



Energy Efficiency and its role in the EU  
CCAC Workshop

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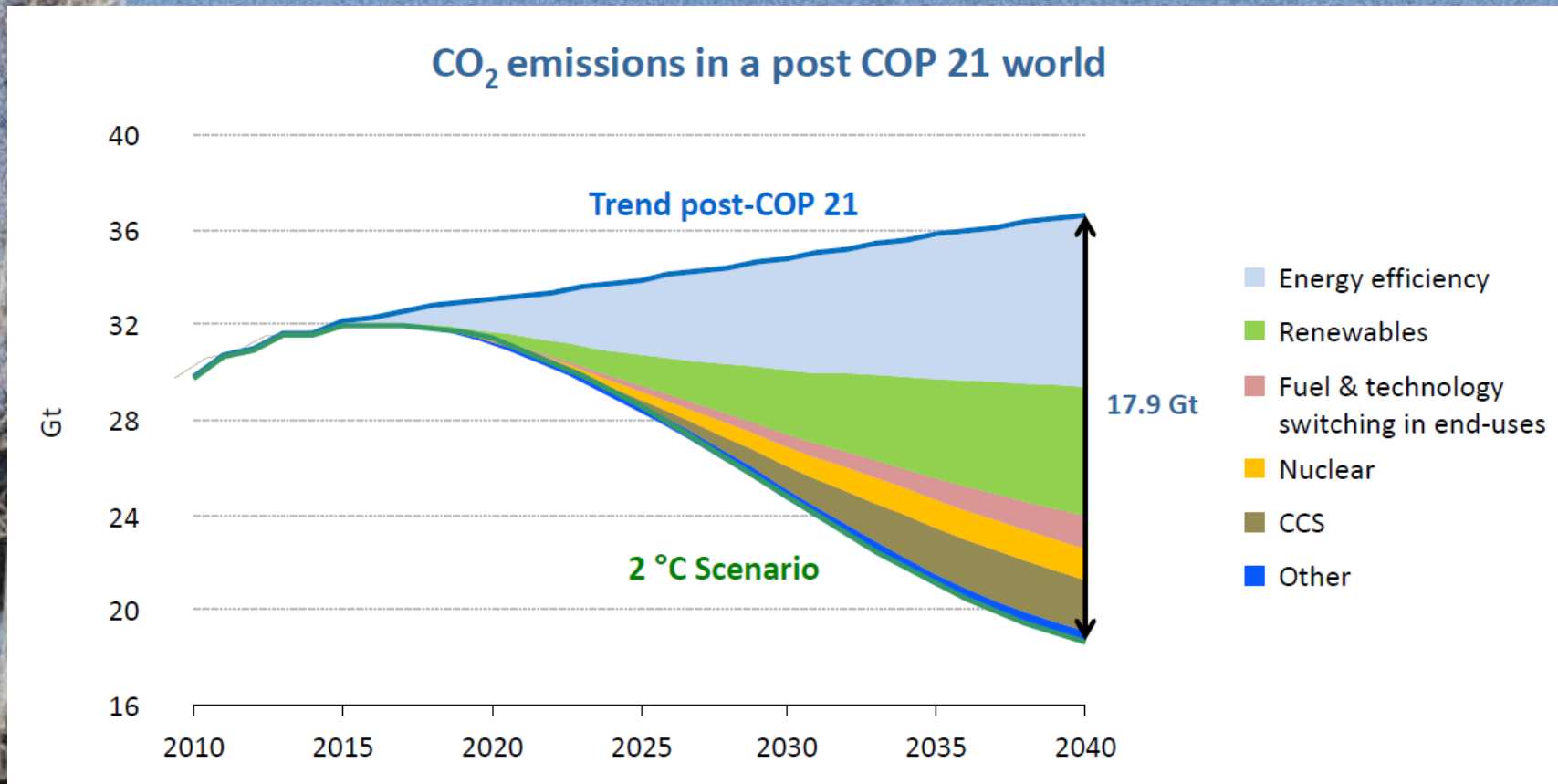
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Nov  
2017

