

CONNECTING
EXPERTS.

CHILLVENTA eSPECIAL

Refrigeration | AC & Ventilation | Heat Pumps

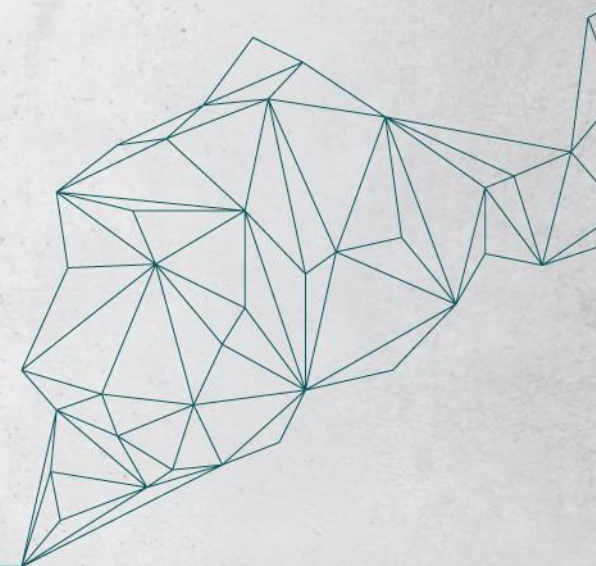
13.–15.10.2020

NÜRNBERG MESSE

ECODESIGN AND ENERGY LABELLING

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CONNECTING
EXPERTS.



THE EUROPEAN GREEN DEAL

Europeans want concrete action on climate change: becoming the **first continent with zero climate impact** is the greatest challenge and opportunity of our time.



ECODESIGN AND ENERGY LABELLING

■ Ecodesign

Minimum energy efficiency requirements

■ Energy Labelling

Energy efficiency and annual energy consumption

Product	Ecodesign?	Energy Labelling?
Household refrigeration	yes	yes
Wine coolers and mini-bar	yes	yes
Professional storage cabinets	yes	yes
Blast-chiller	yes (Yes)	no
Condensing-units	yes	no
Chillers for industrial processes, LT +MT	yes	no
Chillers for industrial processes, HT	yes	no
A/C for large buildings, chiller for A/C	yes 01-01-2018	no
Commercial display cabinets	ENTRY INTO FORCE 1/3/2021	
Walk-in cold storage	Might be introduced when revising regulation (EU) 2015/1095 (aprox.4-5 years)	

- **While the Directives require transposition into national legislation, the Regulations are immediately and directly applicable in all Member States.**
- **The Framework Regulation on energy labeling does not require transposition into national legislation.**

