

CHALLENGE TO LITHUANIAN ENERGY: LOSE  
THE CHANCE OR USE THE EU EXPERIENCE

Vilnius, 30. September 2009

## District heating with renewable and municipal waste in Europe

### Euroheat & Power

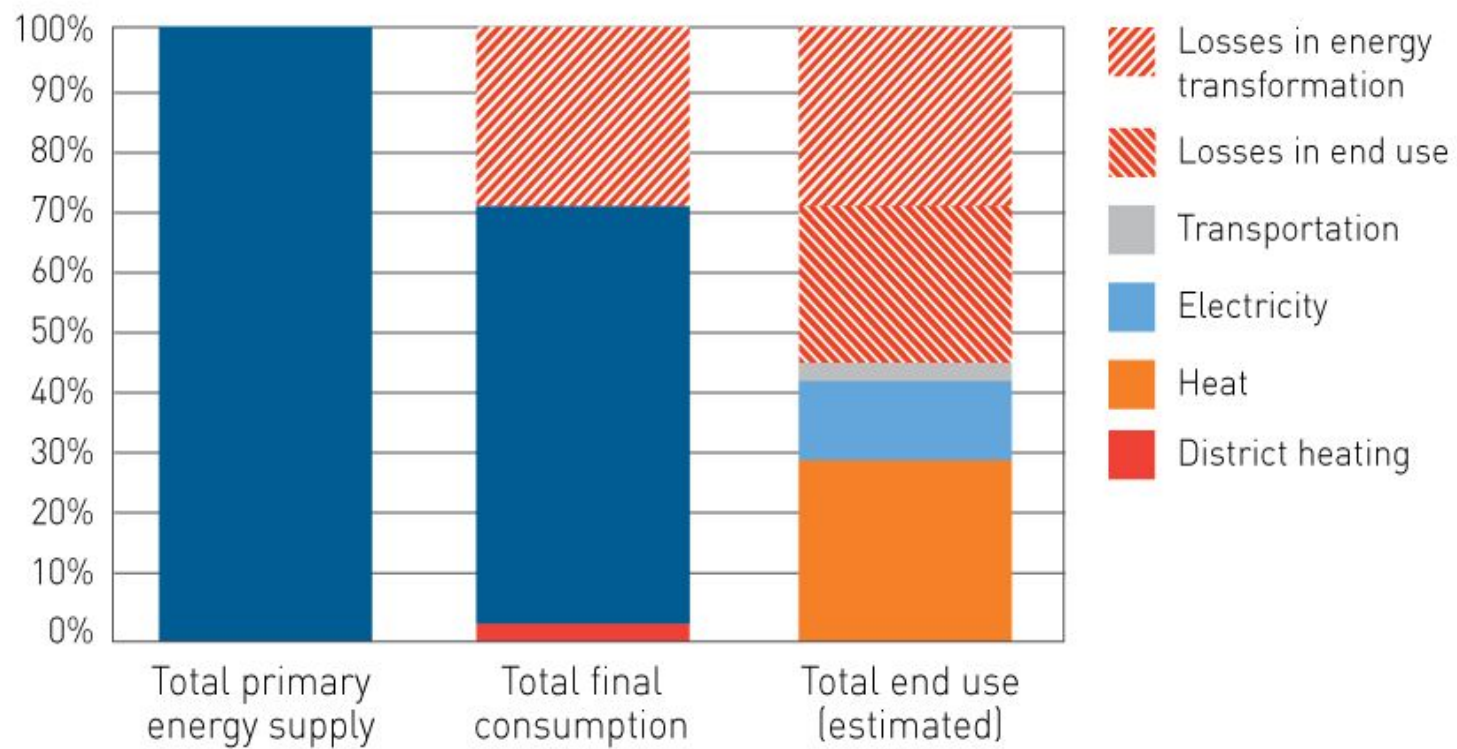
Birger Lauersen,

Vice President  EUROHEAT  
& POWER

Manager International Affairs 



# Europes energy



# Our energy hierarchy



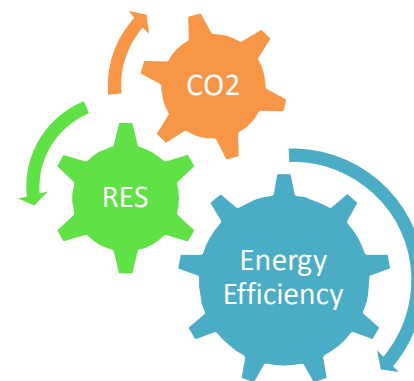
Enhanced end-use efficiency

Reuse/recycle  
(DHC)

