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The lights will stay on with 50 million heat pumps

Online Policy Seminar

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www.ehpa.org

The European Heat Pump Association aisbl / founded 2000



146

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.



Commercial Applications



Industrial Applications & District Heating

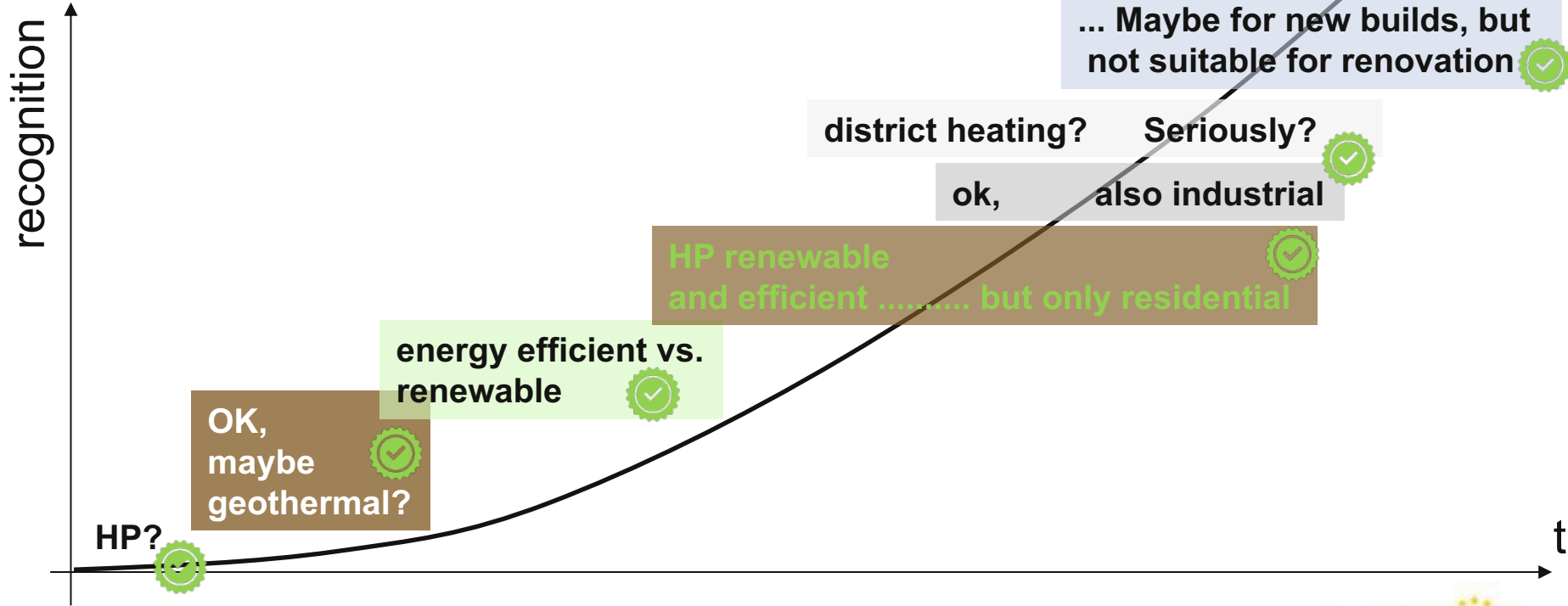


Big buildings

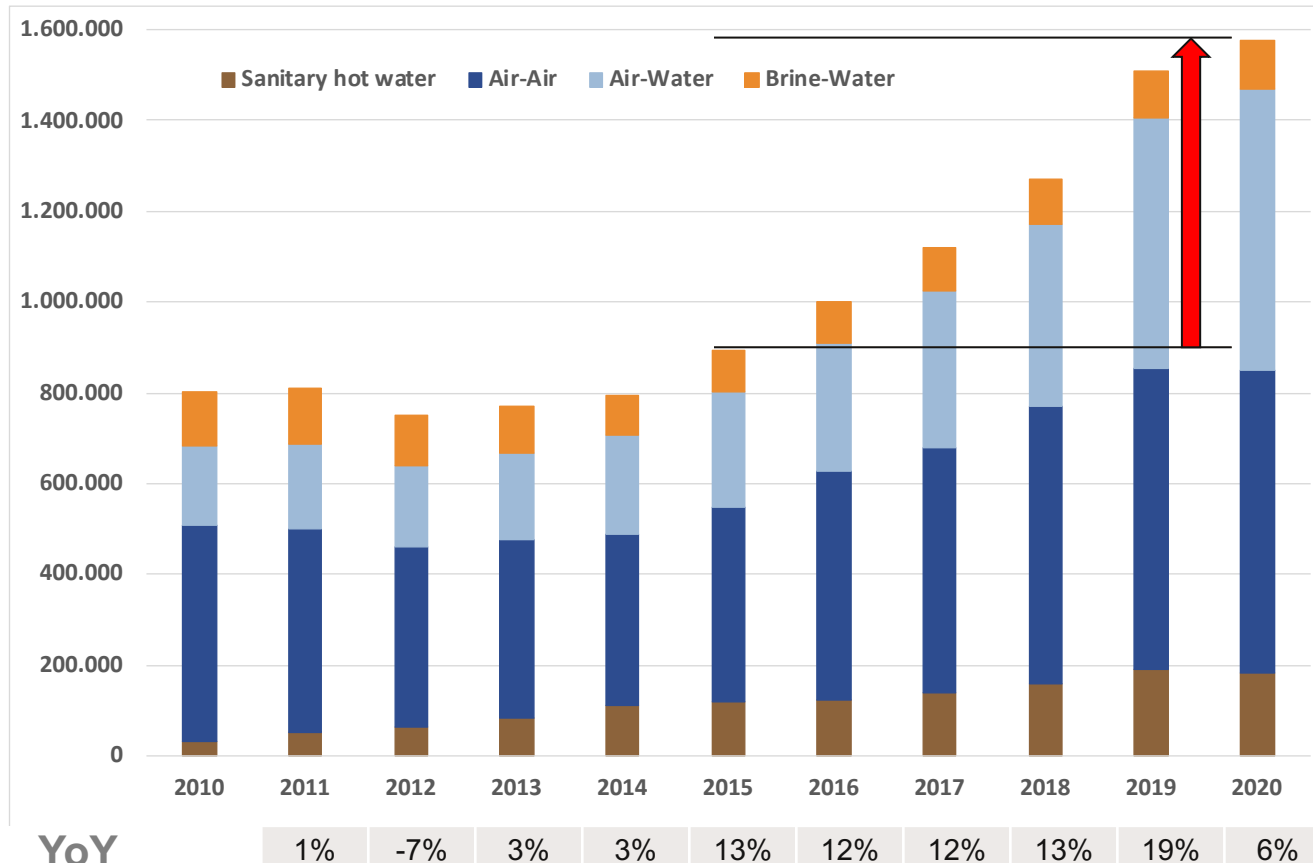


Residential Applications

The development curve of heat pump recognition-rejection



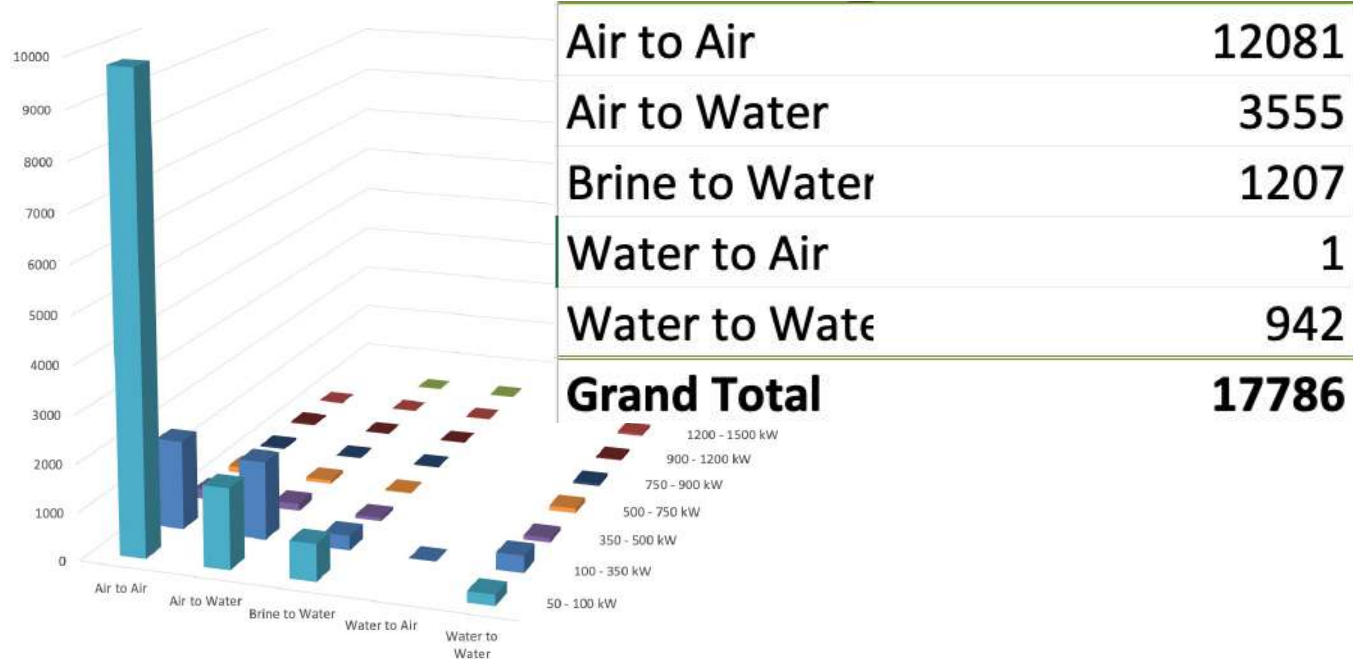
Market growth '10 – '20 | HP stock²⁰²⁰: 14.8 mill. installed



