



Decarbonising Heating and Cooling

The Role of F-Gases



11
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EPEE Members, representing 200K jobs in Europe, make the full product range of refrigeration, air conditioning and heat pump equipment, including ...



Residential Heat Pumps, e.g. hydronic



Air/Air Heat Pumps for residential and commercial use



Large AC and heat pumps (chillers, VRFs, rooftops, ...)



Commercial Refrigeration



Industrial Refrigeration



Transport refrigeration

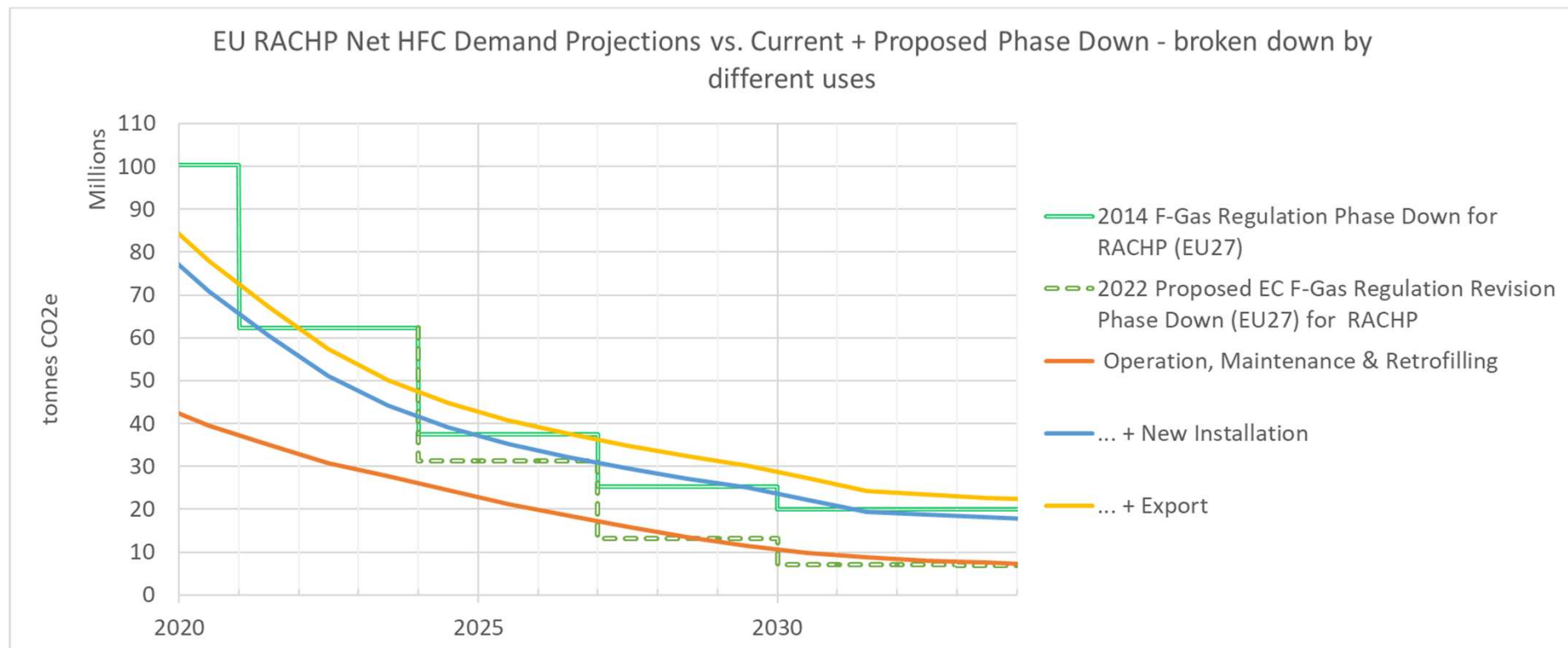


District Heating and Cooling



... which requires a diversity of refrigerants – HFCs, HFOs and natural refrigerants

EU F-Gas Regulation Revision Proposal: servicing of existing equipment would use up all available HFC quota from 2027



Source: HFC Outlook EU

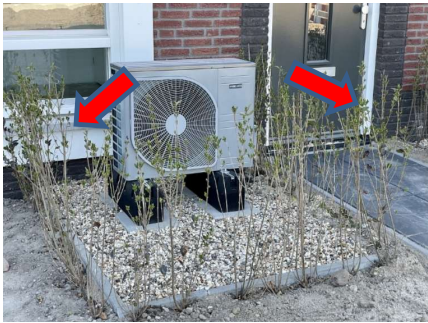


EU F-gas legislation is a success, and the task now is how to build on it with pragmatism and ambition.

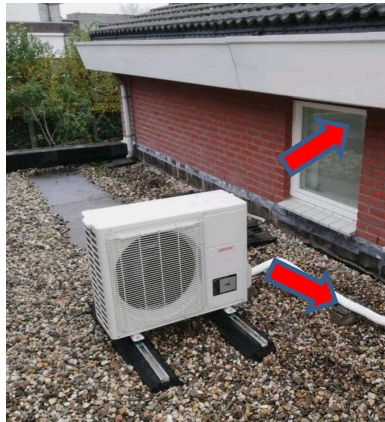
- Ambition comes at a price for consumers and building owners, and the **cost burden** on them has to be taken into account when setting ambitious goals.
- EPEE members use a wide variety of refrigerants including natural refrigerants. However, for several applications **lower GWP options will not be possible due to technical barriers** (energy efficiency, safety, building codes)
- Transitioning to heat pumps and new refrigerants will create **skilled jobs**, but learning new skills cannot be done overnight.



Examples of residential heat pump installations where a monobloc propane heat pump would NOT be possible to install



Too close to door & window



Flat roof and too close to window



Too close to sewer drain



Air source monobloc heat pump for INDOOR installation



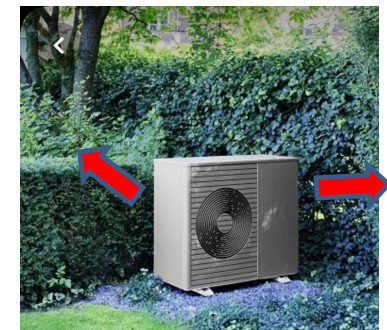
Too close to window



On a roof (also too close to window)



Basement garage + close to door



Too close to neighbour or public road