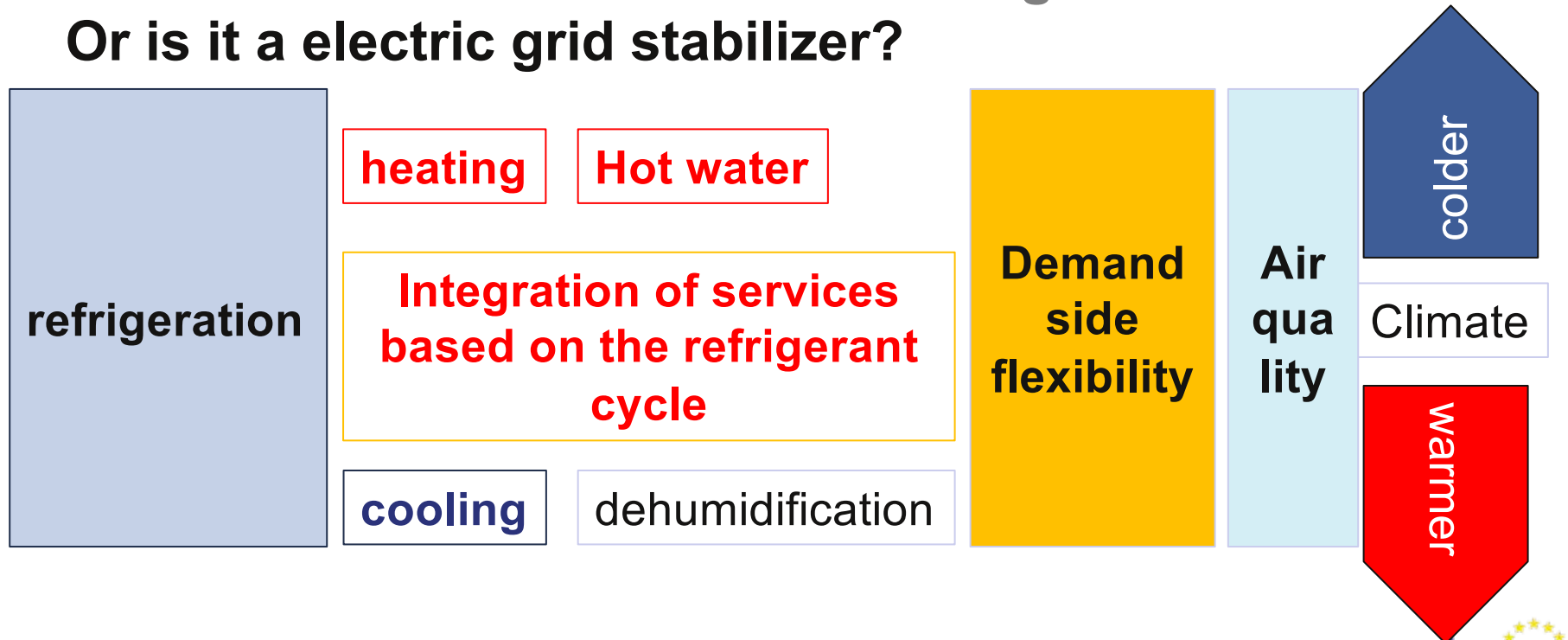


As of today

13 599 395

Is it a heatpump? Is it an air conditioner?
Is it a dehumidifier? Is it a hot water generator?
Or is it a electric grid stabilizer?



Heat pumps are everywhere



Heat pumps provide heating, cooling and hot water for...

