

# Transition to HFC-free refrigeration

ATMOsphere America 2014  
San Francisco, CA  
June 19, 2014



# Clever Cooling vs. Global Warming

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

## MEMBERS



PEPSICO



## SUPPORTERS



Supported by UNEP and GREENPEACE





# Natural refrigerants

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

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



# Our Goal

## Phase-out HFCs

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**



# Our Goal

Reduce Carbon

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



# Progress

1.1 MM  
HFC-free units



# Availability



**162**  
CO2 Models Certified

# 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 CO<sub>2</sub> models is on the rise, with more customers making the switch every day.

## HFC - Free Placements by Operating Group





# Myths

- **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**



**ATMO**  
**sphere**

business case

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**natural refrigerants**

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Thank you very much!