

What is ESC?

The Energy Solutions Center is a technology commercialization & market development organization of 54 North American gas utilities and 60 equipment manufacturers that work together to bring improved, energy efficient natural gas solutions to residential, commercial, and industrial energy users





The Value of ESC

ESC *leverages* the limited amount of funds, personnel and resources that utilities can dedicate to marketing, sales, and customer outreach and communication









ESC Goals

- •Equip utility marketing and customer support staff with the knowledge, skills, and abilities to be more successful in delivering energy efficient gas solutions to customers
- •Identify and promote new gas solutions that increase competitiveness, productivity, and reliability of our member's customers
- •Develop more effective partnerships between utilities, equipment manufacturers, architects and engineers, and oustomers center





Where ESC Fits In

- Gas Technology Institute research and development; product development;
- American Gas Association lobbying and policy; operations and engineering; communications and public relations
- Energy Solutions Center market development; technology deployment; education and training of utility reps and customers; marketing and sales materials
- Regional Gas Association regional policy issues, codes and standards, annual marketing meeting, operations; education and training

Energy Solutions Center





Primary Features of ESC

- Technology & Market Assessment Forums
- Resources & Tools
- Consortia







Technology and Market Assessment Forum (TMAF)

- Premier education & training venue
- Unique 2.5 day event 3/year
- Free to all members
- 300 gas marketing & sales professionals
- Professional networking opportunities with colleagues from 50 local distribution companies and dozens of equipment manufacturers









Technology and Market Assessment Forum (TMAF)

- Robust Focus
 - New Gas Solutions
 - Strategic Marketing & Sales
 - Conservation & Efficiency
 - Specialty Tracks (Foodservice / NGV)
 - Gas Equipment Exhibits





Future TMAFs

October 23-25, 2013, Philadelphia, PA

February 11-13, 2014 Atlanta, GA

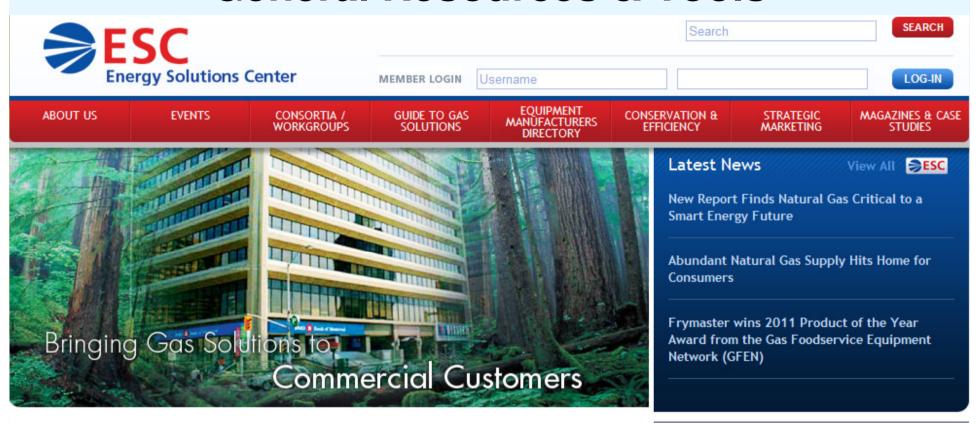
June 2014, Kansas City, KS

October 2014, Los Angeles, CA

Past TMAF Presentations are posted on the ESC web site



General Resources & Tools

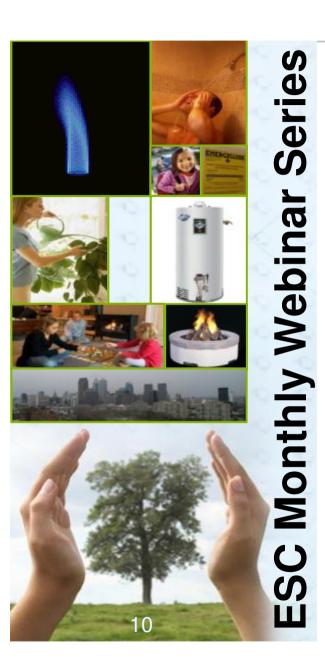


Welcome

Energy Solutions Center, Inc. (ESC) is a non-profit organization of energy utilities and equipment

The Energy Industry – How are We Doing?

