

**Fort Collins Utilities  
Biz Ed: Sector Success**



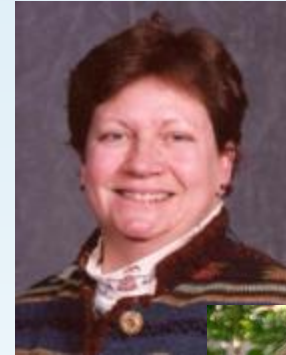
# **Biz Ed**

## **Sector Success for Retail Efficiency Best Practices**

November 6, 7:30-9:00 a.m.  
215 N Mason St., Community Room

# Met Your Utilities Rep

- **Rene' Evenson**  
Small and Mid-Size Commercial  
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- **Sharon Held**  
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# Today's Session

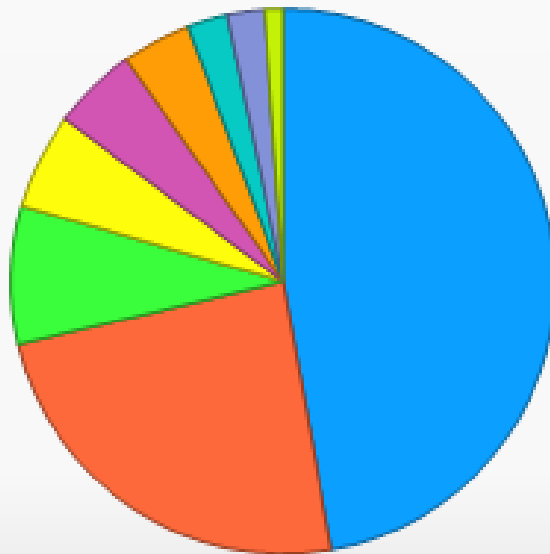
- Introduction video – Local retailer project
- Tidbits on Retail by Kelley Gonzales, Utilities
  - Fort Collins data
- Local retailer success story by Steven Hureau  
Manager, The Cupboard
- Group Discussion
  - Sharing and discovery of retail best practices
  - What do the experts say?
  - Programs to help

