

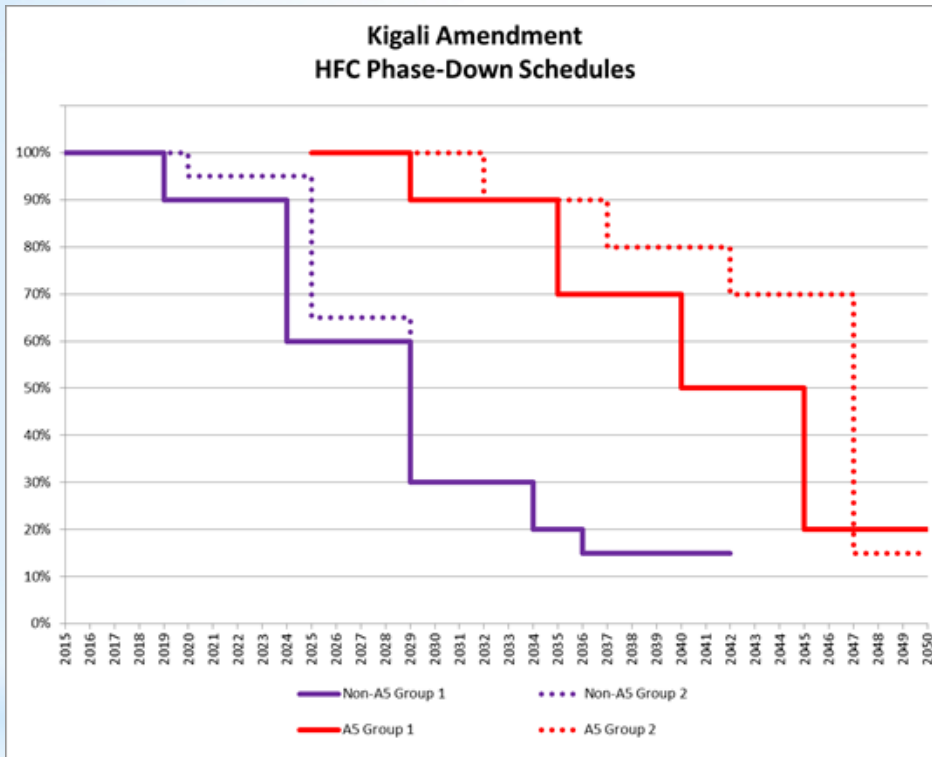


# Opportunities for Natural Refrigerants Post-Kigali

ATMOsphere Network EuroShop 2017 - Natural Efficiency

Clare Perry

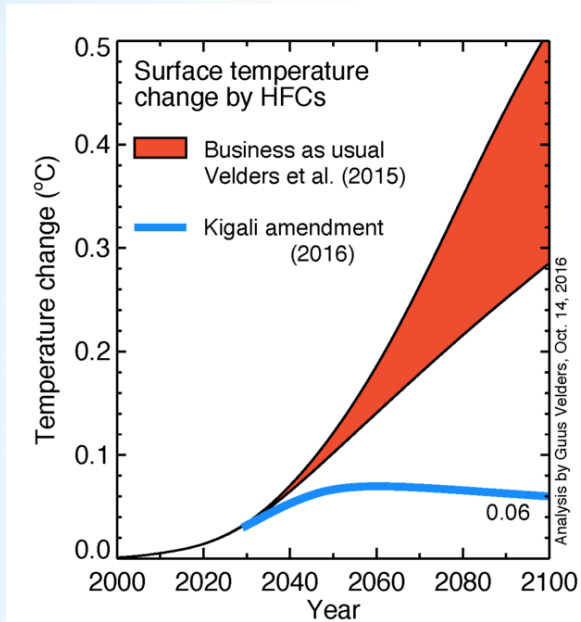
Environmental Investigation Agency (EIA)



\* Global phase-down of HFCs on CO<sub>2</sub>e basis from agreed baseline

\* Comes into force 1 Jan 2019 with 20 Parties ratifying

## \* Kigali Amendment to the Montreal Protocol



- \* Around 80GtCO<sub>2</sub>e avoided by 2050
- \* > 0.4 °C warming avoided by 2100
- \* Can be strengthened over time
- \* Energy efficiency gains could 'double' climate impact

## \* Impact of the HFC amendment

- \* Guidelines for finance to developing (A5) countries
- \* To be negotiated by end of 2018 - first meeting in April 2017
- \* Key issues:
  - R&D low-GWP alternatives
  - Costs of safe intro of flammable & toxic alternatives
  - Enabling activities
  - Funding for leapfrogging



## \* Decision XXVIII/2: Decision Related to the Amendment Phasing Down HFCs

- \* 'Requests TEAP to review energy efficiency opportunities in the RAC and heat pump sectors related to the transition to climate-friendly alternatives, including NIK options'
- \* Report will be discussed at MoP29 in November 2017
- \* MLF will negotiate finance for 'maintaining or enhancing' energy efficiency



