



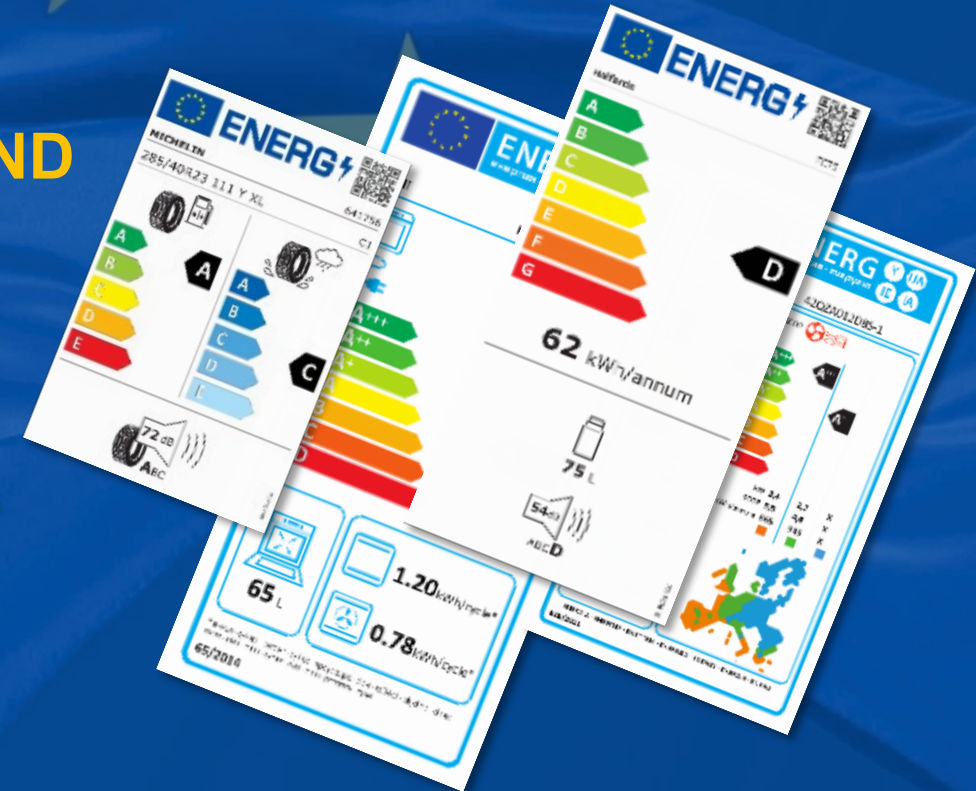
#EULIFE24  
INFO DAYS  
23 - 26 APRIL 2024



## Parallel Session 4: Policy support (POLICY + PRODUCTS)

25 April 2024

### POLICY BACKGROUND



# Energy efficiency of products : Ecodesign & energy labelling

- **Ecodesign (ED):** sets **minimum efficiency requirements** for energy-related products (“any good that has an impact on energy consumption during use”)

First rules date from **1992**

Current Legal basis: Directive 2009/125/EC, based on article 114 TFEU (internal market harmonisation)

