Heat pumps in domestic heating REPLACE Event.

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Head of EU Affairs
European Heat Pump Association



Heat pumps are mature and used everywhere - today





White goods & cars





Residential Applications

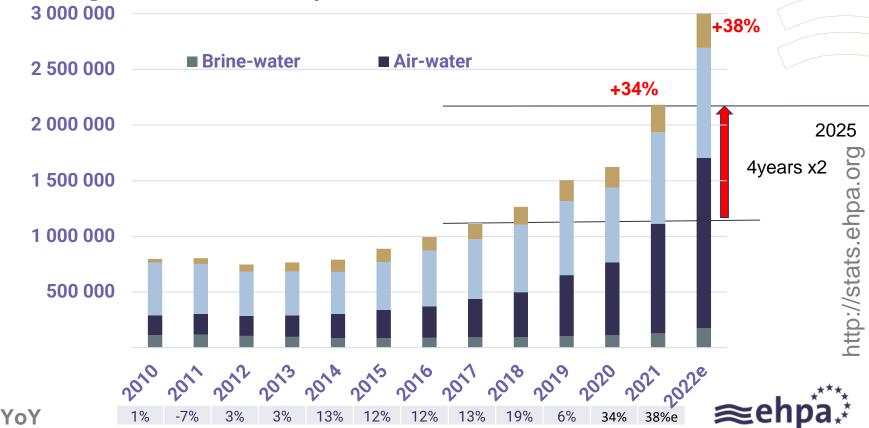


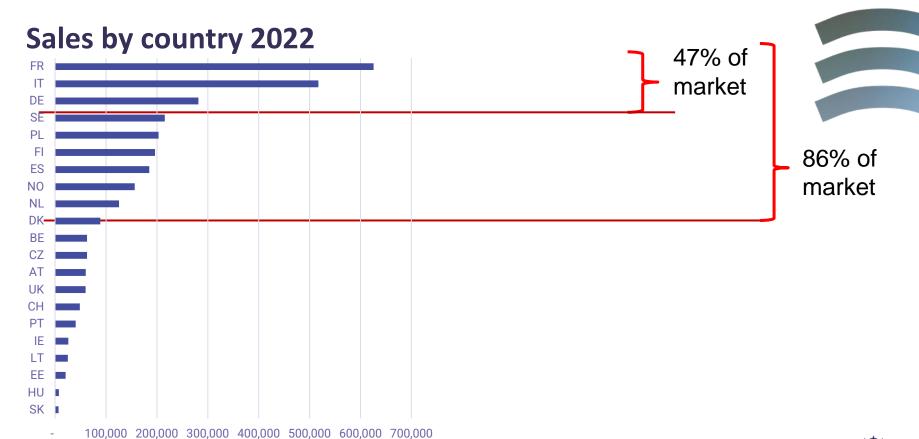


Big buildings

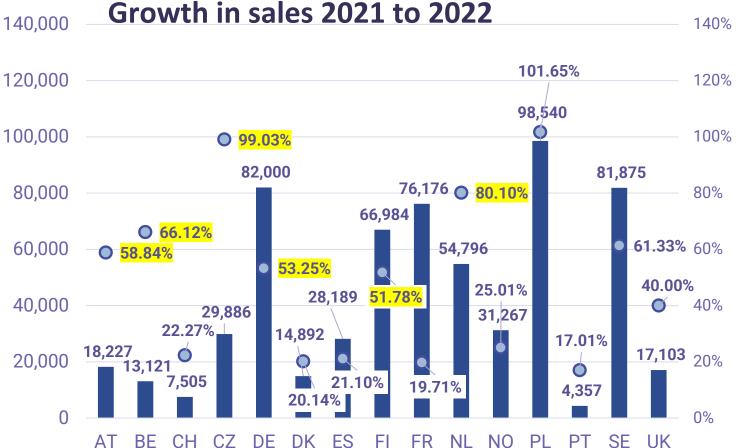


Market growth '10 - '22 | HP stock^{2022 est.}: 19,9 mill. installed





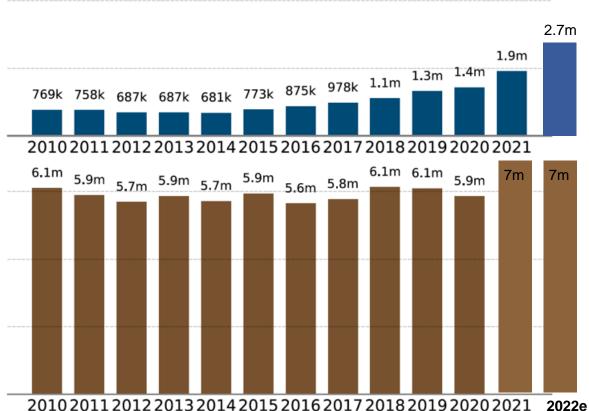








Boilers



HP share 38% → 50% in 2030?



