Saving Energy in The Food Service Industry

September 13, 2016
Webinar Sponsors

PACIFIC POWER

ROCKY MOUNTAIN POWER

QUESTAR Gas

With special thanks to

ENERGY STAR
Agenda

- Introductions
- Energy savings in food service
  - Cooking equipment
  - HVAC
  - Lighting
- Utility incentives & process
- Q&A
Introduction

- Restaurants use 5 to 7 times more energy per square foot than other commercial buildings.
- There’s a lot of room to reduce operating costs and improve your profit.
- Would you like to lower your utility costs by upgrading your equipment but you don’t know where to start?
- The wattsmart Business and ThermWise Business programs help reduce operating costs.
Introduction

- Kellen Camp, Nexant, Inc.
  - Rocky Mountain Power
  - Pacific Power
  - Questar Gas

- Daniel Cronin, ENERGY STAR
  - Lighting
  - HVAC

- Kirsten Hesla, ENERGY STAR
  - Food Service Equipment
Incentive Opportunities

- Lighting & LED Signs
  - LED Instant Incentives

- Occupancy Controls

- HVAC

- Food Service Equipment
  - Free Pre-Rinse Spray Valve Installation for Questar GS customers
ENERGY STAR Program
ENERGY STAR Program Overview

- ENERGY STAR is a voluntary partnership among government, business and consumers to save money and protect our climate through superior energy efficiency.

- Products that have earned the ENERGY STAR meet strict energy-efficiency guidelines set by EPA.

- Influential and trusted brand recognized by over 85 percent of Americans.

- Available across 70+ product categories.

- The simple choice for energy efficiency!
Why ENERGY STAR Matters

- ENERGY STAR certified equipment saves end-users energy, water, and money.
- Energy efficiency is becoming extremely important in foodservice environments.
  - Boosts end-users long-term bottom line
  - Demonstrates commitment to environment
  - Guards against rising energy rates
- ENERGY STAR certified equipment has a lower total cost of ownership over time
ENERGY STAR CFS Product Categories

- Refrigerators and Freezers
- Hot Food Holding Cabinets
- Dishwashers
- Griddles
- Fryers
- Steam Cookers
- Ice Makers
- Ovens
- Coffee Brewers
ENERGY STAR Certified CFS Equipment Savings

<table>
<thead>
<tr>
<th>Product Category</th>
<th>Griddles</th>
<th>Steam Cookers</th>
<th>Ice Makers</th>
<th>Fryers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy Savings</td>
<td>10% more efficient than standard models</td>
<td>60% more energy efficient and 90% more water efficient than standard models</td>
<td>12% more energy efficient and 15% more water efficient than standard models</td>
<td>30% (standard size) or 35% (large vat) more efficient than standard models</td>
</tr>
</tbody>
</table>
| Incentives Available | PP / RMP - $150  
CNG - $350  
QGC - $300 | PP / RMP - $130 or $300  
CNG - $850 – $1200  
QGC - $1000 | PP / RMP - $125 – $400 | PP / RMP - $200 – $300  
CNG - $600  
QGC - $500 / vat |
| Dollar Savings over Product Lifetime | $1,365 (electric) and $1,155 (gas) | $12,000 (electric & gas) | $925 (batch) and $1,375 (continuous) | $1,225 (electric standard) or $4,910 (gas standard)  
$1,920 (electric large vat) or $5,560 (gas large vat) |

PP – Pacific Power  
RMP – Rocky Mountain Power  
CNG – Cascade Natural Gas  
QGC – Questar Gas Company
ENERGY STAR Certified CFS Equipment Savings

<table>
<thead>
<tr>
<th>Product Category</th>
<th>Refrigerators &amp; Freezers</th>
<th>Hot Food Holding Cabinets</th>
<th>Dishwashers</th>
<th>Ovens</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy Savings</td>
<td>40% more efficient than standard models</td>
<td>70% more efficient than standard models</td>
<td>40% more energy efficient than standard models</td>
<td>15% (convection) or 30% (combination) more efficient than standard models</td>
</tr>
<tr>
<td>Dollar Savings over Product Lifetime</td>
<td>$945 - $1,120 (refrigerators) or $2,170 - $4,520 (freezers)</td>
<td>$3,200</td>
<td>$75,000 (flight type) or $18,000 (other eligible dishwashers)</td>
<td>Combination PP / RMP - $275 – $1000, QGC - $1000</td>
</tr>
</tbody>
</table>

