IEA Building Webinar Series May/June 2014

- IEA ETP 2014 High Electrification Scenario to Promote Heat Pumps
- Thomas Nowak, Secretary General

- Webinar
- May 21th, 2014

ehpa european heat pump association

European Heat Pump Association (EHPA)

- 109 members from 22 countries (status 05/2014)
  - Heat pump manufacturers
  - Component manufacturers
  - National associations
  - Consultants
  - Research & test institutes
- EU-wide representative of heat pump industry
- Registered in Brussels



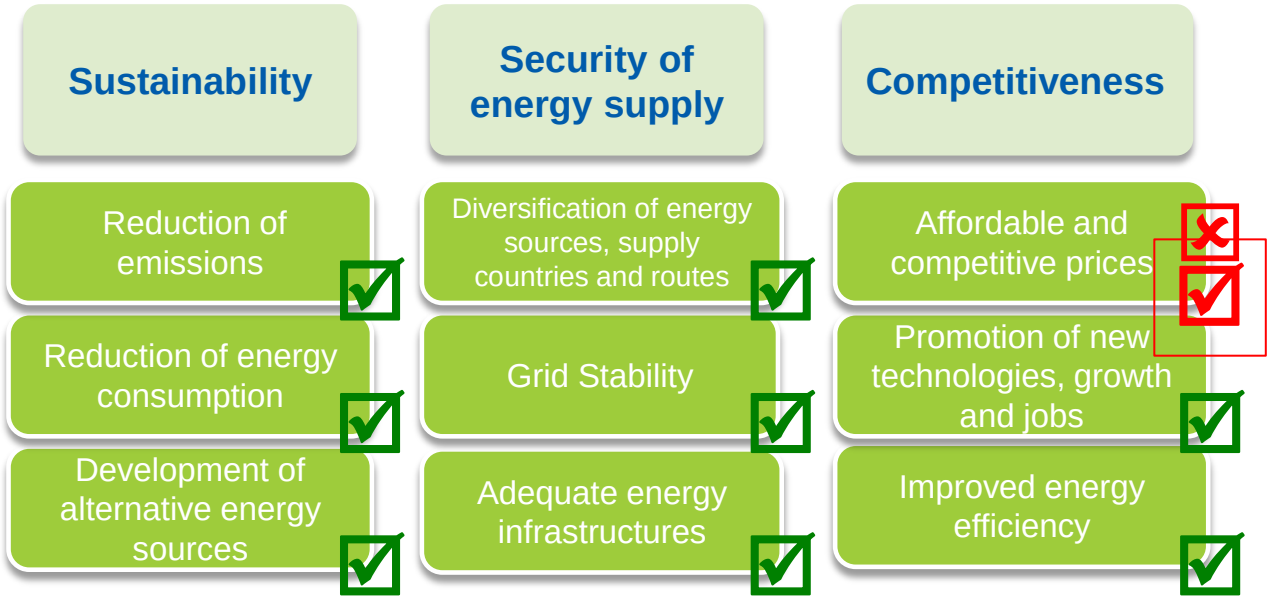
Vision: Heat pumps as a core technology for heating, cooling, hot water in Europe

EHPA represents the majority of players in the EU heat pump industry!

