The EU Horizon 2020 project "ProCold"

A project that boosts supply and demand for the most energy efficient professional commercial plug-in refrigerators and freezers

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#### **Current market situation**

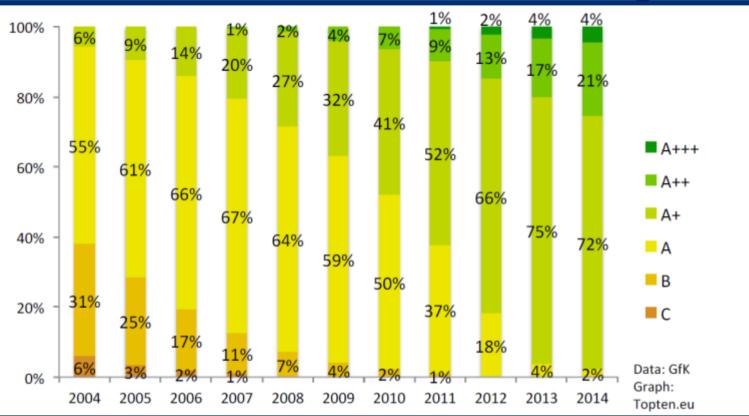
- More than 20 years ago the first EU-regulations for cold products in the household sector came into force → today class A+ are the lowest performing products on the market
- In 2015 regulations for professional cold products came into force
  - Since 1.7.2016 EU-Energy label & Eco-design for storage cabinets
- Professional cold products are inefficient compared to household products
  - EU-wide 12x less plug-in professional cold products than household refrigerators
     & freezers (~25 mio. units vs. ~300 mio. units)
  - Energy consumption only 2x less (~40 TWh/a vs. ~80 TWh/a)
- Large reduction of CO2-eq emissions and energy consumption are possible







# **Positive Effect of Regulations**

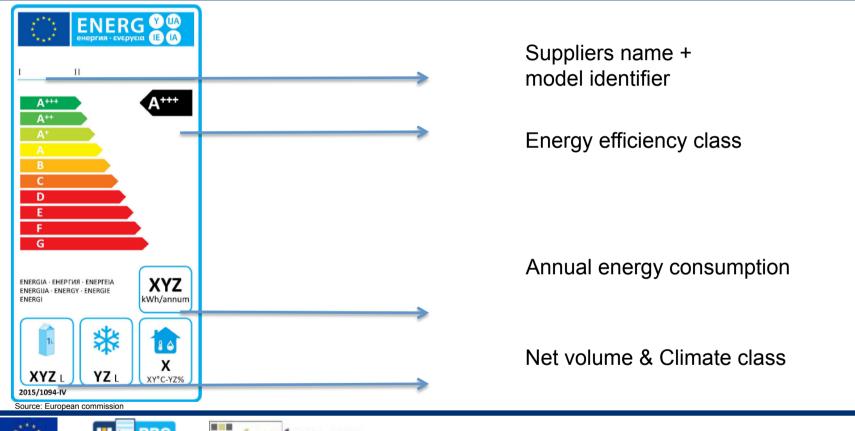








## First EU-Energy label for professional products









#### **About ProCold**

- ProCold is an EU-project aiming to improve energy efficiency of <u>plug-in</u> cabinets and to speed up the switch to climate-friendly refrigerants.
- Product groups: refrigerated storage cabinets, refrigerated display cabinets, beverage coolers, ice cream freezers, vending machines, wine coolers and minibars.















- The project involves manufacturers, suppliers, food & beverage companies, retailers, restaurants, hotels and public authorities on the EU-level and in 8 European countries.
- ProCold publishes online references of the best models and organizes a product competition <u>www.topten.eu/pro-cold</u>

















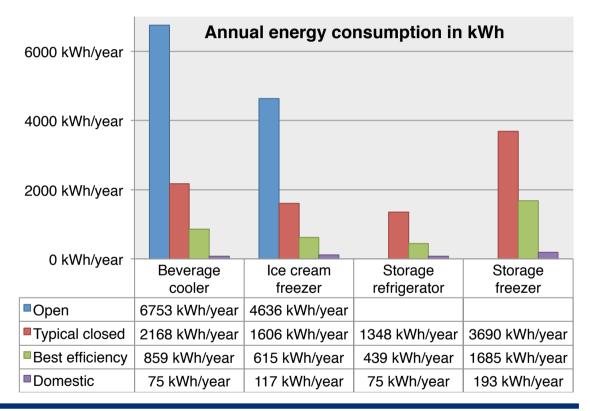






## **Energy saving potentials**

- Efficient models use
   2-3 times less energy
   than typical models
- Open products use the most energy: 8 times more than efficient models