## \* Decision XXVIII/3: Energy Efficiency

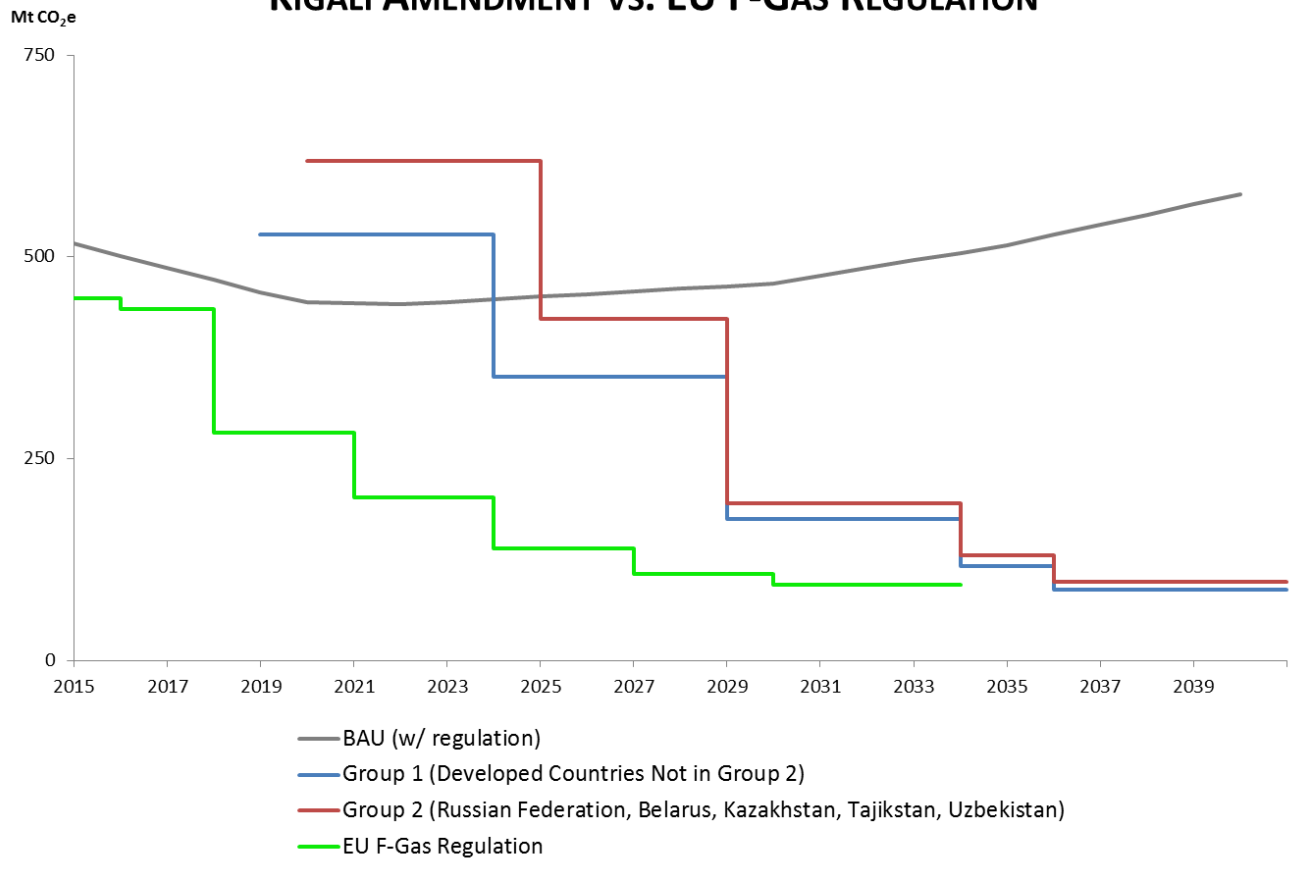


- \* Recognises need to update international standards for flammable refrigerants
- \* Establishes TEAP task force to liaise and coordinate
- \* Aim to revise requirements for A2, A2L and A3 at the same time, using a fair, inclusive and scientifically sound approach
- \* Workshop in Bangkok, July 2017



- \* **Decision XXVIII/4: Establishment of Regular Consultations on Safety Standards**

# DEVELOPED COUNTRIES: KIGALI AMENDMENT VS. EU F-GAS REGULATION



- \* Europe has to move rapidly away from HFCs to meet 2018 quota cut (37%+)
- \* China is focusing on natural refrigerants in HCFC phase-out
- \* The Kigali amendment is an opportunity for a global shift in cooling away from HFCs
- \* Natural refrigerants offer sustainable, energy efficient and future proof solutions to cooling

**BUT**

- \* The playing field is still not level - safety standards / costs / training - key barriers
- \* Retailers and other end users need to demand future proof (HFC-free) solutions
- \* The natref industry needs to invest in the future - send experts to the standards discussions and relevant Montreal Protocol meetings
- \* Governments need to offer training and financial support measures

\* Opportunities for natural  
refrigerants



\*Thank You!

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