

REGIONAL CONFERENCE ON ENERGY LABELLING

21 October 2025

Tashkent, Uzbekistan

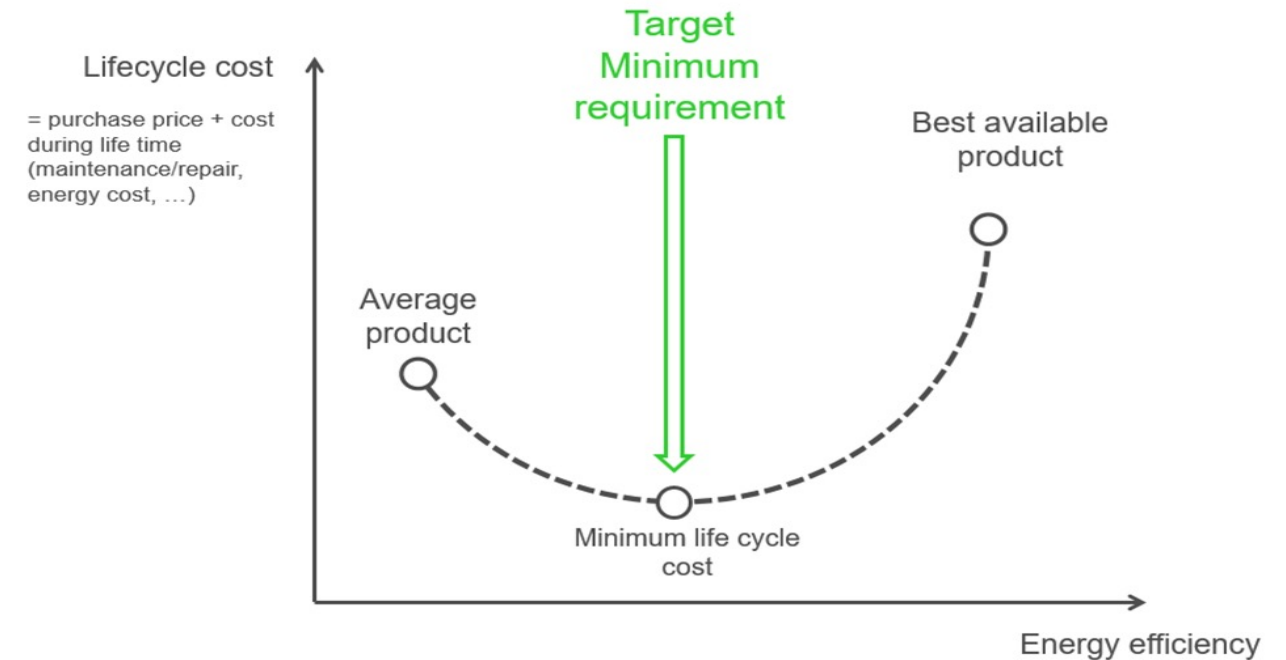
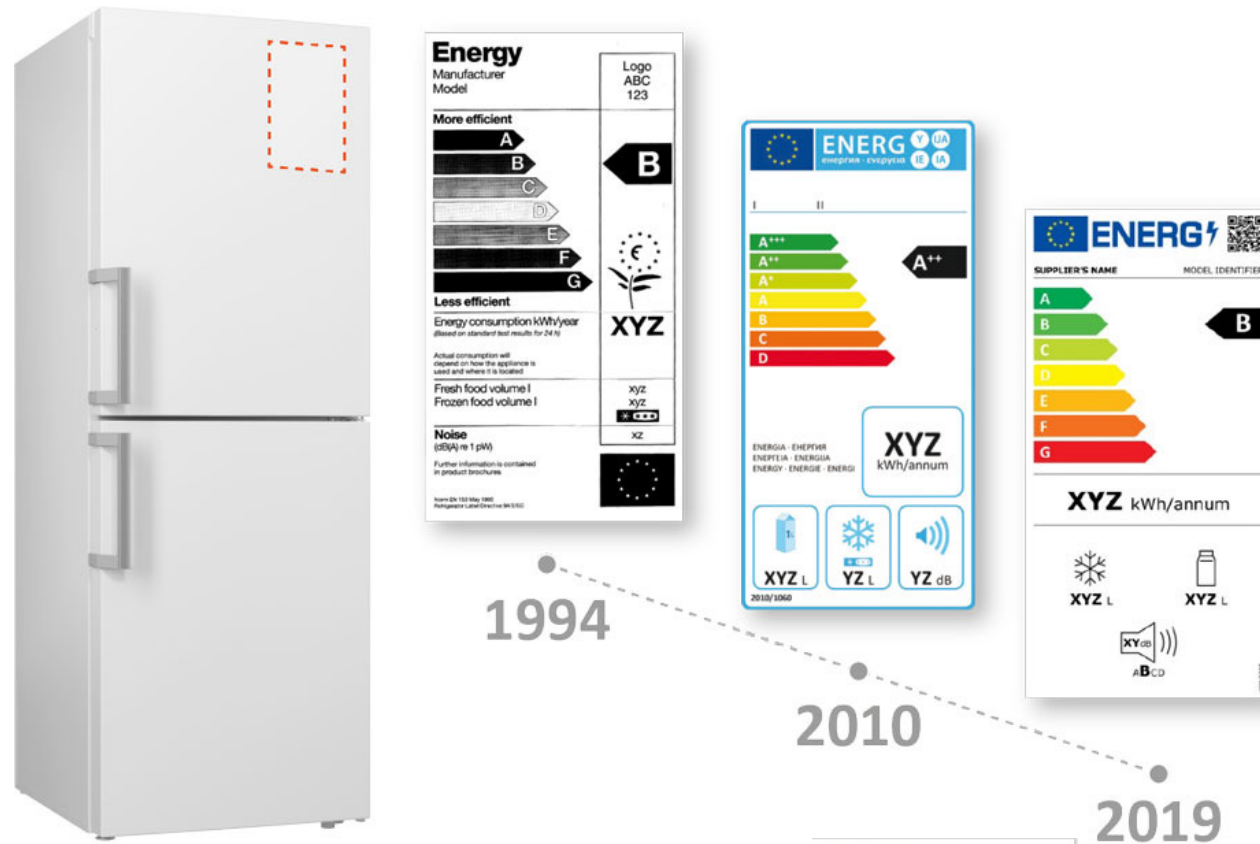
Energy labelling and ecodesign – instruments for energy efficiency and sustainability

Niels Ladefoged

European Commission, DG Energy (online)

- Ecodesign & energy labelling basics
- Legal framework
- Products covered
- Impacts
- European Product Registry for Energy Labelling (EPREL)
- Energy Efficient Products Portal
- Process
- Product specific examples