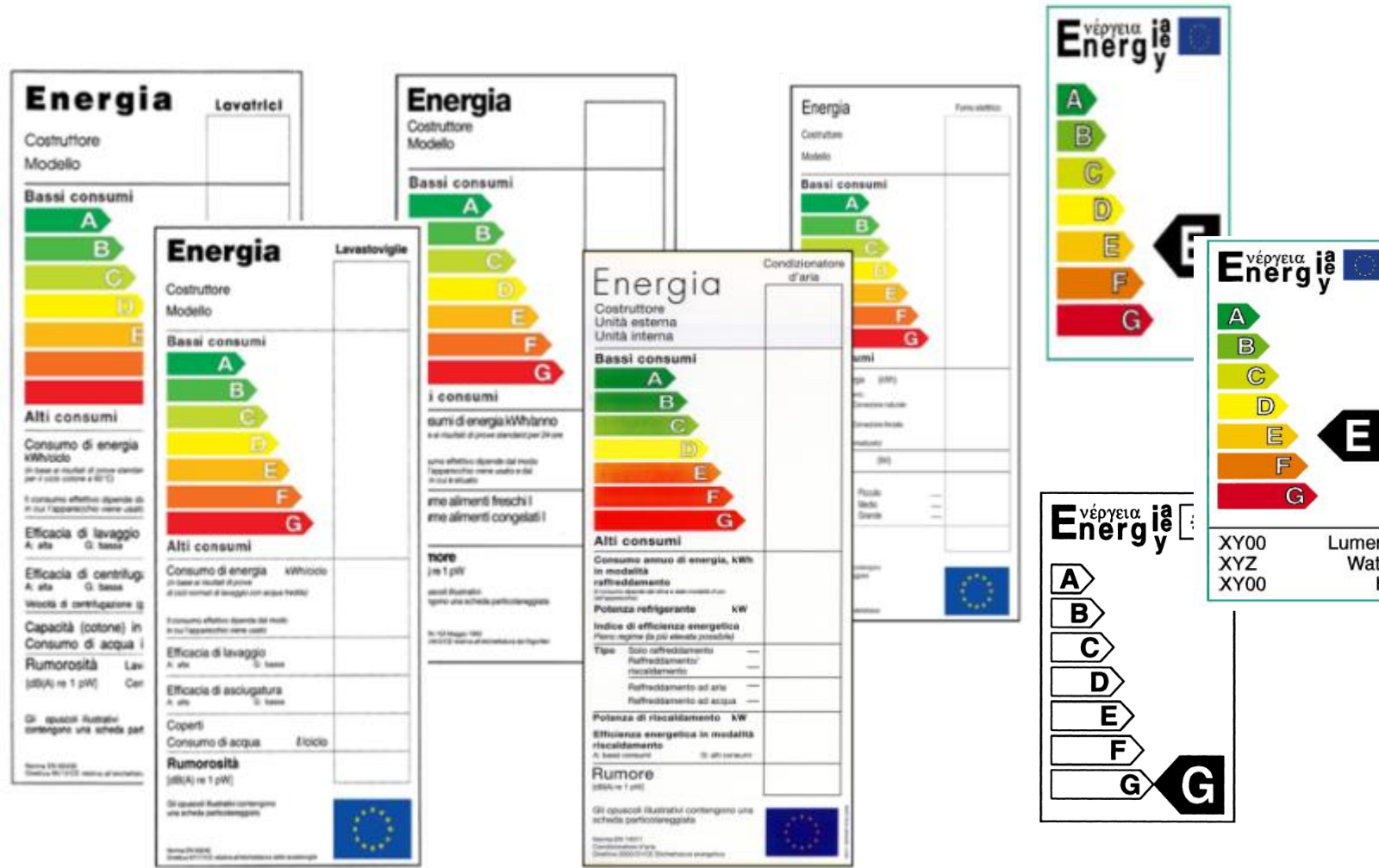
➤ ***The text of the regulations has been published in the OJEU 5/12/2019***