# Local Retailer Video

Wilbur's Total Beverage – case lighting project

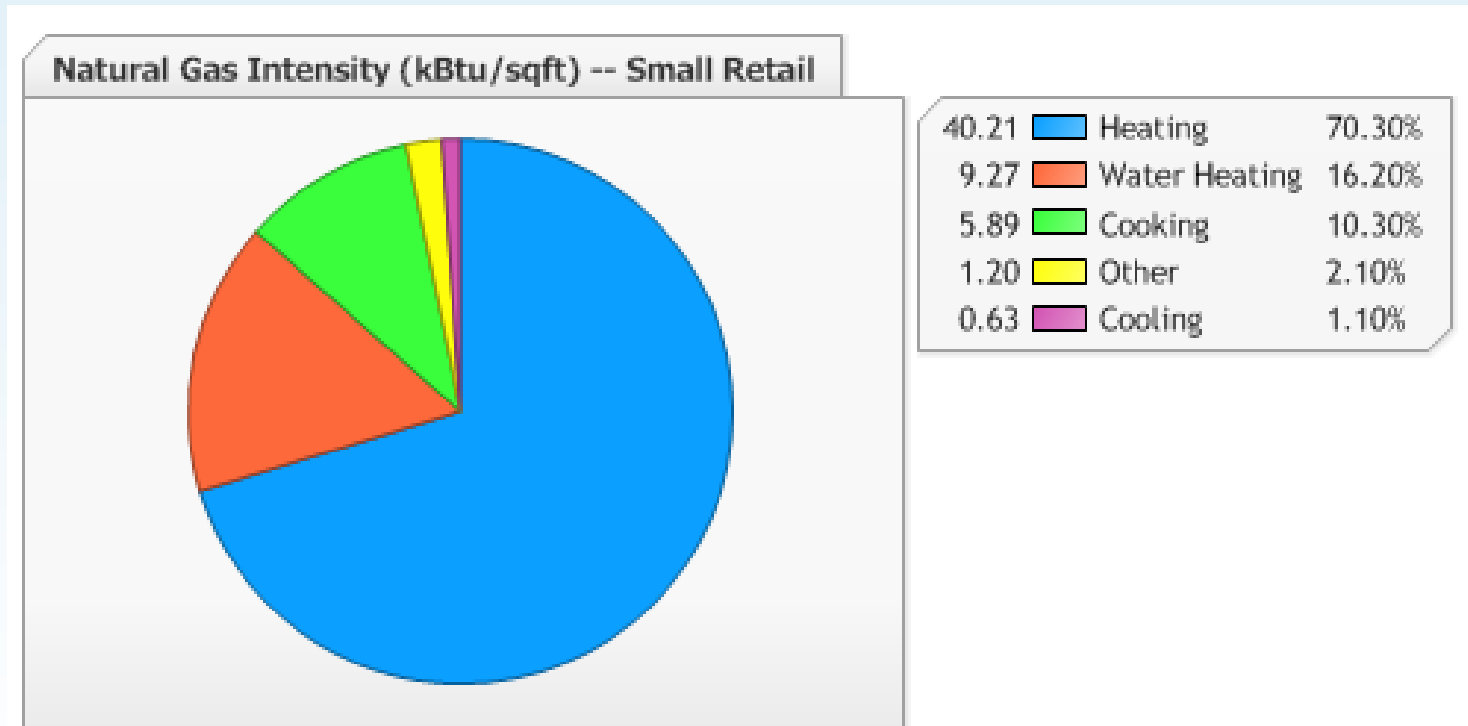
# Electric Energy by End Use

Electric Intensity (kWh/sqft) -- Small Retail



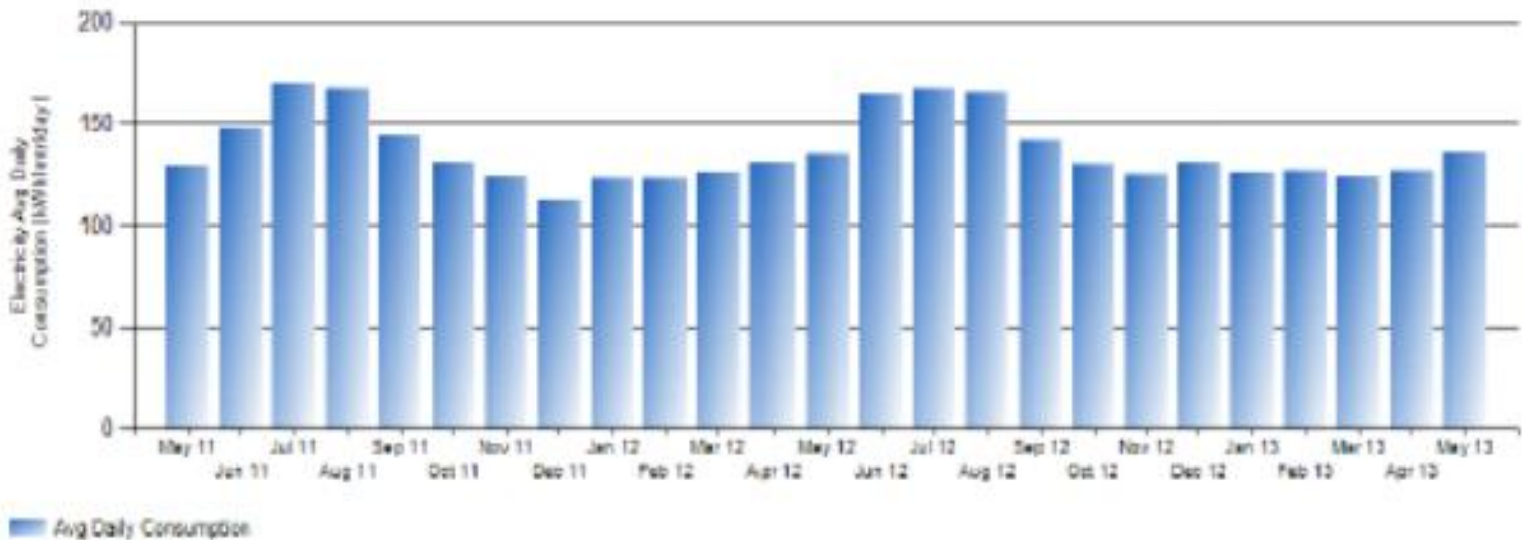
6.56	Lighting	47.20%
3.35	Cooling	24.10%
1.14	Heating	8.20%
0.79	Ventilation	5.70%
0.69	Refrigeration	5.00%
0.57	Other	4.10%
0.33	Office Equip.	2.40%
0.31	Water Heating	2.20%
0.15	Cooking	1.10%