EU-28 building stock:
115 – 120 mill. buildings

Industrial HP?

Numbers not integrated with the rest of statistics



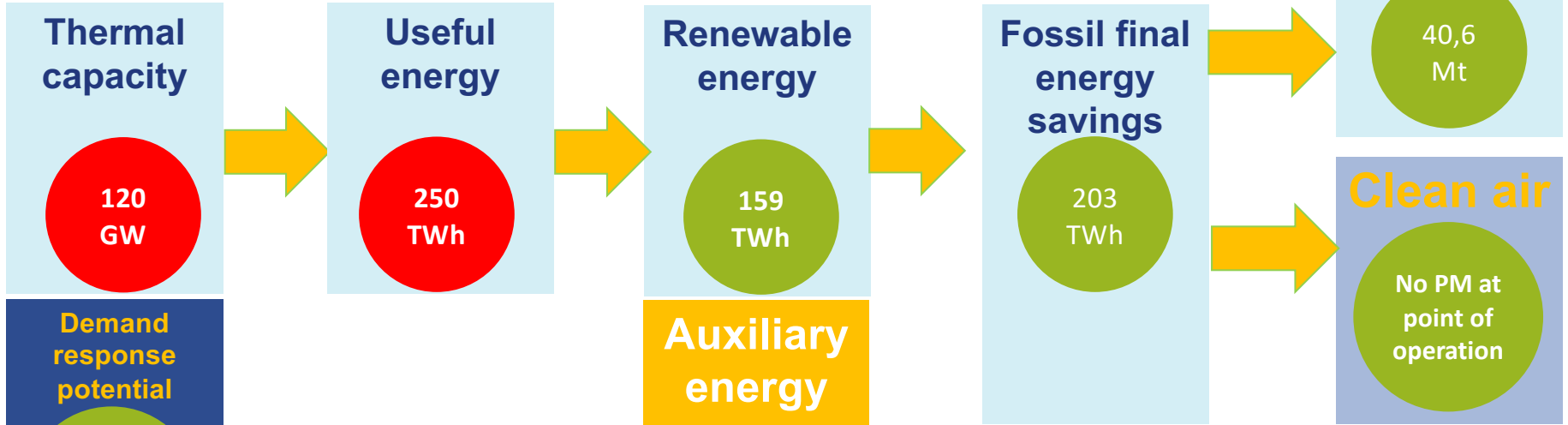
50 - 100 kW	100 - 350 kW	350 - 500 kW	500 - 750 kW	750 - 900 kW	900 - 1200 kW	1200 - 1500 kW	1500 - 5000 kW
12472	4158	525	334	119	75	66	36