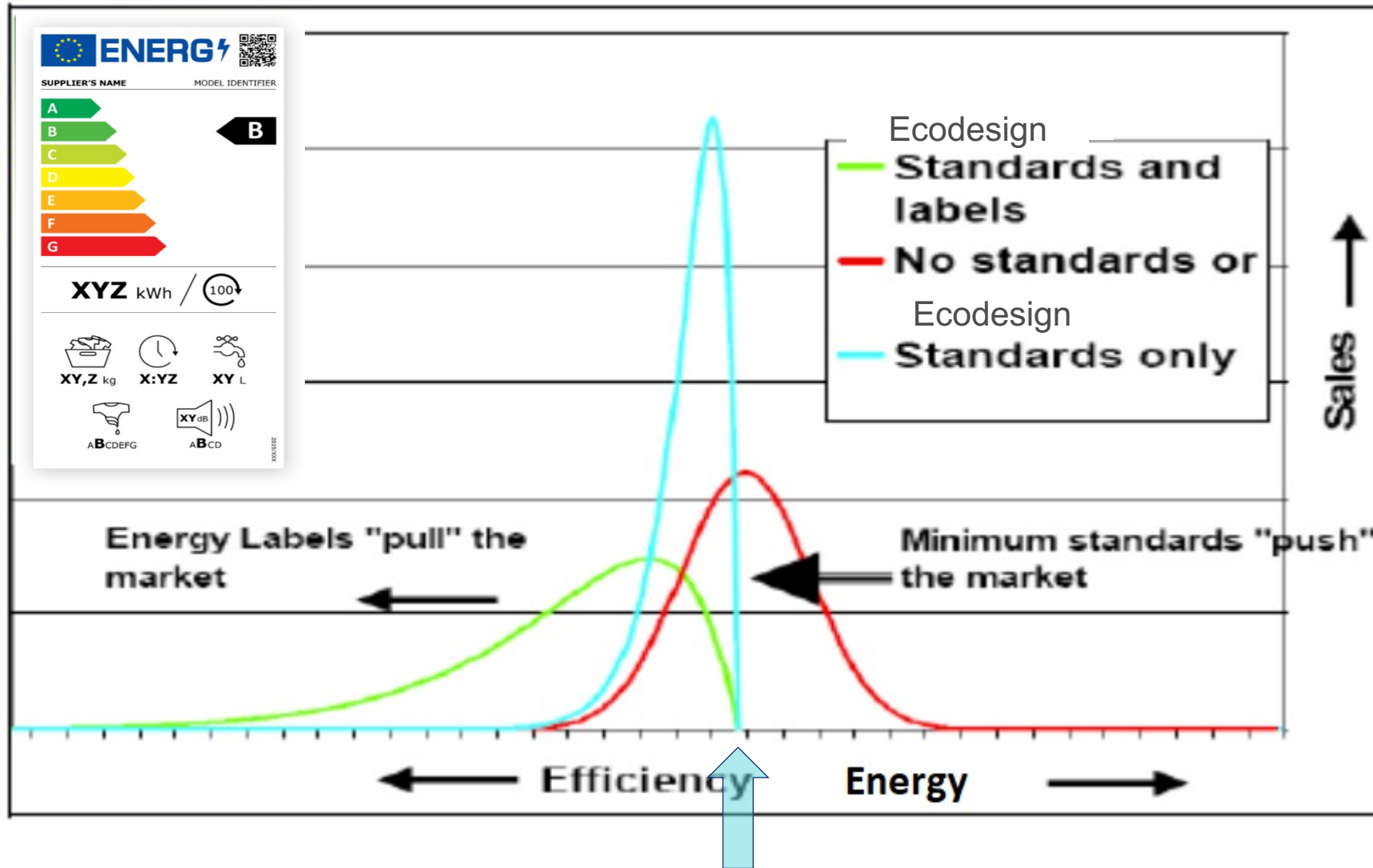
- **Energy labelling (EL):** provides information on energy efficiency and other key performance criteria enabling potential buyers to make informed choices.

First labels date from **1979**

Current Legal basis: Regulation (EU) 2017/1369, based on article 194 TFEU (energy)



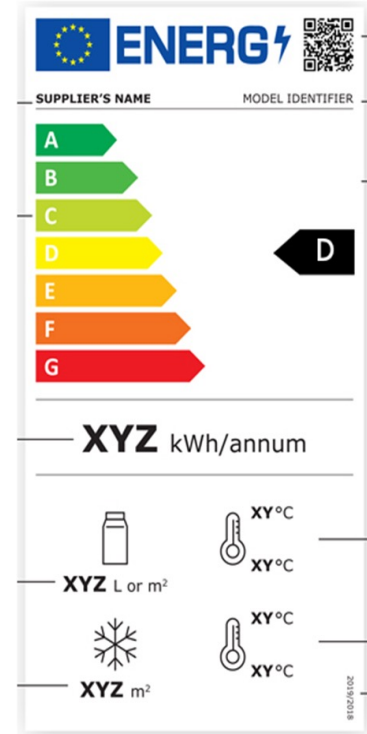
# Ecodesign & Energy Labelling: Combining market *push* and *pull*



# Why do we do this ?

## Need for action greater than ever

- Climate change & Green deal (Dec 2019): EU carbon neutral by 2050
- Circular economy & CEAP (Mar 2020)
- Current crisis and war in Ukraine:
  - EU Energy security and energy prices
- Empowering consumers
- Ecodesign and energy labelling are key instruments.
- **30 Mar 2022** Commission adopted:
  - ❑ Ecodesign and energy labelling Working Plan 2022-24
  - ❑ Proposal for a new '*Ecodesign for Sustainable Products*' Regulation