➤ ***ED and EL requirements will apply from 1st March 2021***

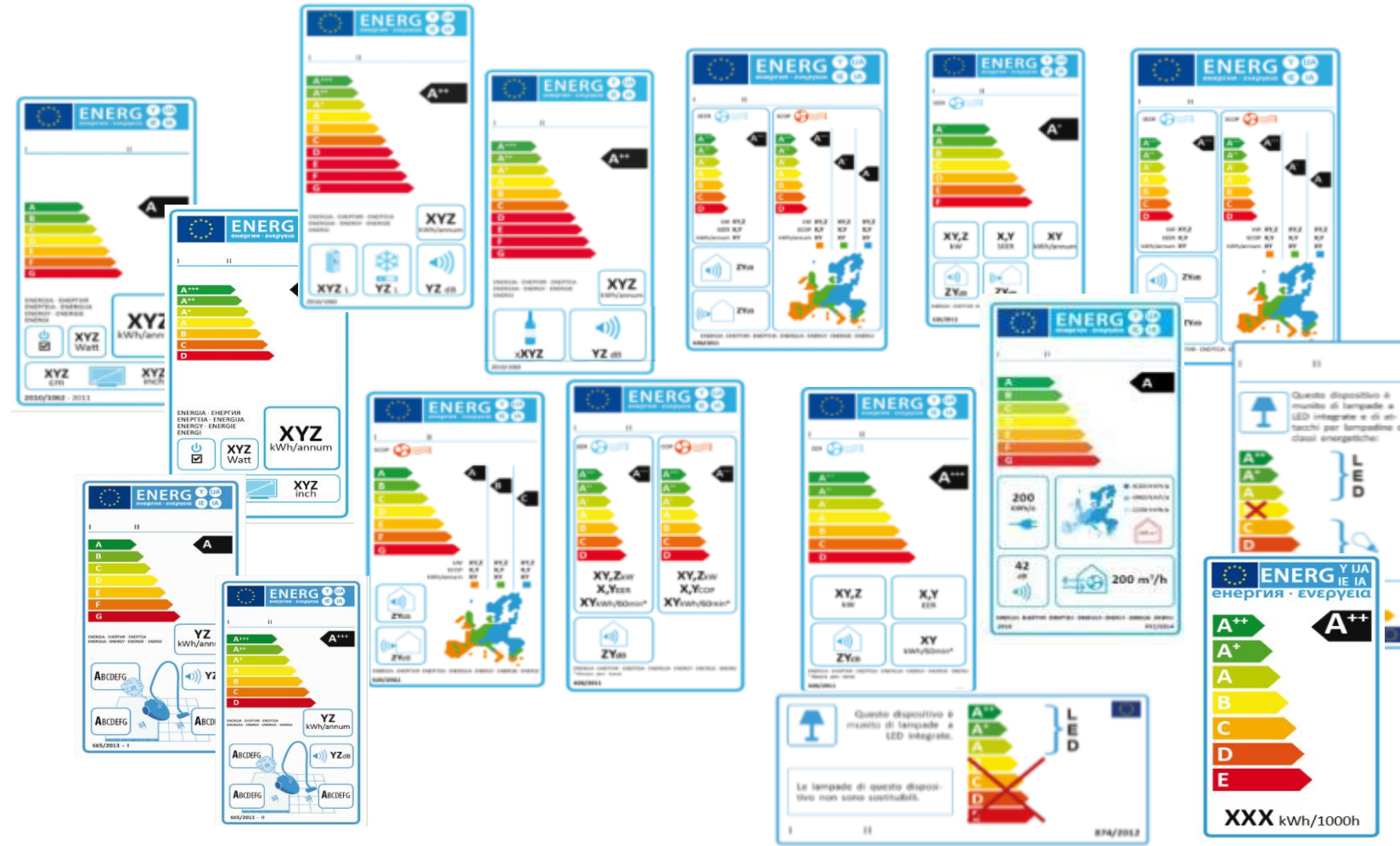
- Provides consistent EU-wide rules for improving the environmental performance of products
- Sets out minimum mandatory requirements for the energy efficiency and ecological performance of these products
- Helps eliminate least performing products from the market, significantly contributing to the EU's 2030 Framework
- Supports industrial competitiveness and innovation