# Who is EPEE?

1. Small, medium and large companies
2. > 200,000 employees,  
> €30 billion TO
3. Production sites everywhere in Europe
4. Priorities:
  - Energy Efficiency
  - Refrigerants
  - Market Surveillance



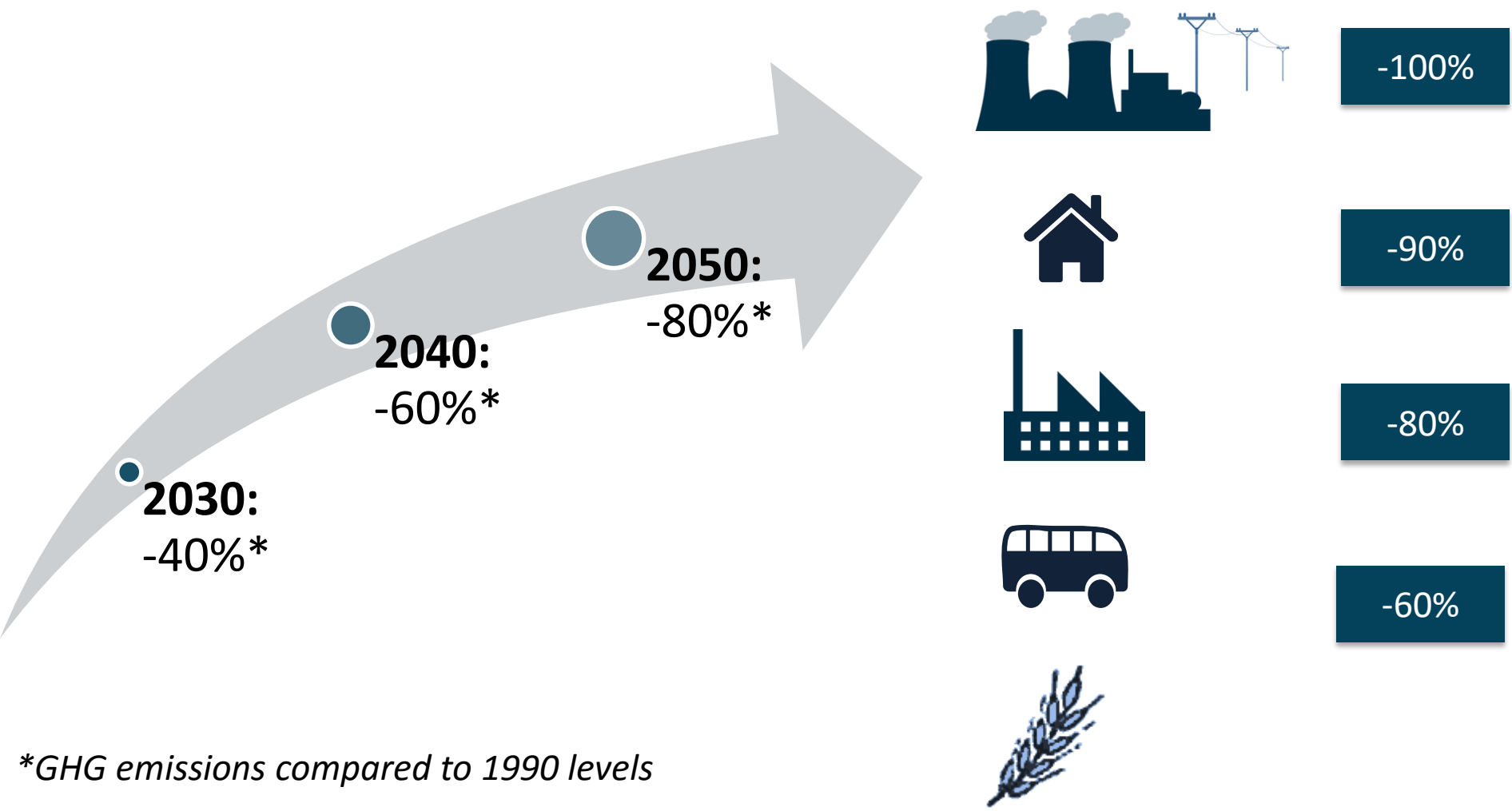
# The Paris Agreement and how to achieve it



