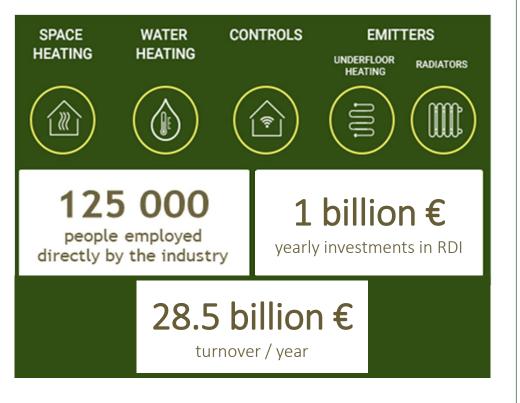


EHI brings together manufacturers of heating systems in Europe



























































































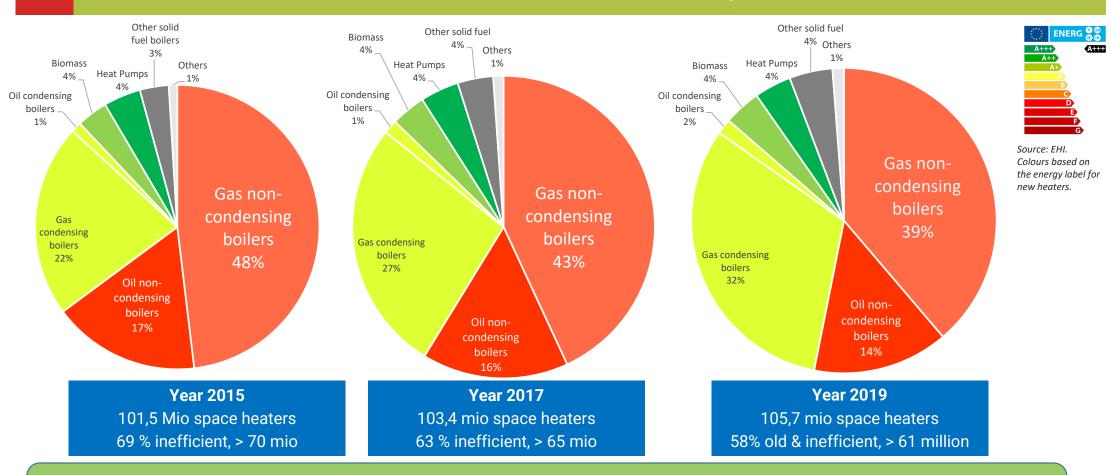






Our members represent 90% of EU market for heat & hot water generation, covering a wide range of technologies

Installed stock of heaters in the EU 27 across the years



Replacement too slow (4%/year) → at least 6% needed for 2030

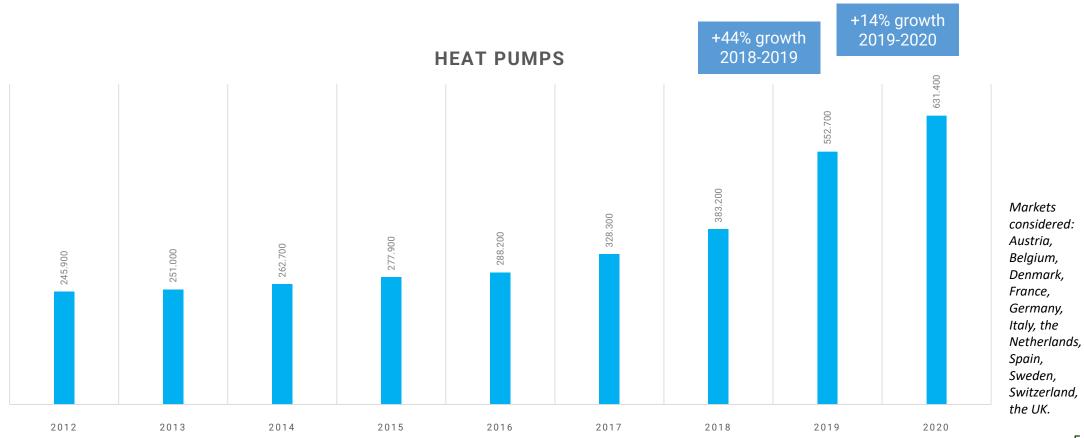
EHI Vision: to realise carbon-neutral buildings by 2050



All future-proof techs will play a role: electric heat pumps, hybrids, green gas boilers, thermally-driven heat pumps, microCHP, fuel cells, solar thermal, biomass.