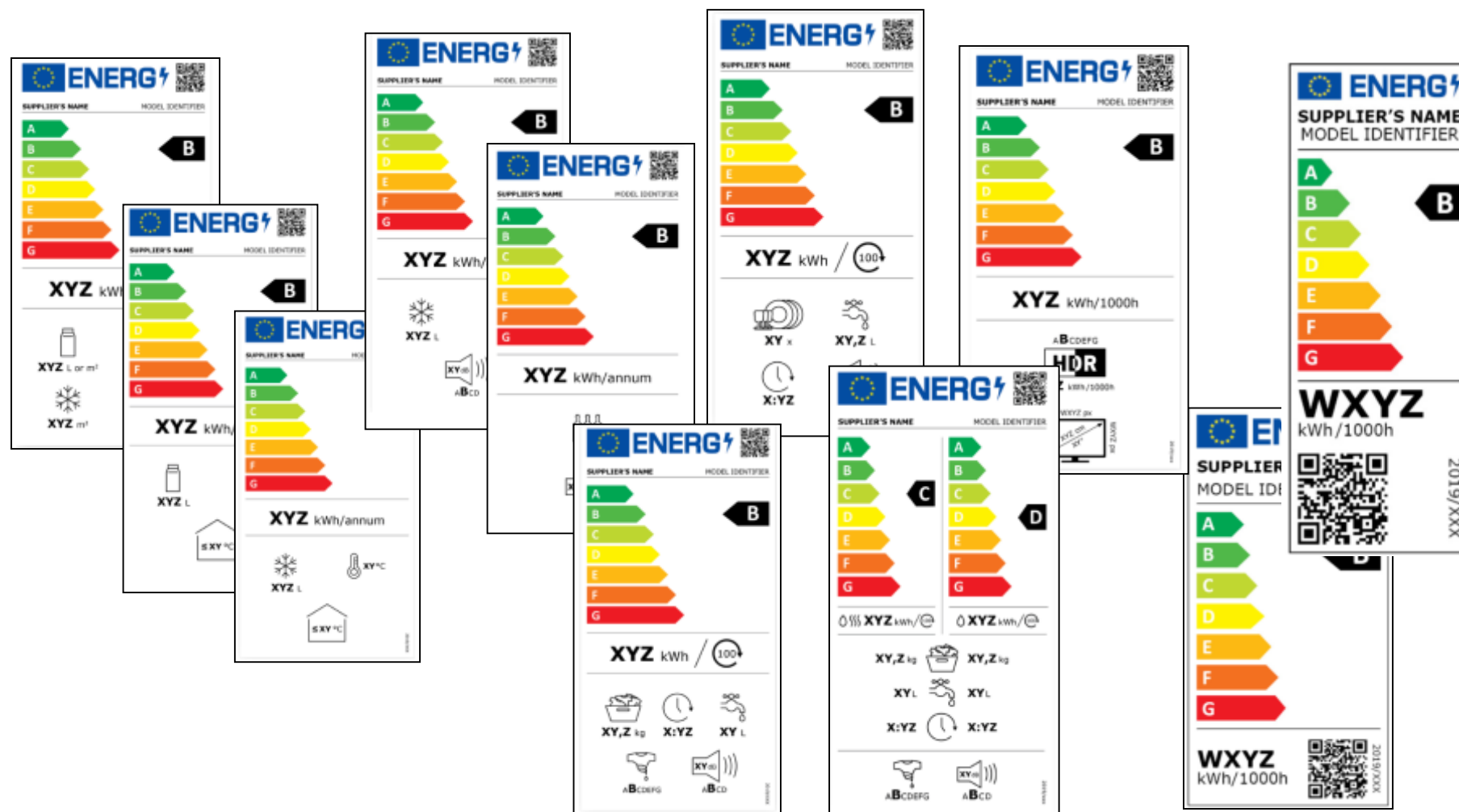
ENERGY LABELS IN EU 1994-2010



ENERGY LABELS IN EU 2011-2021

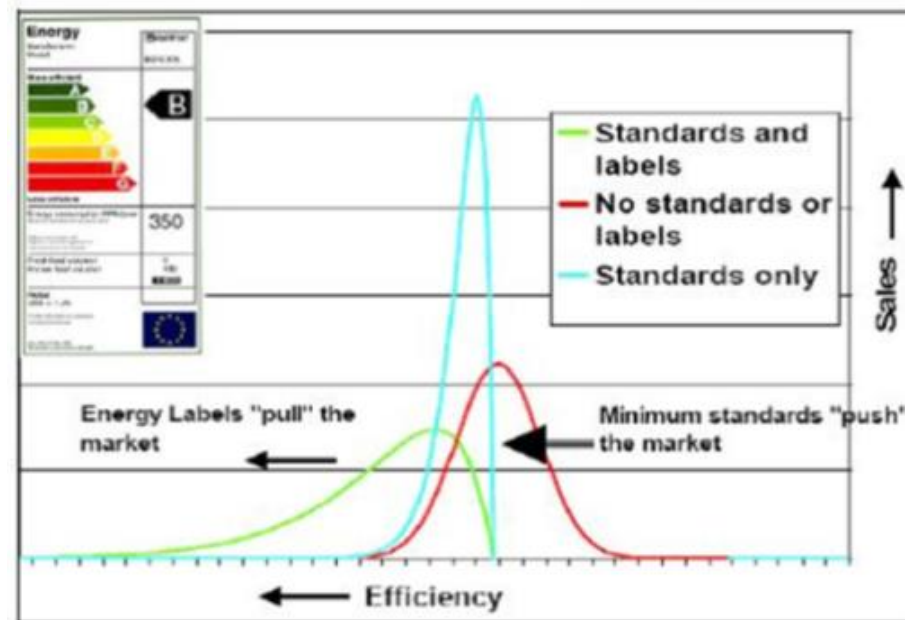


ENERGY LABELS IN EU AFTER 2021



The goals and the expected impact on the market are:

- **Ecodesign** measures '**push**' the market away from the worst performing products
- **Energy Labelling** measures '**pull**' the market towards more efficient products by better informing consumers



Ecodesign Lot 12

Main function: sales & display

- Remote display cabinets
- Plug-in cabinets
- Ice-cream freezers
- Commercial beverage coolers
- Ice-cream display



**Energy savings equivalent to 1/2
annual energy consumption of
Belgium in 2016**

■ COMMERCIAL DISPLAY CABINETS (Lot 12)

Main function Sales & Display



Remote cabinets



Plug-in cabinets



Ice-cream freezer



Gelato-scooping cabinets



Refrigerated vending machines



Commercial beverage coolers



AE = Annual Energy Consumption of the product in kWh/year

SAEC = Standard Annual Energy Consumption of the product in kWh/year

- **EEI= (AE/SAEC) × C × P**
- $AEC = E_{24h} \times 365$
- $SAEC = (M + N \times Y) \times 365$
- C= Product Temperature Coefficient
- P= Remote/integral unit coefficient
- Y= TDA or Equivalent Volume

■ ECODESIGN REQUIREMENTS

■ All equipment

MARCH 2021: $EEI < 100$

SEPT 2023: $EEI < 80$

■ Ice Cream freezers

MARCH 2021: $EEI < 80$

SEPT 2023: $EEI < 50$

Energy efficiency class	EEI
A	$EEI < 10$
B	$10 \leq EEI < 20$
C	$20 \leq EEI < 35$
D	$35 \leq EEI < 50$
E	$50 \leq EEI < 65$
F	$65 \leq EEI < 80$
G	$80 \leq EEI$

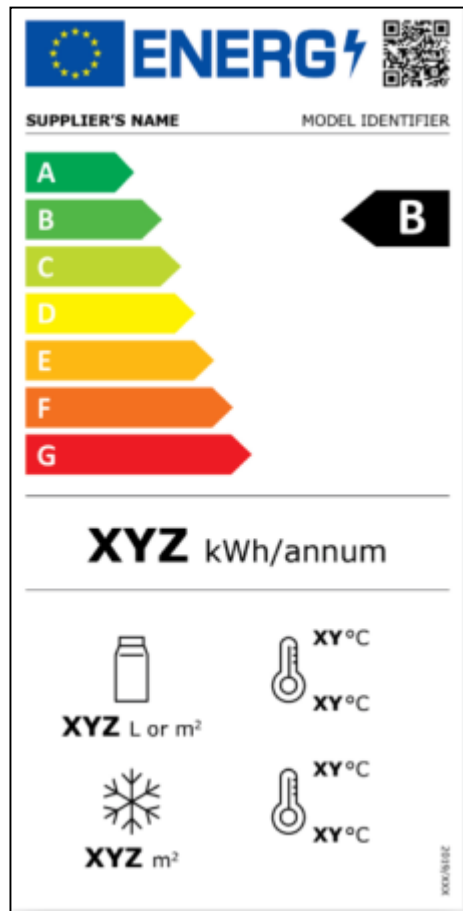
Products that do not comply with the a.m. limits will be banned from the European market

- Re-introduction of the original **A- to G scale** with periodic **rescaling every 10 years**
- The energy efficiency ratings must appear on **promotional materials and online sale**