Residential
Application



Commercial
Applications

Industrial
Application



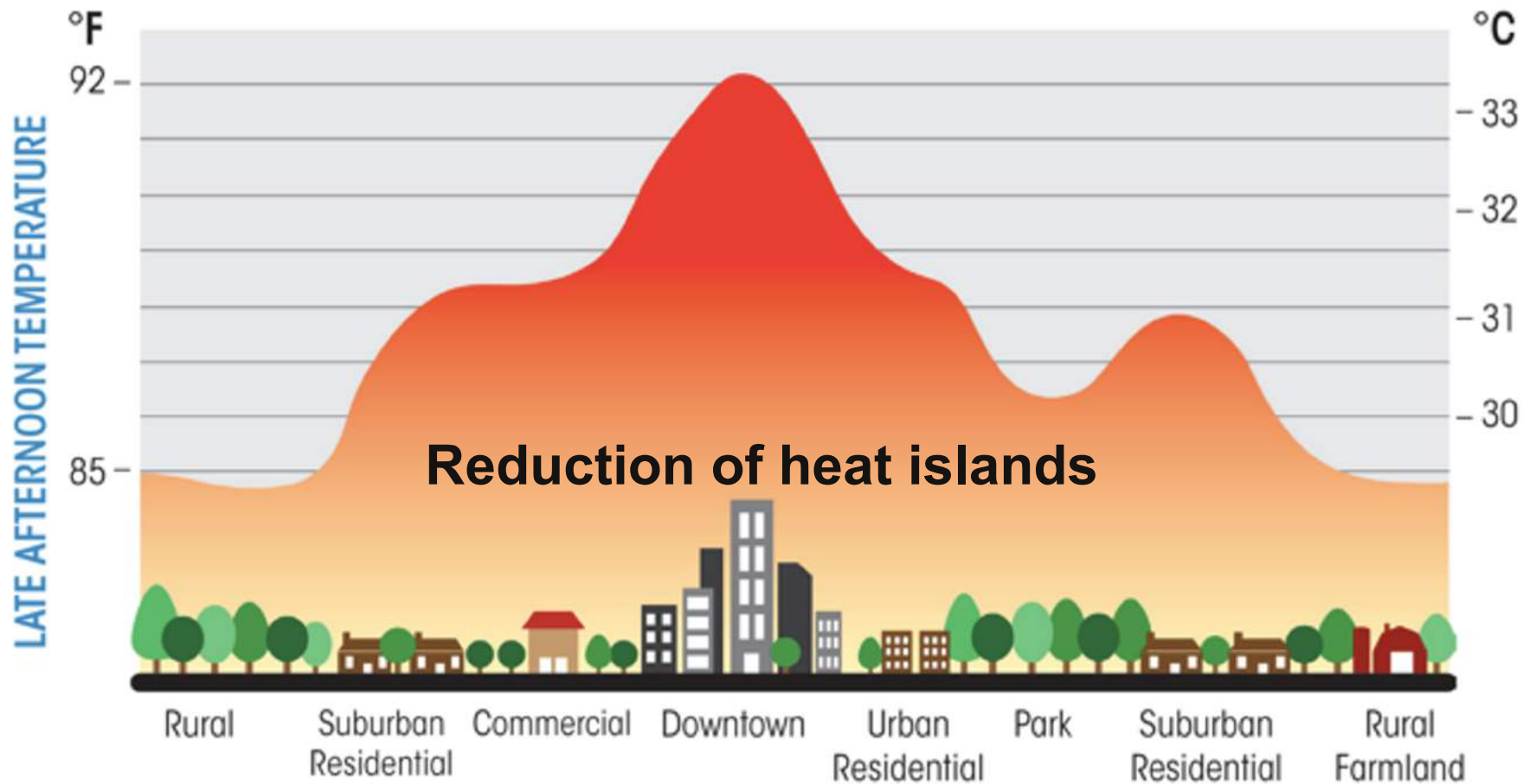
Big buildings



District
Heating

Heat pumps balance a “high-RES-electricity grid”





Heat pump benefits: less air pollution in cities: **example Krakow**



The European Heat Pump Association aisbl / founded 2000



130

Members

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

22

countries
represented

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.