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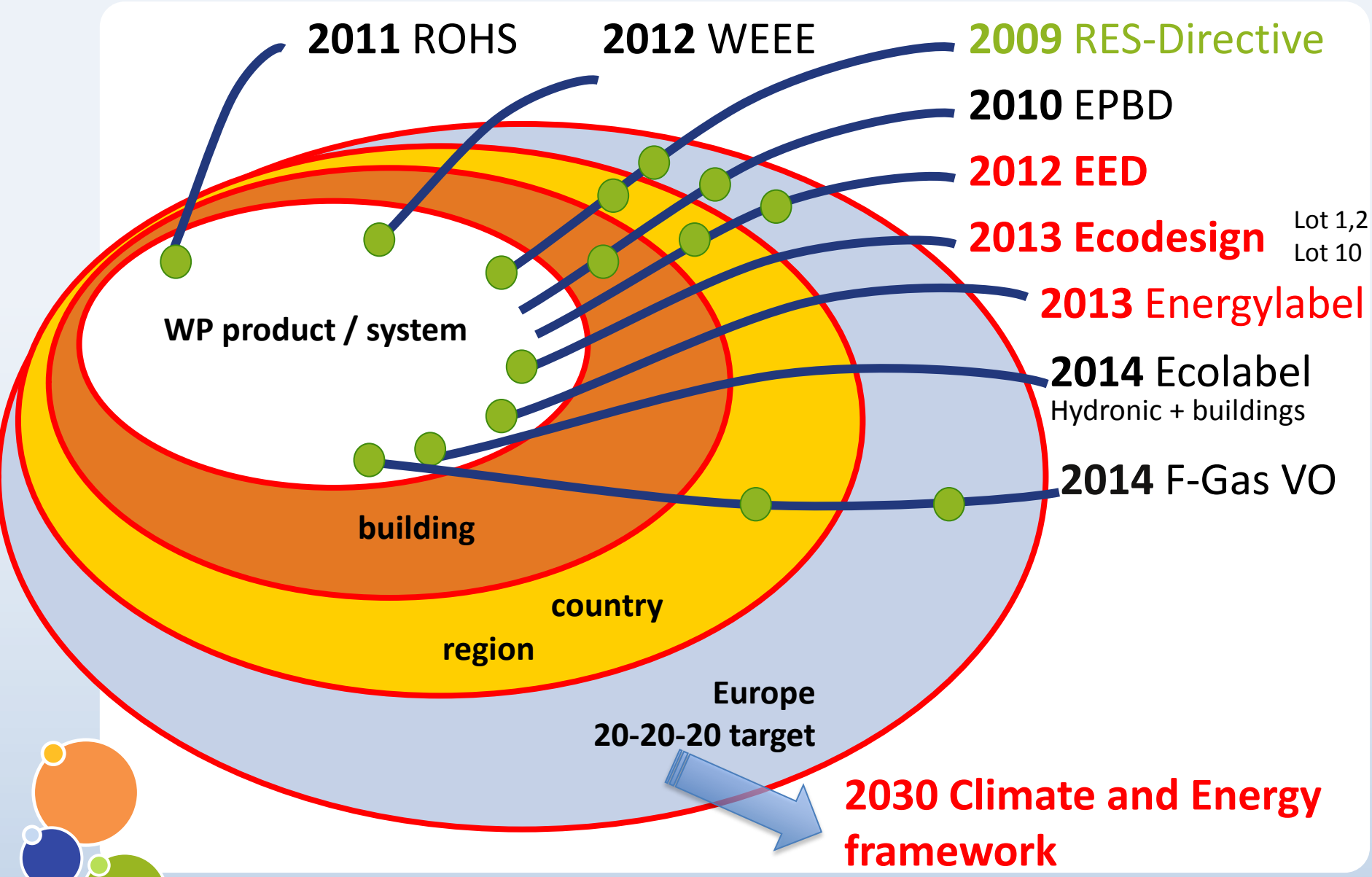
Heat pumps in future legislation?

- **The 2030 framework must ensure progress towards three objectives**



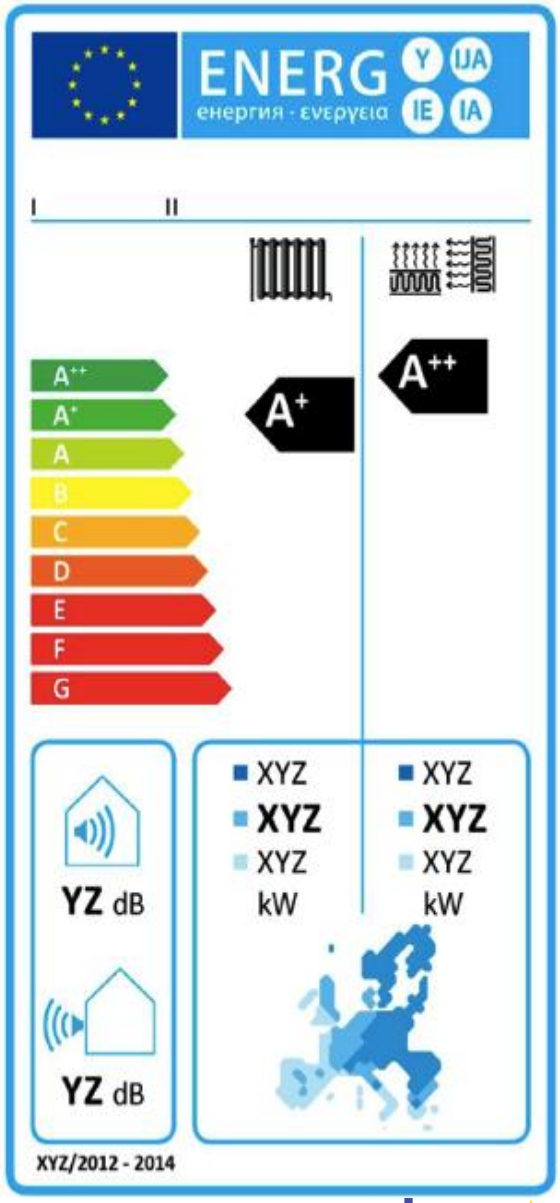
The 2030 policy framework should take into account lesson learnt from the 2020 framework and the economic and political context of today