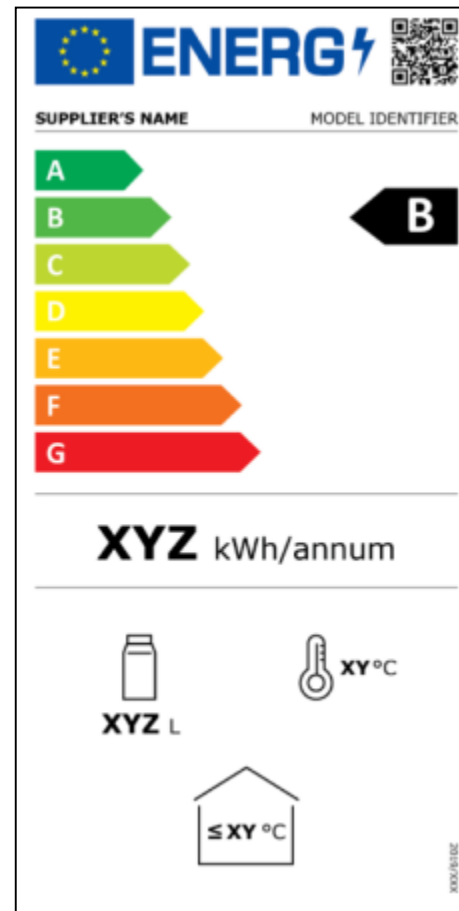
ENERGY LABELLING

First products to adopt the new Energy Labelling format

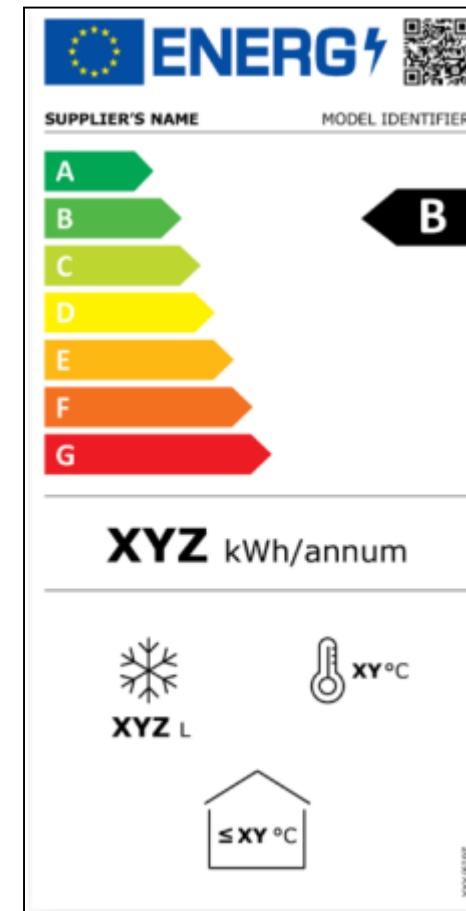
■ DISPLAY CABINETS



■ BEVERAGE COOLERS



■ ICE CREAM FREEZERS



- Refrigerating appliances with a direct sales function that do not use a vapour compression refrigeration cycle
- Refrigerating appliances with a direct sales function for the sale and display of live foodstuffs, such as refrigerating appliances for the sale and display of living fish and shellfish, refrigerated aquaria and water tanks
- Saladettes
- Horizontal serve-over counters with integrated storage designed to work at chilled operating temperatures
- Corner cabinets
- Vending machines designed to work at frozen operating temperatures
- Serve-over fish counters with flaked ice.

■ REFRIGERATED DISPLAY CABINETS

REVISION IN 2020

■ EN/ISO 23953-1:2015

Refrigerated Display Cabinets - Part 1:
Vocabulary

■ EN/ISO 23953-2:2015

Refrigerated Display Cabinets - Part 2:
Classification, requirements and test conditions



■ COMMERCIAL BEVERAGE COOLERS – ICE CREAM FREEZERS

■ EN 16902:2016

Commercial beverage coolers: Classification, requirements and test conditions

■ EN 16901:2016

Ice-cream freezers: Classification, requirements and test conditions



- As of 1 January 2019, suppliers (manufacturers, importers or authorised representatives) need to register their appliances, which require an energy label in the European Product Database for Energy Labelling (EPREL), before selling them on the European market.
- Consumers can look for product information by mid-2020
- **Energy labelling data of supermarket cabinets, beverage coolers and ice-cream freezers to be in EPREL by 1 March 2021**