PP – Pacific Power  
RMP – Rocky Mountain Power  
CNG – Cascade Natural Gas  
QGC – Questar Gas Company
ENERGY STAR Commercial Coffee Brewers Version 1.0 Specification

- Released on July 8, 2016
- Products available for certification immediately
- Scope:
  - Type II (Batch) Commercial Coffee Brewers (>24 oz.-384 oz.)
- Certification Requirements:
  - Normalized Ready-to-Brew Idle Energy Rate ≤ 65 watts/gal
  - Normalized Heavy-Use Brew Energy Rate ≤ 280 watts/gal
ENERGY STAR Product Finder

- Allows consumers to filter based on product type, features, and technology
- Compare product feature for up to four items
- View, filter, export and more with the advanced view
ENERGY STAR Rebate Finder

- Easily accessible, user-friendly search tool to find ENERGY STAR rebates
- Search for ENERGY STAR rebates by entering your zip code and/or selecting the product category
- Learn more at: [www.energystar.gov/rebate-finder](http://www.energystar.gov/rebate-finder)
ENERGY STAR Tools & Resources

• Materials to utilize:
  – Nine product Specific Sell Sheets
  – Equipment Overview
  – Guide for Cafés, Restaurants, and Institutional Kitchens
  – Dealer & Distributor Toolkit - new

• Ways to Engage:
  – Sign up for the ENERGY STAR CFS Newsletter
  – Work with the CFS Team to develop a case study
  – Share your best practices for program designs

• Resources:
  – CFS website: www.energystar.gov/CFS
  – ENERGY STAR Rebate Finder: www.energystar.gov/rebatedealerfinder
  – ENERGY STAR Product Finder: www.energystar.gov/productfinder
  – ENERGY STAR Specifications: www.energystar.gov/specifications

Questions?
Contact: CommercialFoodService@energystar.gov
ENERGY STAR Small Business Benchmarking & Portfolio Manager
Restaurants

- Restaurants use about five to seven times more energy per square foot than other commercial buildings.
- Restaurants generally use the most electricity for refrigeration, followed by lighting, then cooling.
More specific business types

- The ENERGY STAR Action Workbook Appendices contain detailed information for the following business types at www.energystar.gov/smallbiz
  - Automobile Dealerships
  - Grocery and Convenience Stores
  - Lodging
  - Offices (for owners and tenants)
  - Home-based businesses
  - Restaurants
  - Small and Medium Manufacturers
What is Portfolio Manager?

• The EPA’s ENERGY STAR Portfolio Manager is a tool that will help you:
  – Assess your property’s energy, water and waste consumption
  – Track changes in energy, water, waste, greenhouse gas emissions, and cost over time
  – Track green power purchase
  – Share/report data with others
  – Create custom reports
  – Potentially apply for ENERGY STAR certification

• Metric Calculator – Provides key performance metrics to integrate into a strategic management plan
  – Energy consumption (source, site, weather-normalized)
  – Water consumption (indoor, outdoor)
  – Greenhouse gas emissions (indirect, direct, total, avoided)
  – ENERGY STAR 1-to-100 score (available for many building types)
Starting out in Portfolio Manager

FIND THE FACT SHEETS:

- Data Collection Worksheet
- QuickStart
- Utility Data
- Standard Reports
- Custom Reports
- Share Data
- Campus benchmarking
- How to Apply for Certification
- Statement of Energy Performance
- And more…

www.energystar.gov/buildings/tools-and-resources
ENERGY STAR Light Commercial HVAC
What Light Commercial HVAC (LCHVAC) Products are Covered by ENERGY STAR?

Single Package Heat Pumps/Air-Conditioners

Split System Heat Pumps/Air-Conditioners
Incentives are available for many other types of HVAC equipment from wattsmart Business and ThermWise Business.

