

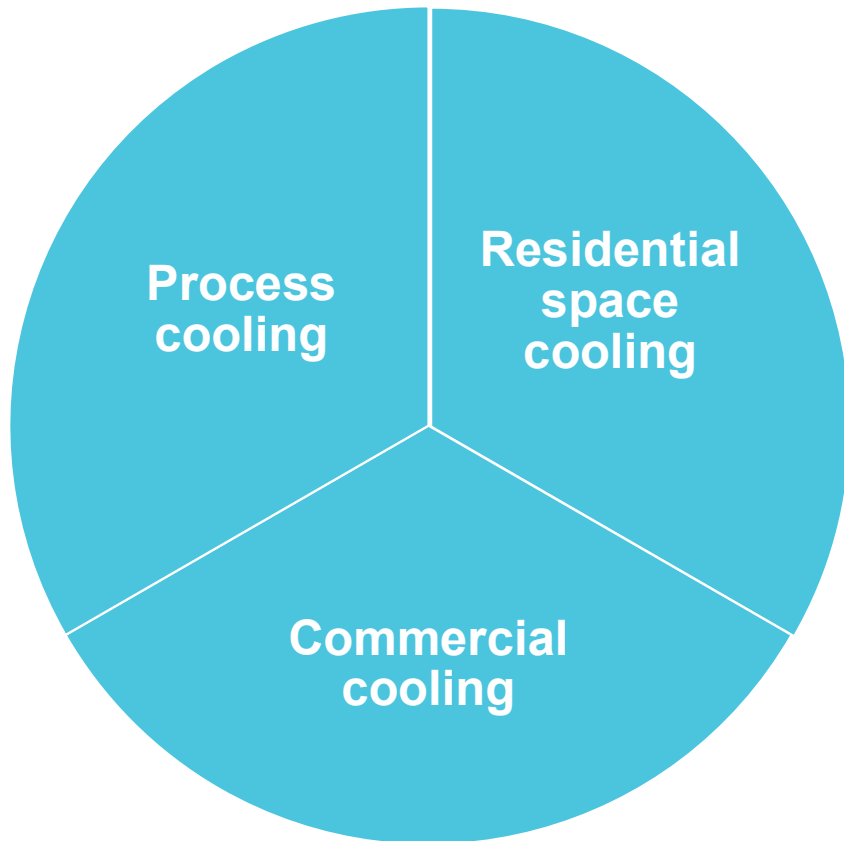


# Clean transition in cooling

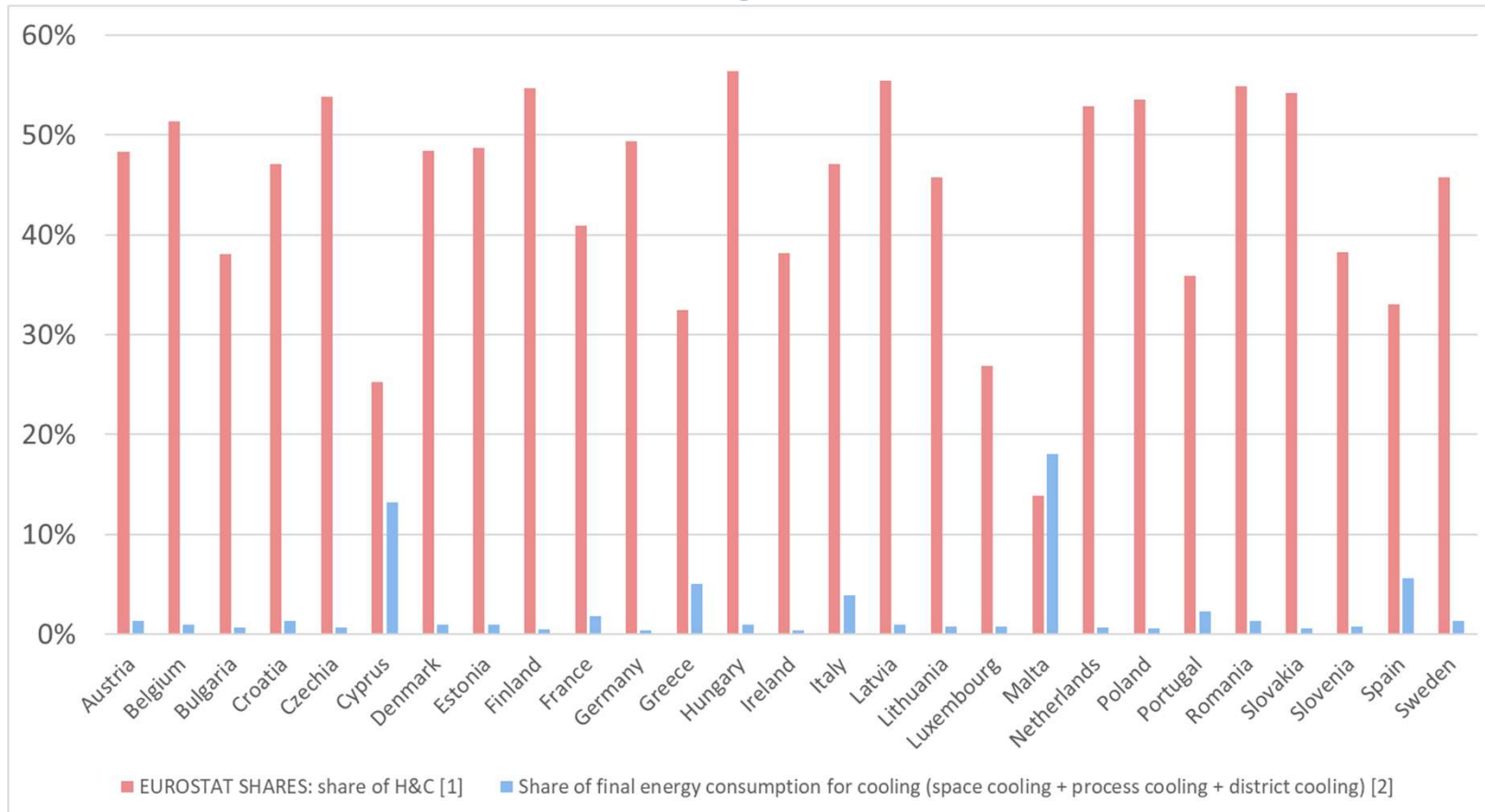
Cooling Down Day – Tackling the Cooling Demand for Urban Heat Islands, Grids and data centers

