EU heating and cooling policy & EHPA priorities 2021
The European Heat Pump Association aisbl / founded 2000

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.

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

22 countries represented

International cooperation
CECA, IEA, IEA HPC, IRENA, HPCJ

EHPA
Rue d’Arlon 63 - Brussels

EHPA
SUNHORIZON Workshop on innovative HP solutions – 12.5.21 | Jozefien Vanbecelaere
«strong market foundation»
market growth ‘05 – ’20 | HP stock$$^{2020}$$: 14.8 mill. installed

EU-28 building
stock: 115-120
mill. buildings
«a solid recognition in legislation»
+ ambitious targets
### Legislation covering Heat Pumps

<table>
<thead>
<tr>
<th>Clean energy 4 all Europeans package</th>
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RES in heating and cooling (based on Eurostat Shares)

http://ec.europa.eu/eurostat/de/web/energy/data/shares
EU Green Deal & Climate Law

“I want Europe to become the first climate neutral continent in the world by 2050. To make this happen, we must take bold steps together ... . A two-step approach is needed to reduce CO₂ emissions by 2030 by 50, if not 55%.”

President Ursula von der Leyen
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### Long term strategy
- Transition towards a zero-CO₂ emission society
- More ambitious CO₂ – emission target
- Price for CO₂-emission
- Extension of ETS to heating sector
- Renovation wave
- Energy System integration
- fossil molecules ➔ green molecules (H2/CH4) or biomass

### National legislation
- National legislation
- F-gas, taxation, certification requirements, standards
- If not successful
## EU Energy systems integration strategy

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<th>Buildings Type</th>
<th>Number</th>
<th>Heat Pump Percentage</th>
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<tr>
<td>Office &amp; Commercial buildings</td>
<td>10–15 mio</td>
<td>65%</td>
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<tr>
<td>Single family units</td>
<td>90 mio</td>
<td></td>
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<tr>
<td>Multi family units</td>
<td>15 mio</td>
<td></td>
</tr>
<tr>
<td>Heat pumps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Industry</td>
<td></td>
<td>42 mio heat pumps x 4</td>
</tr>
<tr>
<td>Total</td>
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+ industry approx. 200 TWh = 0,1 mio

todays HP stock
Renovation wave:

- **Decarbonisation of heating and cooling**
- Double the renovation rate
- Foster deep energy renovation: schools, public buildings
- **Renovate the 35 million least performing buildings by 2030**
- Allow for affordable and sustainable design via New European Bauhaus
Recognition: 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
  - EED
  - RED II
  - EPBD
«activate end user demand»

- Make the ‘best’ technology also the most affordable
Taxation of electricity: need for level playing field

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

Adjustment of production possible (+15%pa)

+  

Increase in demand

=  

A decarbonised buildings stock

Industry is ready

Electricity taxation
Lack of CO₂ price signal
Fossil fuel subsidies

An industrialisation opportunity
Industry can deliver, but

«We need framework conditions, that trigger end-user demand»
Heat pumps in the fit for 55 package

01 Align Policies on efficient AND renewable heating and cooling
- A comprehensive and ambitious heating decarbonisation roadmap
- Incentivize technologies that are simultaneously efficient and renewable
- Incentivize fuel switching in the EED

02 Unlock the full potential of heat pump technologies
- Ambitious and binding target for renewables in heating and cooling
- Enlarge the concept of waste heat to circular energy
- Address energy savings from industrial heat pumps, thermal storage and flexibility

03 Guide citizens to efficient and renewable heating and cooling solutions for their buildings
- One stop-shops for heating and cooling renovations
- Increased requirements on renewable and efficient heating in buildings
- More attractive training and certification for heat pump installers

04 Review energy pricing to guide end-users towards the most energy-efficient solutions
- Re-balance taxation of different energy carriers
- Internalise external effects of fossil energy use through carbon pricing
- Implement legislation to valorise flexibility