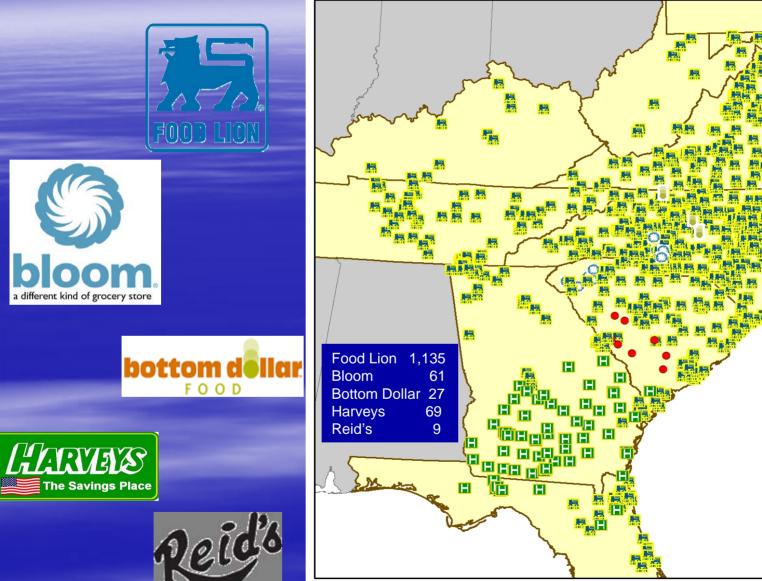
Partnering with the EPA

FOOD LION, LLC

Wayne Rosa



Food Lion, LLC





Reid's

Importance of Energy Management

- Grocery Stores Low Margin
- Hyper competitive grocery store environment
- Second largest operating cost for a store
 Grocery stores are twice as energy intensive as any other commercial/retail customer

U.S. EPA's ENERGY STAR

Energy Star Partner since 1998

Portfolio Manager

Benchmark Energy Performance (0-100)

Initial Score: Less than 80%

Food Lion's Energy Management Program

- GOALS:

- Reduce energy consumption

- Reduce energy costs

Design energy efficient stores

- Implementing new energy efficient technologies

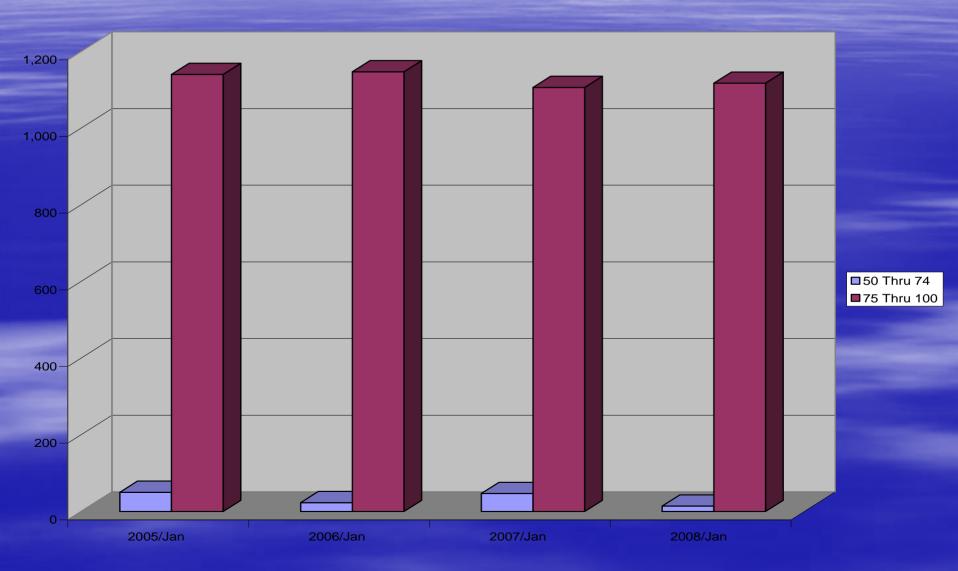
U.S. EPA's ENERGY STAR Tool

Food Lion's Average Store Scores

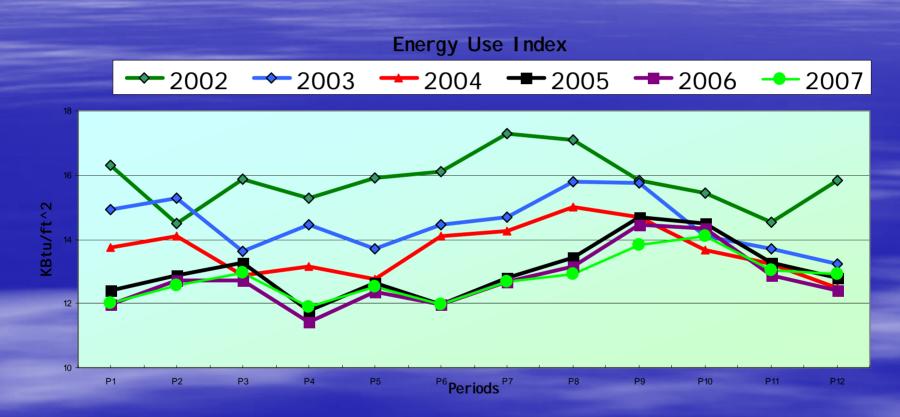
2004	81.3
2005	85.6
2006	87.0
2007	87.0
2008	90.0