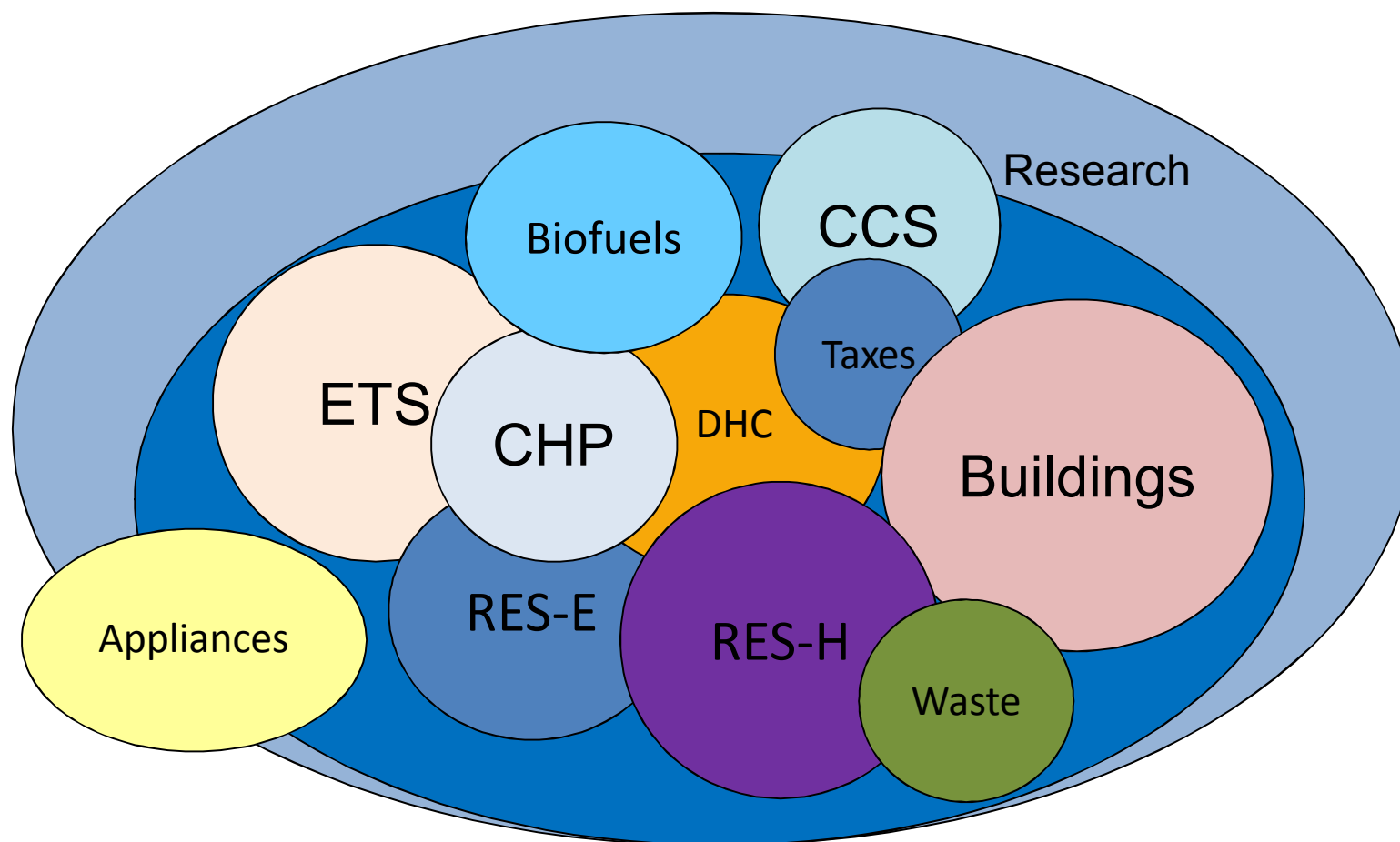
RES

# Energy revolution

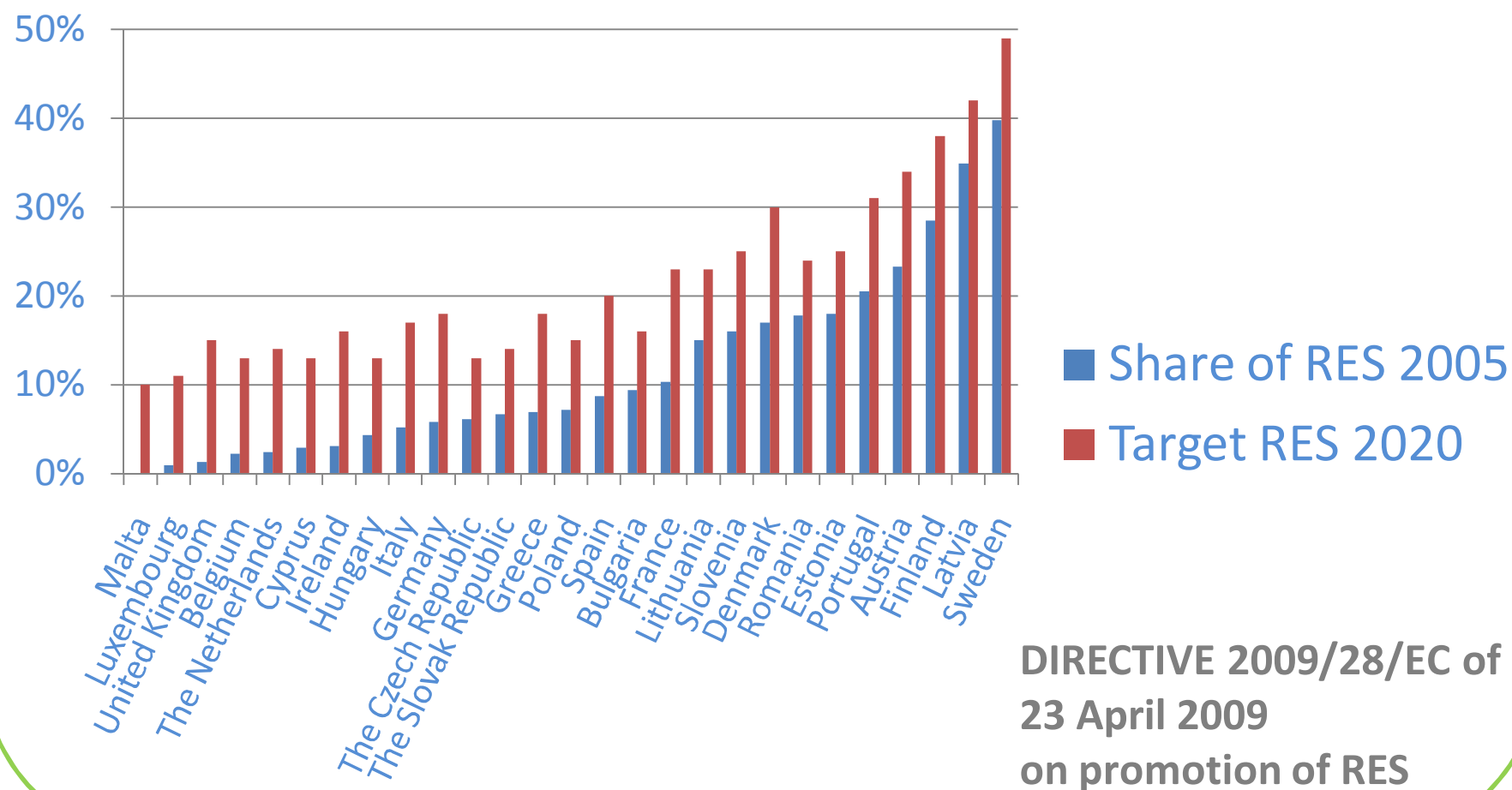
- Limit temperature rise to 2° C
- By 2020
  - Reduce CO2 by 20% or 30%
  - Improve energy efficiency by 20%
  - **Increase renewables to 20% (3/4 to come from biomass)**
  - Increase biofuels to 10%
- By 2050
  - Reduce CO2 by 80%
  - 100% carbon free electricity