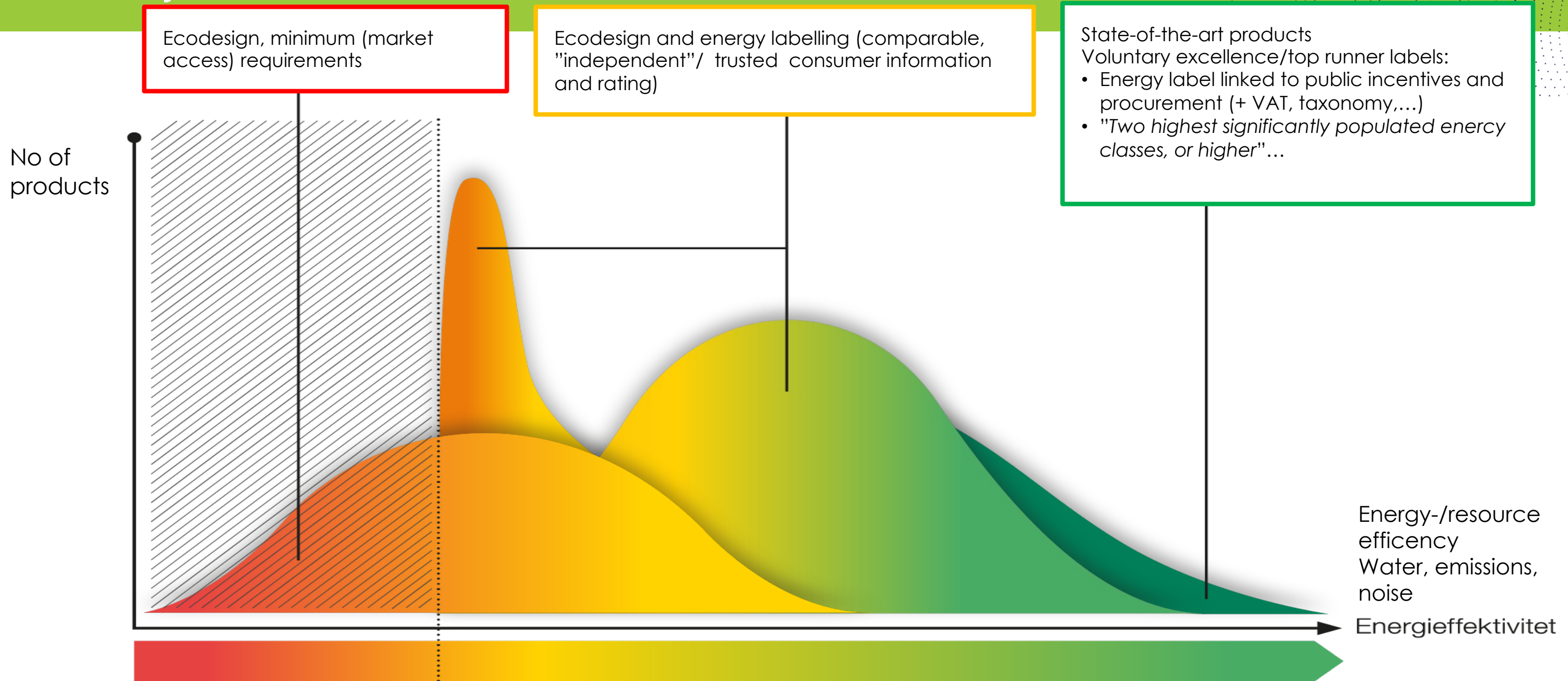
Minimum efficiency requirements set based on minimum life-cycle costs for consumers



Plus, **where relevant**, other requirements like f.ex.

- Air pollutant limit values
- Performance requirements
- Information requirements
- Spare part availability

Product policies: recap of the basics



Ecodesign:

- *Ecodesign Directive* replaced by *Ecodesign for Sustainable Products Regulation (ESPR)* in 2024
- *Transitional provisions* (until end 2026)

Energy Labelling:

- 3rd framework (2017): *going digital (EPREL)*, return to A-G

Tyre labelling:

- Special case: *EP/Council Regulation*

Voluntary:

- Game Consoles, CoC on smart appliances

A) Suppliers (Manufacturer/importer/authorised representative)

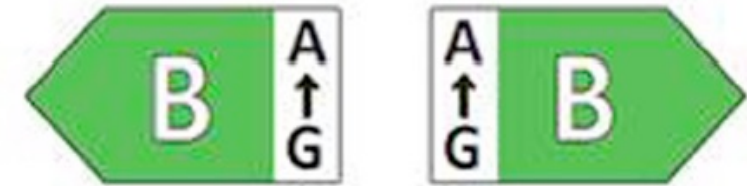
- products are accompanied with printed labels and with product information sheets (on the packaging if required by D.A.)
- supplier shall deliver printed labels and product information sheets, to the dealer free of charge within five working days upon the dealer's request.
- before placing on the market a unit of a new model covered by a delegated act, enter in the public and compliance parts of the product database the information required for that model

B) Dealers

- In shops, display the label in a visible manner, including for online distance selling
- make available to customers the product information sheet, including, upon request, in physical form at the point of sale

C) Suppliers **and** dealers

- visual advertisements or technical promotional material: make reference to the energy class and the range



- do not mimic the label in a way that may confuse consumers
- cooperate with market surveillance authorities and take immediate action to remedy any case of non-compliance

All details in delegated acts!