Heat pump manufacturing in Europe

103 sites

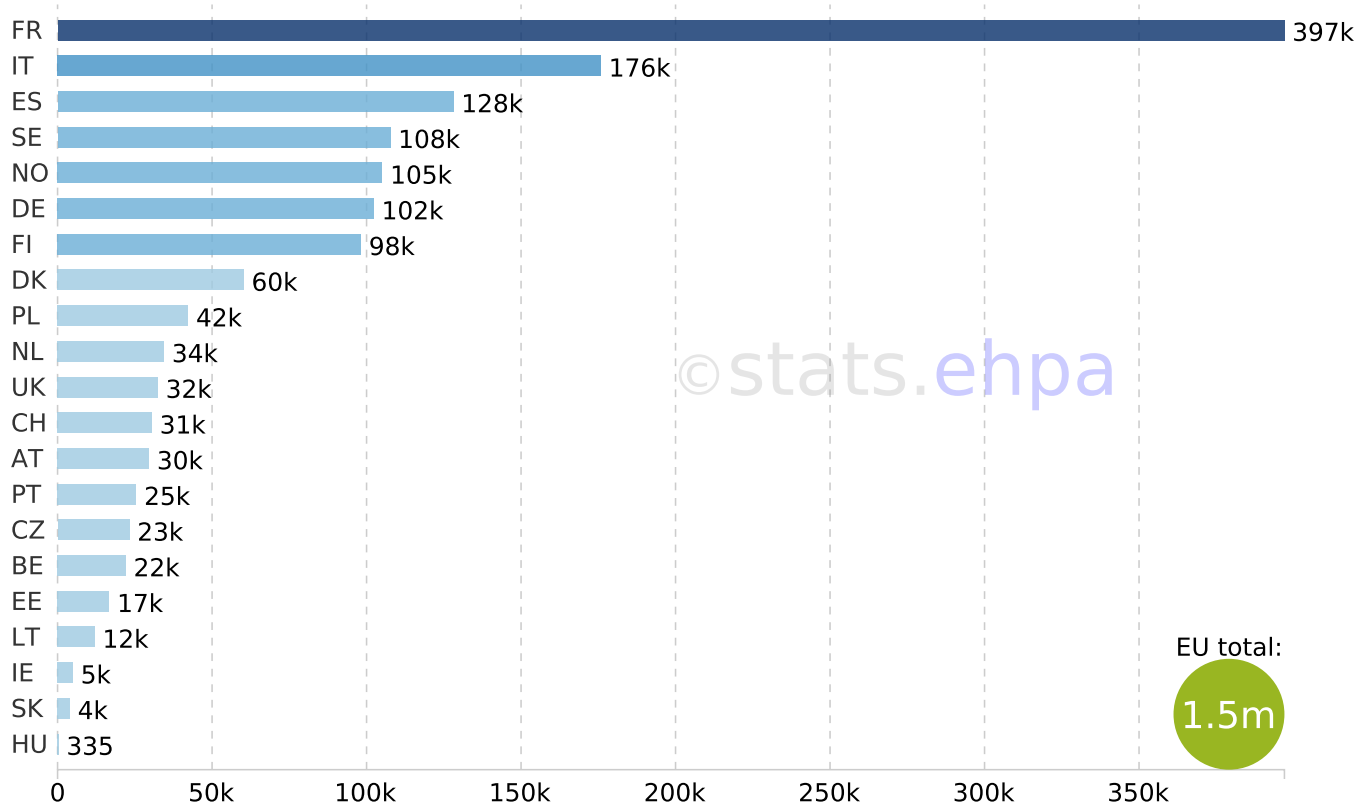


2019

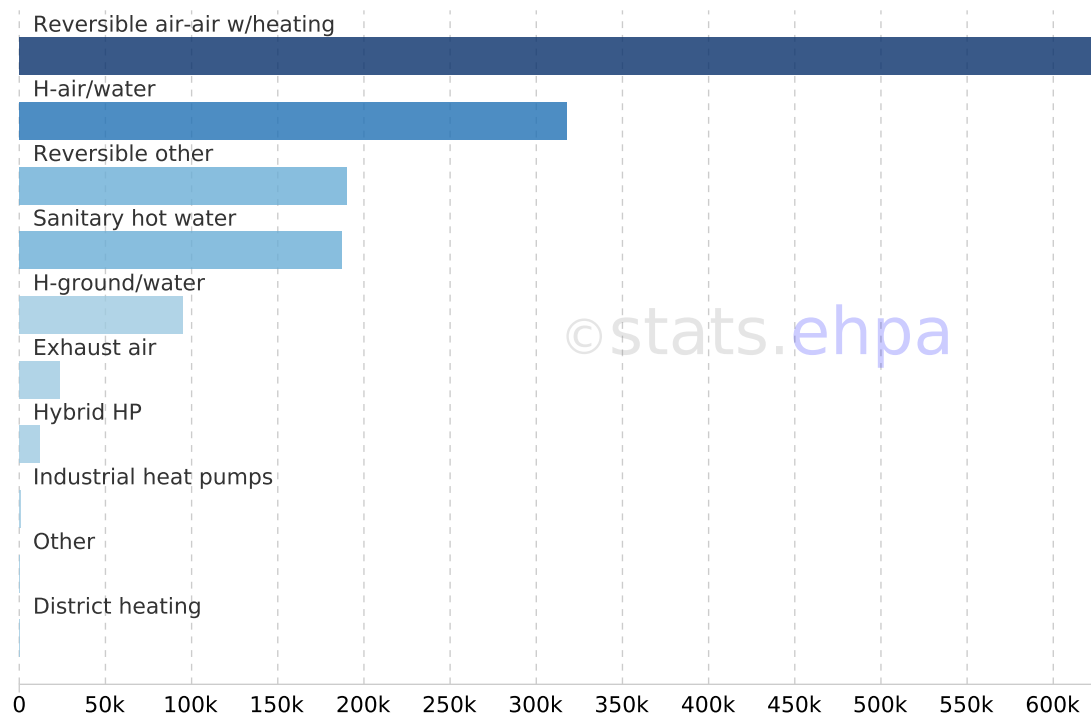
1 453 000

<http://stats.ehpa.org>

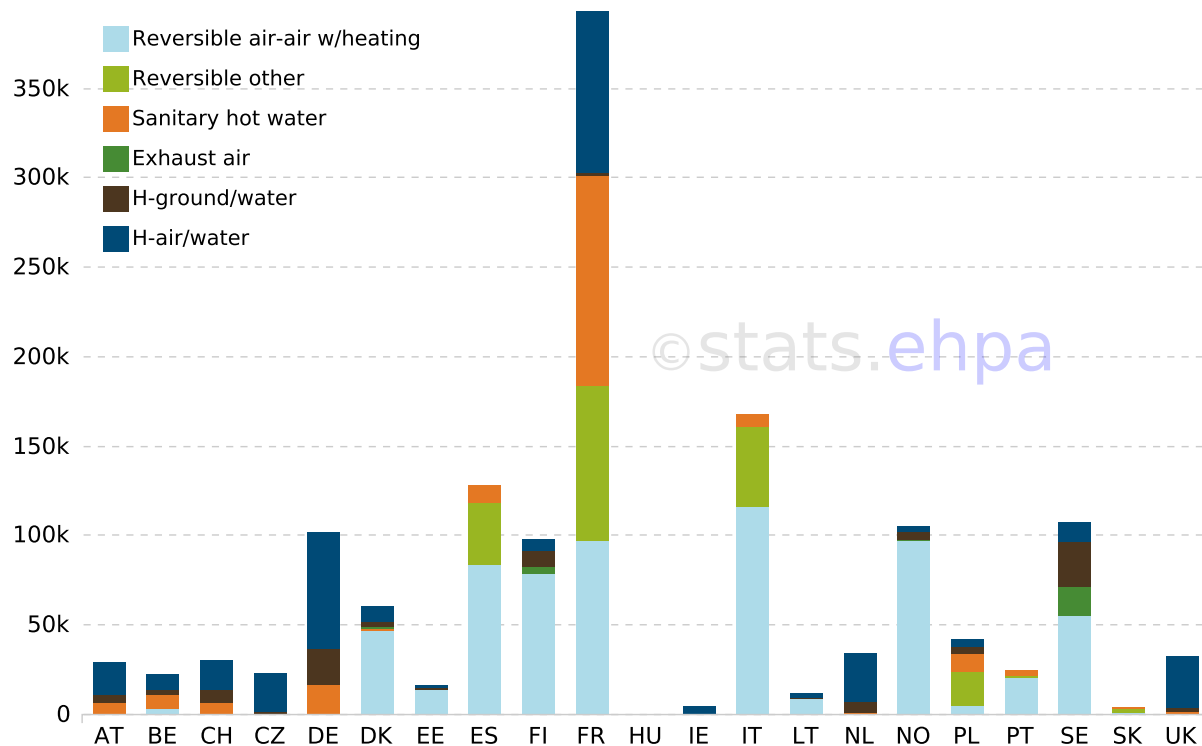