# EU policies



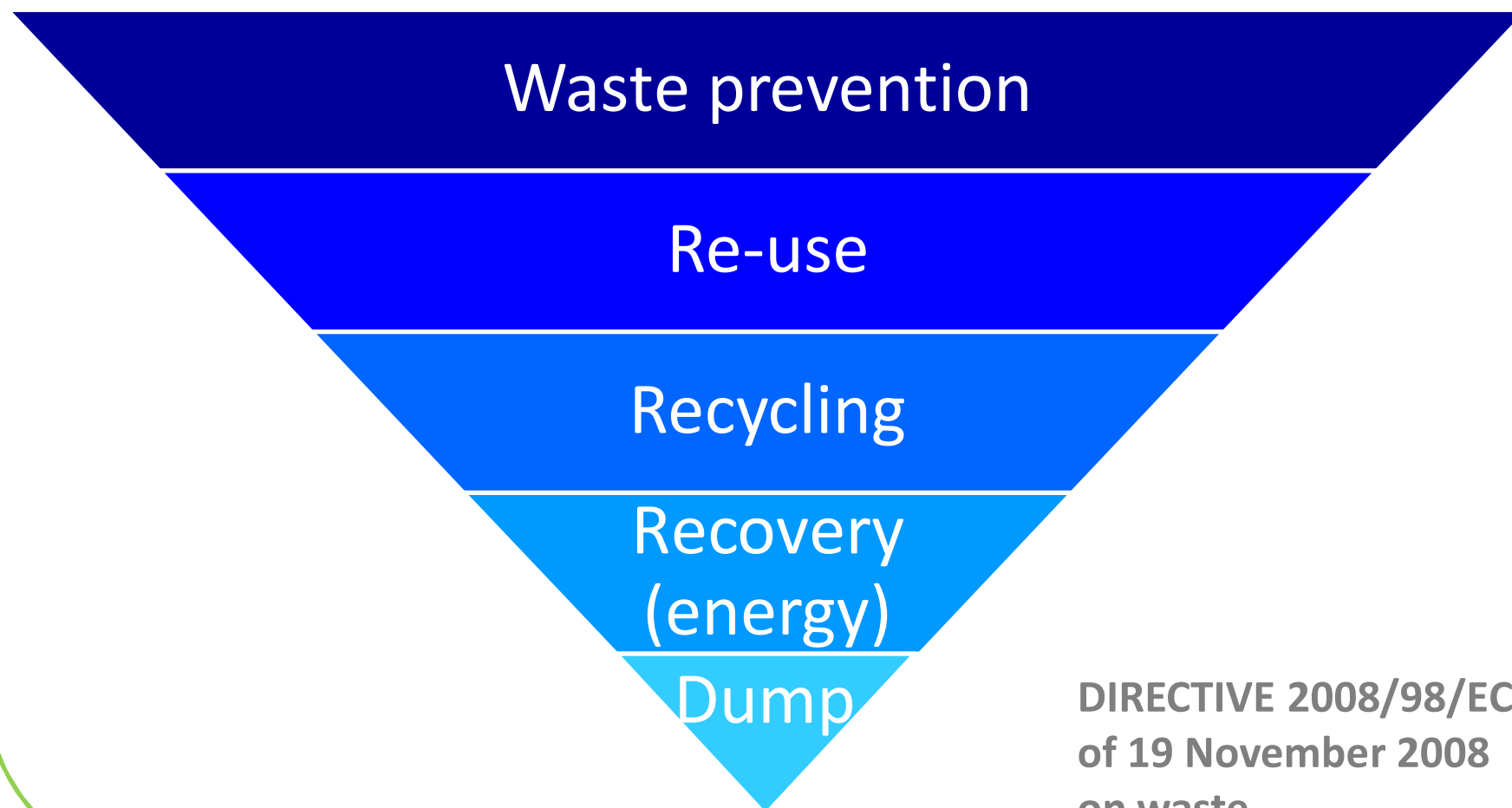
# MS RES targets



# RES-H implementation

- Binding national targets
- National action plans
- Minimum of RES
  - In new & refurbished buildings
  - Can be fulfilled with DHC with “significant” RES
- Accounting (transfers between MS)
- National regulation, procedures etc.