# Gas Energy by End Use



# Fort Collins Small & Mid-Sized Retail

Average Daily Consumption



- Approximately 1000 meters (<50,000SF)
- Note the summer peaks for AC load





## Steve Hureau

Manager, The Cupboard

# How Are You Doing?

- Benchmarking
  - Energy Star Portfolio Manager
  - [www.EnergyStar.gov](http://www.EnergyStar.gov)
  - Input building sector/type
  - Input monthly utility data for gas, electricity, and water
  - Output is energy use intensity, comparison of like facilities in same climate zone, and individualized Energy Star Score

# Make a Plan

- Facility Assessments
  - Free Energy & Water or Climate Wise Partner
  - Report details opportunities
    - Cost estimate
    - Applicable rebates
    - Utility and cost savings
    - Simple pay back
  - Sign up at [fcgov.com/assessments](http://fcgov.com/assessments)

# Group Discussion

- What have you done?
- How much did you save?
- What worked?
- What challenges did you face?
- Advice to others?
- How did you engage employees?
- Did you promote to your customers? Why or why not?
- What are your next steps?

# What Do The Experts Say

- Energy Star - No Cost Options
  - Benchmark your energy usage
  - Set thermostat to Energy Star Guidelines
  - Set thermostat to reflect operating hours
  - Turn lights off when unoccupied
  - Manage heat and day lighting with window coverings
  - Disconnect unused or unnecessary equipment

# What Do The Experts Say

- Energy Star – Low Cost Options
  - Install lighting occupancy controls
  - Install/set programmable thermostat
  - Convert to energy efficient lighting
    - T8s, CFLs, LEDs
  - Install low flow faucet aerators and toilets
  - Install window awnings, shades or films
  - Purchase Energy Star office equipment

# Programs to Help

- Free Benchmarking & Assessments
  - [www.EnergyStar.Gov](http://www.EnergyStar.Gov) – Portfolio Manager
  - [www.FCGov.com/assessments](http://www.FCGov.com/assessments) - Sign up
- Xcel Energy – Gas efficiency rebates
- Fort Collins Utilities
  - Climate Wise Partnership
  - Electric Efficiency Rebates
  - Water Efficiency Rebates

# Water Rebates

- **Toilets & Urinals**
  - \$50 - \$100 each (depends on type)
- **Free low flow aerators**
- **Clothes Washers & Dishwashers**
  - Commercial or residential style
  - \$50 - \$250 each (depends on type)
- **Irrigation equipment (varies)**
  - Rain sensors
  - Controllers
  - Heads/nozzles/pressure reducers



# Electric Rebates

- **Lighting**
  - Average simple payback < 2 years
  - Based on wattage reduction
  - \$0.30 - \$0.65 per watt reduced
  - Fluorescents, induction, LED
- **Lighting controls**
  - Outside photocells
  - Occupancy and timers
  - Vending occupancy

# Electric Rebates

- **Building Tune-up**
  - Retro-commissioning
  - Target only measures < 2 year SPB
  - Operational/setpoints
    - Programmable T-stats
    - Outside air settings
    - Economizers and economizer control
    - Timers
    - Domestic hot water temp settings
    - And more...

# Electric Rebates

- **Cooling/ventilation**
  - New units \$100 - \$150 per ton (+ incremental)
  - Economizers
  - Advanced controls for 2014
    - Demand control ventilation
    - Integrated economizer
  - Custom evaporative pre-cooling/cooling
- **Windows, Insulation, Roofs**
  - Energy Star Cool Roofs - \$0.09/SF
  - Insulation for roofs - \$0.16/SF
  - Windows - \$1.50/SF glass
  - Window film - \$1.00/SF glass

# Electric Rebates

- **Office Equipment (\$5-\$250 per unit)**
  - Energy Star Computers
  - Virtual Desktops (thin client)
  - Server virtualization
  - Task lighting (lamps & under cabinet)
  - Smart strips (with and without motion)
- **Refrigerator/Freezer Recycling**
  - Residential grade only
  - \$35 - doubled to \$70 until December 31

# Upcoming Biz Ed programs

*[fcgov.com/biz-ed](http://fcgov.com/biz-ed)*

- Sector Success: Efficiency Best Practices
  - Restaurants – November 13
  - Small Healthcare & Daycare – November 20
- Implementing a Sustainability Program – Dec 18