Find a wattsmart Business Vendor to help you find qualifying equipment.
Did you know?

ENERGY STAR certified commercial HVAC products can save your business approximately $1.70 per square foot over the life of the equipment.

A 12,000 square foot building using an ENERGY STAR certified HVAC product could save more than $21,000 over its lifetime and prevent more than 40,000 pounds of greenhouse gas emissions.

ENERGY STAR certified light commercial HVAC equipment uses 7–10% less energy than standard equipment.
Incentives are available for many other types of HVAC equipment from wattsmart Business and ThermWise Business.

Find a wattsmart Business Vendor to help you find qualifying equipment.
ENERGY STAR Lighting
ENERGY STAR Certified LED Light Bulbs

ENERGY STAR certified LED light bulbs are more affordable than ever.

- LED instant incentives for ENERGY STAR certified LED bulbs are available from approved distributors reducing their cost.
- A single LED bulb that has earned the ENERGY STAR can save $5 in electricity costs annually and it can pay for itself in less than a year.

<table>
<thead>
<tr>
<th>9W ENERGY STAR qualified LED bulb</th>
<th>60W Incandescent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brightness: 800 lumens</td>
<td>Brightness: 800 lumens</td>
</tr>
<tr>
<td>Estimated Energy Cost: $1.08 per year</td>
<td>Estimated Energy Cost: $7.32 per year</td>
</tr>
</tbody>
</table>
ENERGY STAR Certified LED Light Bulb = Quality + Performance

ENERGY STAR Qualified LED Lighting:

1. **Reduces energy costs** — uses at least 75% less energy than incandescent lighting, saving on operating expenses.

2. **Reduces maintenance costs** — lasts 35 to 50 times longer than incandescent lighting and about 2 to 5 times longer than fluorescent lighting. No bulb-replacements, no ladders, no ongoing disposal program.

3. **Reduces cooling costs** — LEDs produce very little heat.

4. **Is guaranteed** — comes with a minimum three-year warranty — far beyond the industry standard.

5. **Rigorous testing.** ENERGY STAR certified LED light bulbs are tested and evaluated against more than 20 attributes to deliver on quality performance and consumer expectations.

6. **Offers convenient features** — available with dimming on some indoor models and automatic daylight shut-off and motion sensors on some outdoor models.

7. **Durability** — won’t break like a bulb.
ENERGY STAR Certified LED Light Fixtures for Commercial Spaces

Maximize your profit margins by utilizing ENERGY STAR certified fixtures:

- **Integrated LED Downlights**
- **Shelf-mounted display and task lights**
- **Portable desk lamps**

- Find a participating wattsmart Business Vendor to help with your lighting upgrade.
- Contact us prior to beginning your lighting upgrade, as pre-purchase approval is required for lighting retrofit projects except in California.
ENERGY STAR Product Finder

- Allows consumers to filter based on product type, features, and technology
- Compare product feature for up to four items
- View, filter, export and more with the advanced view
ENERGY STAR Rebate Finder

- Easily accessible, user-friendly search tool to find ENERGY STAR rebates
- Search for ENERGY STAR rebates by entering your zip code and/or selecting the product category
- Learn more at: [www.energystar.gov/rebate-finder](http://www.energystar.gov/rebate-finder)
Utility Incentives

- Pacific Power
- Rocky Mountain Power
- Questar Gas Company
- Cascade Natural Gas Company
wattsmart Business

Provides Pacific Power and Rocky Mountain Power customers technical expertise and cash incentives to improve the energy efficiency of your business.

Incentives include:
- Lighting and controls
- HVAC improvements
- Food service equipment
- And more

How to get started:
- Pacific Power
  - bewattsmart.com
  - 1-800-222-4335
- Rocky Mountain Power
  - wattsmart.com
  - 1-800-222-4335
Rewards Questar Gas customers for purchasing energy-efficient equipment to reduce the energy use in your business.

Rebates include:
- HVAC
- Water Heaters and boilers
- Smart Thermostats
- Food Service Equipment
- And more

How to get started:
- ThermWise.com
- 1-855-499-8442
Cascade Natural Gas - Washington

Commercial & Industrial Program: For new construction or retrofit projects in the Cascade Washington service area that reduce the consumption of natural gas. Cascade has prescriptive incentives available for space and water heating, gas cooking equipment, laundry equipment, and retrofit insulation of gas heated facilities. In addition, a custom incentive program for any other projects that save natural gas.