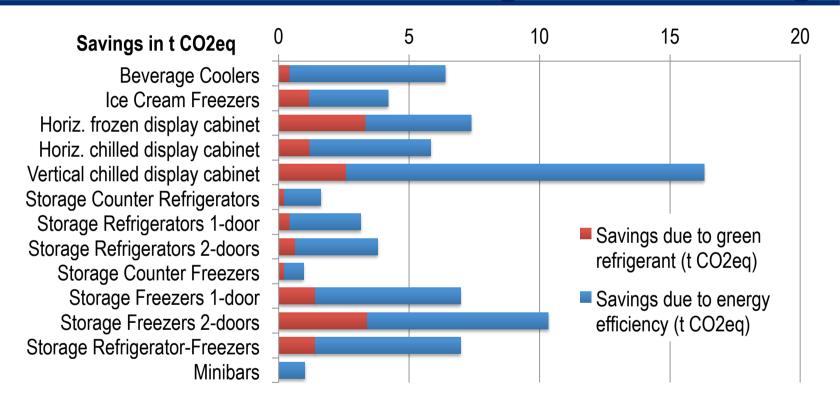








## **Greenhouse gas emission savings**

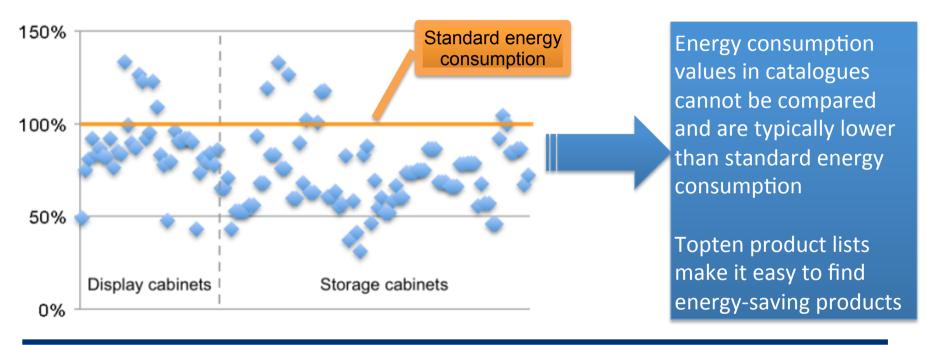








# Looking at kWh values in catalogues...













- 14 product categories
- Over 135 products listed
- 21 different manufacturers
- Natural refrigerant only
- Highest efficiency







### **Awareness Rising**

# The ProCold Project raises awareness on the market's demand and supply sides, targeting:

- Public authorities: Public procurement / Policy making
- Manufacturers: Getting ready for new regulations and measurement standards, benefit from international platform & specific dissemination activities
- Food & Beverage Industries: Reduce clients' energy bill, CSR policies
- Private users e.g. Retailers, Hotels, Restaurants: Reduce operational costs
- Service providers: Reduce clients' energy bill
- In total more than 1200 stakeholders will be contacted and supported with specific information material: brochures, calculation tools, factsheets...







### **Product competition**

#### Categories:

- 1. Vertical chilled storage cabinets
- 2. Beverage coolers
- 3. Small ice cream freezers
- 4. Vertical supermarket refrigerator cabinets
- 5. Refrigerated glass fronted vending machines











**Deadline** for product submission: 30 September 2016

www.topten.eu/pro-cold-award

Verification tests according to EN standards (published or drafts)

Award ceremony at EuroShop 5 - 9 March 2017

Promotion of winning products at Host 20 - 24 October 2017

#### Winning criteria:

- ♦ Plug-in type
- ♦ Natural refrigerant
- Best energy efficiency index







#### **ProCold details + partners**

**Coordinator**: ADEME, French agency for environment and energy management

**Partners**: Austria: Austrian Energy Agency, AEA

Czech Republic: The Energy Efficiency Center, SEVEn

France: Guide Topten

Germany: Oeko-Institut e.V.

Italy: Politecnico di Milano

Portugal: Quercus

Sweden: Swedish Society for Nature Conservation

Switzerland: Bush Energie

Website: www.topten.eu/pro-cold

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# Thank you for your attention

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