Source: Marie Donelly, presentation at the 6th EHPA European Heat Pump Forum,


2011 ROHS
2012 WEEE
2009 RES-Directive
2010 EPBD
2012 EED
2013 Ecodesign
Lot 1,2
Lot 10
2013 Energylabel
2014 Ecolabel
Hydronic + buildings
2014 F-Gas VO
WP product / system
building
country
region
Europe
20-20-20 target
2030 Climate and Energy framework

Ecodesign and the Energylabel (2013/811,812,813,814/EU)

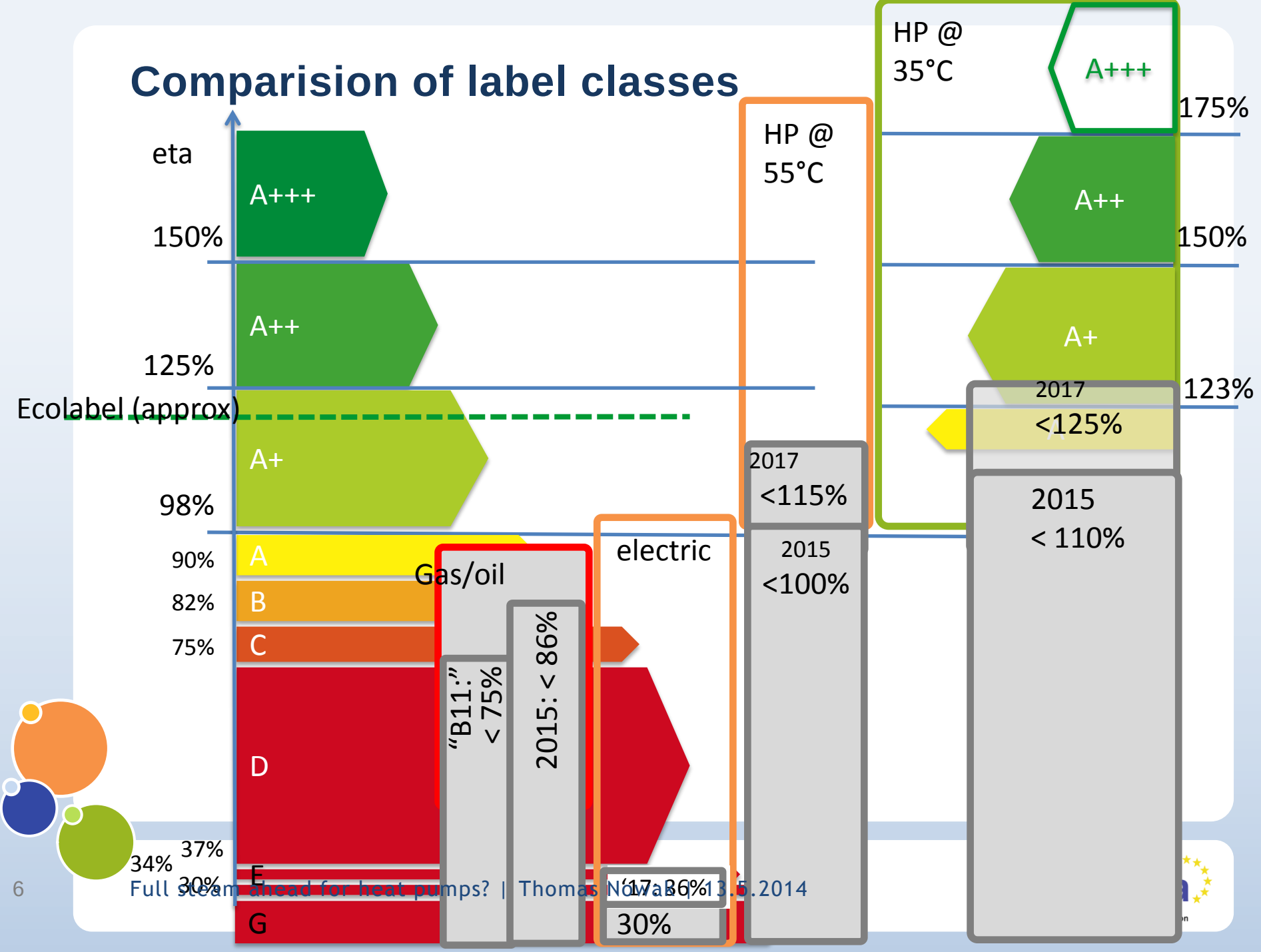
- **Ecodesign** requirements for fossil, heat pumps, micro-CHP … ; Up to 400kW$_{heat\ output}$
- Based on primary energy
- Transitional method for efficiency calculation
- Bans of low efficient products from 2015/17: gas < 86%, electric < 30%/36%, HP: 100% | 115% / 110%/125%
- **Energylabel** for products up to 70kW$_{heat\ output}$
- Consumer information by product / package label
- energy label for products with same function
- distribution systems, Three climate zones