<http://stats.ehpa.org> | Data for 2019



Heat pump benefits 2020

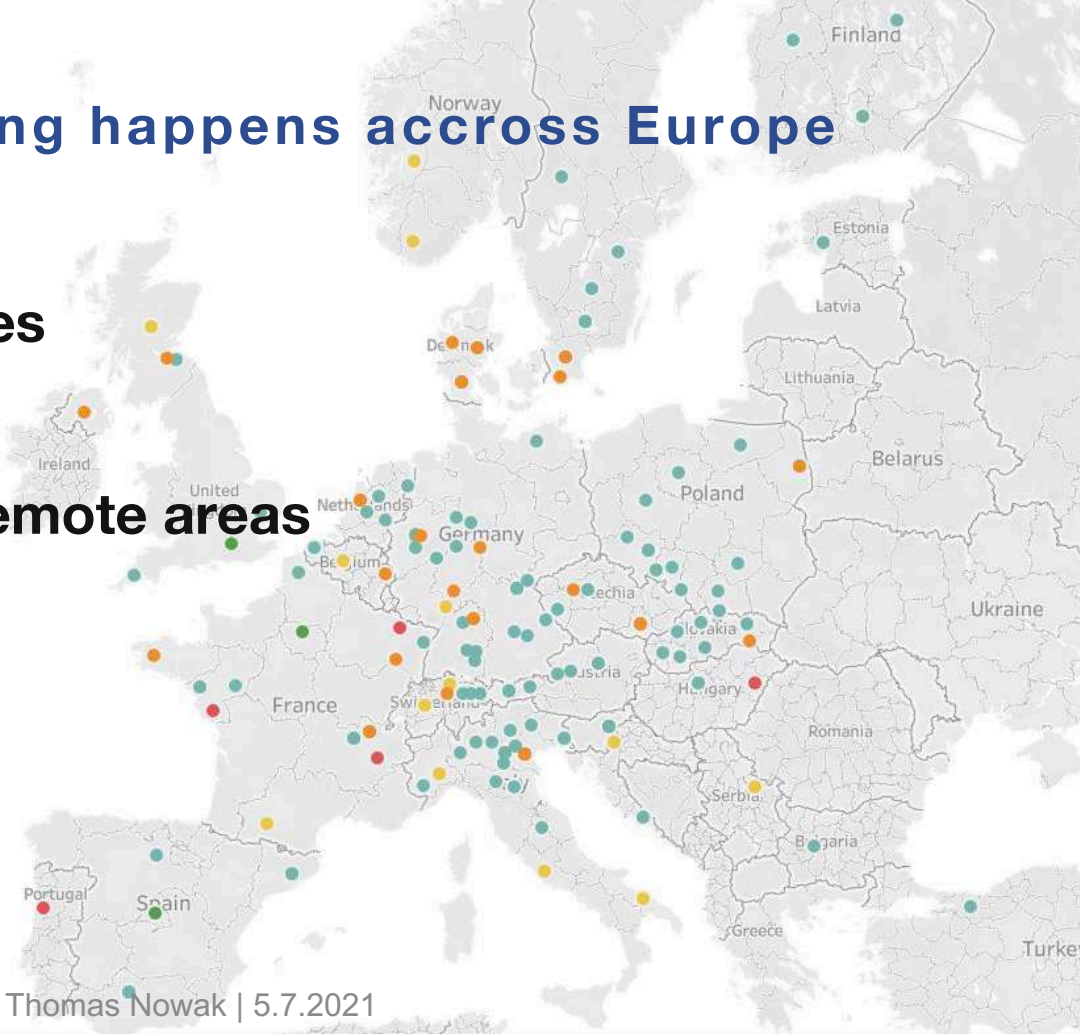
Based on 14.8 million heat pumps installed