# 49 Measures in place

*Note: Check our web page for more up-to-date info*

[https://ec.europa.eu/info/energy-climate-change-environment/standards-tools-and-labels/products-labelling-rules-and-requirements/energy-label-and-ecodesign\\_en](https://ec.europa.eu/info/energy-climate-change-environment/standards-tools-and-labels/products-labelling-rules-and-requirements/energy-label-and-ecodesign_en)

## 30 Ecodesign regulations

1275/2008	Electric power consumption standby and off mode (repealed with effect from 9 May 2025)
107/2009	Simple set-top boxes (repealed with effect from 9 May 2025)
641/2009	Circulators
<b>327/2011</b>	<b>Industrial fans *</b>
206/2012	Air-conditioning products and comfort fans
547/2012	Water pumps
<b>932/2012</b>	<b>Household tumble driers *</b>
666/2013	Vacuum cleaners
813/2013	Space heaters
814/2013	Water heaters & storage tanks
66/2014	Domestic ovens, hobs and range hoods
548/2014	Power transformers
1253/2014	Ventilation units
2015/1095	Professional refrigeration
2015/1185	Solid fuel local space heaters
<b>2015/1188</b>	<b>Local space heaters*</b>
2015/1189	Solid fuel boilers
2016/2281	Air heating and cooling products, process chillers
2019/424	Servers and data storage products
2019/1781	Electric motors
2019/1782	External power supplies
2019/1784	Welding equipment
2019/2019	Household refrigerating appliances
2019/2020	Light sources
2019/2021	Electronic displays (televisions)
2019/2022	Household dishwashers
2019/2023	Household washing machines
2019/2024	Commercial fridges
<b>2023/1670</b>	<b>Mobile phones, cordless phones and tablets (20 June 2025)</b>
<b>2023/826</b>	<b>Off mode, standby mode, and networked standby (9 May 2025)</b>

## 17 Energy labelling Regulations

626/2011	Air conditioners
<b>392/2012</b>	<b>Household tumble driers *</b>
811/2013	Space heaters
812/2013	Water heaters & storage tanks
65/2014	Domestic ovens, hobs and range hoods
1254/2014	Residential ventilation units
2015/1094	Professional refrigeration
2015/1186	Local space heaters
2015/1187	Solid fuel boilers
<b>2019/2013</b>	<b>Electronic displays (televisions)</b>
<b>2019/2014</b>	<b>Household washing machines</b>
<b>2019/2015</b>	<b>Light sources</b>
<b>2019/2016</b>	<b>Household refrigerating appliances</b>
<b>2019/2017</b>	<b>Household dishwashers</b>
<b>2019/2018</b>	<b>Commercial fridges</b>
<b>2020/740</b>	<b>Tyres labelling</b>
<b>2023/1669</b>	<b>Mobile phones, cordless phones and tablets (20 June 2025)</b>

## 2 Voluntary agreements

COM (2013) 23	Imaging equipment
COM (2015) 178	Game consoles

**\* Revision process well advanced**

# Energy Label: almost unparalleled success in terms of link with citizens



THE EU ENERGY LABEL IS WELL-KNOWN AMONG EUROPEANS AND INFLUENCES THEIR PURCHASING DECISIONS



Almost all Europeans **have seen the EU energy label**  
**93%**

**79%** know what it stands for  
**14%** don't know what it stands for

The label had an influence  
in **79%**  
of Europeans' purchase choices  
when buying appliances