Rebates include:

- Space Heating Equipment
- Water Heating Equipment
- Cooking Equipment
- Laundry Equipment
- Dishwashing equipment
- Building Insulation (retrofit only)
- Custom application

How to get started:

- [www.cngconserve.com](http://www.cngconserve.com)
- 1-866-450-0005
# Who Qualifies?

<table>
<thead>
<tr>
<th>Utility</th>
<th>State</th>
<th>Rate Schedules</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>WA</td>
<td>All Business Customers (24, 33, 36, 40, 47T, 48T, 53 and 54)</td>
</tr>
<tr>
<td>Cascade Gas</td>
<td>WA</td>
<td>504, 505, 511, 570 or 577 and mixed purpose facilities that includes both Residential Rate Schedule 503 and one of the above schedules.</td>
</tr>
<tr>
<td>Rocky Mountain Power</td>
<td>ID</td>
<td>6, 6A, 7, 7A, 9, 10, 12, 19, 23, 23A, 24, 35 and 35A</td>
</tr>
<tr>
<td></td>
<td>UT</td>
<td>6, 6A, 6B, 8, 9, 9A, 10, 12, 15, 21, 23 and 31</td>
</tr>
<tr>
<td></td>
<td>WY</td>
<td>25, 28, 33, 40, 46, 48T, 54, 58, 210, 212 and 213</td>
</tr>
<tr>
<td>Questar Gas</td>
<td>UT</td>
<td>GS rate schedule</td>
</tr>
</tbody>
</table>
Applying for Incentives & Rebates

- Contact us and we will walk you through the process.
- Pre-Approval required
  - Lighting projects (Except in California)
  - Not-typical projects
ThermWise - Free Pre-Rinse Spray Valve

ThermWise Business offers free pre-rinse spray valves. Call to schedule your installation today.
– 1-800-867-2044
## Contact Info

<table>
<thead>
<tr>
<th>Utility</th>
<th>Website</th>
<th>Email</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pacific Power</td>
<td>bewattsmart.com</td>
<td><a href="mailto:wattsmartbusiness@pacificpower.net">wattsmartbusiness@pacificpower.net</a></td>
<td>1-800-222-4335</td>
</tr>
<tr>
<td>Cascade Natural Gas</td>
<td>cngconserve.com</td>
<td><a href="mailto:conserve@cngc.com">conserve@cngc.com</a></td>
<td>1-866-450-0005</td>
</tr>
<tr>
<td>Rocky Mountain Power</td>
<td>wattsmart.com</td>
<td><a href="mailto:wattsmartbusiness@rockymountainpower.net">wattsmartbusiness@rockymountainpower.net</a></td>
<td>1-800-222-4335</td>
</tr>
<tr>
<td>Questar Gas</td>
<td>thermwise.com</td>
<td><a href="mailto:business@ThermWise.com">business@ThermWise.com</a></td>
<td>1-855-499-8442</td>
</tr>
</tbody>
</table>

## ENERGY STAR Contact Info

**Dan Cronin, LCHVAC or Lighting**  
[Cronin.Daniel@epa.gov](mailto:Cronin.Daniel@epa.gov) or [lighting@energystar.gov](mailto:lighting@energystar.gov)

**Kirsten Hesla, Commercial Food Service:**  
[Hesla.Kirsten@epa.gov](mailto:Hesla.Kirsten@epa.gov) or [CommercialFoodService@energystar.gov](mailto:CommercialFoodService@energystar.gov)

**Jerry Lawson, Small Business/Portfolio Manager**  
[Lawson.Jerry@epa.gov](mailto:Lawson.Jerry@epa.gov)

**Kellen Camp, Customer Outreach**  
– wattsmart Business  
– ThermWise Business  
Phone: 801-639-5617  
Email: [kcamp@nexant.com](mailto:kcamp@nexant.com)
Questions

Brief survey to follow.