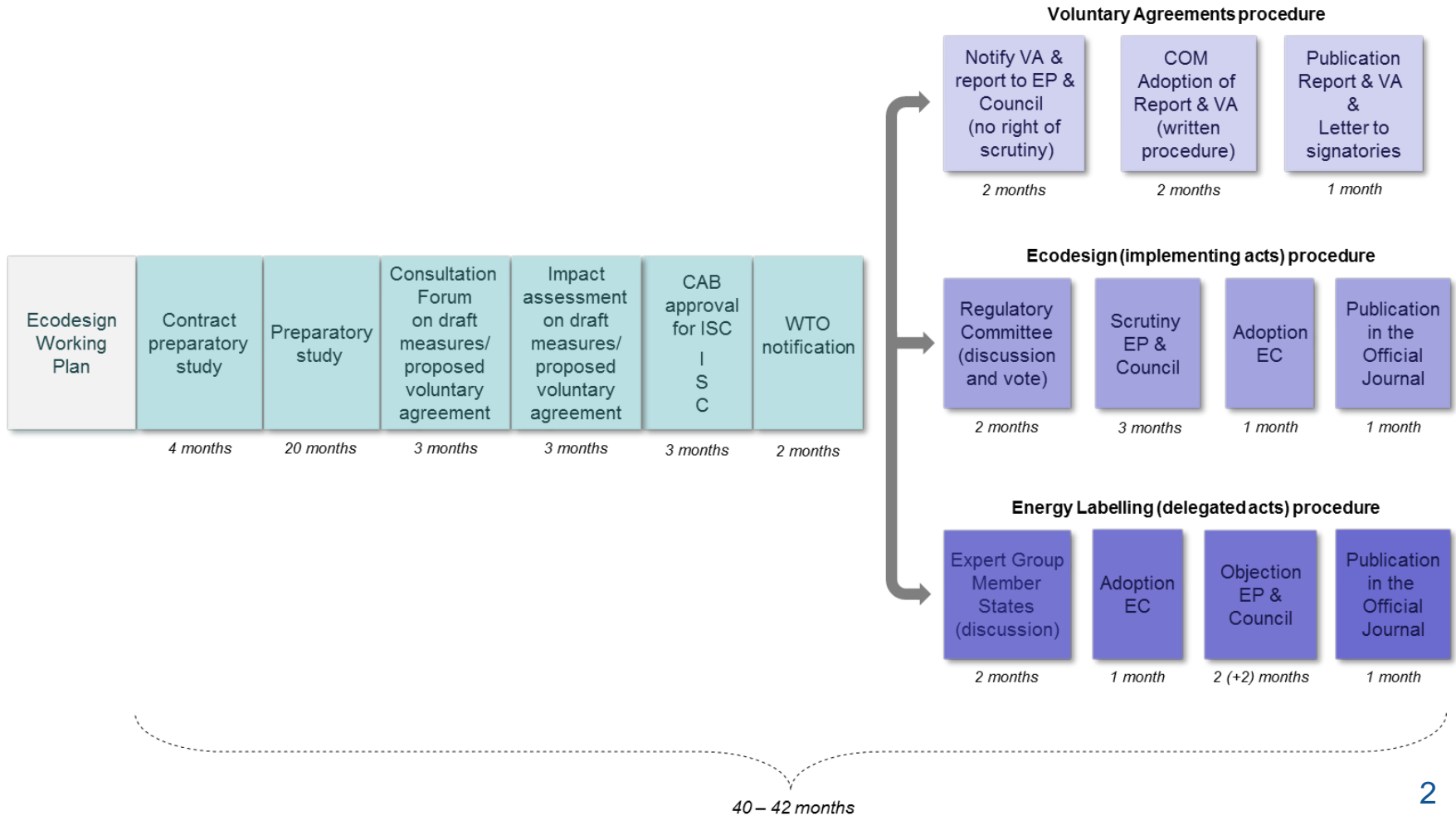
# Update on EU Energy Efficient Product Policy

**REHVA Supporters' Seminar 2015**  
**6 October 2015**  
**Brussels**

*Robert Nuij*  
*Head of Sector*  
*Energy efficiency of products*  
*Directorate General for Energy*



# Process



# Measures in place

## 28 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

## 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

## 1 tyre labelling regulation

1222/2009/EC	Labelling of tyres with respect to fuel efficiency and other essential parameters
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# Ongoing work