Heating, Cooling and Ventilation



Air Conditioners and
Comfort Fans

Ecodesign | Energy Label



Local Space Heaters

Ecodesign | Energy Label



Ventilation Units

Ecodesign | Energy Label



Solid Fuel Boilers

Ecodesign | Energy Label



Space Heaters

Ecodesign | Energy Label



Water Heaters

Ecodesign | Energy Label



Air Heating and
Cooling Products

Ecodesign

Refrigeration



Fridges and Freezers

Ecodesign | Energy Label



Commercial
Refrigerators

Ecodesign | Energy Label



Professional
Refrigerated Storage
Cabinets

Ecodesign | Energy Label

Cooking



Domestic Ovens

Ecodesign | Energy Label



Range Hoods

Ecodesign | Energy Label



Hobs

Ecodesign

Electronic Products



Electronic Displays

Ecodesign | Energy Label



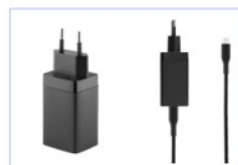
Smartphones and
Tablets

Ecodesign | Energy Label



Computers

Ecodesign



External Power
Supplies

Ecodesign



Servers and Data
Storage Products

Ecodesign



Game Consoles

Voluntary Agreement

Light Sources



Light Sources

Ecodesign | Energy Label

Tyres



Tyres

Type Approval | Energy
Label

Cleaning and Drying



Household
Dishwashers

Ecodesign | Energy Label



Household Washing
Machines

Ecodesign | Energy Label



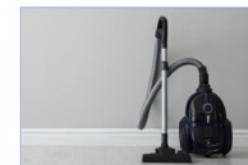
Household Washer
Dryers

Ecodesign | Energy Label



Tumble Dryers

Ecodesign | Energy Label



Vacuum Cleaners

Ecodesign

B2B Products



Circulators

Ecodesign



Electric Motors

Ecodesign



Industrial Fans

Ecodesign



Power Transformers

Ecodesign



Water Pumps

Ecodesign



Welding Equipment

Ecodesign

Horizontal Measures

Standby, Networked Standby and Off Mode

Ecodesign

Energy Smart Appliances

Voluntary Agreement | Labelling

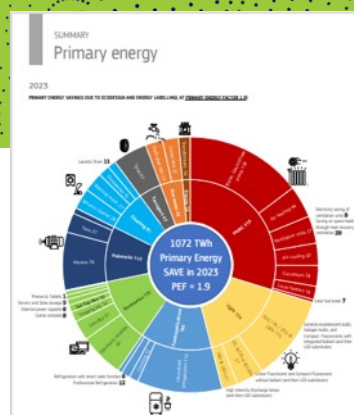
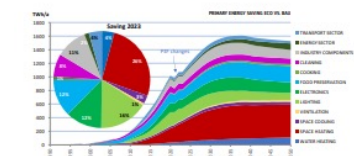
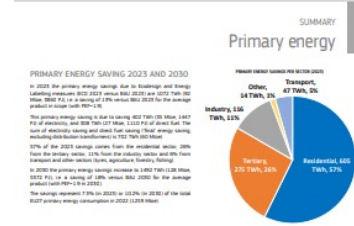
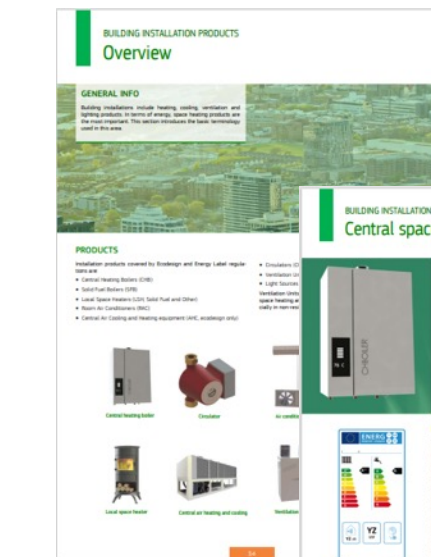
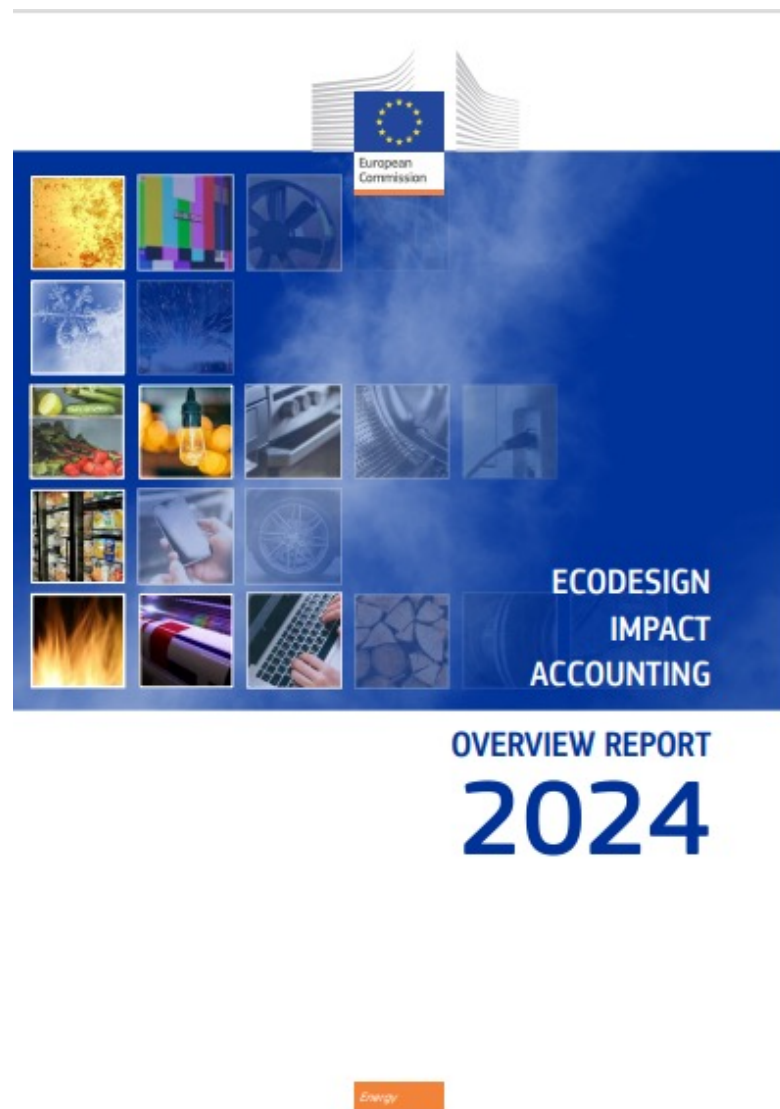
ED/EL cover ca. 50% of all primary energy

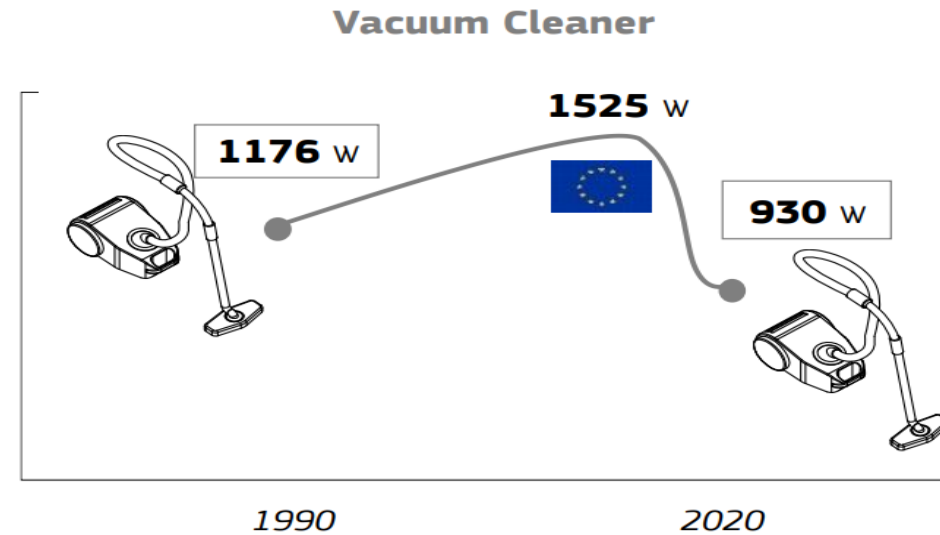
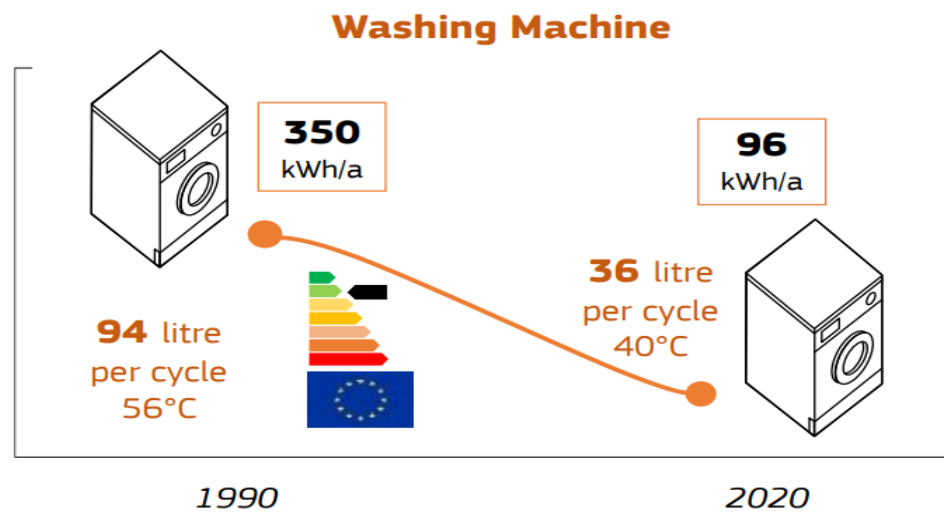
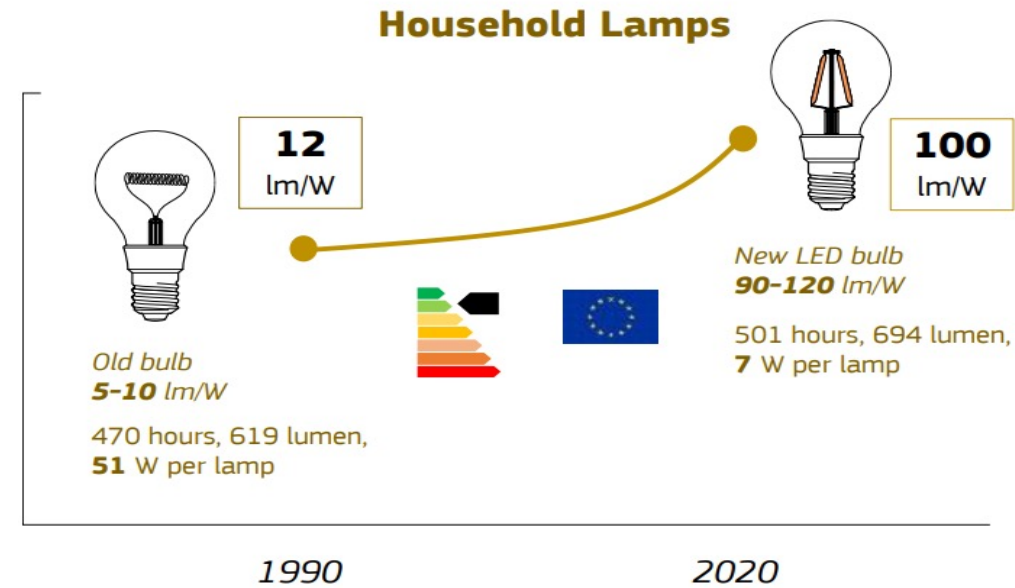
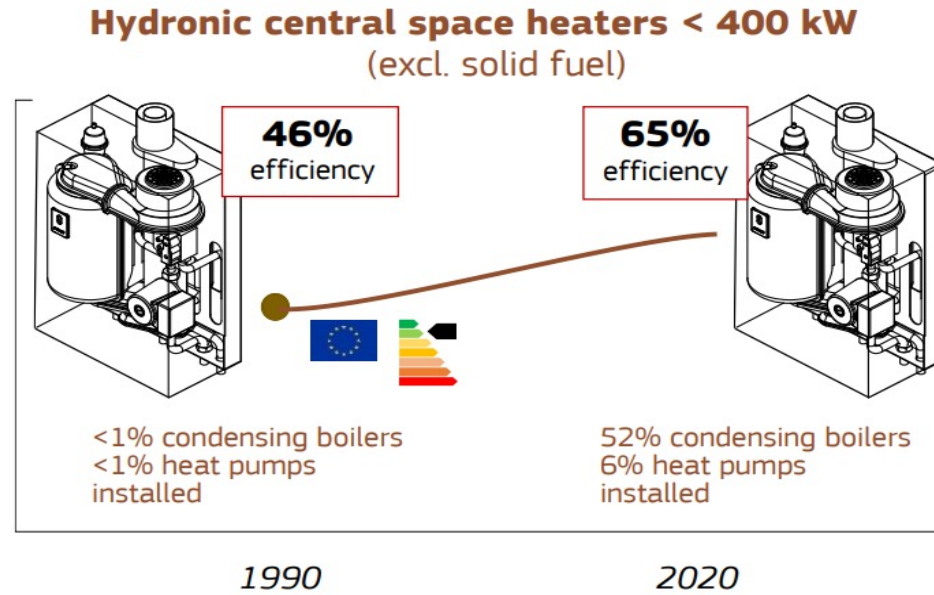
Average household energy bill saving:

2023: €287/y

2030: €473/y

Savings also in **industry & services**





Legal obligation on COM

Objectives

Support market surveillance

Inform public

Inform COM reviews of rules

Milestones

Jan 2019: Registration open

March 2021: QR scans possible

May 2022: Public search/interface live

Oct 2025:

Ca **2 mio** models

Ca **5000** suppliers verified

= 94% of models, 94% w/o lighting

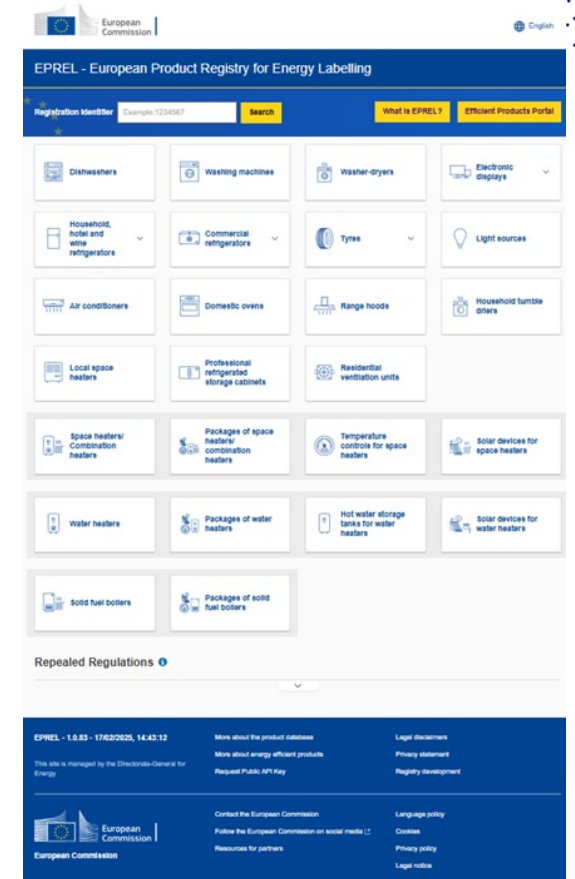
More than **1 mio. page views/month**

Article 12

Product database

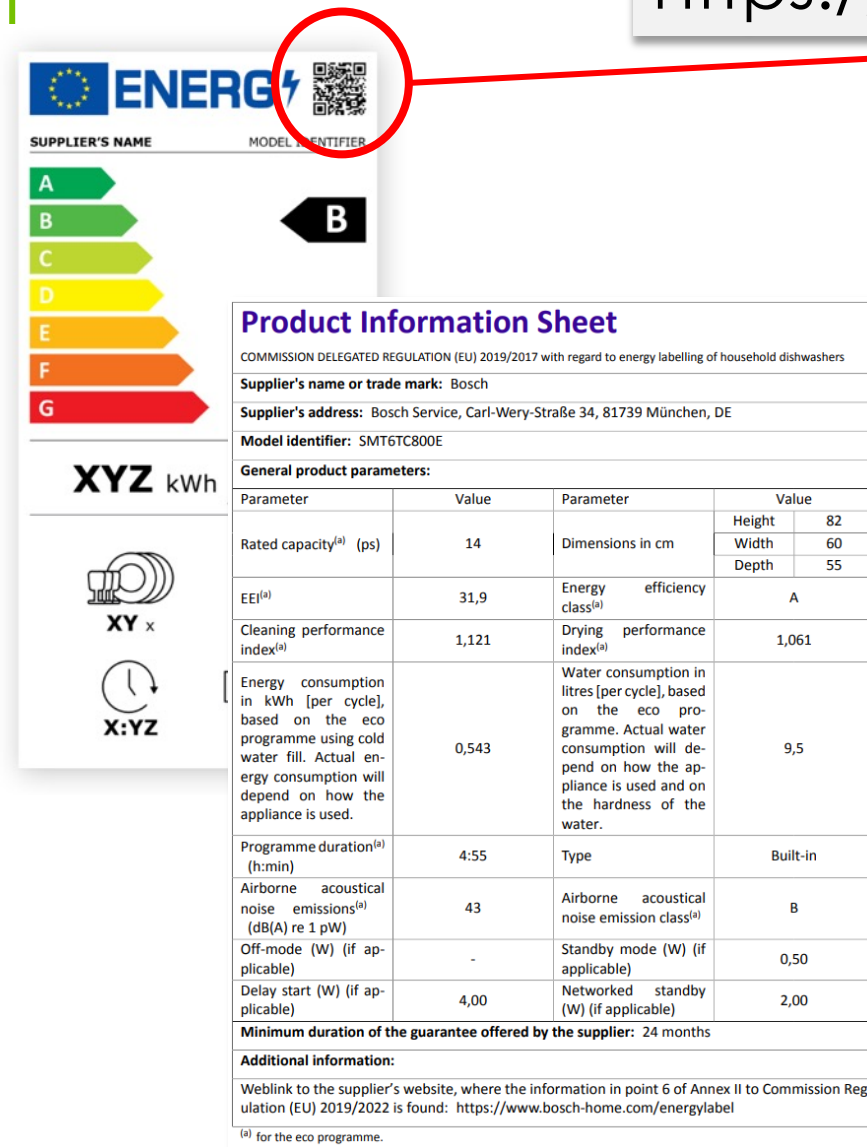
1. The Commission shall establish and maintain a product database consisting of a public part, a compliance part and an online portal giving access to those two parts.