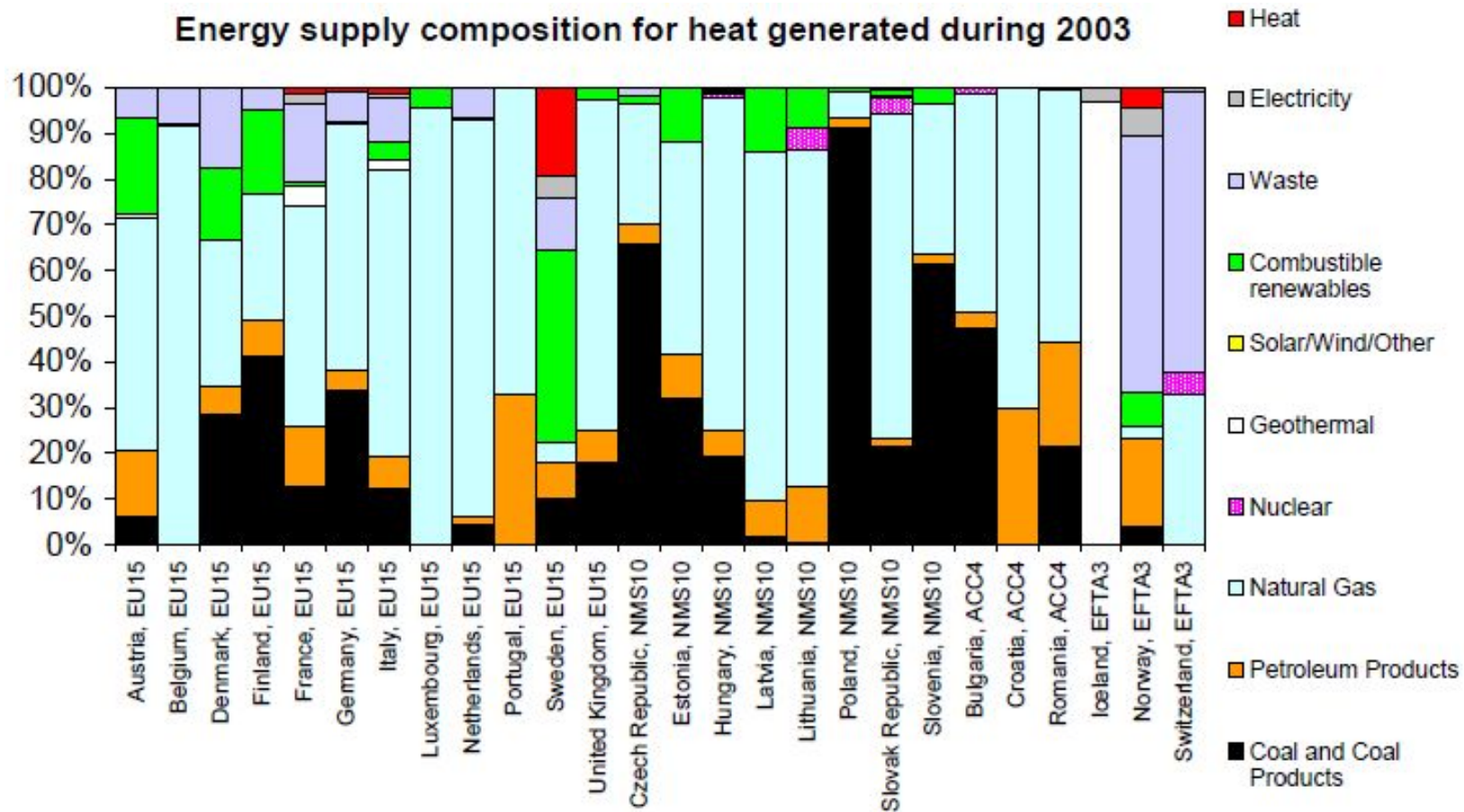
# Waste hierarchy



**DIRECTIVE 2008/98/EC  
of 19 November 2008  
on waste**

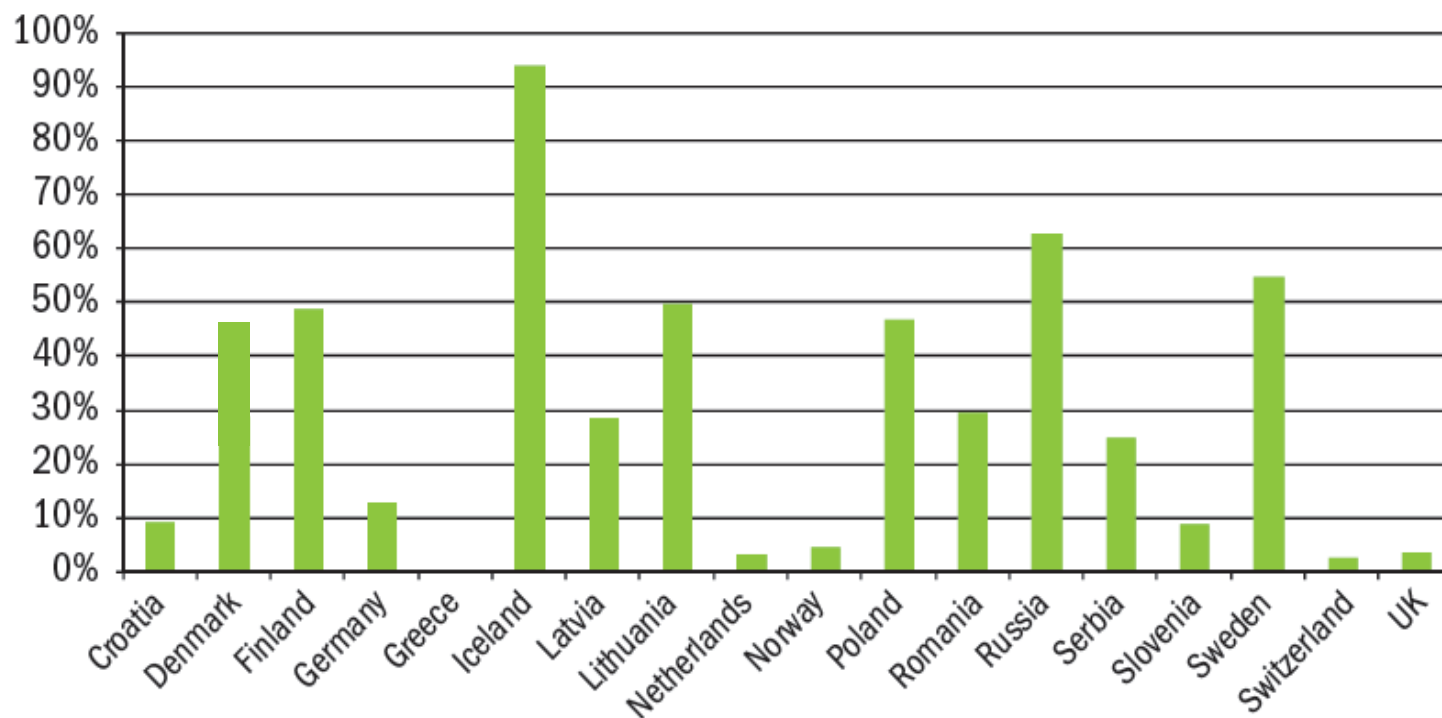