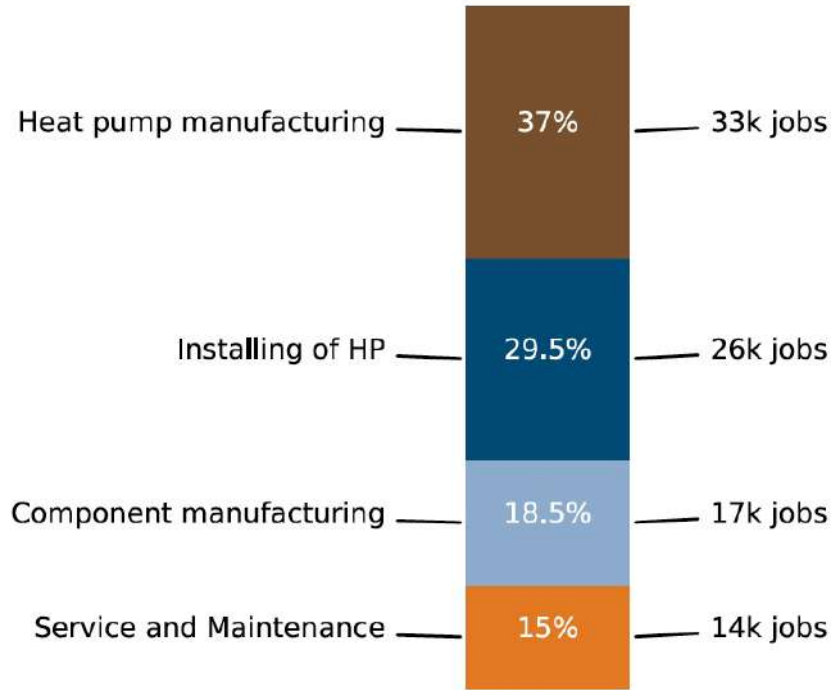
If auxiliary energy is **green**, heat pumps provide 100% **green heat**

Heat pump manufacturing happens accross Europe

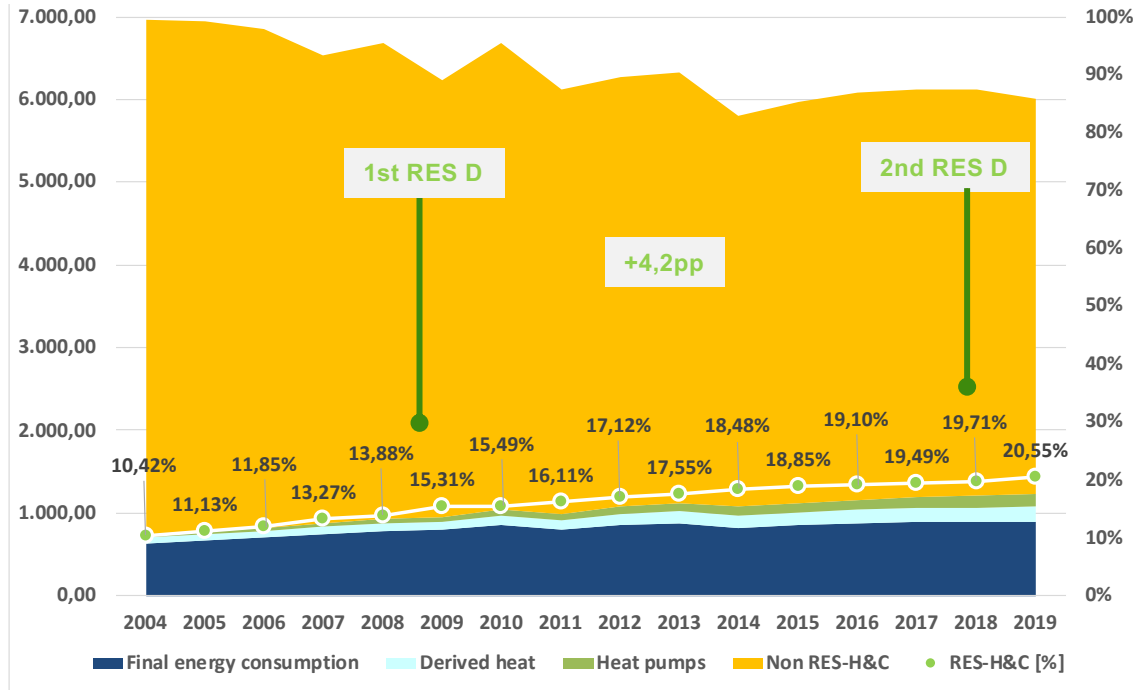
- **165+** manufacturing sites
- **SME based**
- **Often located in rural/remote areas**
- **Turnover of 8.2 billion €**