In a nutshell

**LESS ENERGY– MORE RENEWABLES**  
**TWO SIDES OF THE SAME COIN**

# EU long-term goal 2050 Roadmap for a low carbon economy



\*GHG emissions compared to 1990 levels

# Milestone: Climate and Energy Package by 2030



40% GHG Reduction



27% Renewables



27% Increase of Energy Efficiency

**Affordable energy  
for all Europeans**

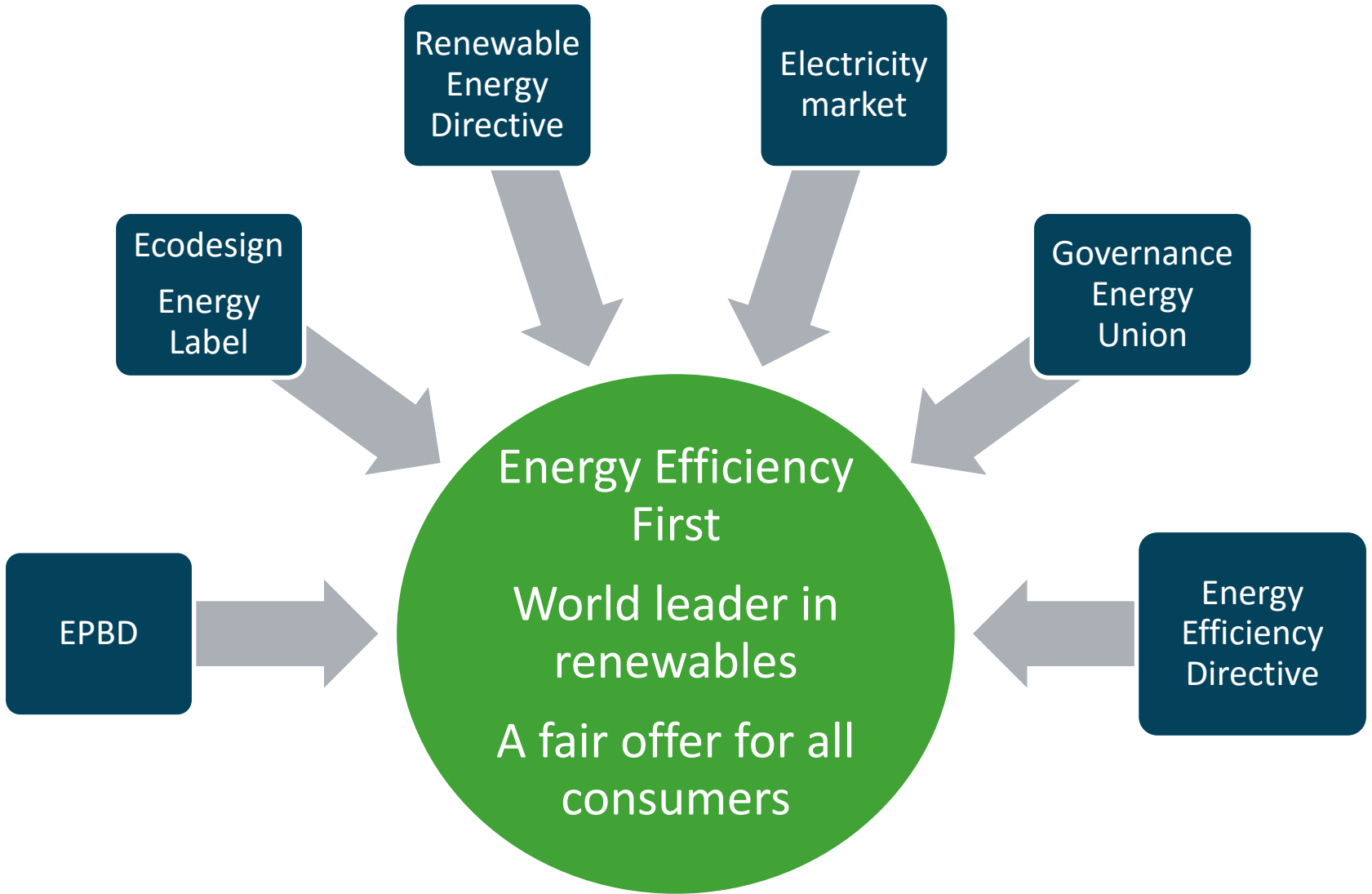
**Energy security**

**Independance of  
energy imports**

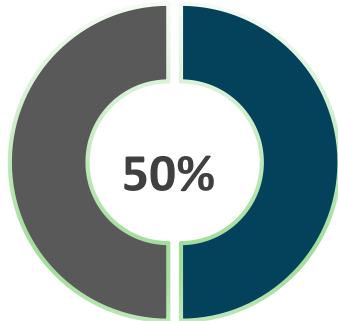
**Growth and jobs**

**Protection of health  
and environment**

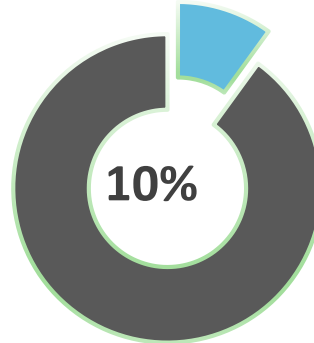
# The EU Clean Energy Package



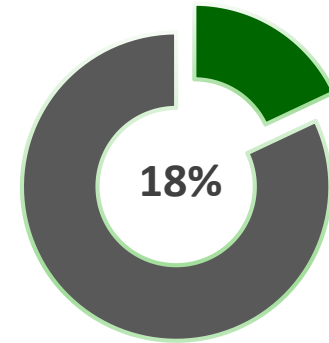
# Heating & Cooling: an enormous potential



