



F-GAS AND ECODESIGN:

INFLUENCES OF EU LEGISLATION
ON ITALIAN INDUSTRY



9 maggio 2016 / 9 May 2016

09.00 – 18.00

Hotel NH Laguna Palace

Mestre (VE)

Challenges for the HVAC&R Sector & EPEE's Strategy to Respond

EPEE – The European Partnership for Energy & the Environment
By Andrea Voigt, Director General



Overview

1. The new EU Heating & Cooling Strategy
2. The revision of the energy label
3. It is all about energy efficiency – EPBD, EED, Ecodesign
4. The new F-Gas rules
5. Impressions from EPEE's daily life
6. What's next?

A New Framework: The EU Heating & Cooling Strategy

Recognizing the Impact of Heating & Cooling



strengthening the reliability of energy performance certificates and reinforcing their signals for renewable energy as part of the EPBD review in 2016.



empowering of consumers to participate in demand response by looking into making advanced tools for metering, control and automation.



promoting renewable energy in its review of the EPBD, the EED and the RED and under the SET plan



integrating thermal storage (in buildings and district heating) into flexibility and balancing mechanisms of the grids in the RED and EED reviews.

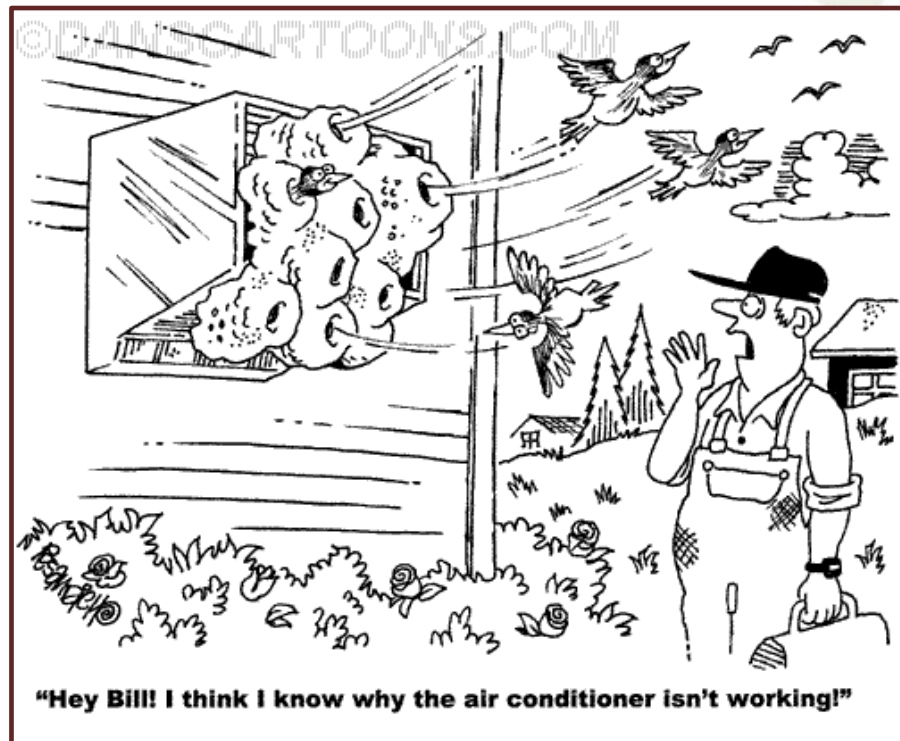


Improving training for building professionals, in particular through a new module for energy experts and architects



