



Harrison Horning
Delhaize America

Market Opportunities Session

Delhaize America Refrigerant Goals

- Reduce GHG emissions
 - Energy use
 - Refrigerant leaks
- Respect the CGF resolution
- Replace R22
- Reduce average GWP

Delhaize America Standards

- Aggressive leak management
 - Reduce ODS & GHG emissions
 - Save money
- R407A for new systems
 - Zero ODP
 - Lower GWP than R404A or R507
- Ammonia systems for DCs
- Pilot projects with natural refrigerants

Delhaize America Pilot Projects

- Transcritical (TC) CO₂ in new stores
 - Maximize heat reclaim (cold climates)
 - Test other energy features (all climates)
- Propane self-contained cases
 - Good efficiency, low maintenance
- Testing R407F for R22 replacement
 - Available now
- HFC charge reduction (high-side)
 - Glycol condensing/heat reclaim

Future Ideas

- Natural refrigerant systems for remodels
 - CO₂ transcritical
 - CO₂ cascade/hybrid systems
 - Self-contained:
 - Air-cooled
 - Water-cooled
- CO₂ or hybrid systems for DCs
- Open to more suggestions
 - Working on a 5-year plan...



ATMO
sphere

business case

natural refrigerants

25 & 26 June - Atlanta, Georgia

Thank you!