Heating & Cooling:  
**50% of the annual energy consumption** in the EU



Energy Efficiency can save  
**10% of energy** for heating & cooling



Renewables deliver **only 18% of energy** for heating and cooling yet

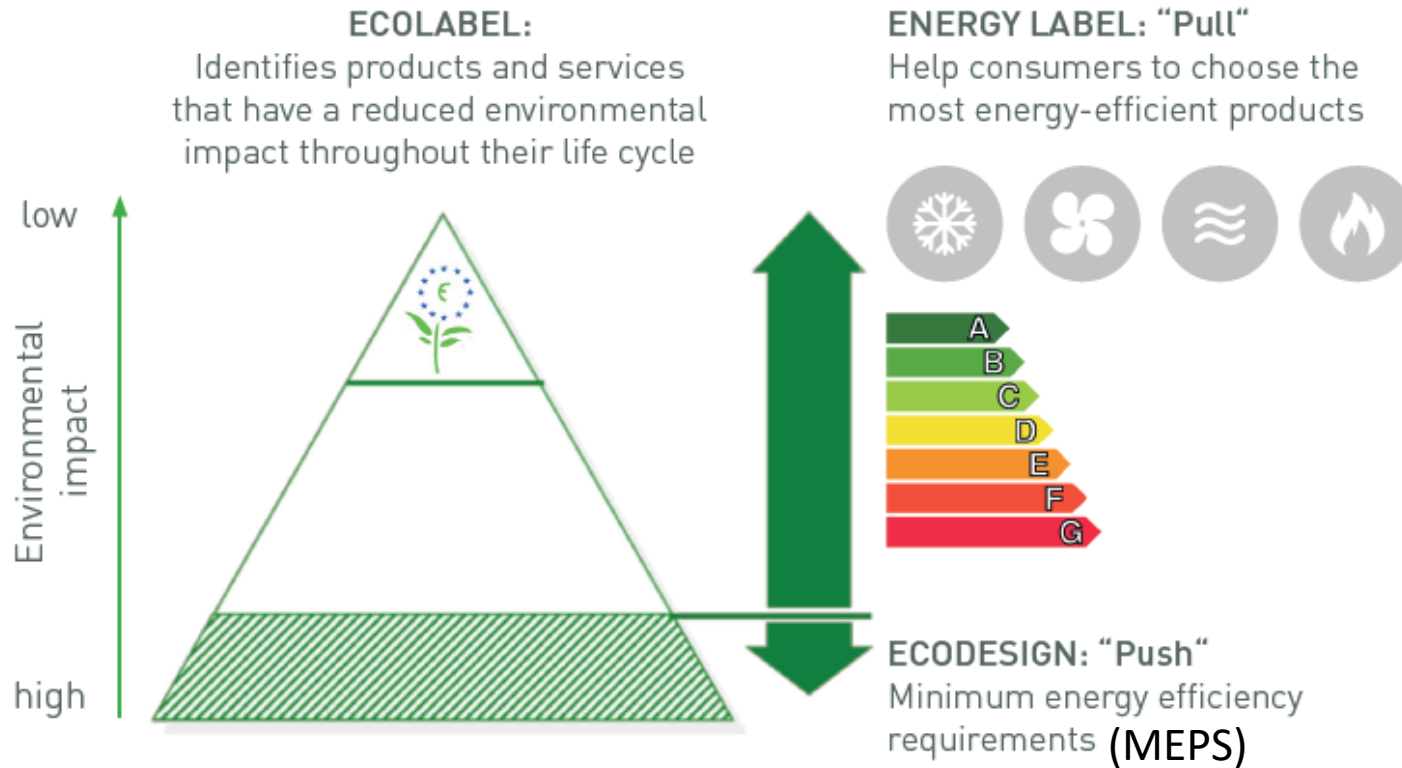
Products

Buildings

Decarbonisation

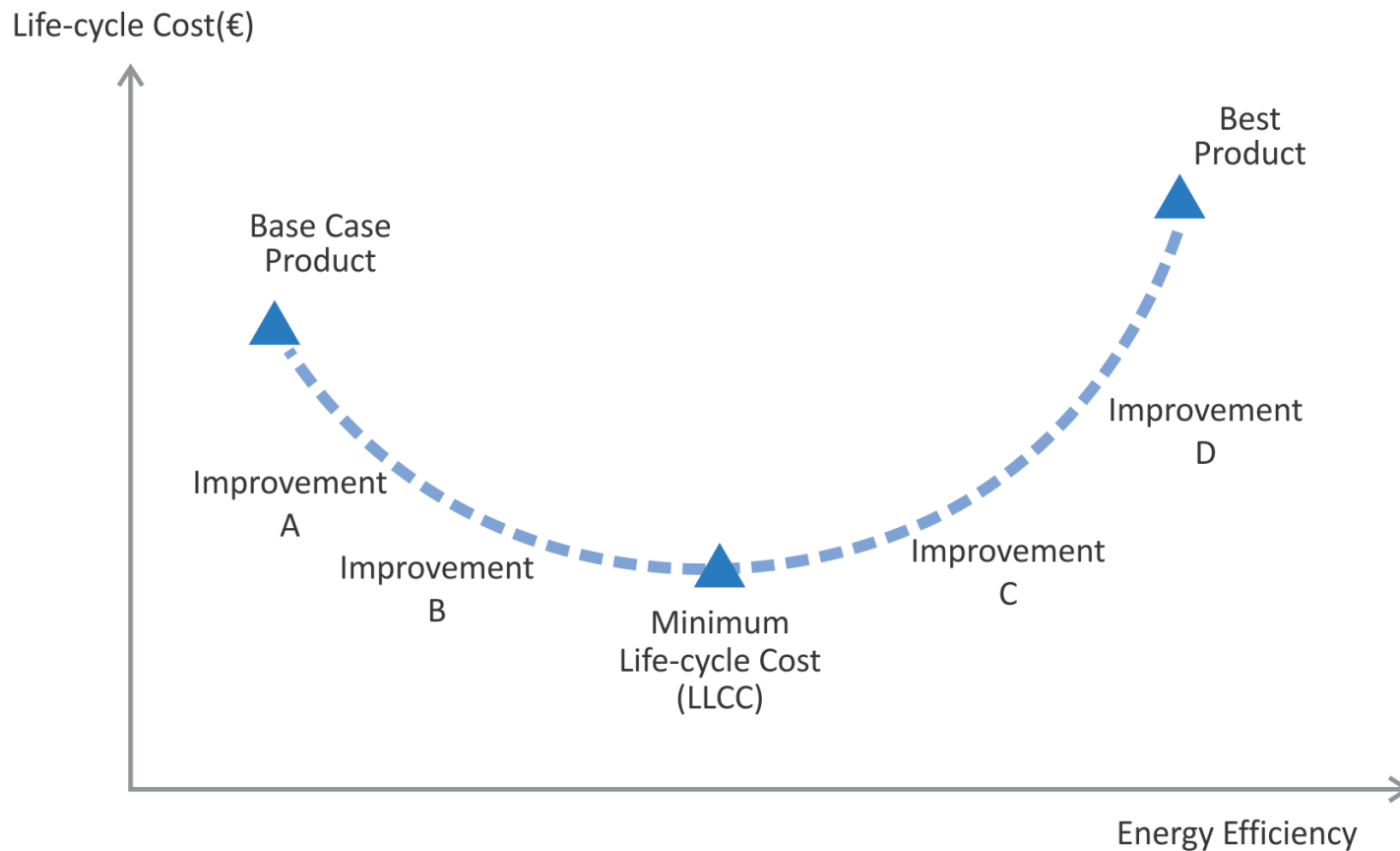


# Focus on products: Ecodesign & Energy Label



- ✓ Annual energy savings equivalent to the energy consumption of Italy
- ✓ Energy savings of **€500** per year per household
- ✓ Additional **€55 billion** revenues for industry and retail sectors

# The basis for Ecodesign: Least Life Cycle Cost (LLCC)



# Key ecodesign measures for HVACR

## 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

EU 2016/2281: Central air heating and cooling products  $>12\text{kW}$

## Upcoming

Refrigerated commercial display cabinets (Interservice Consultation on-going)

Smart appliances (preparatory study on-going)

Building Automation Control Systems (started)

Reefer Containers (in the working plan, not started yet)

## Review

Motor driven fans (review ongoing)