# What are the benefits?

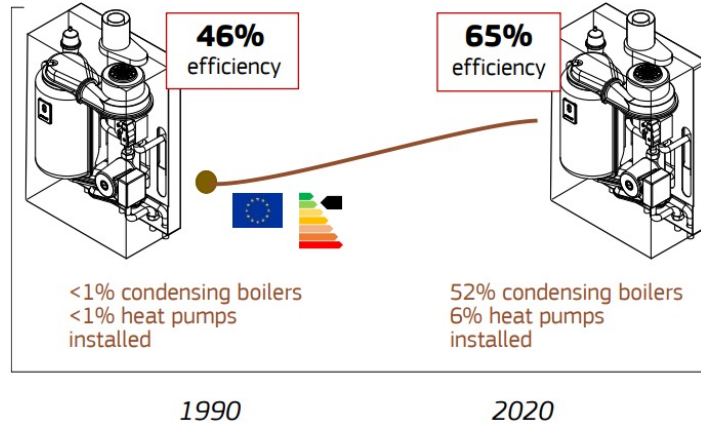
ANNUAL SAVINGS IN THE ECO SCENARIO (WITH MEASURES) COMPARED TO THE BAU SCENARIO (WITHOUT MEASURES) FOR YEARS 2020, 2022 AND 2030. EU27 TOTALS IN ABSOLUTE VALUES IN THE INDICATED UNIT, AND RELATIVE SAVINGS VS BAU IN %

	unit	2020		2022		2030	
		Saving vs. BAU	Saving vs. BAU (%)	Saving vs. BAU	Saving vs. BAU (%)	Saving vs. BAU	Saving vs. BAU (%)
<b>Primary Energy</b> <i>(PEF 2.5 in 2020; PEF 2.1 in 2022; PEF 1.9 in 2030)</i>	TWh	1038		1072		1418*	
	PJ	3736	10%	3859	12%	5107	18%
	Mtoe	89		92		122	
<b>Electricity</b>	TWh	334		390		527	
	PJ	1203	12%	1403	14%	1897	18%
	Mtoe	29		34		45	
<b>Final Fuel</b> <i>(non-electric final energy)</i>	TWh	202		253		417	
	PJ	728	7%	913	9%	1501	17%
	Mtoe	17		22		36	
<b>Final Energy</b> <i>(excl. energy sector)</i>	TWh	531		636		927	
	PJ	1911	9%	2288	11%	3339	17%
	Mtoe	46		55		80	
<b>Energy-related GHG emissions</b>	Mt CO <sub>2</sub> eq	121	9%	135	11%	139	17%
<b>NO<sub>x</sub> emissions</b>	kt SO <sub>2</sub> eq	83	33%	98	41%	128	64%
<b>CO emissions</b>	k ton	143	7%	244	12%	504	32%
<b>OGC emissions</b>	k ton	10	7%	14	11%	22	30%
<b>PM emissions</b>	k ton	10	6%	18	11%	39	34%
<b>Drinking water (washing)</b>	M m <sup>3</sup>	1507	52%	1618	55%	1885	61%
<b>Paper (printing)</b>	M ton	0.23	15%	0.20	15%	0.15	15%
<b>Filler wire/electrode (welding)</b>	k ton	0	0%	16	1%	82	5%
<b>Acquisition costs</b>	€bn	-25	-5%	-29	-6%	-16**	-3%
<b>Energy costs</b>	€bn	74	12%	111	13%	157	19%
<b>Consumable costs</b>	€bn	7	19%	7	20%	9	25%
<b>Total user expense</b>	€bn	56	5%	89	6%	150	10%
<b>Business revenues</b>	€bn	22	4%	26	5%	16**	3%
<b>Associated jobs</b>	thousands	323	5%	380	5%	172**	2%

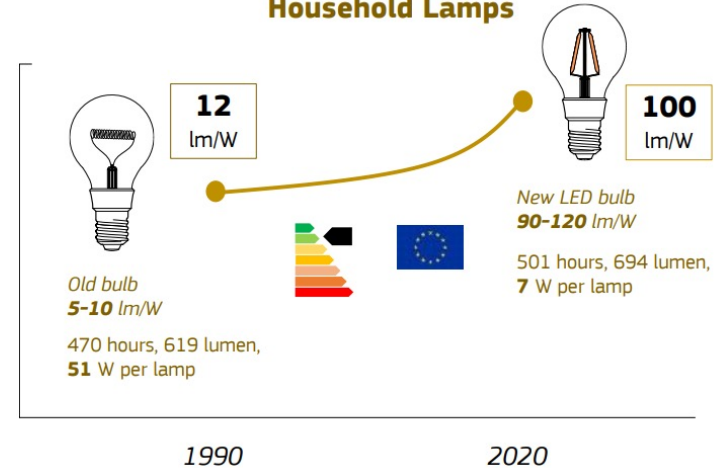
Sources: Ecodesign Impact Accounting Overview Report 2023  
<https://europa.eu/l3cfvJd>

