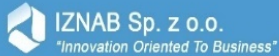




POLITECNICO
MILANO 1863



HEAT4COOL



**HOCHSCHULE
LUZERN**

Heating and cooling policy - overview

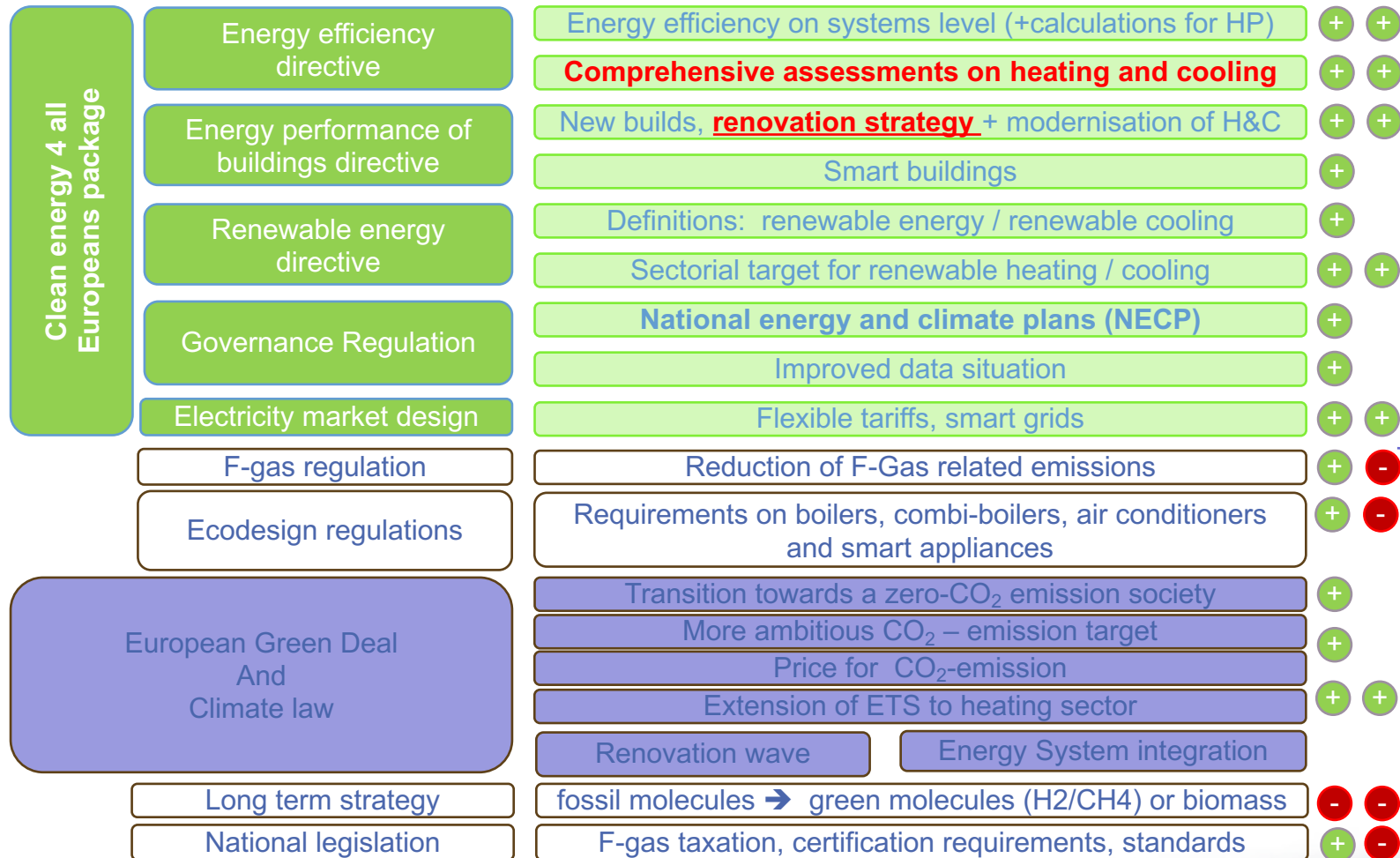
Jozefien Vanbecelaere, Head of EU Affairs EHPA



Heat4COOL project has received funding from the European Union's Horizon 2020 research and innovation program under grant agreement No 723925