17.800.000

2022e: 17.8 million heating heat pumps supply approx. 15% of all buildings



2022 the tipping point for heat pumps



A 10-Point Plan to Reduce the European **Union's Reliance** on Russian **Natural Gas**

- 7. Speed up the replacement of gas boilers with heat pumps
- 8. Accelerate energy efficiency improvements in buildings and industry



Heat pumps dominate are recognized in policy

RePowerEU
and cut our
dependence on
Russian gas



Photovoltaic Wind Heat pumps Storage

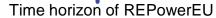




REPowerEU: High ambition for heat pumps double-digit growth necessary throughout this decade



Air-air HP are also replacing Fossil gas





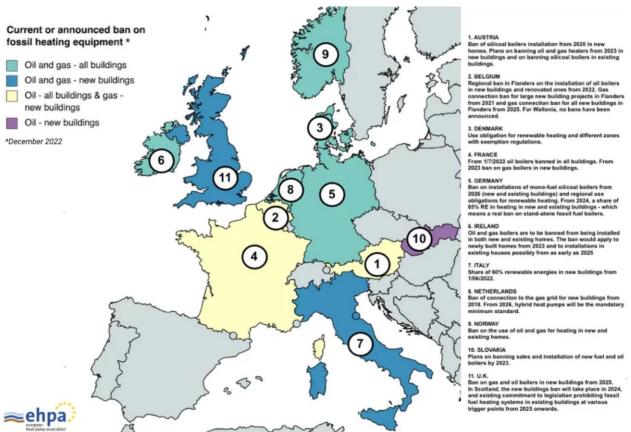
Heat pumps "Critical Technologies Necessary to Lower Energy Costs, Support the Clean Energy Economy, and Strengthen National Security»







National policies to phase out fossil energy boilers





Source:

https://www.ehpa.org/wpcontent/uploads/2022/12/Fossi l-fuel-phase-out-map-forwebsite-1000-%C3%97-700px.png



Can heat pumps deliver?



Heat pumps work in all buildings and in energy grids Check "fit for 55°C"

20% 40% 40% **Boiler exchange Boiler exchange** New 1:1 build "high temperature heating little/no renovation buildings" **HP** ready HP technology under condition ready renovation

A boiler for HP replacement does NOT always require deep renovation



(hybrid) Heat pumps work in all buildings





145 Appartments | in highrises | "under occupancy" Togetherhousing – Blackburn, UK









And also in district heating River Clyde, Glasgow, UK









Heat Pumps in domestic heating | Jozefien Vanbecelaere | REPLACE | 21.3.2023

A heat pump in every home? Latest legislative changes



Heat pumps in domestic heating: ongoing legislation

- EU ETS
 - O ETS for buildings and road transport as of 2027
 - Social Climate Fund will to support vulnerable households, micro-enterprises and transport worth €86.7 billion from 2026 to 2032.
- Energy Performance of Buildings Directive
 - O Zero Emission Buildings
 - Phase out of fossil fuel boilers
 - End fossil fuel subsidies
- Ecodesign
 - O Proposal to end stand-alone fossil fuel boilers in 2029
- Heat Pump Action Plan
 - O To be published Q4 2023
- Renewable Energy Directive
 - RE Target
 - Renewables in heating and cooling
- Energy Efficiency Directive
 - Energy efficiency first
 - Energy efficiency target

Supply Chain

- + Green Deal Industrial Plan
- + Net Zero Industry Act



A heat pump accelerator



Create trust in long term ambition

Net Zero Industry Act Heat Pump Action Plan

Make clean heating economically most attractive 03

Avoid disruption through legislation

04

Support value chain: skills & investment support

Net Zero Industry Act

05

Better heat pumps and systems through more R&D and better data 06

Recognize the need to upgrade electric grids







All hands on deck



About EHPA

Founded in 2000

186 Members

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

22 Countries

International cooperation

with the International Energy Agency, International Renewable Energy Agency and more