# Ecodesign & Energy Labelling – examples

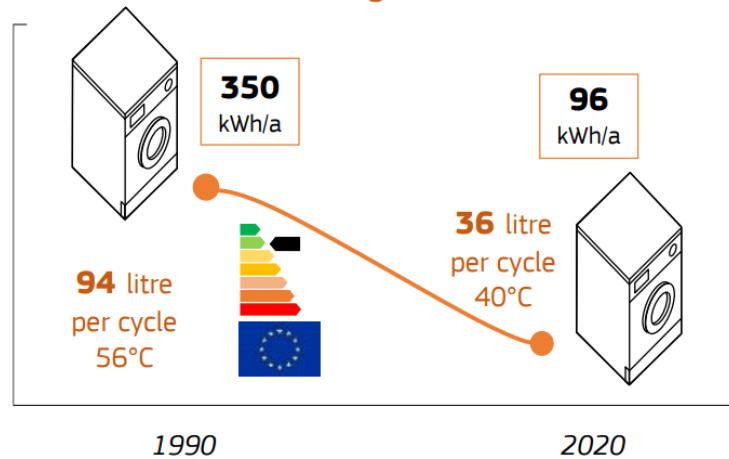
## Hydronic central space heaters < 400 kW (excl. solid fuel)



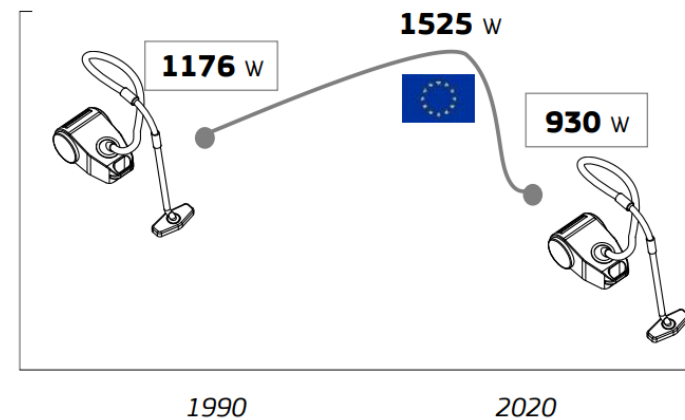
## Household Lamps



## Washing Machine



## Vacuum Cleaner





# Measurement/calculation methods

Test methods for ecodesign and energy labelling are described in « harmonised standards » published by European Standardization Organizations CEN/CENELEC and ETSI

## « Standardised » vs « Real life »

Standardised	Real life
Methods must be <ul style="list-style-type: none"><li>• reliable</li><li>• accurate</li><li>• reproducible</li></ul>	Great variability of consumer behaviour in real life
=> Testing must take places in standardised conditions	Difficult to assess what is a « real life » behaviour
=> Some hypothesis must be made about standard consumer behaviour	
<b>=&gt; Need to get practical insights on how appliances are utilised by consumers and their actual energy use</b>	

# Take a look at our new Energy-efficient Products Portal !

energy-efficient-products.ec.europa.eu/index\_en

An official website of the European Union How do you know? ▾

European Commission

EN

Search

Energy, Climate change, Environment

Energy Efficient Products

Home Ecodesign and Energy Label ▾ Consumers Suppliers Dealers Policy Making News FAQs

Energy Efficient Products

The EU energy labelling and ecodesign legislation helps improve the energy efficiency of products available in the EU market.

View the Product List >

**A one-stop-shop of information on energy efficient products targeted at different stakeholders**

[https://energy-efficient-products.ec.europa.eu/index\\_en](https://energy-efficient-products.ec.europa.eu/index_en)

**Thank you for your attention!**

**Ronald Piers de Raveschoot**

Tel: +32(0)2 29 65182

Email: [ronald.piers-de-raveschoot@ec.europa.eu](mailto:ronald.piers-de-raveschoot@ec.europa.eu)

General queries: [ENER-ECODESIGN@ec.europa.eu](mailto:ENER-ECODESIGN@ec.europa.eu)

Website: [https://energy-efficient-products.ec.europa.eu/index\\_en](https://energy-efficient-products.ec.europa.eu/index_en)