## Measures under development

- Electronic displays
- Air heating products
- Professional wet appliances
- Commercial refrigeration
- Compressors
- Uninterruptible power supplies

## New measures under study

- Windows
- (Thermal insulation)
- Water-related products
- Heating and lighting controls
- Smart appliances
- Power cables
- Enterprise servers
- Steam boilers

## Measures under review

- Household dishwashers
- Household refrigerating appliances
- Household washing machines
- Household tumble driers
- Pumps
- Fans
- Electrical lamps and luminaires (stage 6)
- External power supplies
- Lighting (non-directional and tertiary, and special purpose)

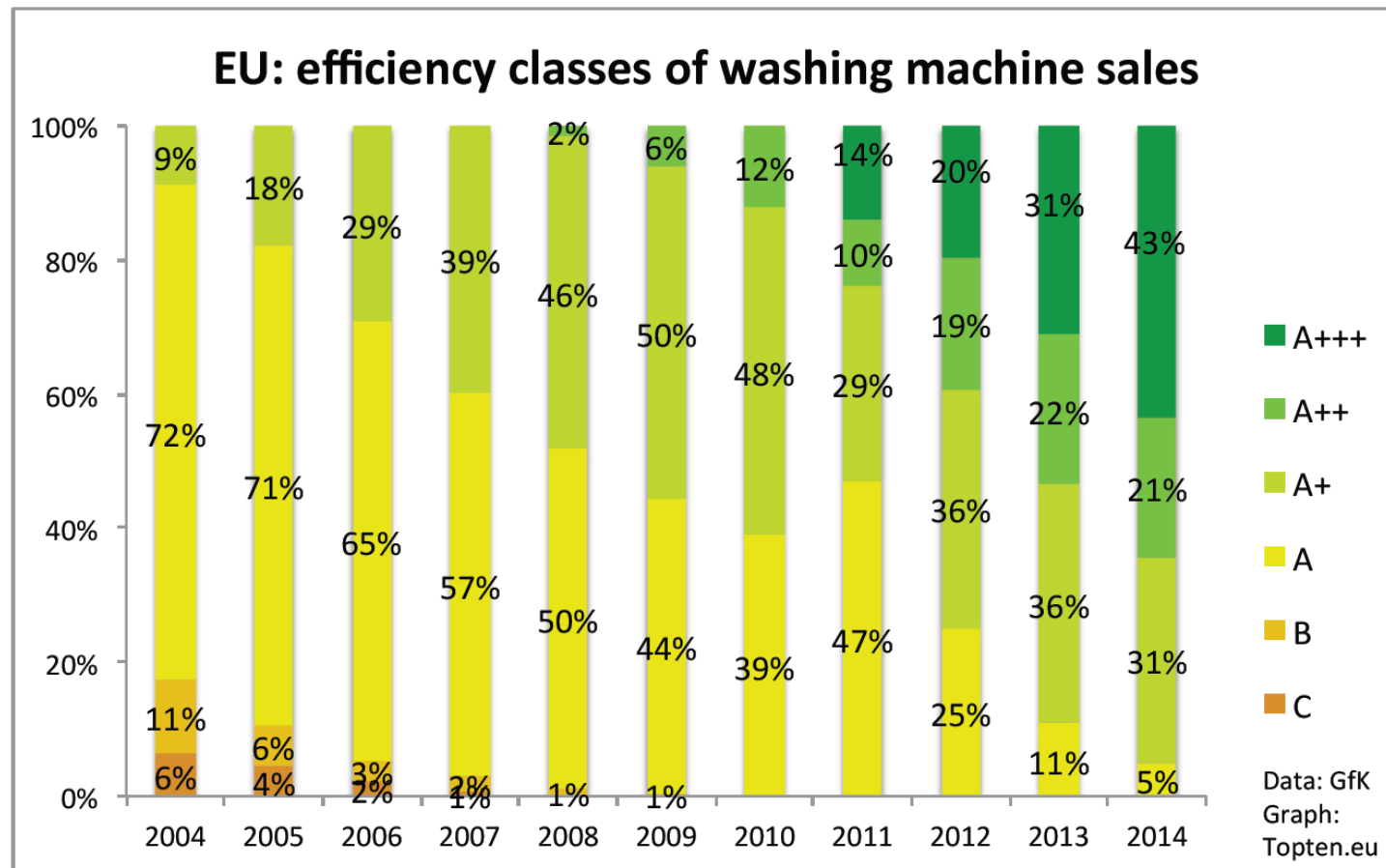
## Voluntary agreements under development

