POLICY CONTEXTS AND IMPLICATIONS OF F-GAS REFRIGERANT PHASE DOWN

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Outline

The global drivers of change

The current legislative landscape

Implications for HFOs

Future legislative change

Delivery challenges
Global drivers for change

Protection of the ozone layer

- The quantity of ozone-depleting substances in the atmosphere has been decreasing for more than a decade

Climate change

- Paris Agreement: “keeping a global temperature rise this century well below 2 degrees Celsius above pre-industrial levels and to pursue efforts to limit the temperature increase even further to 1.5 degrees Celsius”
Global action on HFCs
HFO growth sectors

Mobile air conditioning

Large stationary air conditioning

Some supermarket refrigeration

Foam blowing
HFC phase down milestones

- 2015 EU phase down begins
- 2015 EU phase down begins
- 2019 Kigali comes into force, 10% phase down for developed countries
- 2020 EU service ban
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- 2021 EU 55% phase down
- 2021 EU 55% phase down
- 2022 EU review of F-Gas Regulation
- 2022 EU review of F-Gas Regulation
- 2024 Developing country phase down begins
- 2024 Developing country phase down begins
- 2030 EU F-Gas Regulation 79% phase down complete
- 2030 EU F-Gas Regulation 79% phase down complete
- 2035 Kigali developed country 85% phase down complete
- 2035 Kigali developed country 85% phase down complete
- 2040
- 2040
- 2047 Kigali developing country 85% phase down complete
- 2047 Kigali developing country 85% phase down complete
Challenges – safety standards

CEN/CENELEC

- Nov 2017 – EU request for new standard for flammable refrigerants
- 2018 – Working group being established
- Annual progress reports at end of each year
- Feb 2021 – Final report requested

Internationally

- Montreal Protocol – China and EU leading call for action
- IEC standard for commercial refrigeration:
  - July 2018 – Voted to raise hydrocarbon charge size to 500g
  - End 2018 - Final vote
  - Early 2019 – New standard published?
Other challenges

Technician training

HFO environmental impact

HFO patents and developing country funding

Energy efficiency
THANK YOU
Questions?

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