

Harrison Horning Delhaize America

Food Retail Panel



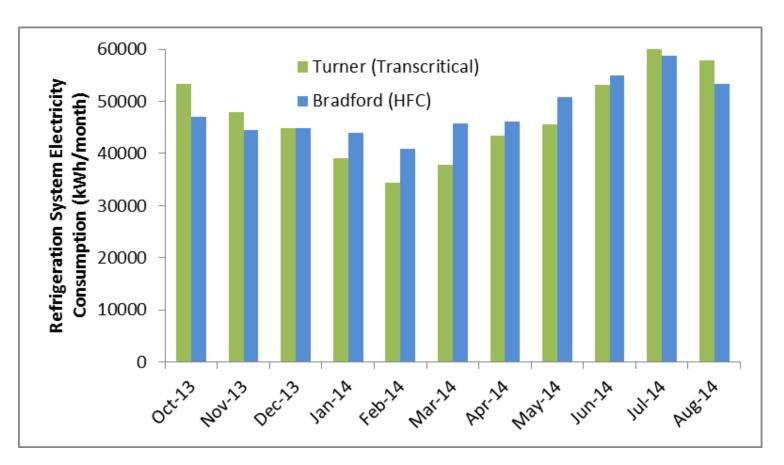
Delhaize America Experiences

- CO₂ hybrid pilots (DX, pumped)
 - Several Food Lion stores; ~2008 2010
- CO₂ TC pilots operating
 - Turner, ME; 35,000 gsf Hannaford store; Jul 2013
 - Energy analysis report published by DOE/BBA
- CO₂ TC pilots under construction
 - N. Berwick, ME; 20,000 gsf Hannaford; Aug 2015
 - Southport, NC; 35,000 gsf Food Lion store; Q4 2015
- R290 self-contained coffin cases
 - Testing at Hannaford





CO₂ Transcritical Energy Performance







CO₂ Transcritical Energy Performance

Overall Energy Use Index (EUI) comparison

Electricity and propane

12 months ending Apr 2015:

Turner (CO_2 TC) = 194 kBtu/sf/yr

Bradford (HFC) = 190 kBtu/sf/yr

We expect reasonably good energy performance on all CO₂ TC pilot projects.





R290 Self-Contained Coffin Cases

- R290 is expected to yield low energy costs
- "Plug-and-play" refrigeration modules ("cassettes") are expected to yield low maintenance costs
- Avoids some under-slab piping and utilities
- More flexibility for merchandising and remodels
- Piloting at Hannaford





25 & 26 June - Atlanta, Georgia

Thank you!