- Machine tools

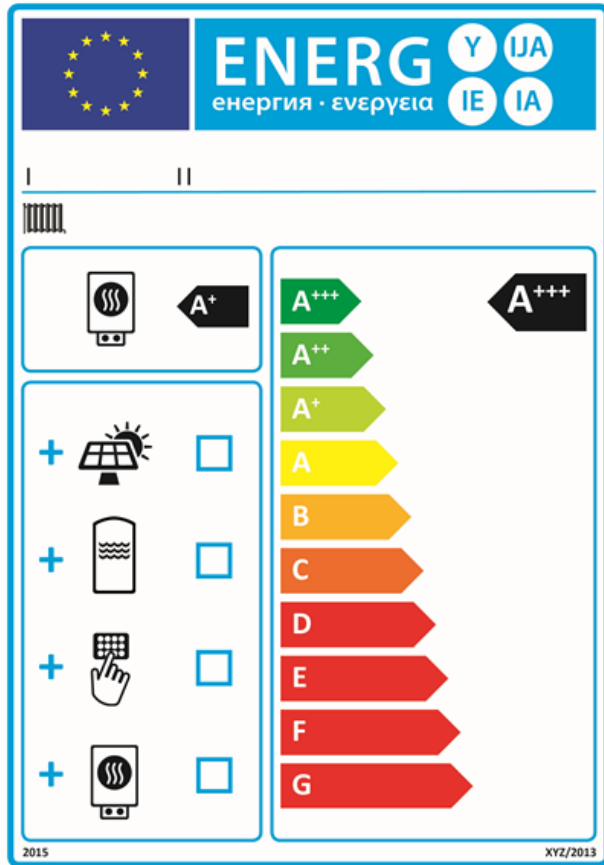
# Ecodesign and Energy labelling - Results Achieved

- **175 Mtoe primary energy savings per year by 2020, more than the annual primary energy consumption of Italy**
- **340 Mt CO<sub>2</sub> 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 for industry, wholesale and retail sector**

# Market transformation



# Space and water heaters



26/09/2013  
Publication

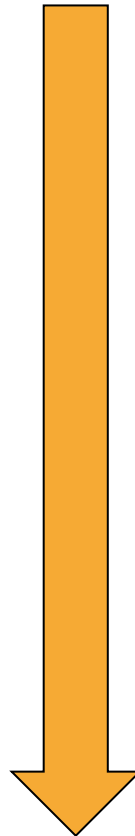
26/09/2015  
1<sup>st</sup> EL Space Heaters (A<sup>++</sup> - G)  
1<sup>st</sup> EL Water Heaters (A - G)  
TIER 1 ED (efficiency)

26/09/2016  
**Review ED water heaters**  
*Separate requirements for different types of water heaters*

26/09/2017  
TIER 2 ED (efficiency)  
2<sup>nd</sup> EL Water Heaters (A<sup>+</sup> - F)

26/09/2018  
ED requirements (NO<sub>x</sub>)  
TIER 3 requirements (efficiency WH)  
**Review ED and EL**

26/09/2019  
2<sup>nd</sup> EL Space Heaters (A<sup>+++</sup> - D)



# Solid fuel boilers

*Ecodesign: 2015/1189*

*Energy labelling: 2015/1187*

*Requirements for 2020:*

- 77% (based on GCV), 75% for boilers  $\leq 20$  kW
- PM 40 mg/m<sup>3</sup> at 10% O<sub>2</sub>, 60 for manual boilers
- OGC 20 mg/m<sup>3</sup> at 10% O<sub>2</sub>, 30 for manual boilers
- CO 500 mg/m<sup>3</sup> at 10% O<sub>2</sub>, 700 for manual boilers
- NO<sub>x</sub> 200 mg/m<sup>3</sup> at 10% O<sub>2</sub>, 350 for fossil fuel boilers