<https://eprel.ec.europa.eu/>



<https://eprel.ec.europa.eu/qr/1324926>

<https://eprel.ec.europa.eu/qr/1324926>



EPREL – Europäische Produktbank für die Energieverbrauchsbeurteilung

Startseite | Reifen

Suche

Reifenkennung

Reifen (242)

Ergebnis von 1 bis 25

Anzahl pro Seite: **25**

Name oder Handelsmarke des Lieferanten

Sortiert nach Kraftstoffeffizienz **▼** • Nasshaftkoeffizient **▼** • Wert des externen **▼**

• Modellverteilung nach Leistungsklasse

Kraftstoffeffizienzkategorie

Engel... **▼**

Nasshaftungskategorie

Engel... **▼**

Luftschallemissionskategorie

Engel... **▼**

☐ Einschließlich nicht mehr im Verkehr gebrachter Modelle

— Erwartet

Reifenkategorie

Engel... **▼**

Bezeichnung der Reifengröße

☐ Freilist

☒ Strukturierter Text

Querschnittsbreite

245 **▼**

Querschnittsverhältnis (Hohe/Breite)

45 **▼**

Flugdurchmesser

19 **▼**

Tragfähigkeitskennzahl

Symbol der Geschwindigkeitskategorie

Engel... **▼**

MICHELIN

090503

Handelsname oder Handelsmarke

Bezeichnung der Reifengröße

Reifenkategorie

Mehr

MICHELIN

724414

Handelsname oder Handelsmarke

Bezeichnung der Reifengröße

Reifenkategorie

Mehr

Nokian

7431209

Handelsname oder Handelsmarke

Bezeichnung der Reifengröße

Reifenkategorie

Mehr

Continental

0356726

Handelsname oder Handelsmarke

Bezeichnung der Reifengröße

Reifenkategorie

Mehr

ARMSTRONG

SKM-TRAC HP 1200051012

Handelsname oder Handelsmarke

Bezeichnung der Reifengröße

Reifenkategorie

Mehr

PETLAS

26001

Handelsname oder Handelsmarke

Bezeichnung der Reifengröße

Reifenkategorie

Mehr

245/45R19

C1 (Pneu)

245/45R19

C1 (Pneu)

245/45R19

C1 (Pneu)

245/45R19

C1 (Pneu)

245/45R19

C1 (Pneu)

245/45R19

C1 (Pneu)

Nähere Angaben >

Nähere Angaben >

Nähere Angaben >

Nähere Angaben >

Nähere Angaben >

Nähere Angaben >

Class	Entries	%
A	850	7,3
B	1 227	10,5
C	1 934	16,5
D	2 923	25,0
E	4 129	35,3
F	533	4,6
G	97	0,8

URL to supplier website: user manuals, repair info, spare parts,...

Webservices (APIs) available for free, facilitating compliance online

amazon.de Liefern nach Belgien Elektro-Großgeräte

Hallo, Anmelden Konto Warenrücksendungen und Bestellungen

Alle Bestseller Amazon Basics Neuerscheinungen Prime Video Prime

Elektro-Großgeräte Angebote Waschen & Trocknen Kühlen & Gefrieren Geschirrspülen Kochen & Backen Bestseller Produktfinder

Bosch KGV39VLEA Serie 4 Freistehende... 524 529,00 € inkl. MwSt. prime

Elektro-Großgeräte › Kühlschränke, Gefrierschränke & Eiswürfelbereiter › Kühlschränke › Kühl-Gefrier-Kombinationen

Gorenje NRS9182VX
Kühlschrank /
Kühlteil 368 liters /
Gefrierteil 167 liters
[Energieklasse E]
Besuchen Sie den Gorenje-Store

Lieferroute nach Belgien
Alle Angebote
Auf die Liste

teilen f t p

Möchten Sie verkaufen?
Bei Amazon verkaufen

Produkt Datenblatt
Neu (2) ab 831,89 € + 69,00 € Versandkosten

Farbe	Edelstahllook
Oberflächentyp	Metallisch
Marke	Gorenje
Modellname	NRS 9182 VX

Für größere Ansicht Maus über das Bild ziehen

Bosch KAD93VBFP Serie 6 Amerikanischer Side-by-Side / ... 116 1.457,00 € inkl. MwSt. prime

The screenshot shows the EU Energy Label for a refrigerator. The label is titled "ENERGY" and features a scale from A to G. The refrigerator is rated E, indicated by a black arrow pointing to the 'E' on the scale. Below the scale, the energy consumption is listed as 323 kWh/annum. To the left of this value is a snowflake icon and the number 191 L, representing the net volume. To the right is a refrigerator icon and the number 371 L, representing the gross volume. At the bottom, there is a logo for "A++ D" and a small "E" in a circle.

EU Label & Produktdatenblatt

Energieeffizienz Produktklasse

Produktdatenblatt

Zentrale Identifizierung (ZID) 001010101 der Kommission

Name oder Markenname des Lieferanten: **Gieringer**

Auswahl des Lieferanten (B): **Partizipation unter 12, 3027 Vienna, St**

Modellnummer: **NR3312XV**

Kühe Geflügel					
Gewichtskategorie (kg)		None	Typ	Reizierend	
Wassersprachsch		None	Andere Kühlgröße		Is

Allgemeine Produktparameter:

Parameter	Wert	Parameter	Wert
Gesamt	1783		
Lebensdauer (in	408	Gesamtschmelze (in dm³ oder g)	562
Millimeter)			
Teile	687		
EI	39,8	Energieeffizienzklasse	A
		Luftschaltenelemente (in g)	0
Luftschaltenelemente (in g) (in dB(A) in 1 m)	42	Luftschaltenelemente (in g)	
Luftschaltenelemente (in dB(A))	33,1,1	Klimaklasse	
Minimalelemententemperatur (in °C), für die das Kühlgerät geeignet ist	30	Höchstzulässige Temperatur (in °C), für die das Kühlgerät geeignet ist	43
Wasserschaltung	None		

Produktparameter:

Zeile	Produktdaten und -werte		
	Bauteilname des Produkts (in dm³ oder g)	Empfohlene Temperaturerhaltung für optimale Lebensdauer (in °C)	Erhaltungszustand (in dm³ oder g)
Spezialanwendung	None	-	-
Wasserschaltung	None	-	-
Wasserschaltung	None	-	-








Prodotti Ambienti

 Inserisci il codice postale
  Seleziona il negozio

Prodotti > Cucine ed elettrodomestici > Elettrodomestici Cucina > Lavatrici e asciugatrici > TVÄTTAD Lavatrice/asciugatrice integrata


 Le soluzioni fotovoltaiche SOLSTRÅLE non solo ti permettono di risparmiare sulla bolletta elettrica, ma anche di vivere una quotidiana più sostenibile.



TVÄTTAD

Lavatrice/asciugatrice integrata, bianco

€799



Scheda informativa del prodotto

Come ottenerlo



Controlla la disponibilità nel tuo CAP di consegna



Non in vendita con Clicca e ritira



Solo con consegna a domicilio. Verifica la disponibilità per la consegna nel tuo CAP (icona furgoncino).