Heat pumps sales 2019 | by country



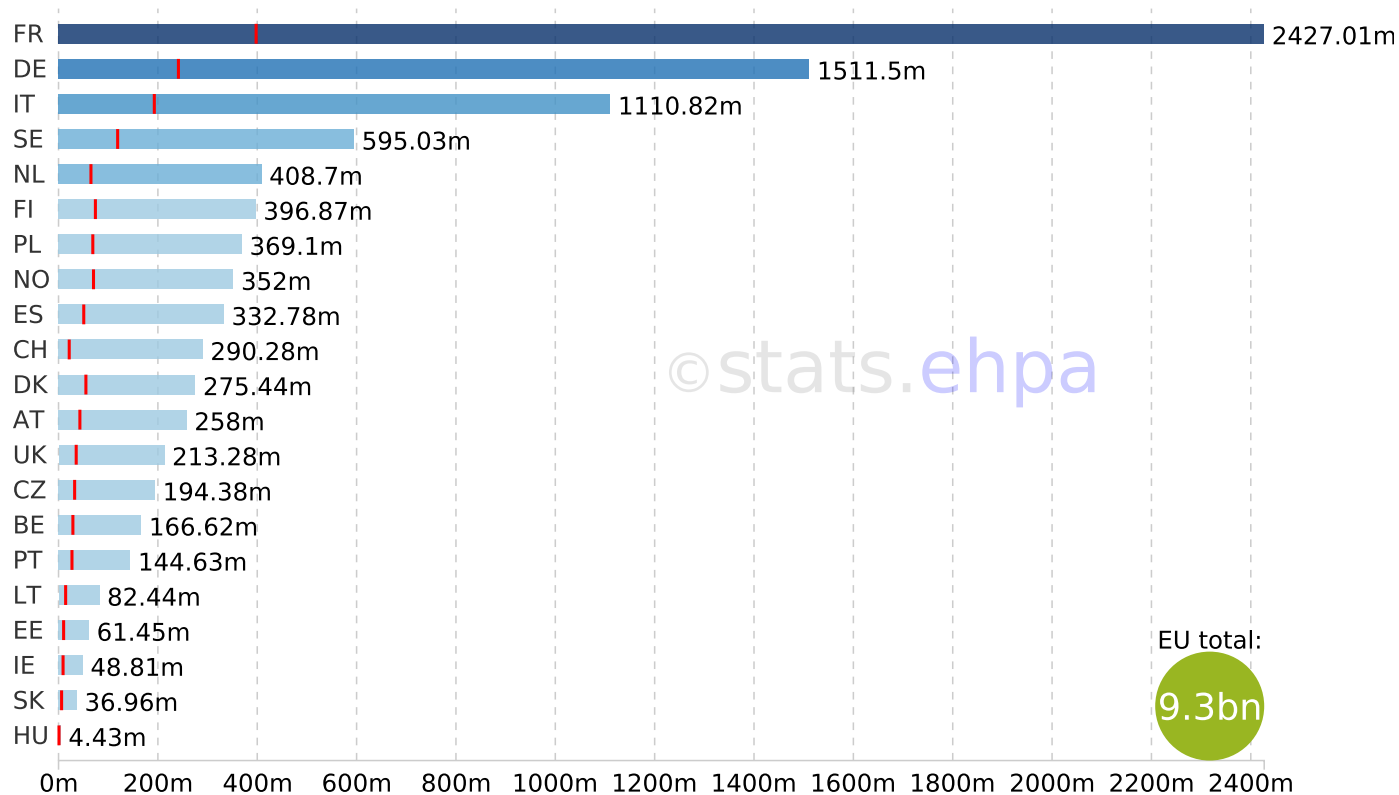
Heat pump sales 2019 | by type



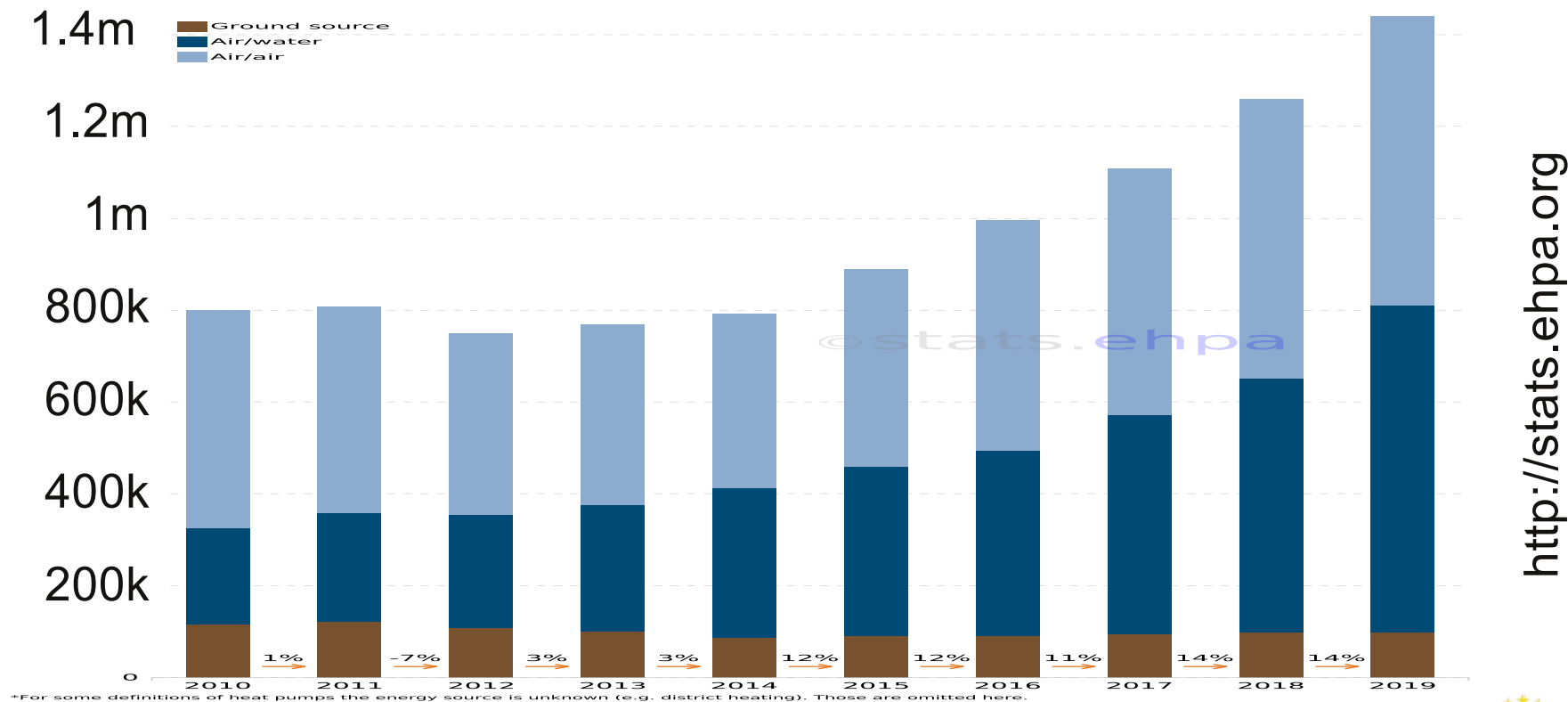
Heat pumps sales 2019 | by country and type