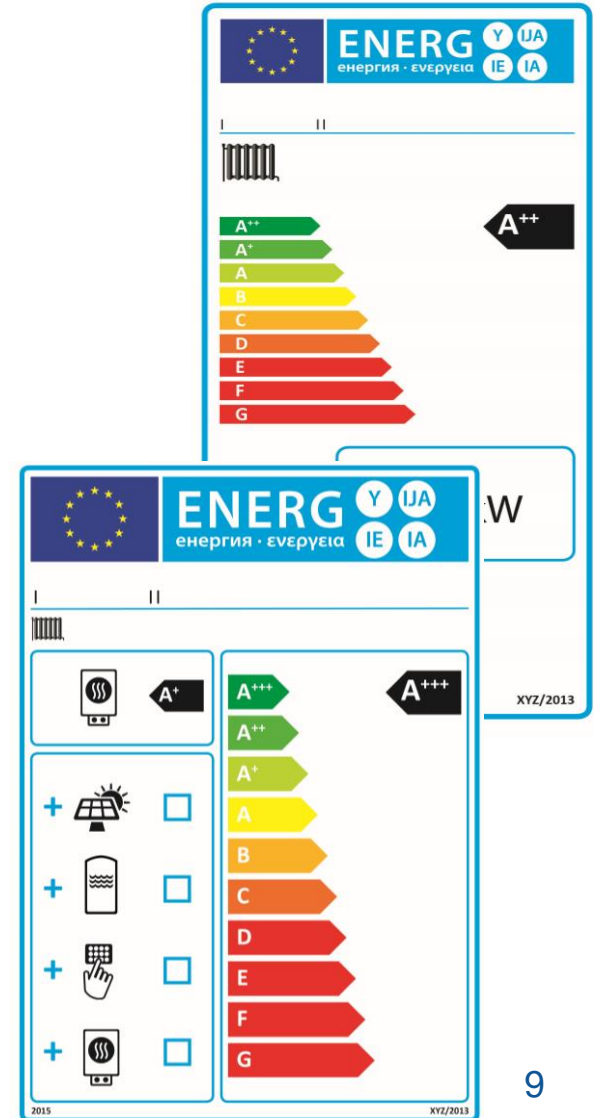
# Solid fuel boilers

*Same label as for other space heaters (Regulation 811/2013)*

- **A++ to G label from 1 April 2017**
- **A+++ to D label from 25 September 2019**
- **Package label**

*Biomass condensing boilers can reach class A++*

*Biomass factor 1.45*



# Local space heaters

Energy efficiency requirements, +  
 $\text{NO}_x$  for gas & liquid

Indication for electric: "only  
suitable for well insulated spaces  
or occasional use"

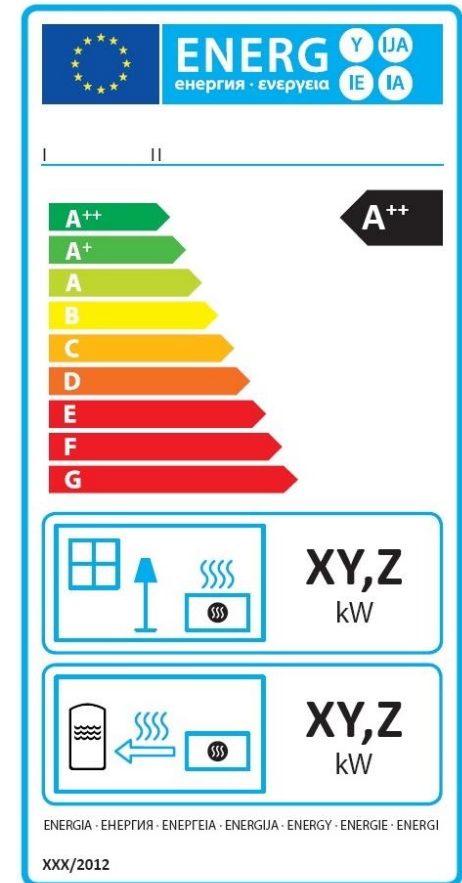
Labelling only for gas and liquid;  
combined label with solid fuels; not  
yet adopted



# Local space heaters

*One label for gas, liquid and solid fuel local space heaters:*

- **A++ to G label**
- **Best biomass appliances can reach A++**
- **Best fossil fuel appliances can reach A**



# Air heating products (lot 21)

*The requirements shall apply to:*

- **Air heating products, with a rated heat output not exceeding 1 MW**
- **Cooling products with a rated cooling output not exceeding 2 MW**
- **Fan coil units (noise and information requirements only)**
- **High Temperature Process Chillers**