1.04.2025

*Madis Laaniste*  
*DG Energy*



# Share of cooling demand (2016)



[1] <https://ec.europa.eu/eurostat/web/energy/database/additional-data>

[2] Renewable cooling under the revised Renewable Energy Directive (2022), <https://op.europa.eu/s/z4J5>

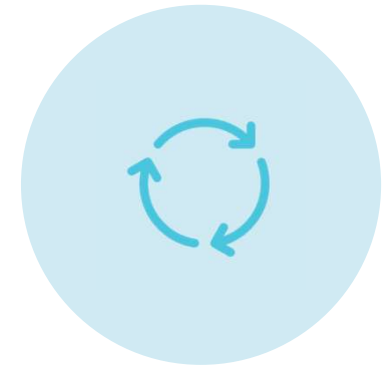
# Sectoral challenges



MODERATING COOLING  
DEMAND



MORE EFFICIENT COLD  
SUPPLY



BETTER ENERGY SYSTEM  
INTEGRATION

# Policy framework

## Product legislation

- Ecodesign
- Labelling

## Planning

- EPBD: Building energy performance requirements
- EED: Local heating and cooling plans, CBAs
- RED: Sectoral targets

## Operation

- EED: energy audits, energy management systems, criteria for efficient DC
- EPBD: regular inspections for large appliances