Economic benefit

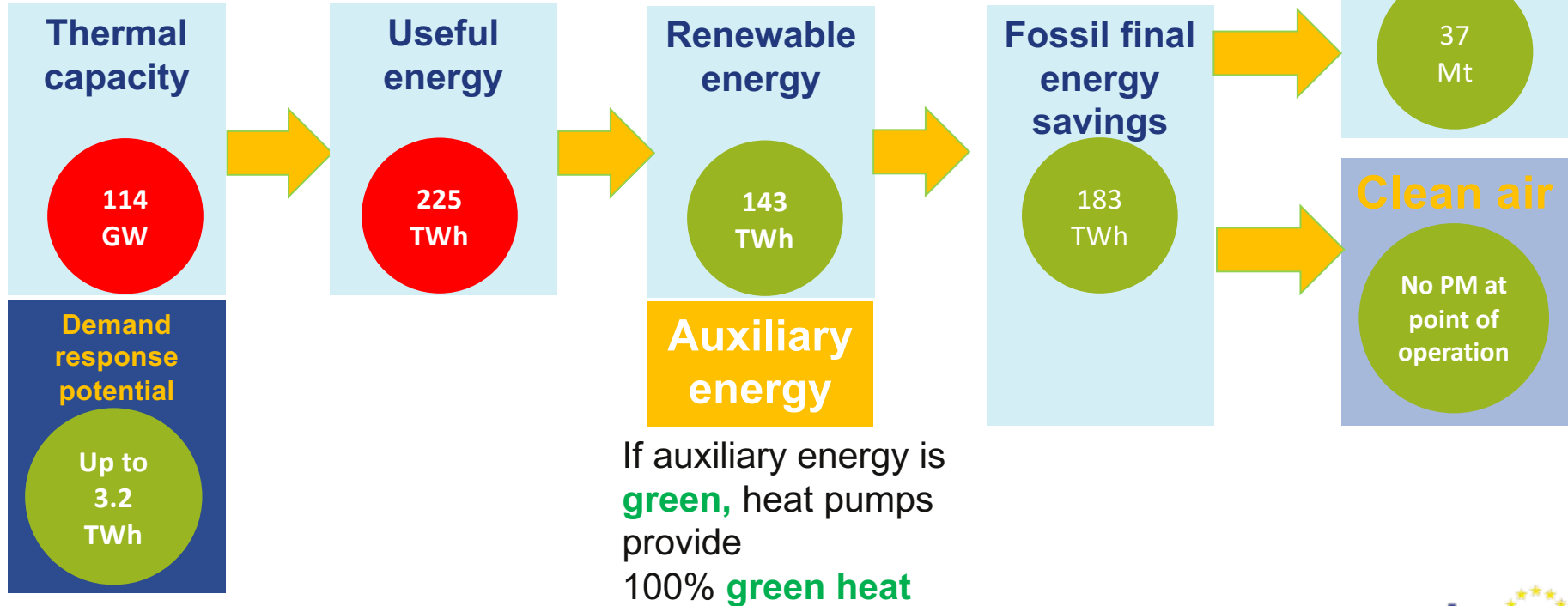


market growth '05 – '19 | HP stock²⁰¹⁹: 13.2 mill. installed



Heat pump benefits 2019

Based on 13.2 million heat pumps installed

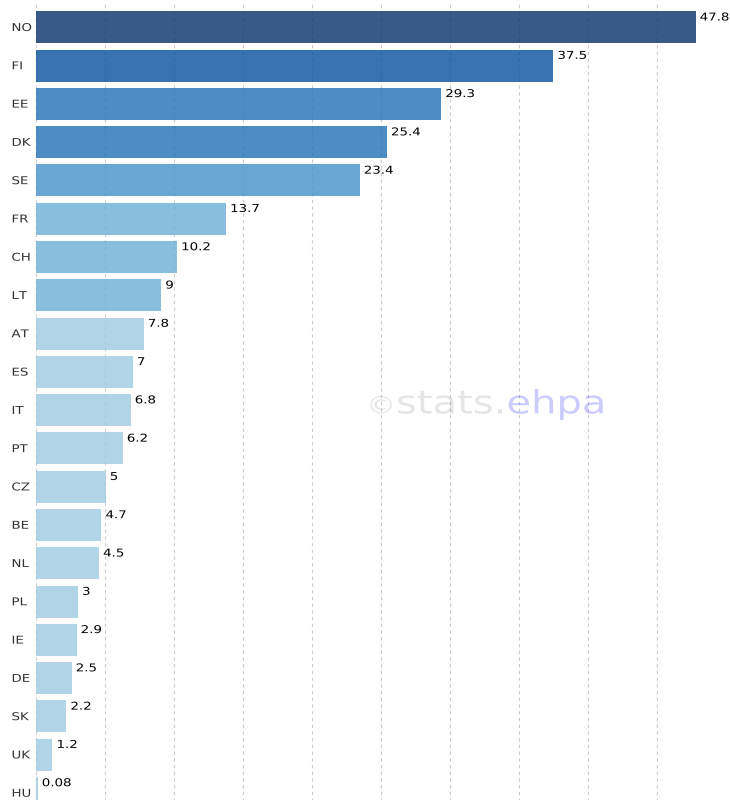


energy demand for heating residential buildings

2 625 TWh₂₀₁₅

Source: <https://www.mdpi.com/1996-1073/13/8/1894/htm>

Units sold per 1000 households in 2019



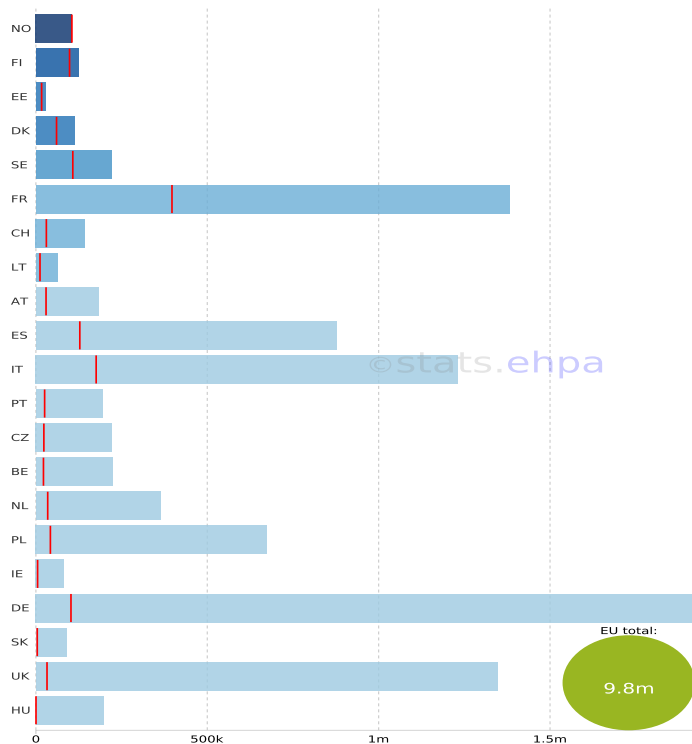
Norway

Runner-up countries

**Huge untapped potential for HP
in the rest of Europe**

©stats.ehpa

If Norway was everywhere ...



- Potential of an increase in sales by factor 5 to 6
- Is the value chain ready?