Legislation covering heat pumps



If not
successful





EU Green Deal & Climate law

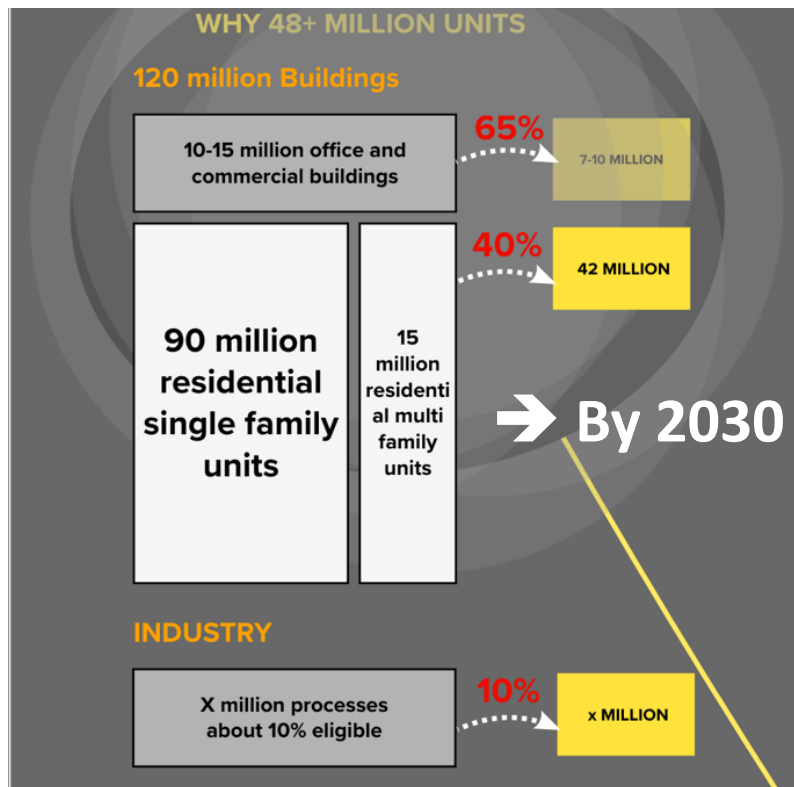


CO₂
-55
%





EU Energy System Integration Strategy



Clear targets for heating electrification
Barriers identified:

- Taxation of electricity
- Lack of internalisation of CO₂ costs in heating fuels
- Lack of public and private financing instruments

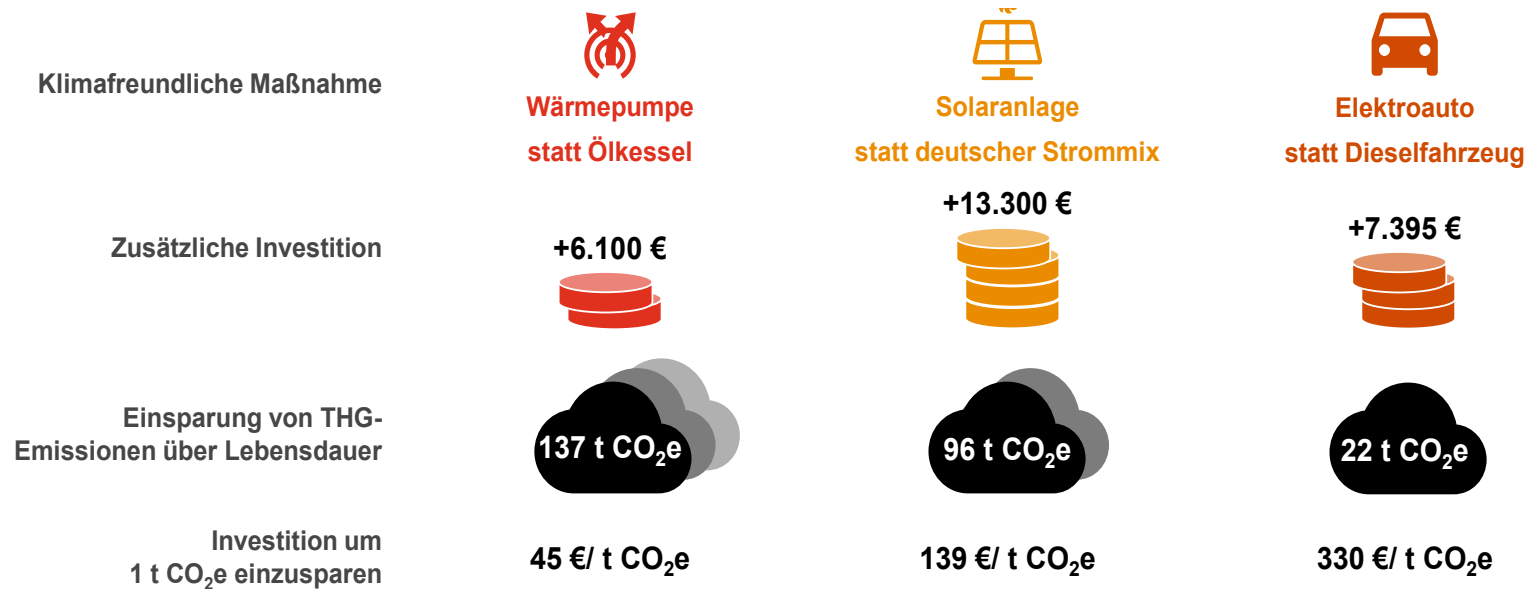
Translates in low replacement rates of heating systems