 Leverage benchmarking for better business decisions for Prototypes

Food Lion Current Energy Star Scores



Food Lion Energy Use Index Trend



U.S. EPA's ENERGY STAR

Lead supermarket industry for "Energy Star" qualified stores – 724 stores

Performance goal for all new stores: New Store Average score for 2008 is 90

Supports our Corporate Energy Mission

How do we do it?

BENCHMARKING...is the key!

- EPA's Energy Star Portfolio Manager
- Third Party Benchmarking thru Bill Paying Service
- In-House Benchmarking through Sub-Metering

Value of Benchmarking

 History, Consistent Format, On-line, exceptions based reporting, trends, reporting capabilities, budgets and forecasts.

GreenChill

- Food Lion was one of the Founding Members
- Establish base year for refrigerant stock & emissions reporting
- Develop corporate Refrigerant Management Plan
- Commit to using non-ODP Refrigerants
- Advanced Refrigeration Systems
 - Glycol Secondary Loop (Dinwiddie, VA)
 - CO2 Secondary Loop (Montpelier, VA)
 - CO2 & Glycol Secondary Loop (Portsmouth, VA)

Pros:

- Over half refrigerant charge reductions (approx. 60% reduction)
- Primary refrigerant (R-507) side leak detection much easier and less time consuming
- Obvious environmental impacts
- Energy is comparable, electric defrost doesn't seem to impact utility bill
- Case lineups can be set with one inlet and outlet per circuit instead of per case.
- Copper tubing size reduction = substantial material savings and storage.
- No issues with oil or orifices in the cases.
- CO_2 is super efficient with as little as 5° TD in cases.
- Learning curve with new refrigerants (R-502, R-22, R-507, R-744)

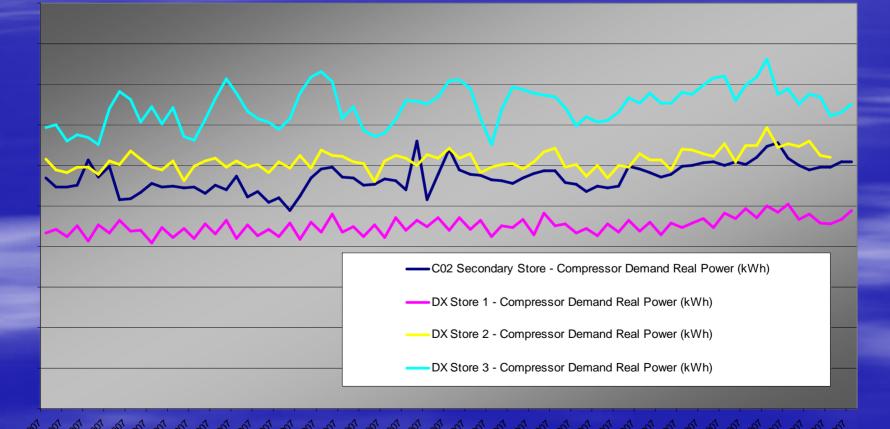
Lessons Learned:

- Industrial grade insulation expensive material and labor cost (next generation will utilize conventional DX insulation)
- Remote store location requires CO₂ to be stored in machine room
- CO₂ leak detectors have slower response time making it difficult to pinpoint leaks
- Could not implement defrost skipping strategy due to ice on evaporators during high load season
- Identified the need for a detailed start up guide
- A modified loop system was used in this store (next generation will use a full loop piping configuration)

Store Installation Cost:

The CO₂ secondary loop installation in this store was equivalent to the cost of a conventional DX installation.

Energy Comparison
 CO₂ Secondary Store vs DX Stores



Innovative Refrigeration Systems Medium Temp Glycol / Low Temp CO₂ Portsmouth, VA

- Opening Date April 16, 2008
 Over 60% reduction in refrigeration charge
 Competitive installation cost compared to traditional Dx System
- CO₂ charge cost less than \$400

Summary

Energy Star: First Benchmarking Tool

GreenChill:

Manage/Understand Refrigeration Compliance
 Advanced Refrigeration Systems

 Food Lion first Corporate Responsibility Report

EPA's programs "Sustain" performance