100% renewable heating is possible – with heat pumps (incl. Hybrids) + a focus on electrification

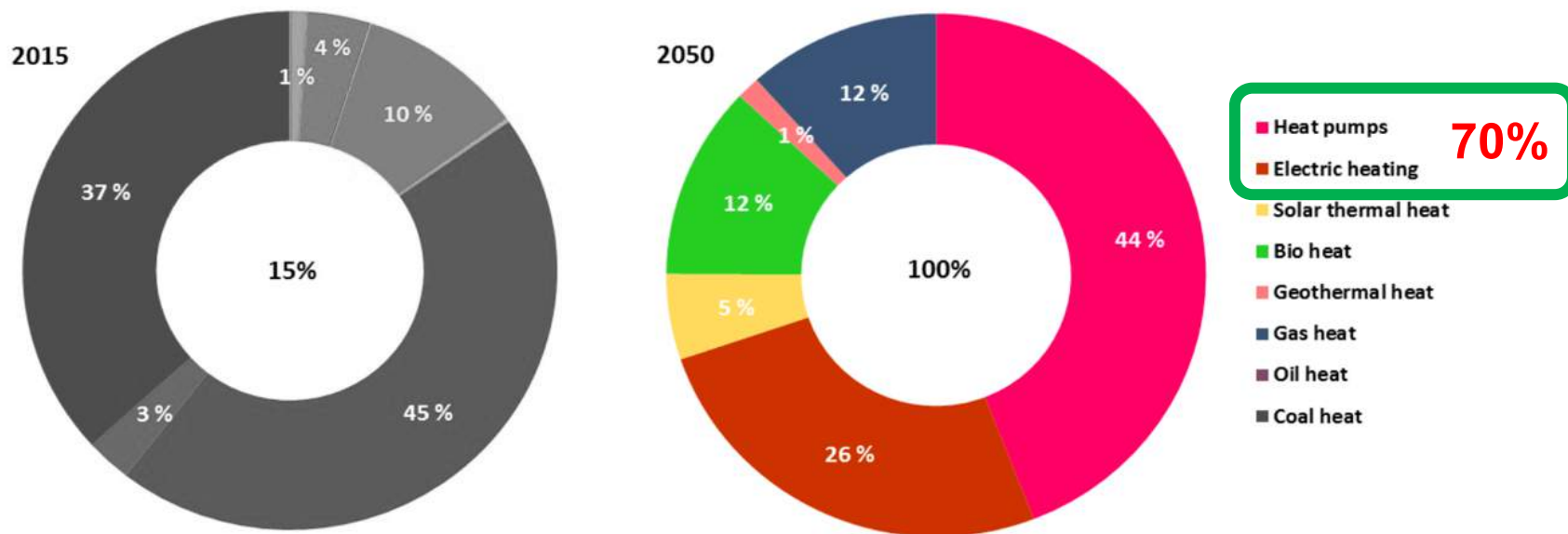
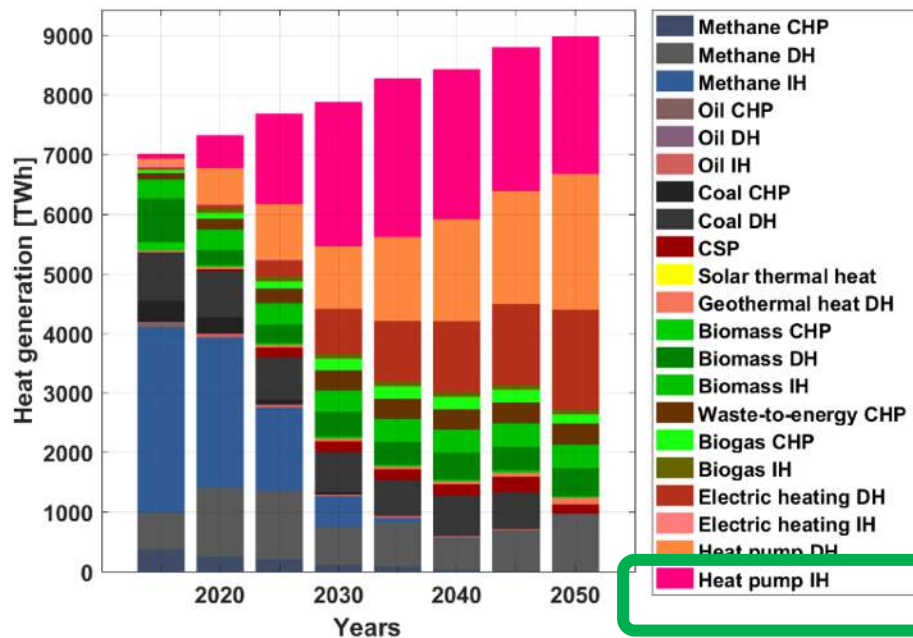


Figure ES-4: Shares of heat supply in 2015 and 2050.

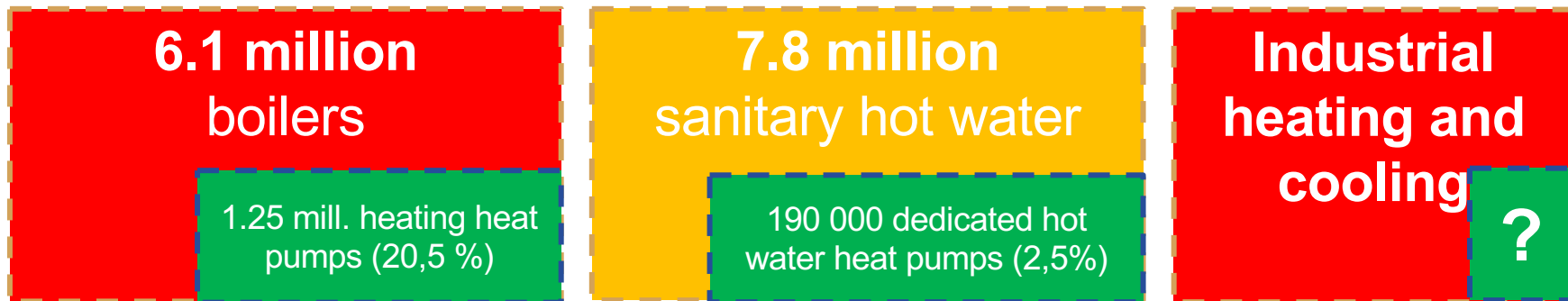
Source: [Global Energy System based on 100% Renewable Energy – Energy Transition in Europe Across Power, Heat, Transport and Desalination Sectors](#)