# DH composition



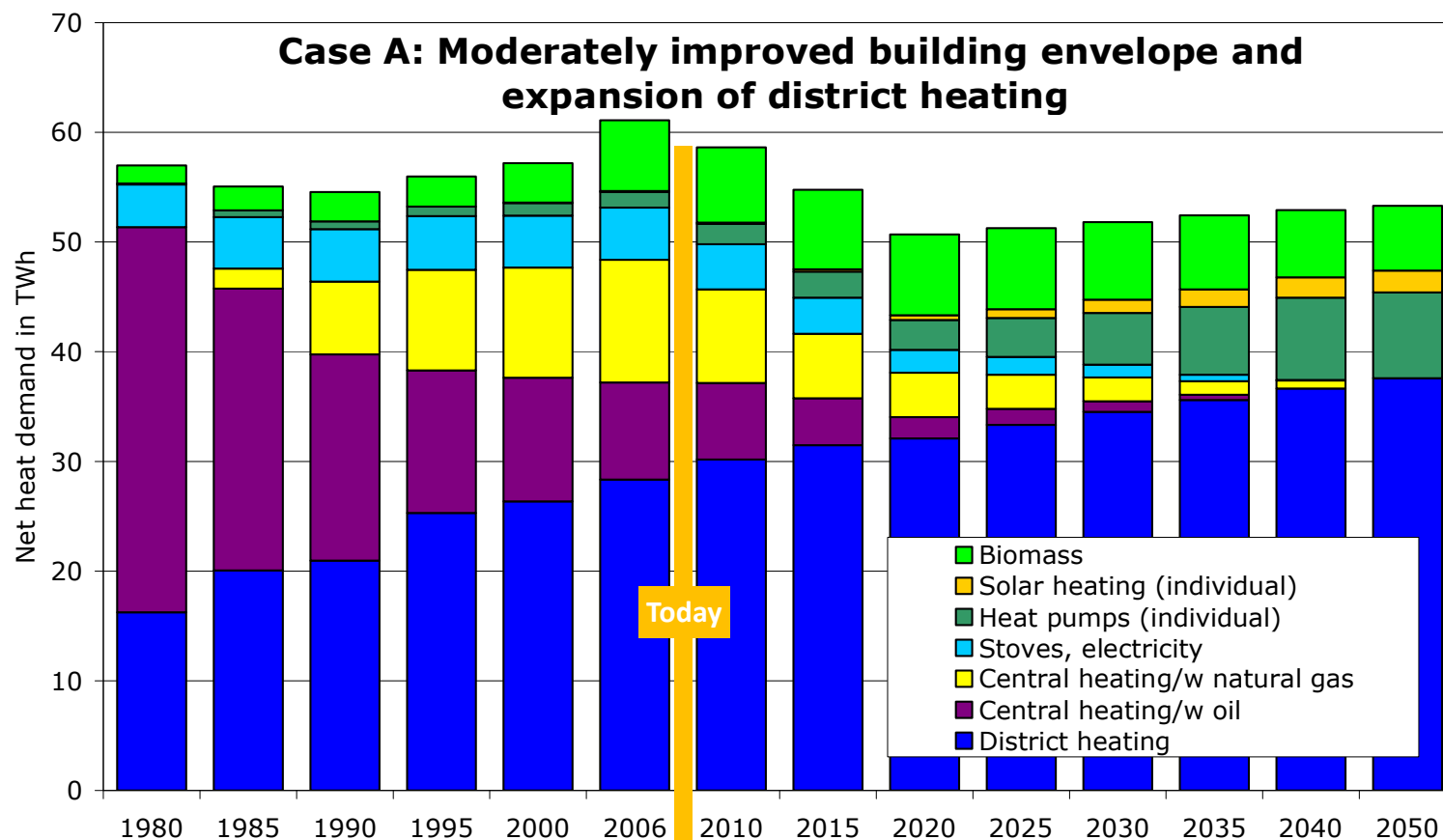
# DH Market Shares

**Figure 5:** Shares of District Heating used to satisfy heat demand in the residential and services and other