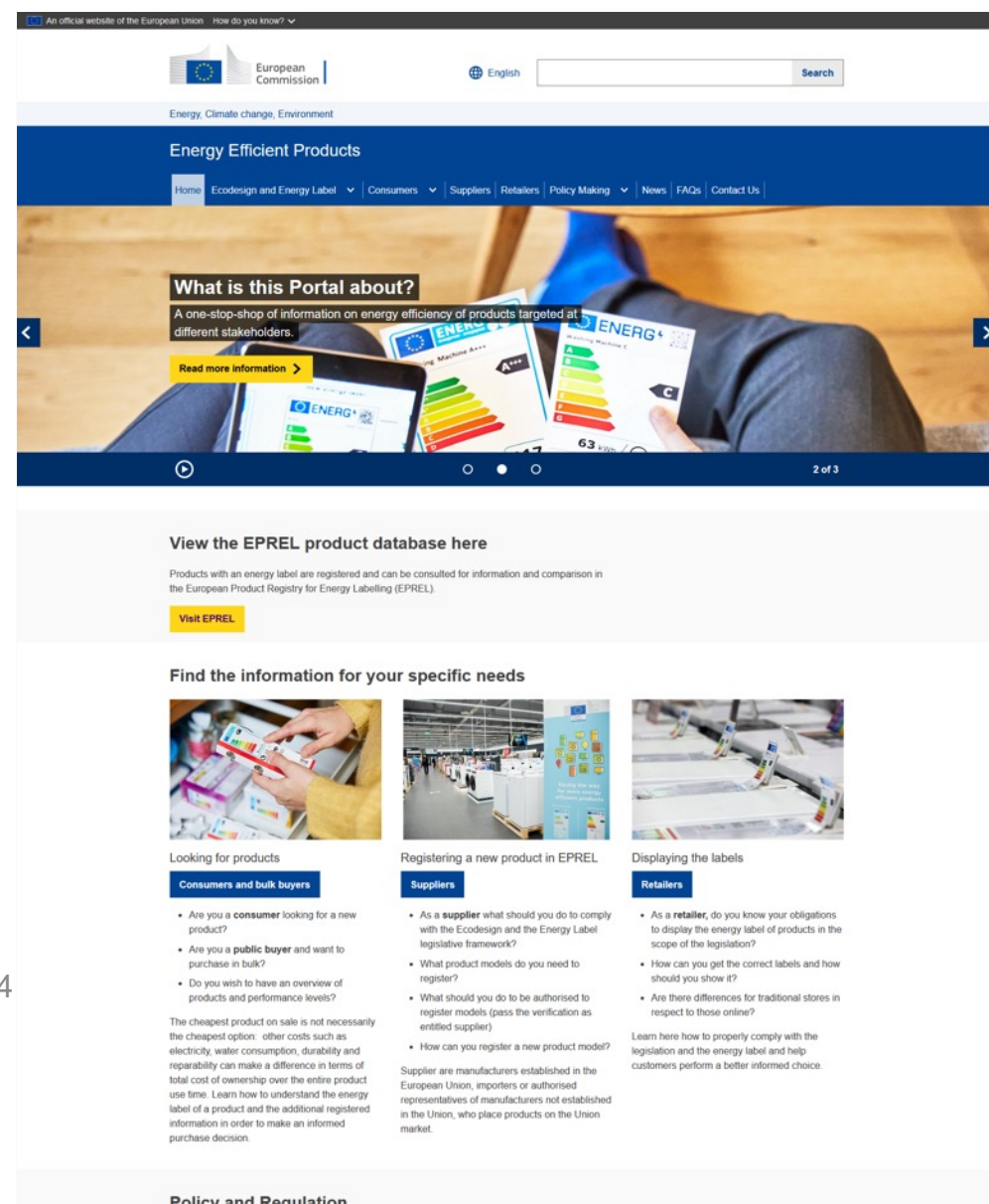
Aggiungi al carrello



Graphical Energy Label applied to Products on

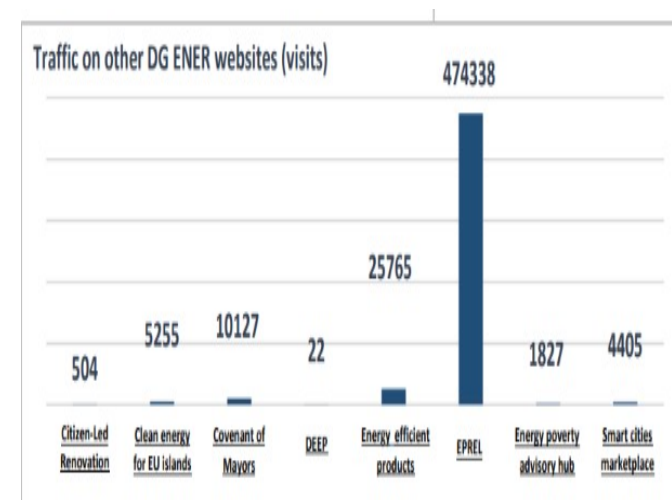
Products		Comparison Sites							
									
SIEMENS iQ500 Geschümpf...	AEG 7000 iQ500 Geschümpf...	AEG 6000 iQ500 Geschümpf...	Haua iQ7000 Geschümpf...	BOSCH iQ7000 Geschümpf...	Bosch iQ7000 Geschümpf...	Samsung iQ7000 Geschümpf...	BOSCH Serie iQ7000 Geschümpf...		
€539.99	€699.00	€549.00	€279.95	€579.69	€516.53	€399.00	€799.00		
saturn.de	Agg.de	AEG.de	haua.at	MediaMarkt	Galaxus	Yoo €399	Yoo €699		
+€29.90 shipping	Free shipping	Free shipping	Free shipping	+€29.90 shipping	Free shipping	XXXLutz DE	Bosch Hausgerä...		
Energy Class: G	Energy Class: G	Energy Class: F	Energy Class: F	Energy Class: F	Energy Class: F	Energy Class: F	Energy Class: F		
Build-in	Build-in	Build-in	Countertop	Build-in	Portable	Build-in	Portable		
By Blue Sh...	By Feedp...	By Google	By Google	By Blue Sh...	By shopping24	By Shoprade	By Google		

+€29.90 ship...
Energy:  
★★★★★ (3)
Built-in



One-stop-shop for information

- **Consumer** info, tips, videos etc
- **Supplier & retailer guidance**
- Searchable **FAQ library** (ca 400 Q&As)
- **Policy making** (links to “Have Your Say” for all ongoing policy developments)



Committees and expert groups + “ADCO” groups

[Ecodesign and Energy Labelling Consultation Forum – Expert Group X03609 \(from 2019\)](#)

[Regulatory Committee on Ecodesign and Energy Labelling of Energy-related Products](#)

[Expert group on Energy Labelling \(E02854\)](#)

[Expert Group on laboratory alignment for the measurement of tyre rolling resistance \(E02519\)](#)

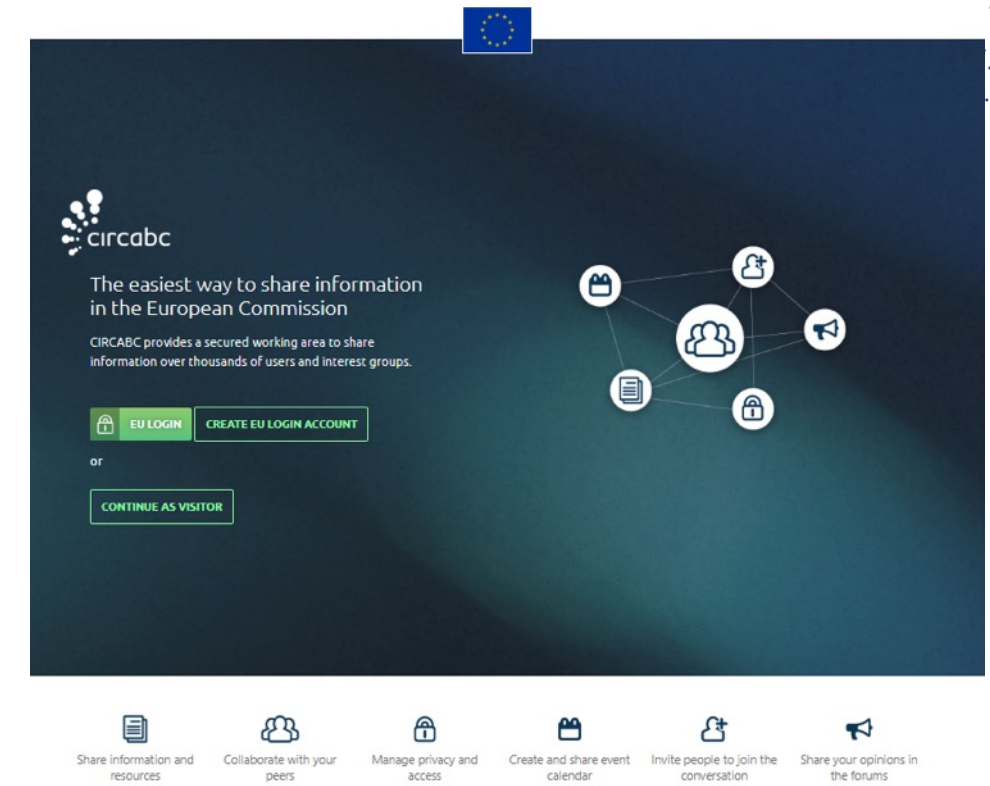
[NEW for ESPR! Group of experts on Ecodesign for Sustainable Products and Energy Labelling \('the Ecodesign Forum'\) E03969](#)
(incl. a separate Member States only group)