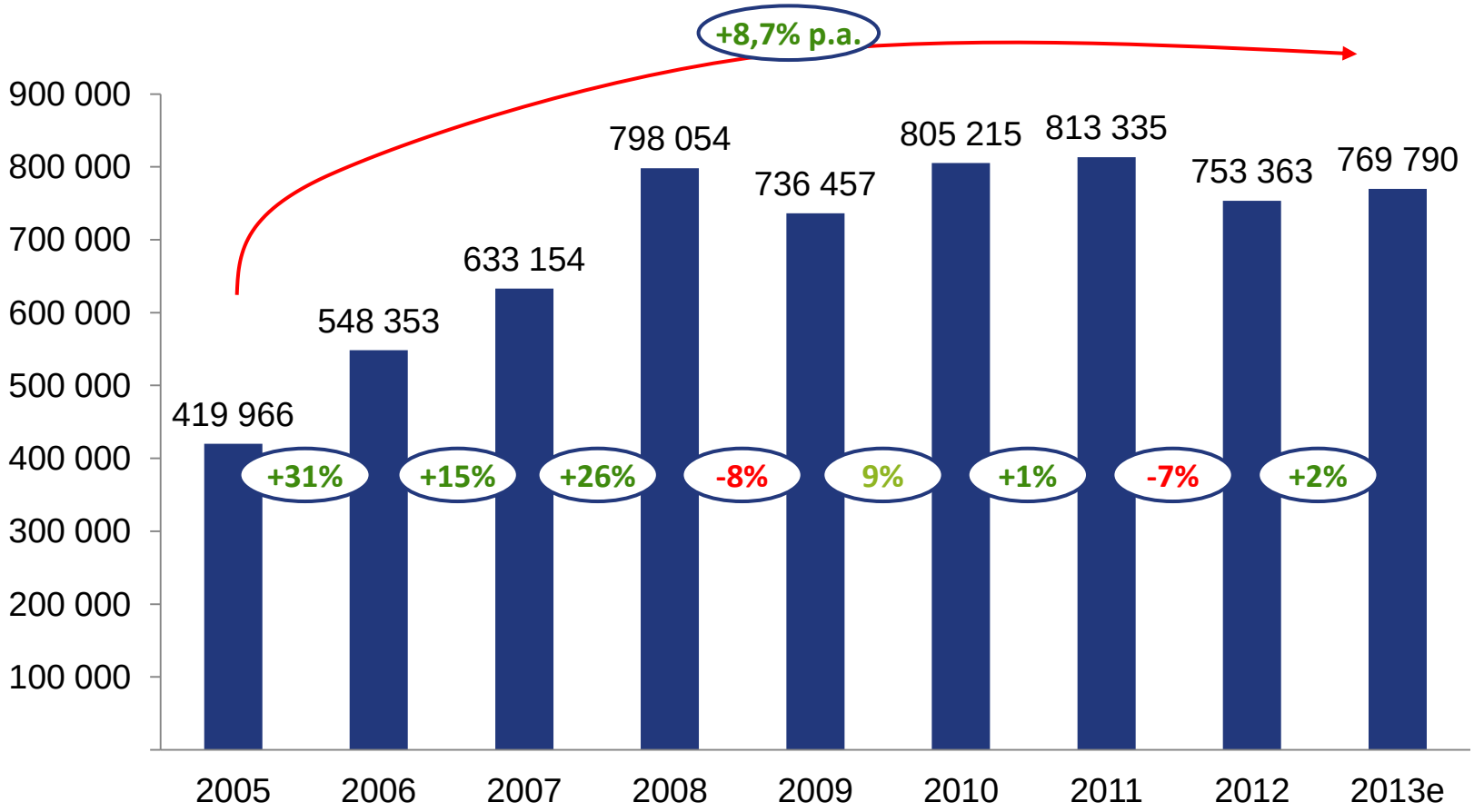
Heat pumps are best in class

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Comparision of label classes