=> By mid 2021



Compared to other climate protection measures, it is cheapest to invest in heat pumps

Comparison of investment vs. GHG emission savings for different climatefriendly solutions

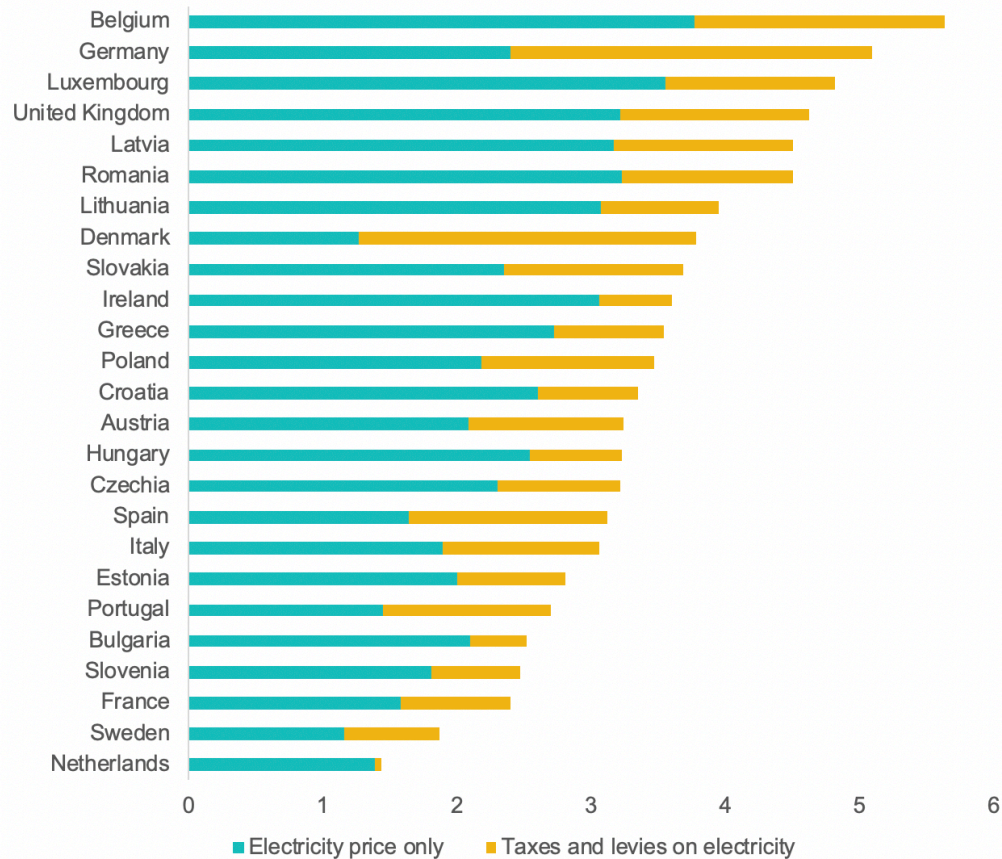


Quellen: BDEW (2018a), BDEW (2018b), IINAS (2019), VW (2019)



Energy prices should reflect all the costs of the energy carrier

Electricity to fossil gas price ratio in 2020 (residential sector)





Renovation Wave

- Decarbonising the heating and cooling sector is a key aspect
- Double the renovation rate
- Foster deep energy renovation: schools, public buildings
- **Renovate the 35 million least performing buildings by 2030**
- Allow for affordable design via New European Bauhaus and promote sustainable design and nature-based materials.





Heat pump technologies are essential to achieve Europe's energy and climate targets

**EU strategy on
energy systems integration**

+

**EU communication on
the renovation wave**

+

**Climate law and 55% CO₂
emission reduction**

**48 – 60 million heat pumps
by 2030**

**Renovation of 35 million
least performing buildings**

Fit for 55 package





The way forward

**Adjustment of production
possible (+15%pa)**

+

Increase in demand

=

A decarbonised buildings stock

Industry is ready

**Electricity taxation
CO2 price signal
Fossil fuel subsidies**

**Effort needed to create
necessary demand**





Advantages of heat pumps recognised and essential for energy and climate targets

**Industry can deliver, but
«We need framework conditions, that trigger end-user demand»**





Want to raise the impact of heat pumps?

➔ Join the European Heat Pump Association ➔



140

Members

Heat pump manufacturers
Component manufacturers
National associations
Consultants
Research & test institutes

22

countries represented

International cooperation

CECA, IEA, IEA HPC, IRENA, HPCJ

Vision

In a fully decarbonised Europe, **heat-pump technologies are the number one heating and cooling solution**, being a core enabler for a renewable, sustainable and smart energy system.

www.ehpa.org



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Thank you.

Jozefien Vanbecelaere, Head of EU Affairs EHPA

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