sectors\*

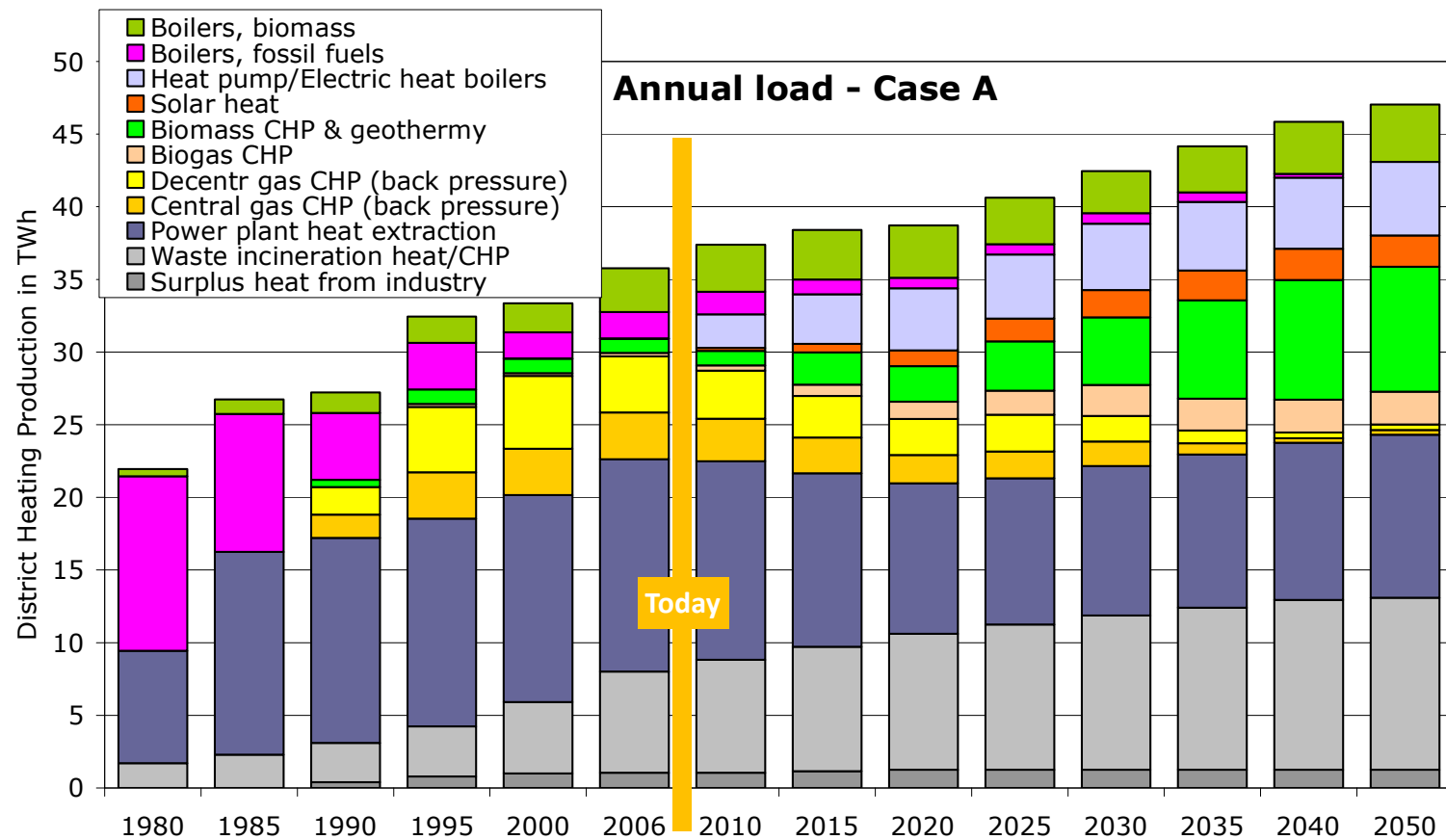


DHC, Country by country, 2009 Survey, Euroheat 2009

# Heat plan



# DH heat sources



# Solar DH in the north

Marstal District Heating, 19.000 m<sup>2</sup> solar panels, 30 % of heat





## Milan District Heating



Thank you for your attention!

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