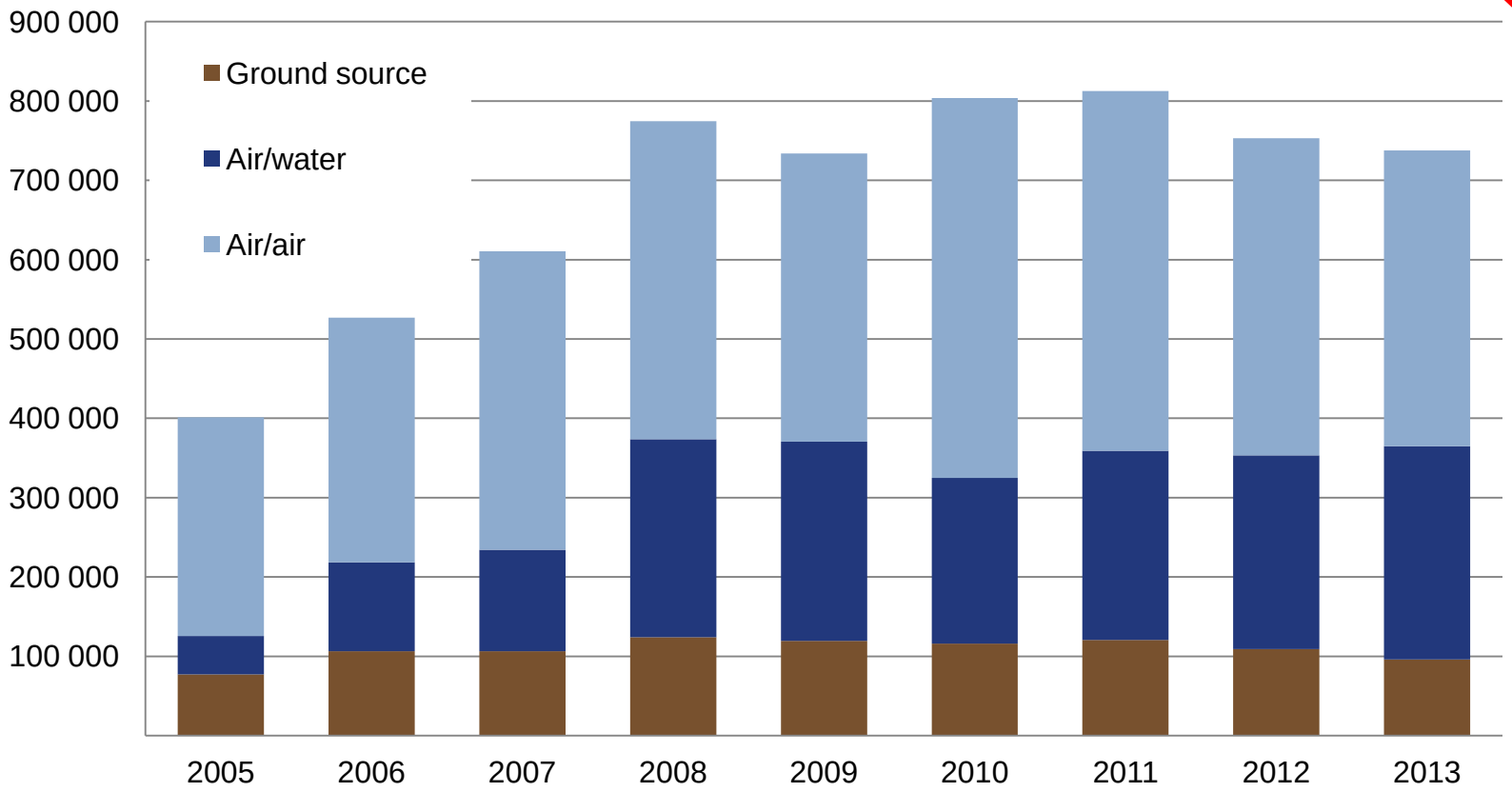


Market development until 2005 - 2013e
Accumulated: 6.8 million units installed



Heat pump sales in Europe 2005-2013 by energy source

Trend #1: air source



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Sanitary hot water heat pumps

