

POLICY NOTE – “Winter is coming...”



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Note to the editor

The Brussels based European Heat Pump Association (EHPA) represents the majority of the European heat pump industry. It has currently 110 members from all parts of the industry's value chain: heat pump and component manufacturers, research institutes, universities, testing labs and energy agencies.

Its key goal is to promote awareness and proper deployment of heat pump technology in the European market place for residential, commercial and industrial application. EHPA coordinates the European Quality label for heat pumps and the EUCERT education and training scheme for heat pump installers. It compiles the annual sales statistics and market outlook.

STATEMENT

With the upcoming heating season, **the question of energy supply security and affordability of heating is moving to the centre stage of the political agenda.** Smart decisions are needed to reduce Europe's energy dependency on fossil fuels in the heating sector, while helping EU Member States to meet long-term efficiency, environmental and green growth objectives.

With more than 6 million installed units, **heat pumps have proven their reliability.** The technology is an affordable and efficient option to provide heating, cooling and hot water for residential, commercial and industrial applications.

A study using EHPAs market data reveals: an additional 54 million heat pumps can put an immediate end to the need for Russian gas imports to Europe.

Aiming to achieve this goal over the next 15 years would not only significantly reduce Europe's import dependency but would also be **a key enabler towards meeting Europe's ambitious energy goals for 2030.** In fact it would make those goals today perceived as "too ambitious" realistic and achievable.

In 2030, a total of 60 million heat pumps in operation would provide 60 Mtoe of renewable energy, reduce energy demand by 37 Mtoe and reduce GHG emissions by 181 Mt. This would also go hand in hand with the creation of 333,772 additional jobs.

This vision is realistic because many heat pump markets have left their infancy status and have the necessary infrastructure and expertise to allow for double digit growth.

An annual market growth of 17% across Europe would be needed. It can be triggered by **swift and decisive actions taken by the EU and its Member States**, such as:

- **acknowledging and raising awareness** on the assets and the potential of heat pumps for energy security, climate change mitigation and green growth in Europe;
- **reducing the competitive advantage of other** less efficient, less environmentally friendly and/or less indigenous energy sources;
- **boosting investment** in heat pumps (one of the few technologies currently not benefitting from almost any public funding, according to recent EC study).

**Heat pumps, will help Europe get prepared for this winter...
...and the winters to come!**

Remark:

All figures in this note result from processed data from *EHPA market and statistics report 2014*.

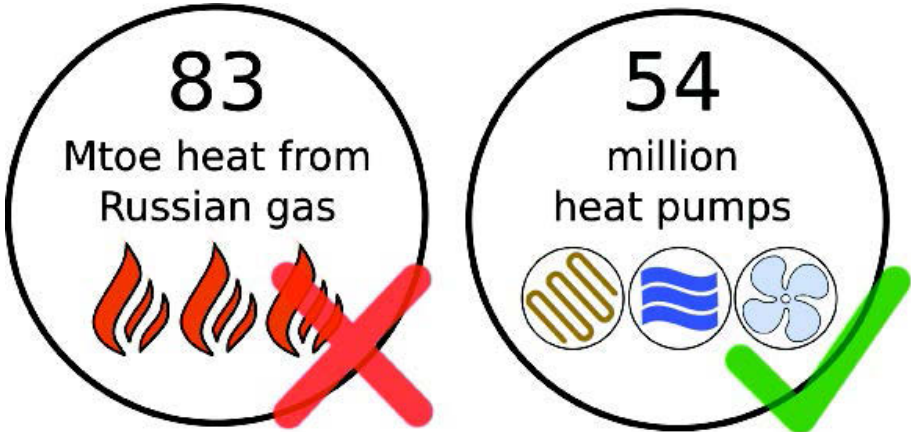
ANALYSIS 1 - The potential of heat pumps for Europe's security of supply

In 2012 the European Union (EU28) imported 523,094 Mton of crude oil, 306,212 Mtoe of natural gas and 217,749 Mtoe of solid fuels. The total bill amounted to €545 billion or 4.2% of the total EU GDP.