Employment impact of heat pumps (89 784 FTE)



RES in heating and cooling (Eurostat Shares)



RED:

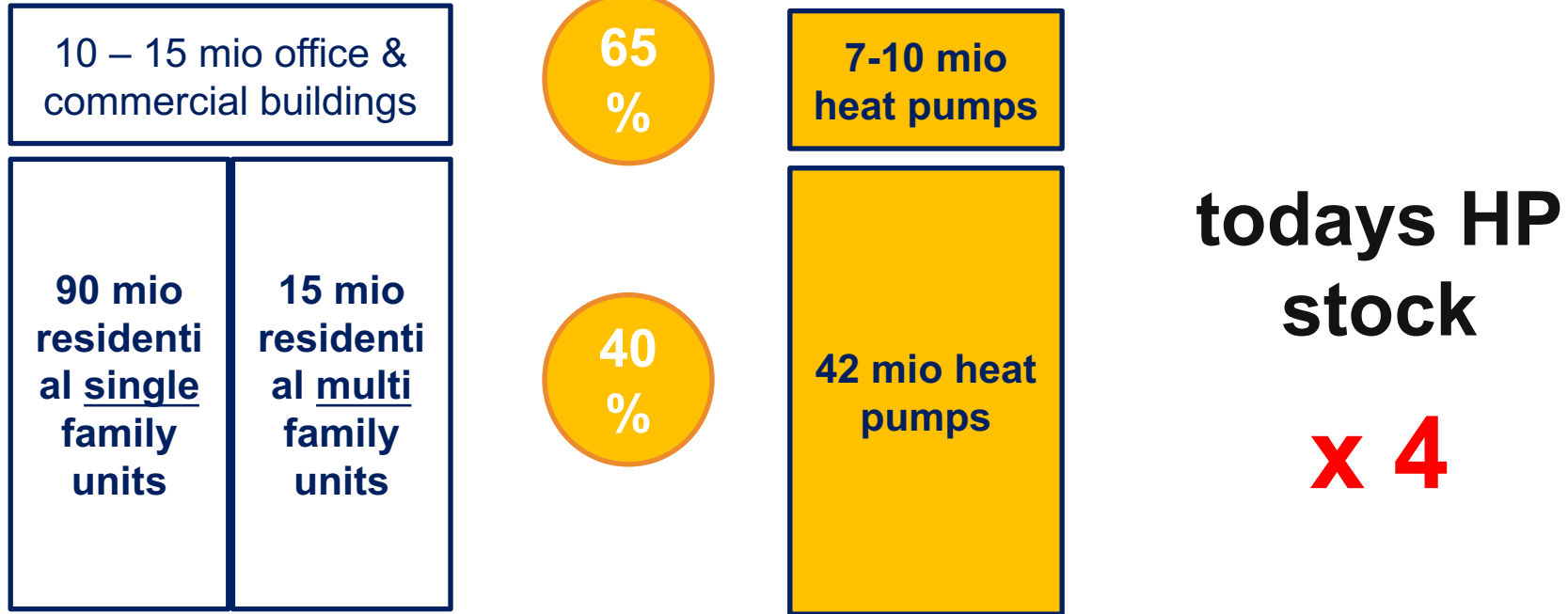
1.3pp growth per year

Reality

< 1pp

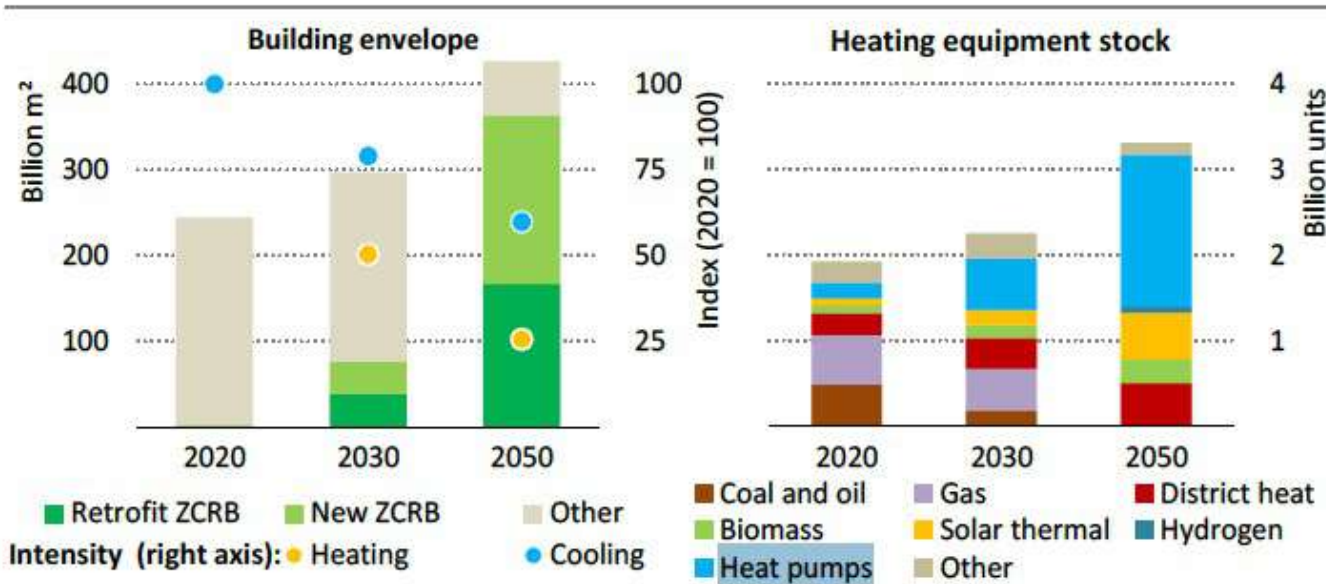
annual increase of renewable share

EU Energy systems integration strategy



+ industry approx. 200 TWh = 0,1 mio

IEA report: net zero by 2050 (2021)



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By 2050, over 85% of buildings are zero-carbon-ready, reducing average useful heating intensity by 75%, with heat pumps meeting over half of heating needs

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For industrial heat pumps: +500 MW per months until '50



The large-scale roll-out of electric heat pumps will not jeopardize the security of supply of electricity, not now and not in the future



The large-scale deployment of heat pumps as forecast in the energy system integration strategy

- **Will not jeopardize grid stability nor security of supply,**
- **Will significantly increase energy efficiency in buildings,**
- **Is needed to achieve ALL EU energy and climate objectives and improve air quality,**
- **Helps integrate much higher shares of renewable electricity in the grid,**
- **Will lead to a more stable grid, thanks to smart capabilities enabling demand side flexibility.**

We encourage the European Commission, the European Parliament and the council

- Keep **ambition levels high** for the electrification of Europe
- **Promote** efficient electrification of heating and cooling
- Set forth a coherent **implementation agenda** including early and dedicated announcements as well as regulatory and financial support