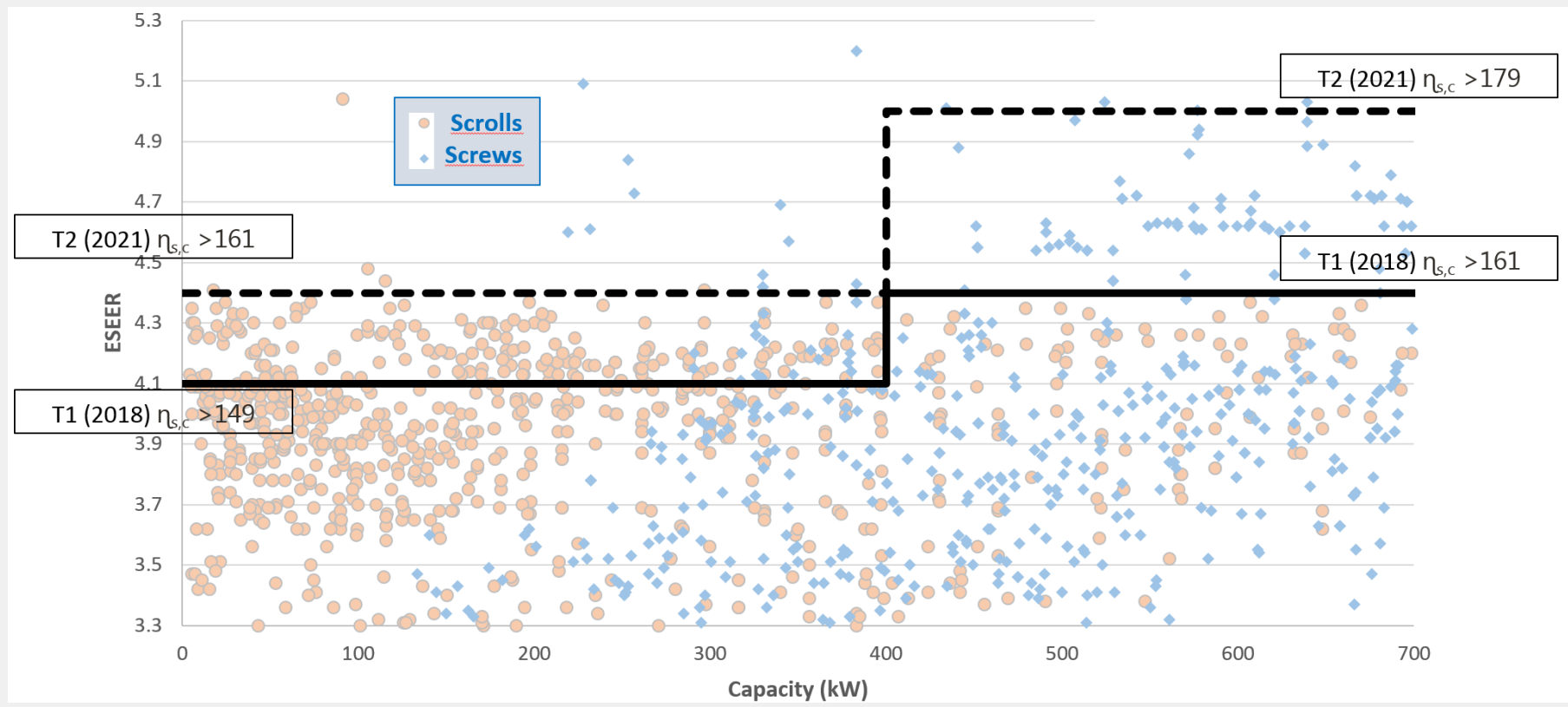
Motors (review ongoing)

A/C  $< 12\text{kW}$  & comfort fans (review ongoing)

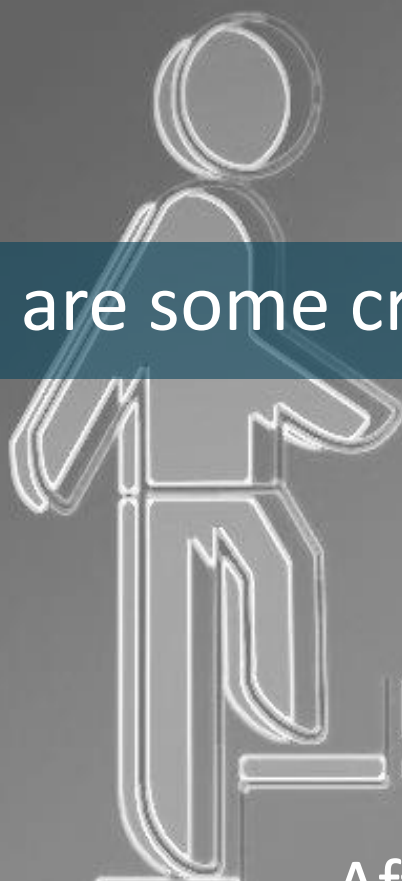
Space and water heaters (review ongoing)