The electrification of industrial heat



Approx. 27% in 2050

Heat Pumps in the EU heating system 2018

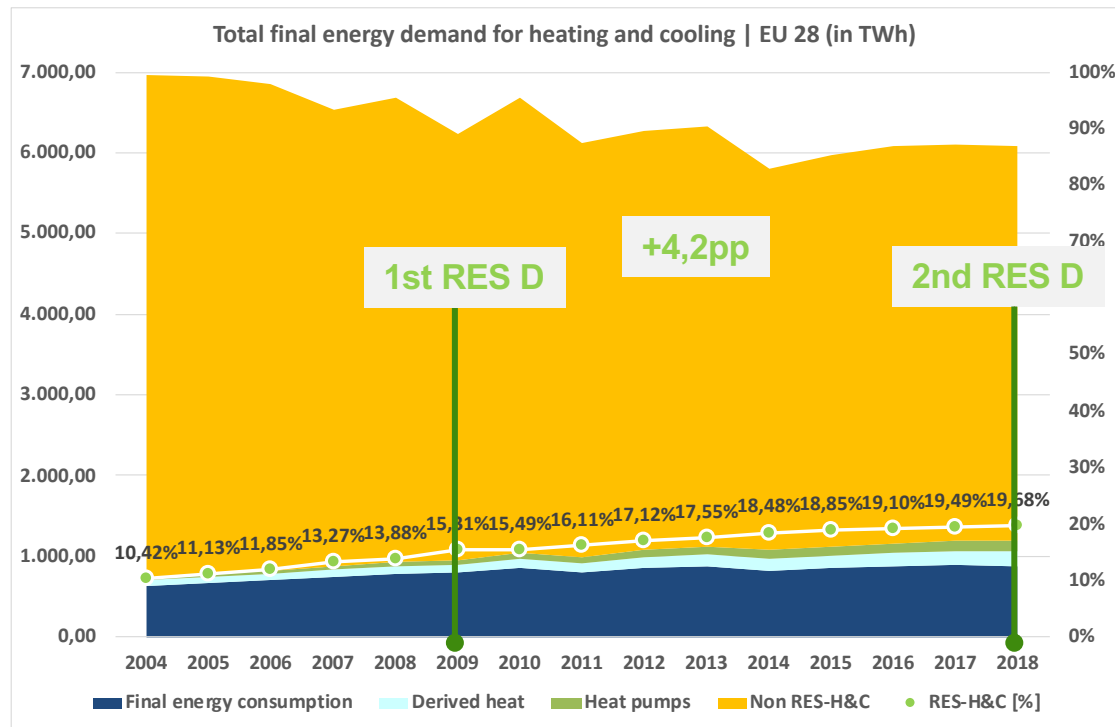


! Data collection in progress

- Use of fossil energy for heating dominates in Europe!
- To decarbonise heating and cooling heat pumps are a perfect option

RES in heating and cooling (based on Eurostat Shares)

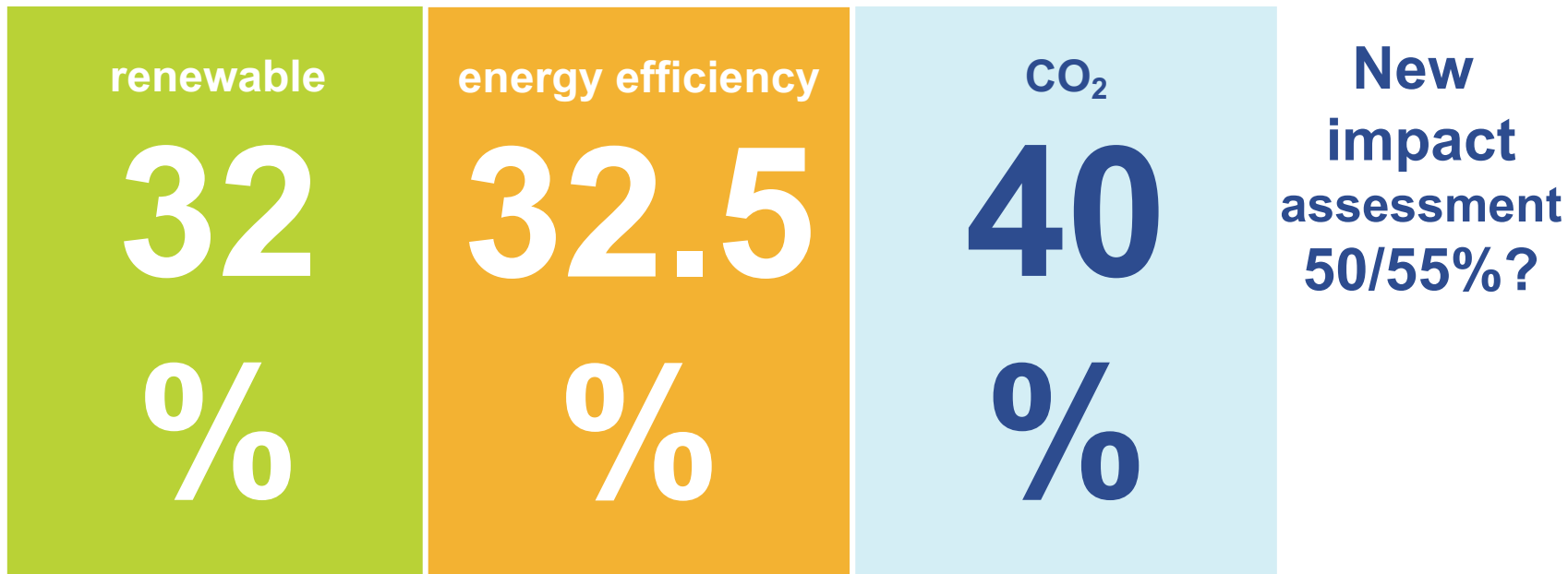
<http://ec.europa.eu/eurostat/de/web/energy/data/shares>



< 1pp
annual increase of
renewable share

2030 targets as set by Clean energy 4 all Europeans package

Heat pumps use renewable energy from air / water / soil, waste energy treated similarly