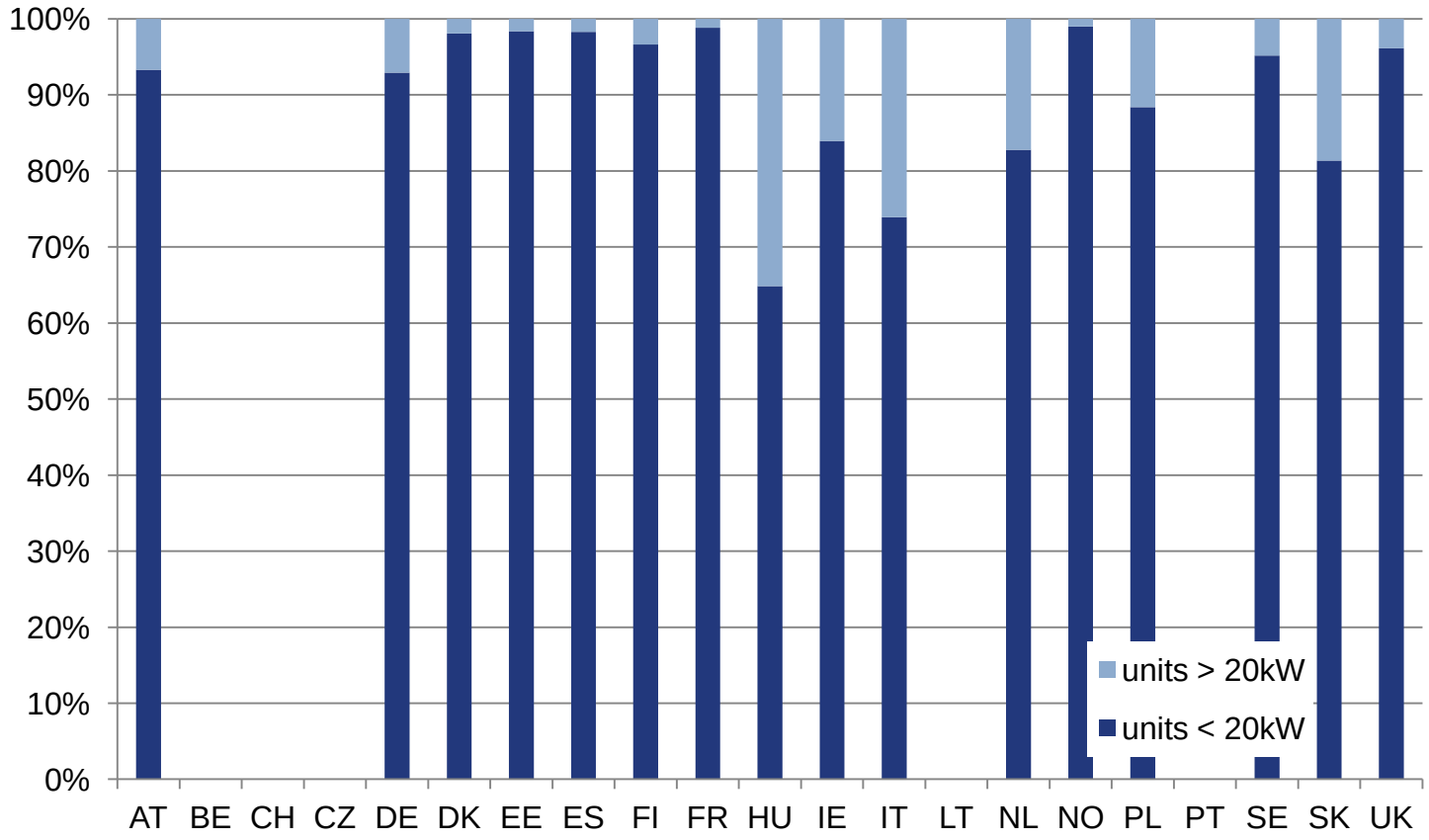
Trend #2: hot water



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