# Ex: Expected impact of Ecodesign measure for air cooled chillers >12 kW



But there are some criteria that are key for success



SUCCESS

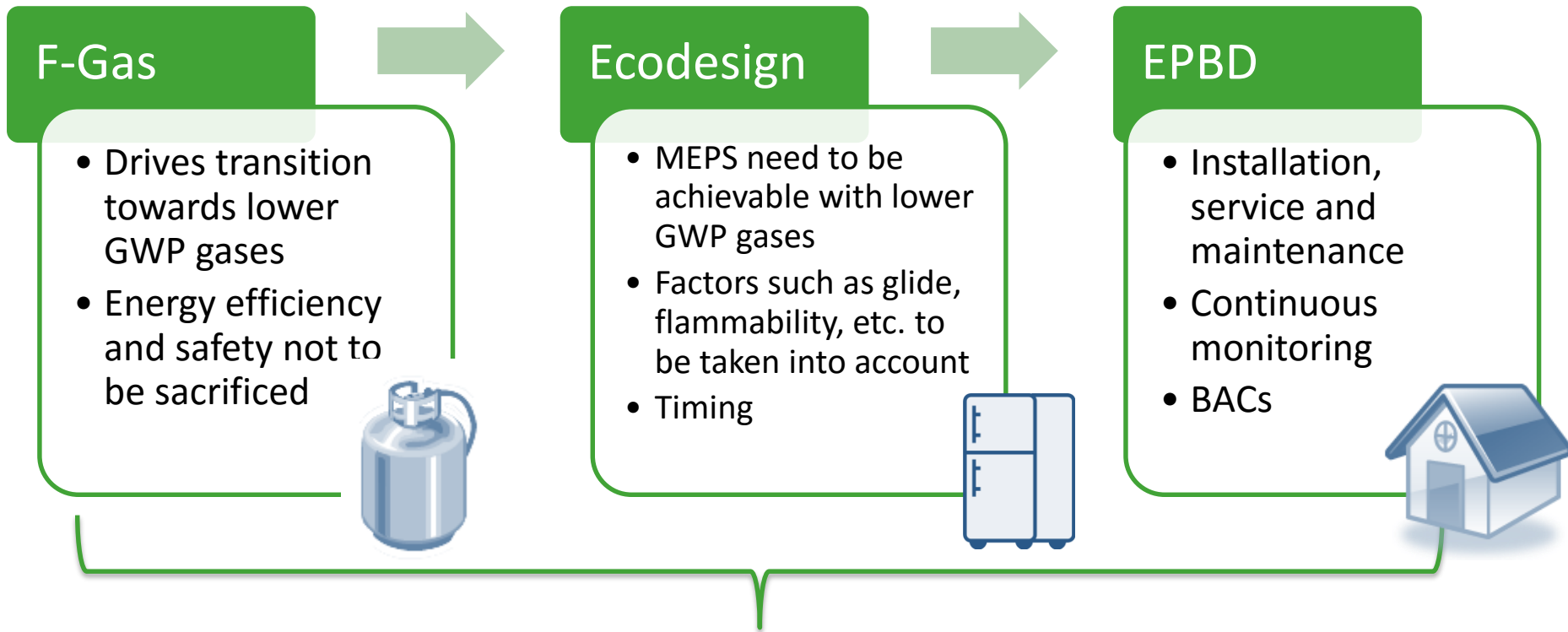
Affordable products for consumers

Achievable level of ambition

Measurable & verifiable requirements

Technically neutral MEPS for design freedom

# We need a coordinated approach



Standards and Building Codes  
Competent installers



Conclusion:  
We need to get the balance right



Energy Efficiency vs. GWP

Affordability vs. Ambition Level

Products vs. Buildings

# Thank you for your attention – Questions?



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