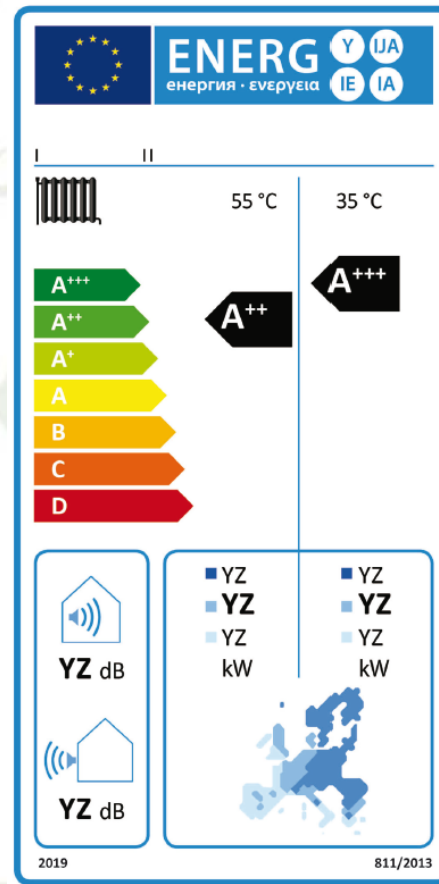
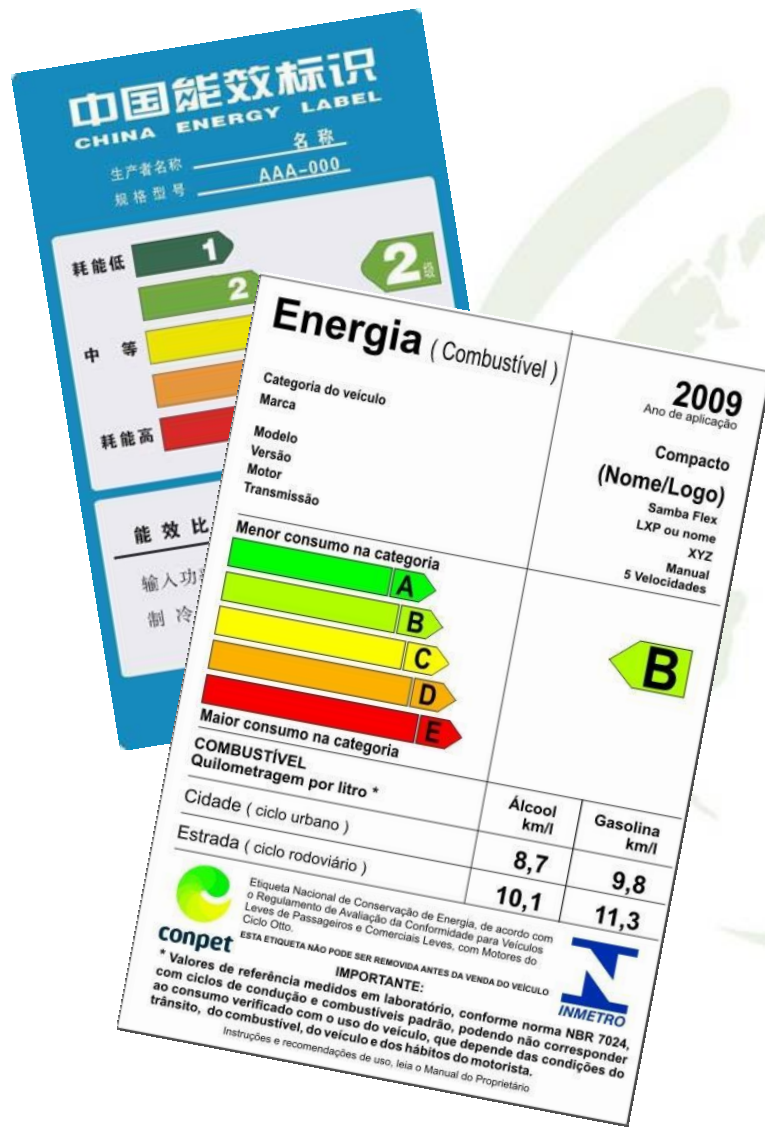
Tackle **financing** under the 'Smart finance for Smart Buildings' initiative notably by encouraging retail banks to offer products **adapted for renovation of privately rented buildings** and disseminating best practices, also in relation to **tax treatment of renovation**.

EPEE's Answer: The Importance of a Holistic Approach



**Design – sizing – installation – control – maintenance of HVACR equipment:
All play a key role to reduce energy demand**

The Revision of the Energy Label: A Success Story – Even Beyond Europe



But what
comes after
the +++ ?