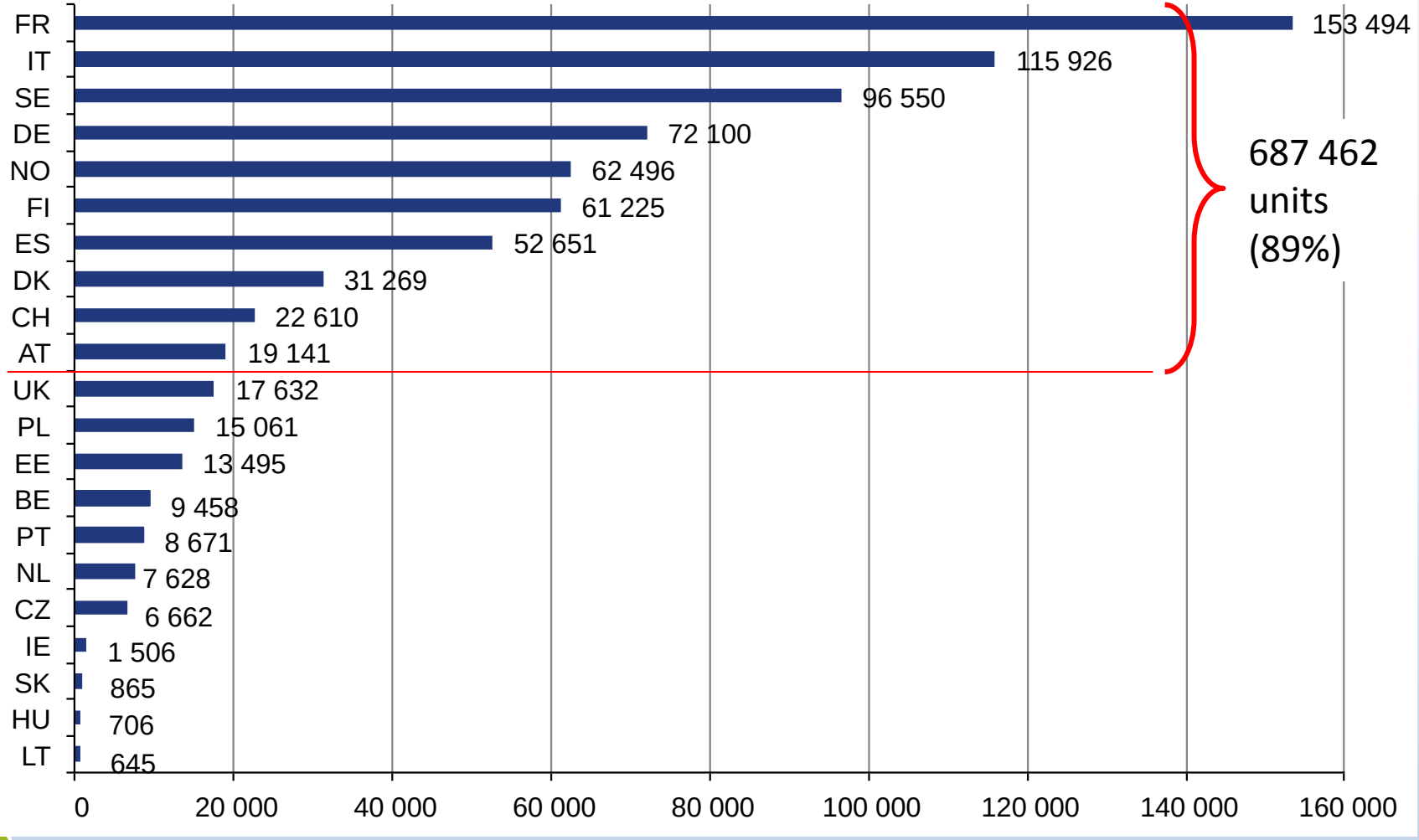
Split of heat pump sales 2013: by capa

Lack of data for Large HP units – trend #3?