PLUS

Motor Vehicles Working Group (GROW) for tyres

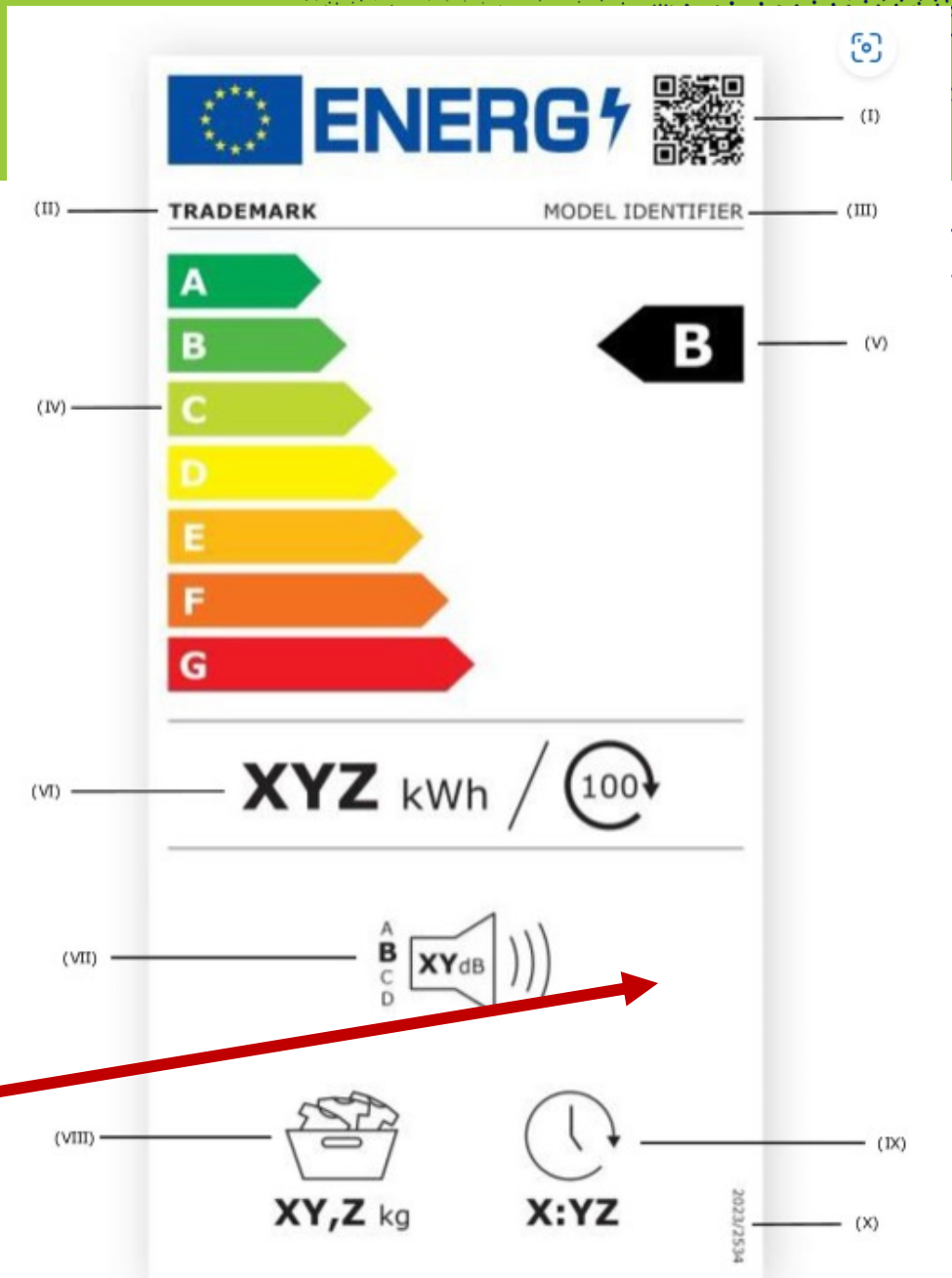
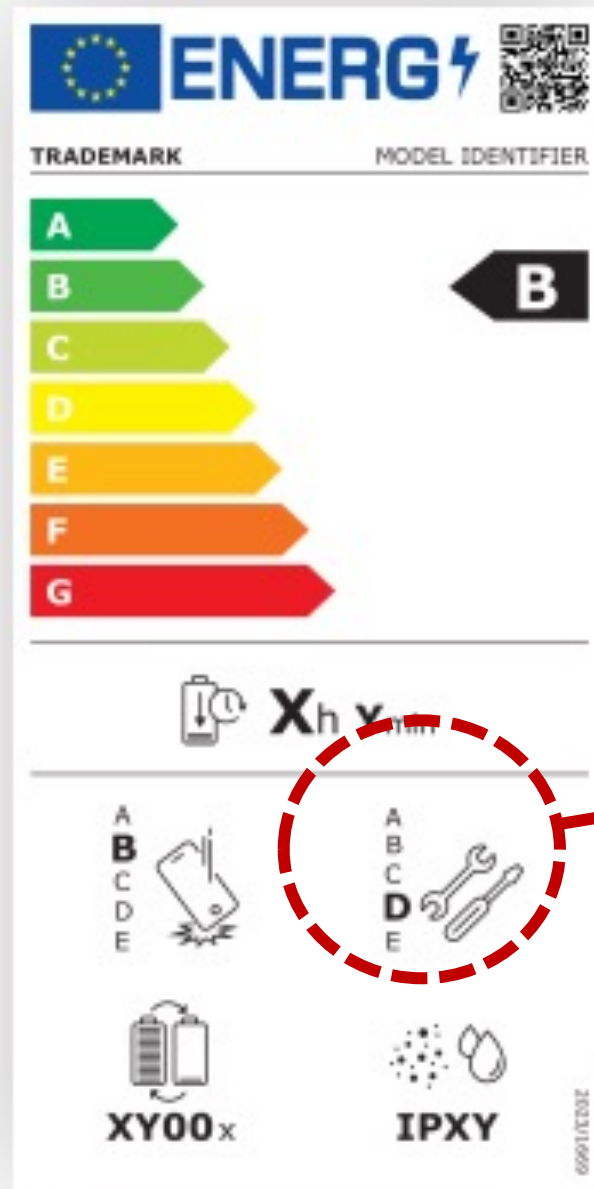
Standardisation Committee (GROW) for standardisation requests