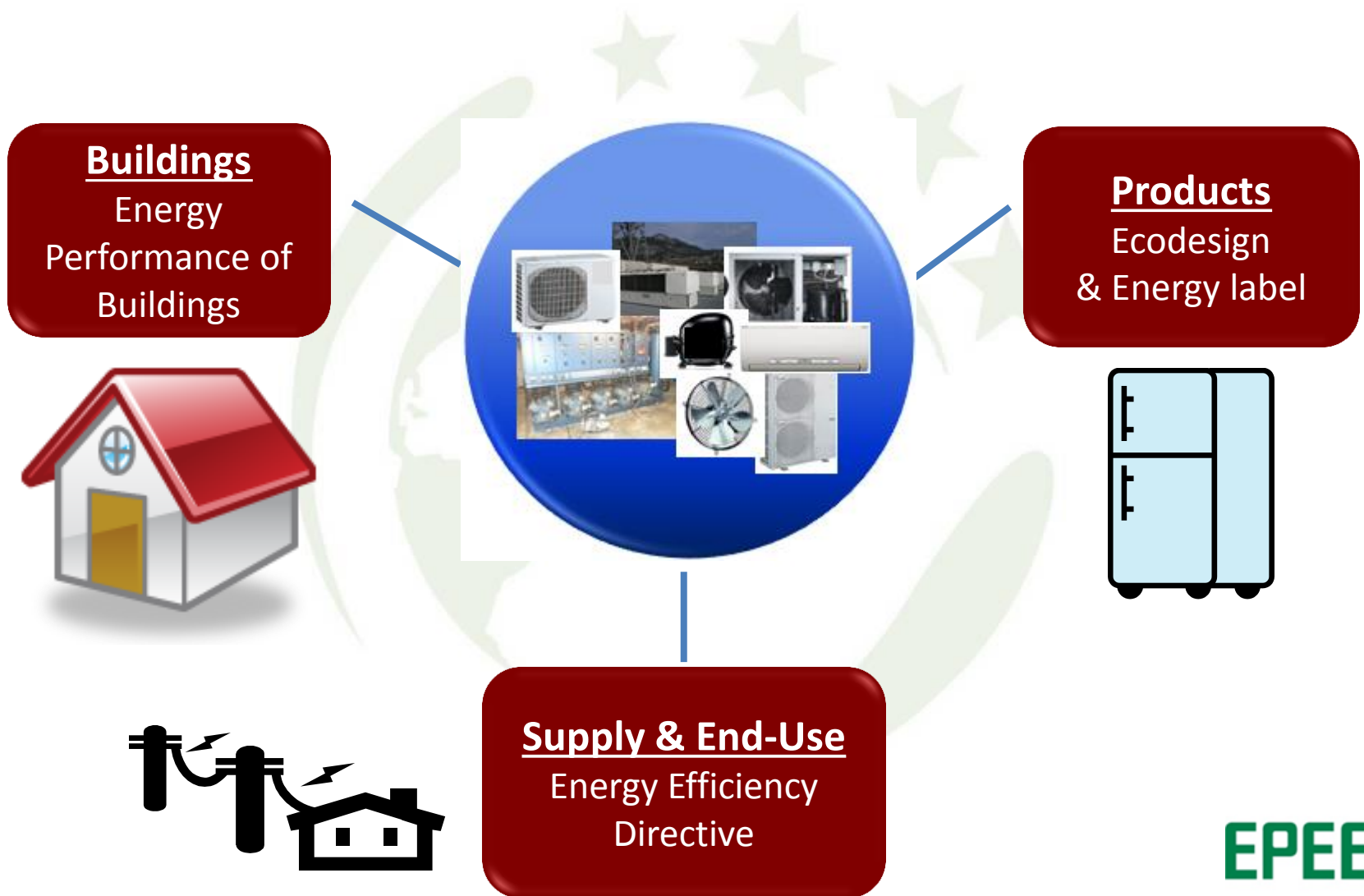
EPEE's Answer: Provide Meaningful Guidance to Consumers