*The requirements not shall apply to:*

- **Products under the scope of Regulations on Local Space Heaters, Regulation 206/2011 on air conditioners and comfort fans, Directive 2010/75/EU on industrial emissions**
- **Products using predominantly biomass fuel and products using solid fuels**

*Next steps:*

- **Regulatory Committee by the end of the year**

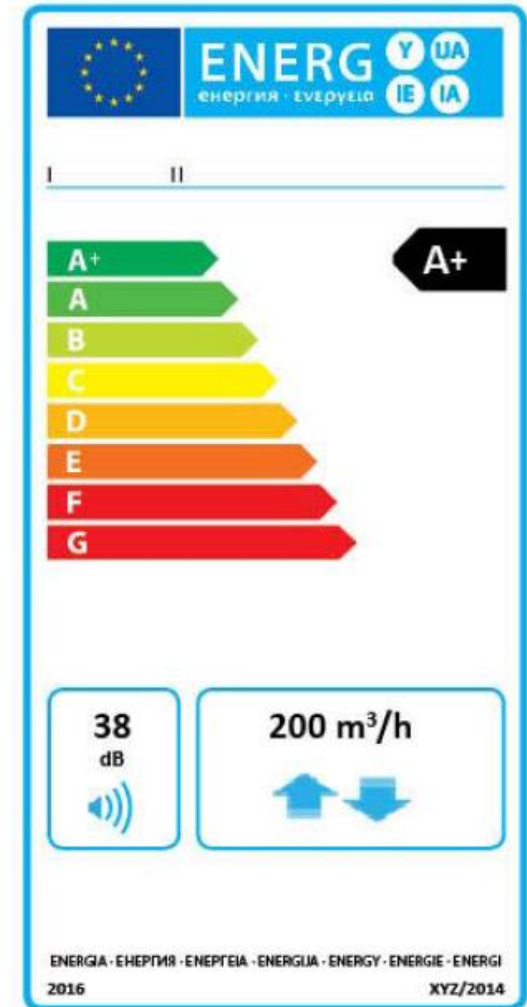
# Ventilation

Ecodesign & labelling adopted July 2014

Labelling only for residential ventilation  
(max. flow rate 250 m<sup>3</sup>/h; or 1000 m<sup>3</sup>/h  
and declared as exclusively residential)

Ecodesign requirements different for  
residential and non-residential

Apply from Jan 2016



# Professional refrigeration

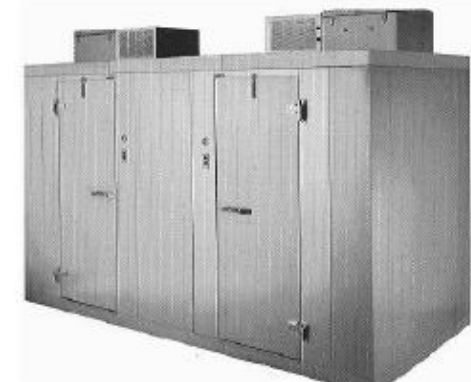
Storage cabinets, blast cabinets,  
process chillers & condensing units

Ecodesign applies from July 2016

For blast cabinets only indicative  
product information

Walk-in cold rooms not regulated;  
for review in 5 years

Label only for storage cabinets



# Commercial refrigeration

*Display cabinets, potentially including:*

- supermarket cabinets
- beverage coolers
- small ice cream freezers
- vending machines
- soft-scoop ice cream cabinets

*Ecodesign & Energy Labelling*

*Inter-service consultation*

*RC/EG foreseen 1<sup>st</sup> quarter 2016*



## Next steps

- **Ongoing review of several Regulations**
- **Development of measures to strengthen market surveillance**
- **New Working Plan 2015-2017 under discussion (more focus on material efficiency, new product groups?)**
- **Further international cooperation to facilitate regulatory and standards convergence**
- **Improve communication efforts to better explain benefits**



## Next steps

### *Proposal for a new Energy Labelling Regulation*

- **Improve effectiveness of the label (e.g. back to A to G, including rescaling)**
- **Strengthen compliance (e.g. through better market surveillance and product registration)**
- **Ecodesign still broadly fit for purpose**



# Thank you for your attention



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