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Top 10 heat pump markets

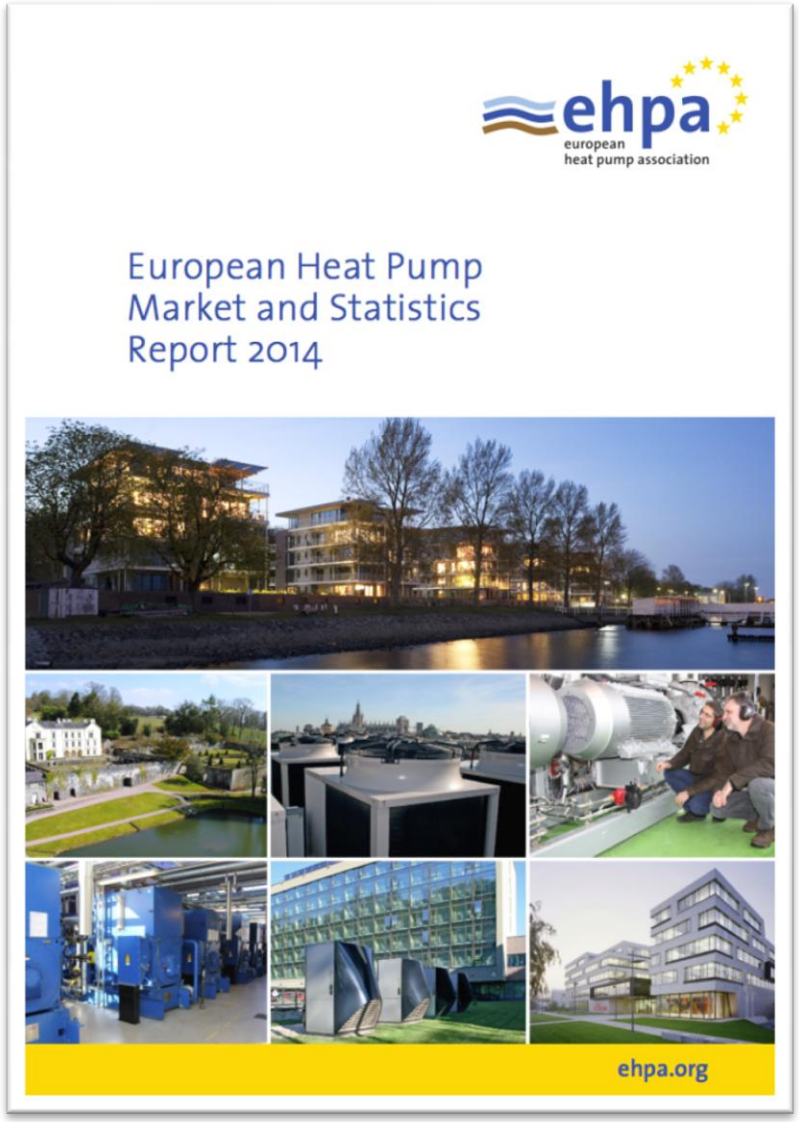


Conclusion

- Heat pumps efficiently provide renewable energy for heating, cooling, hot waterwork
- Residential, commercial and industrial solutions are available
- Despite the match with EU climate and energy targets, no clear recognition across MS
- More work needed by Commission, Member States and industry to remedy the situation

Policy request towards “full steam ahead”

- **Implementation of legislation** on the Member State level
- **Equal treatment** of technologies with regards to **subsidies/taxation**
- Proper and **consistent recognition of heating / cooling** and heat pumps in all policy documents addressing energy
- improved **data** basis for policy modeling on energy use in buildings and industry
- Support for heat pumps in **horizon 2020** (basic research), evaluation of projects vs. the contribution to targets



Full report available soon

http://www.ehpa.org/market-data/

The European Heat Pump Association EEIG

- 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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