In the same year gas imports from Russia reached 97,9677 Mtoe. Due to gas boiler efficiency losses, only 85% or 83 Mtoe will be available as useful heat to the end consumer.

The recent political tensions between the EU and Russia on the Ukraine conflict have strengthened the importance to look for credible alternatives from domestic energy sources.

For this reason, we have calculated how many additional heat pumps would be needed to provide the 83 Mtoe of useful heat to end users.

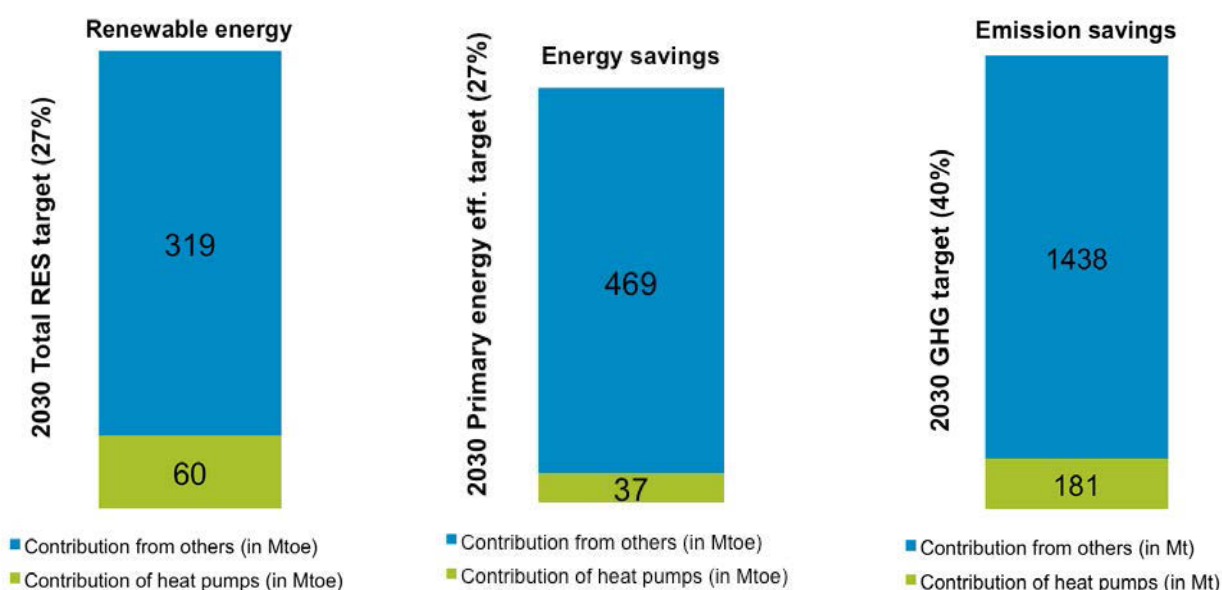


A total of 54 million additional residential heat pumps would provide sufficient useful energy to the end user to render gas imports from Russia unnecessary.

ANALYSIS 2 - The potential of heat pumps for Europe's 2030 energy targets

Increased deployment of heat pump technology can also contribute to the mitigation of climate change. As one of many actors, the International Energy Agency (IEA) has recently highlighted, that neither a continuation of the business-as-usual approach, nor the currently visible extra efforts foreseen by governments are sufficient to avoid devastating effects to our environment. Instead a clear commitment towards energy efficiency and the deployment of renewable energy sources and supportive action on all levels is needed.

Mitigating climate changes is getting much easier with heat pump. The figures below show how a total of 60.7 million installed heat pumps would help the EU and its Member States to achieve the 2030 climate and energy targets.



54 million additional heat pump units result in a 2030 stock of nearly 61 million units. They would provide **60 Mtoe of renewable energy**, **reduce energy demand by 37 Mtoe** and **reduce GHG emissions by 181 Mt**, thus making ambitious 2030 climate and energy targets much more realistic.