ADCOs: ADmin COoperation between market surveillance authorities

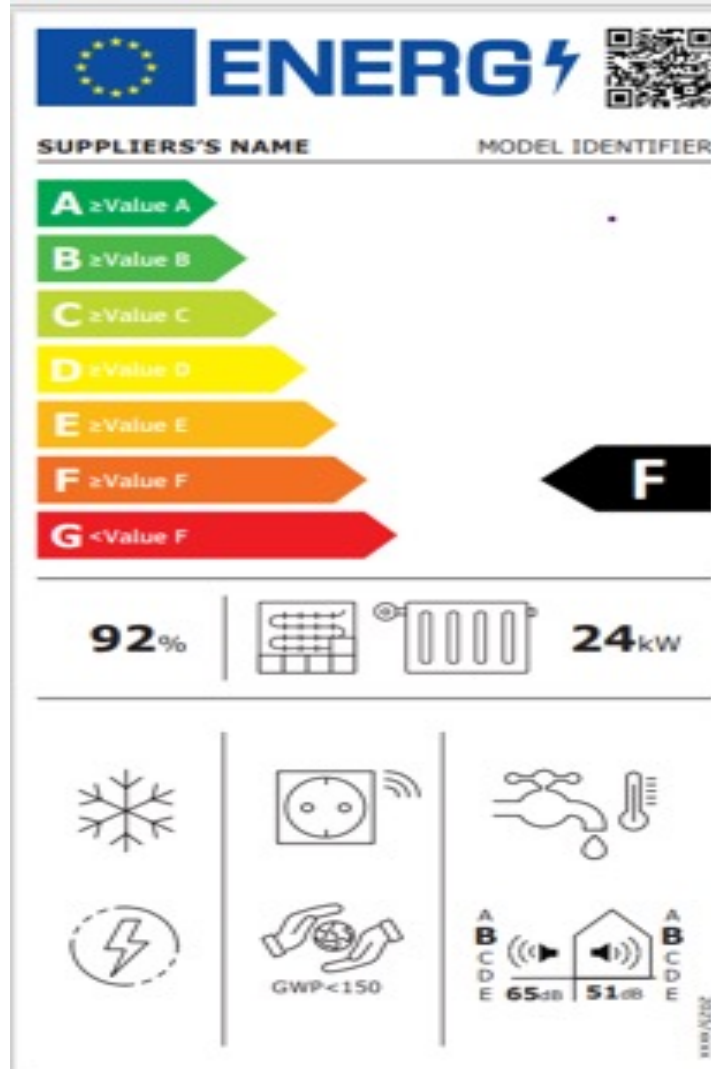


Tools:

- CircaBC
- Reg Com
- Registry of Expert Groups
- Wiki site for ADCOs
- Wiki site for EPREL
- Standardisation tools and databases



Under preparation! Subject to change!



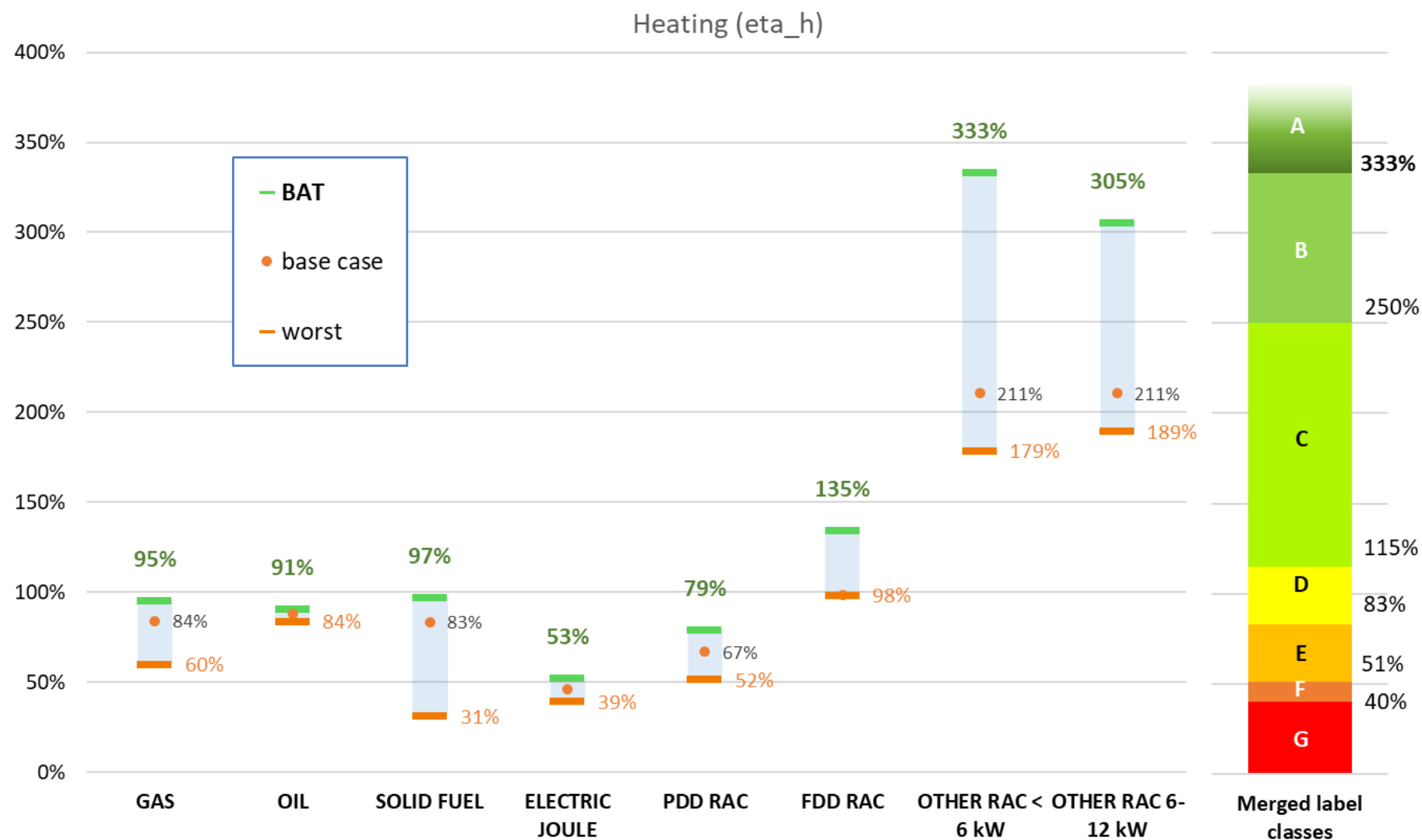
Eligible for
subsidies
by MSs,
Art 7(2)
Energy
Labelling
1369/2017

Class	Energy Efficiency values
A	300
B	235
C	185
D	145
E	115
F	90
G	< 90

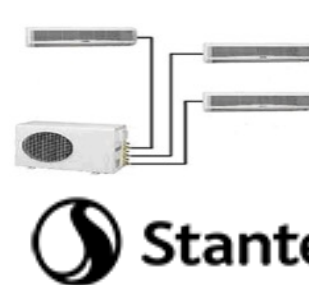
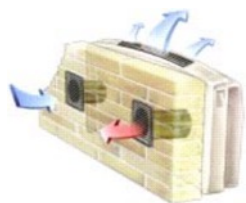
Empty
GSHPs
ASHPs, cogen
ASHPs, cogen
Fuel HPs and Hybrid HPs, cogen
Condensing Boilers, Hybrid HPs, cogen
Other ff boilers and Joule electric



Heating and cooling – “merged label” for local space heater (allowing comparison of alternatives)



Under preparation!
Subject to change!



Revised EU ecodesign rules for external power supplies

Notebook EPS	
Router EPS	
Mobile EPS	
Multiple Voltage Output EPS	



More information:

www.energy-efficient-products.ec.europa.eu



European
Commission