Transition to HFC-free refrigeration

ATMOsphere America 2014 San Francisco, CA June 19, 2014



Steven Cousins



A global initiative of companies taking action to combat climate change by replacing fluorinated gases in refrigeration equipment with climate-friendly natural refrigerants

Clear goal: Procure only HFC-free equipment for commercial stand-alone units

Recognized as a "Partnership for Sustainable Development" by the UN Commission on Sustainable Development

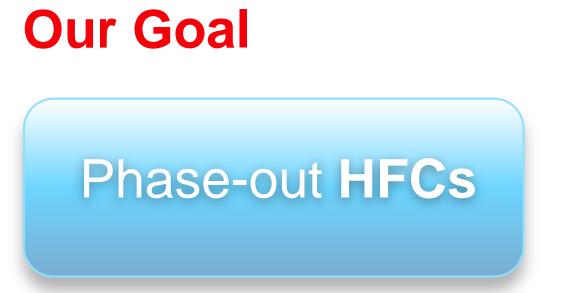




Refrigerants, Naturally! activities to aid global transition natural refrigerants:

- Sharing experiences
- Research & development of alternatives
- Communicating the business case

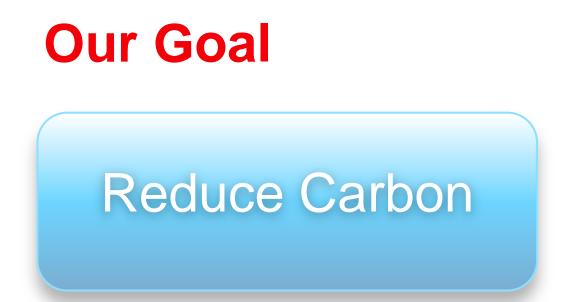




In November 2009 The Coca-Cola Company set an ambitious global goal to phase-out the use of HFCs in all new cold drink equipment as of 2015







Reduce CO2 emissions embedded in 'the drink in your hand' by 25%





Progress





Availability





Our Progress

There are currently 162 CO2 certified models available. As more coolers are being built, the technology is getting better and better. Interest in CO₂ models is on the rise, with more customers making the switch every day.

HFC - Free Placements by Operating Group



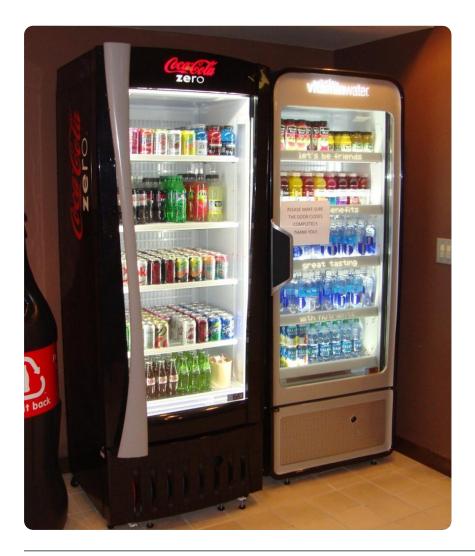




- Transcritical R744 is inefficient.
- Transcritical R744 cannot be used in high temperature ambients.
- Transcritical R744 is too noisy.



Challenges



- Component availability
- Expertise
- Service



To Drive Success

- Supply chain development
- Regulatory standards that facilitate F-gas alternatives
- Technology improvement greater efficiencies



AMERICA ATAO business case

natural refrigerants

June 18-19, 2014 - San Francisco

Thank you very much!