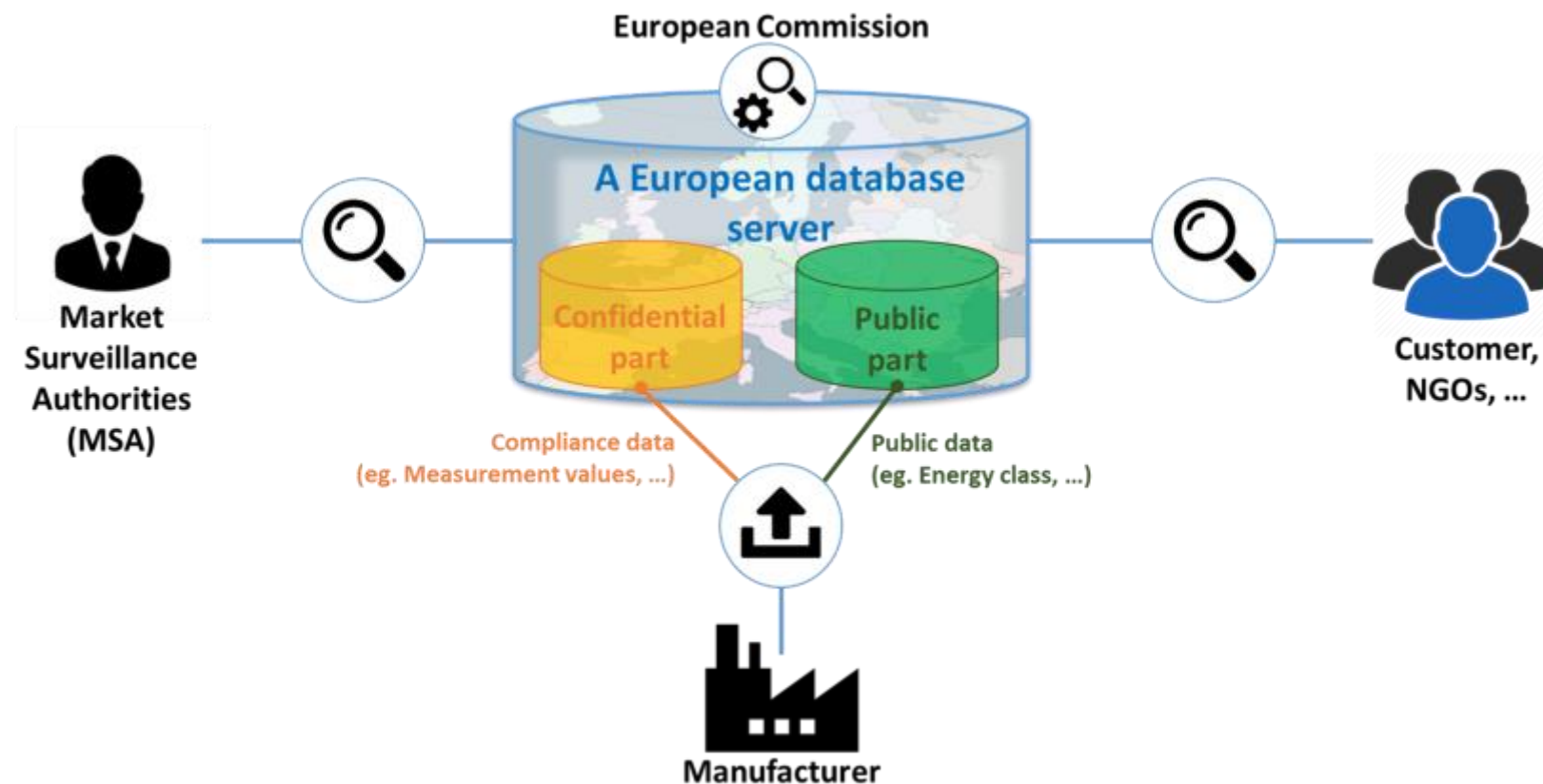
 The information will remain visible for 15 years after the product has been declared officially removed from the market

The main tasks

EPREL aims to provide:

- MSAs with product technical information updated by manufacturers
- The public with information about products and their energy labels
- The commission with up-to-date energy efficiency information for products for the purpose of reviewing energy labels

EPREL – EU PRODUCT REGISTRY FOR ENERGY LABELLING



CIRCULAR ECONOMY

- All **products and materials are highly valued**, unlike the traditional linear economy model based on “take-use-dispose”
- When a product reaches the end of its life, **the materials be maintained**, where possible, **within the economic cycle**, using them many times in the productive cycle, **re-using, repairing, reconditioning and recycling** them, thus creating further value
- **Extend the product’s life**, produce long-lasting goods, recondition and reduce waste production
- Specific requirements regarding **the availability and the maximum delivery time for the spare parts**, information on repair, maintenance and specific dismantling instructions to recover and recycle the materials to prevent disposal



**Thank you for your
attention.**

**CONNECTING
EXPERTS.**