A European Green Deal renewable – smart – integrated



1 000
000
000
€

Housing renovation plan will be 'flagship' of European Green Deal

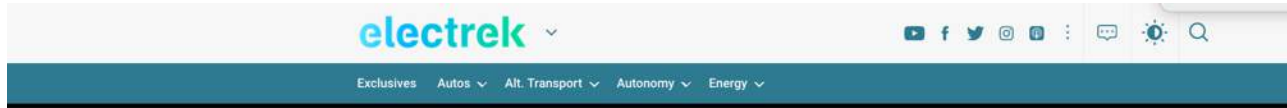
By [Frédéric Simon](#) | [EURACTIV.com](#)

📅 Nov 22, 2019 (updated: 📅 Nov 25, 2019)



"The Green Deal could mean lower energy bills for better and more comfortable houses. Everybody wins," said Frans Timmermans, the EU's incoming Commission VP for the European Green Deal, during his confirmation hearing in the European Parliament. [© European Union 2019 - Source : EP]

New market players ?



Elon Musk hypes up Tesla smart home HVAC, hints at Cybertruck feature

Fred Lambert · Apr. 23rd 2020 3:07 pm ET @FredLambert



Main areas influencing massive deployment of heatpumping technologies

- “Heat pumps work in renovation”
- “Heat pumps work in industry” (and district heating)
- Heat pumps stabilise smart, high-RES electric grids

+ COVID-19

connection of recovery and EU Green Deal

- Support schemes to trigger short term demand
- Reform of energy prices to create continuity

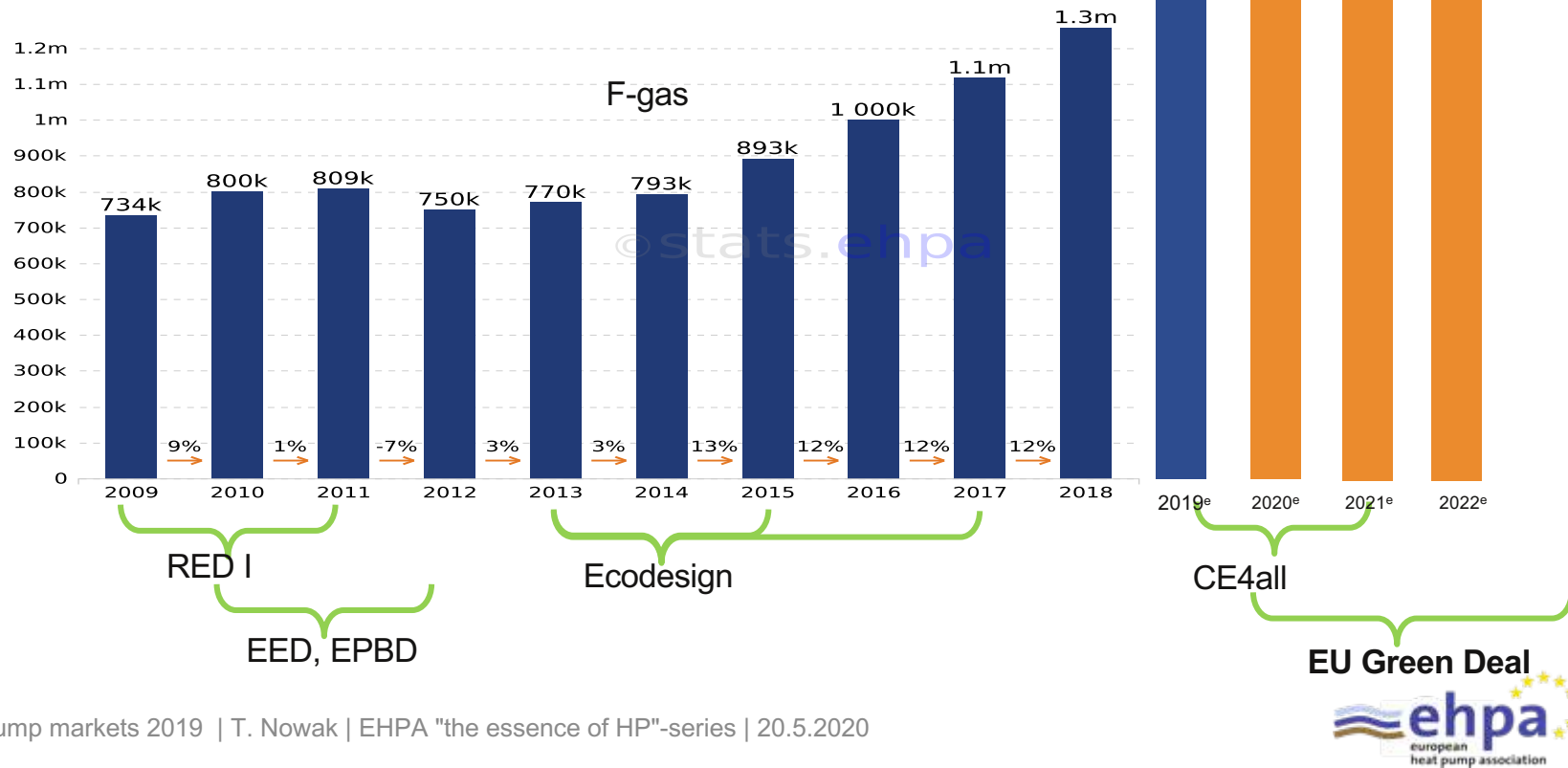




Move past the glass ceiling

- Energy/price ratio
- Energy taxation
- No CO₂-price signal
- Fossil fuel subsidies
- “We can’t electrify everything” argument
(+ debated role of H₂ / eMethane)

Question to the industry: Are we prepared for growth?



A 100% renewable society is possible – by 2050



The European Heat Pump Association AISBL

- EHPA is a Brussels based industry association which aims at promoting awareness and proper deployment of heat pump technology in the European market place for residential, commercial and industrial applications. EHPA provides technical and economic input to European, national and local authorities in legislative, regulatory and energy efficiency matters. All activities are aimed at overcoming market barriers and dissemination of information in order to speed up market development of heat pumps for heating, cooling and hot water production.
- EHPA coordinates a quality initiative including a Quality label for heat pumps and Certification standards for heat pump installers. The association compiles the annual heat pump statistics and organizes a number of events, among them an annual heat pump conference.

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<http://www.ehpa.org>