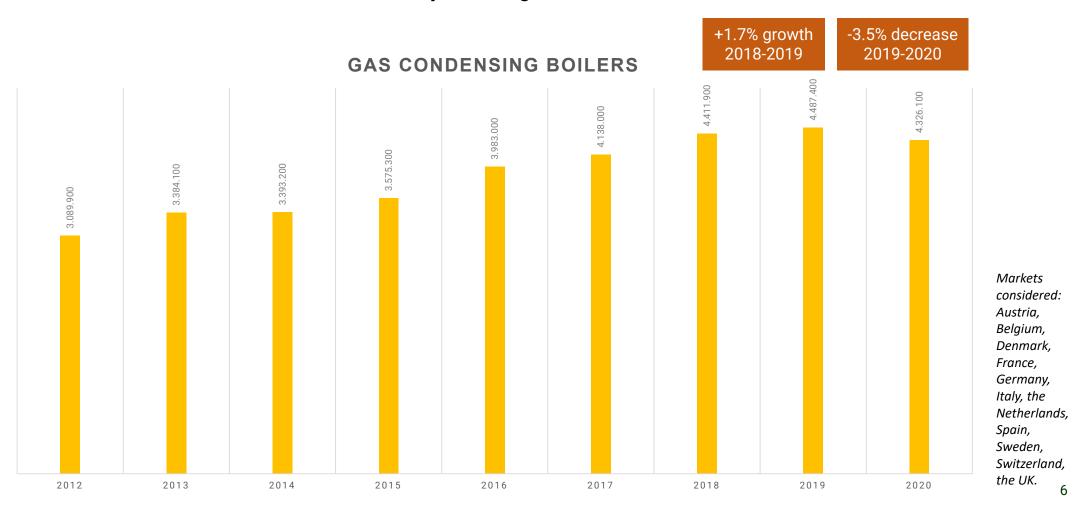
Sales of heat pumps 2012-2020

Today, heat pumps are the fastest growing technology, thanks to their efficiency, versatility and strong regulatory support.



Sales of gas condensing boilers 2012-2020

The market for boilers is mature and by and large stable.



Latest trends: the heating market in 2021

Growth in all market segments due to favourable conditions post-COVID: regulatory environment, focus on homes and renovations.

- 1M sales in 2021
- +71.5% compared with 2019

Very strong growth

Heat pumps

- 5.4M sales in 2021
- +13% compared with 2019Solid performance

Gas condensing boilers

Markets considered: Austria, Belgium, Denmark, France, Germany, Italy, the Netherlands, Poland, Spain, Sweden, Switzerland, the UK.

Technological innovation trends

Heat Pumps

Electric Hybrids Thermally Driven



Hybrid Heat Pump

Green gas/Hydrogen

H2-ready boilers
Hybrids
mCHP
Fuel cells



Hydrogen boiler

Heating technologies key to cut energy dependence

How much does Europe import?

- 155 bcm from Russia
- > 40% of gas consumption absorbed by residential & tertiary sector



Heating technologies are ready to slash gas consumption

- Electrification ⇒ heat pumps and hybrids
- Ready to use green gases now ⇒ hydrogen, biomethane
- Efficiency ⇒ at least 20% (switch to condensing), up to 100% with fuel switch.



Challenges

- Capacity/capability e.g.: installers
- Financial e.g.: upfront investments & energy prices
- Diverse energy infrastructure:

Germany electricity peak today: 80 GW

Gas infrastructure heating capacity: 230 GW (source: Frontier Economics)

- Time
- Industry investing in:
 - Heat pumps, hybrids production
 - Ready for 100% H2 by end of 2020s



Thank you!



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