Overpopulation of classes makes it impossible to distinguish individual products and take the right decision

- ⇒ We want re-scaling when top classes are overpopulated – for new and existing labels
- ⇒ We want all classes to be visible, at the bottom & the top

EPBD – EED – Ecodesign: It's all about Energy Efficiency



Ecodesign in the Spotlight: HVAC&R is Strongly Impacted

In Force

- EU 327/2011: Motor driven fans
- EU 206/2012: A/C $\leq 12\text{kW}$ & comfort fans $\leq 125\text{W}$
- EU 813/2013: Space & Water Heaters $< 400\text{kW}$
- EU 2015/1095: Process chillers, condensing units, professional refrigeration

Upcoming

- Air Heating & Cooling Products, HT Process Chillers (Under Scrutiny)
- Refrigerated commercial display cabinets (Interservice Consultation to start)
- Smart appliances (Preparatory Study on-going)

Review

- Motor driven fans (review ongoing)
- A/C $< 12\text{kW}$ & comfort fans (review to start)

EPEE's Answer: Europe Needs An Orchestra of Instruments



Enforcement

- Further strengthen and implement existing legislation to exploit the full energy savings potential in new and existing buildings



Balance

- Products have already been optimised to a very high level
- Ensure that Ecodesign efforts are balanced with efforts on other legislation



Synergies

- Align and create synergies between existing legislation
- Link energy performance requirements also to technical building systems
- Improve monitoring, evaluation and validation of systems
- Ensure focus on renovation



Building systems

- Combine HVAC&R with building automation control systems
- Create thermal networks through district heating & cooling where buildings are part of the energy system



Renewables

- Fully integrate renewable energies both in decentralised and in centralised systems

The New EU F-Gas Rules:

Reducing emissions. Moving to lower GWP solutions.

2050 EU Low Carbon Roadmap
Global Leader
2006 Regulation only stabilising

Containment & Competence

Regular leak checks

Certification and training of installers

PREVENT EMISSIONS

NEW

Phase-Down

Consumption
Reduction of HFCs

Y 2020:
-37%

Y 2030:
-79%

REDUCE THE USE OF HIGH GWP HFCs



GWP Limits

2015: GWP 150
Fridges & Freezers

2020: GWP 150
Moveable A/C

2020: GWP 2500
New Stat. Refr.
Equipment & service,
maintenance

2022: GWP 150
Multipack refrigeration
systems >40kW (except
cascades: GWP1500)

2025: GWP 750
Single split a/c < 3kg



Others

2015: Reporting
obligations

2017:
Traceability
systems for pre-
charged
equipment

2015 – 2022:
various reports

CONTROL & MONITOR

EPEE's Answer: Follow Implementation & Ensure it Will Happen

- Promote EN13313



Skills

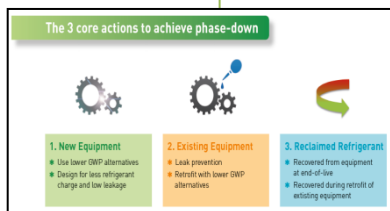
- Events
- Factsheets
- Videos



Awareness

Monitoring

- Gapometer



Global Action

- GRMI, RDL
- UNEP, CCAC



Impressions from EPEE's Daily Life

Milan



Paris



Dubai



Brussels



Brussels



Beijing



Tokyo



.... And EUREKA 2016!

EUREKA[★]2016

Heating, Cooling & Ventilation: Sustainable technologies for a better life

13 DECEMBER – THE HAGUE – THE NETHERLANDS

- ✓ A unique collaboration between EPEE & EVIA
- ✓ A unique networking opportunity
- ✓ A unique combination of political sessions and break-out sessions
- ✓ 150 – 200 participants

More info: <http://www.eureka-hvacr.eu>

Thank you very much for your attention!



Contact details:

EPEE
46 Avenue des Arts
1000 Brussels, Belgium

email: secretariat@epeeglobal.org

Web: www.epeeglobal.org

Twitter: @EPEESecretariat