# Affordable Energy Action Plan: Lowering energy costs

**Action 1** 2025  
Making electricity bills more affordable

More efficient network charges

Reduced taxes & levies

Increased retail competition

**Action 2** 2025  
2026  
Bring down costs of electricity supply

Long-term electricity supply contracts

Reduced permitting times

Grid expansion & modernisation

Boosting flexibility

**Action 4** 2025  
Energy efficiency – delivering energy savings

An energy efficiency market of European dimension

Give consumers access to more efficiency appliances & products

# Affordable Energy Action Plan: Completing the Energy Union



Q1  
2026

**Electrification Action Plan**



Q1  
2026

**Heating & Cooling Strategy**

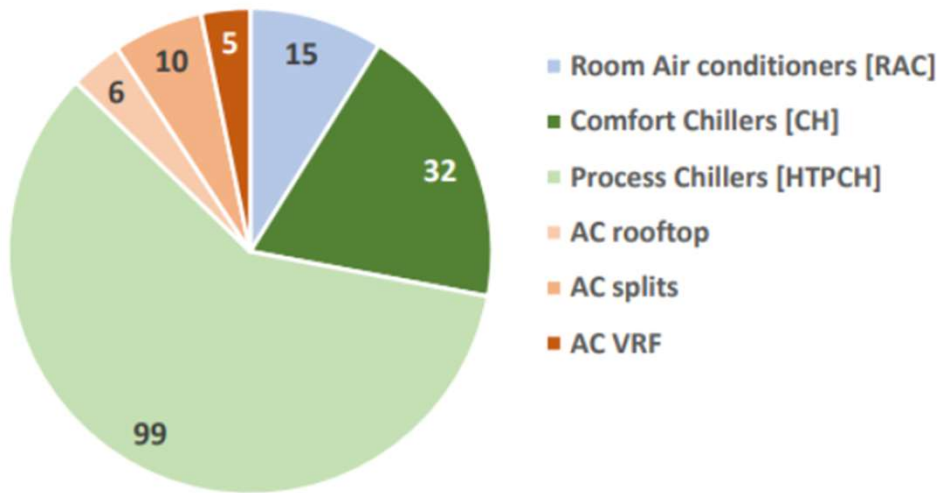
# Energy efficiency requirements for cooling products

- Small air conditioners
  - Energy label (2011), Ecodesign minimum energy efficiency requirements (2012)
  - Revision on-going, main points:
    - Merged label for all air conditioner types (allow end-users to compare various products on a single label)
    - Merged label in heating mode (all types of local heaters, including electric radiators and stoves)
    - Label and MEPS for comfort fans
    - Increased MEPS as far as regulations on refrigerant fluids allow (Fgas, PFAS)
- Large air conditioners and chillers (up to 2 MW)
  - Ecodesign minimum energy efficiency requirements (2016)
  - Revision just started, main points
    - Include air conditioners for computer rooms
    - Increased MEPS as far as regulations on refrigerant fluids allow (Fgas, PFAS)

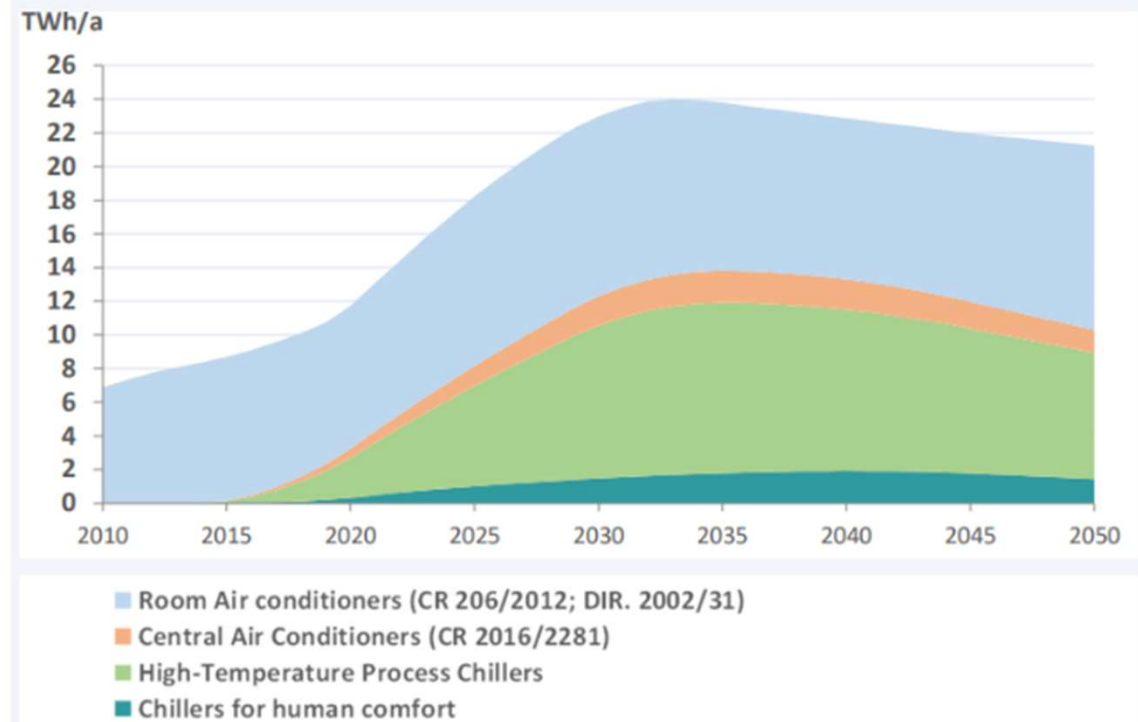


# Estimation of savings with regulations in force

EU27 Total Electricity Consumption of Space Cooling Appliances in 2020



EU27 Electricity Savings for Air Cooling



# Thank you!



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