An interview with Joe Rende





2013
Webinar Series



The Energy Solutions Center, in conjunction with The American Gas Association hosts a series of end-use application webinars designed for utility marketing and sales representatives. Topics include:

Date	Time	
January 1 ¹¹	2:00 p.m. EST	Commercial & Industrial Heating
February 7th	2:00 p.m. EST	Engine Driven Gas Cooling
March 7th	2:00 p.m. EST	Homebuilder Decision-making Process – Study Results
April 4th	2:00 p.m. EDT	Catalytic Heating
May 2 nd	2:00 p.m. EDT	Residential and Commercial Water Heating
June 6th	2:00 p.m. EDT	Multi-Family Best Practices
July 11 th	2:00 p.m. EDT	New CHP Strategies
August 1 st	2:00 p.m. EDT	CNG Forklifts
September 5th	2:00 p.m. EDT	Condensing Economizers for Boiler Systems
October 3 rd	2:00 p.m. EDT	Industrial Niche Markets
November 7th	2:00 p.m. EDT	Thermal Cameras: Minimizing Energy Loss
December 5th	2:00 p.m. EST	Low NOx Options

ESC conducts
workshops
for utility staff
or their customers
in their service
territories

Workshops and Webinars

A program designed for



Food Service Facilities





Architects & Engineers

Workshop at a Glance: 9:30 am Opening Remarks 9:45 am Heating, Efficiency and Other Technologies for Commercial Buildings 10:45 am Break 11:00 am Understanding Life Cycle Costs 11:30 am Understanding Carbon Footprints 12:00 pm Lunch provided

12:45 pm LEED Certification – USGBC 1:30 pm Break 1:45 pm MGE Processes and Contacts

2:15 pm Q&A 2:30 pm Adjourn

To register for this exciting program:

Registration is Required by Monday November 16th

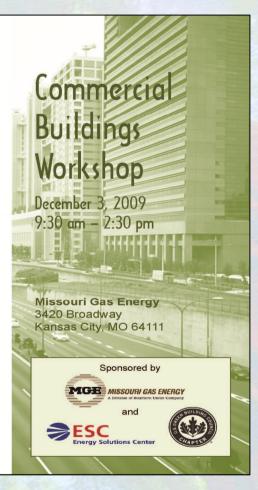
Please RSVP to Amy Reardon Phone: (816) 360-5586 Email: amy.reardon@sug.com

Professional Development Hours Available

Attendees will earn 4 Professional Development Hours (PDH) for this program.



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Builder/Realtor Kits

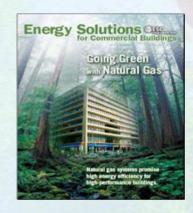


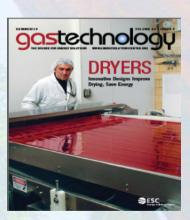




Customer Magazines















Consortia

- Critical mass of utilities pursuing customer niche more aggressively
- Investment Prospectus outlines goals, deliverables, and costs
- Member utilities join based on corporate and departmental sales/marketing goals
- Only join and pay for those consortia that interest you
- Leveraging resources to give members the skills, tools, abilities to pursue niche markets





Typical Consortium Deliverables

- Sales Training Modules
- Sales & Marketing Materials / Templates
- Electronic Tools
- Technology Demonstrations
- Market Research Studies
- Trade Show Exhibits
- Electronic Newsletters or Magazines
- Prepared Powerpoint Presentations for Customers

Energy Solutions Center





ESC Consortia

- Builder Liaison
- Commercial Buildings
- CHP
- Gas Air Conditioning
- Gas Foodservice Equipment Network
- Industrial Energy Efficiency
- Multifamily
- National Accounts
- Oil Conversions
- Recidential





Commercial Buildings Consortium

- Customizable marketing literature
- Electronic tools and information
- Utility rep training









Commercial Buildings Consortium Marketing Handouts

- ·Healthcare
- •K-12 Schools
- Universities
- Lodging
- Office Building
- ·Retail
- Food Service
- Elderly Care
- Multi-Family
- Niche Markets
 - Churches
 - ·Laundries
 - Fitness Centers
 - Public Assembly



(Over 600 pages in total)

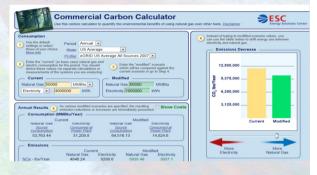
Customizable





Commercial Buildings Consortium Tools to Expedite Customer **Decision-making**

- Booster Water Heater Calculator
- Water heater Payback Tool
- Oil vs. Gas Emissions Calc.
- CO₂ Calculator
- Micro-CHP



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6.00

6.00

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\$450,000,00

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Commercial Buildings Consortium PowerPoint Presentations for Customers and A&E's

- Heating
- Water heating
- Gas Air Conditioning
- Cogeneration
- Humidity Control
- Be





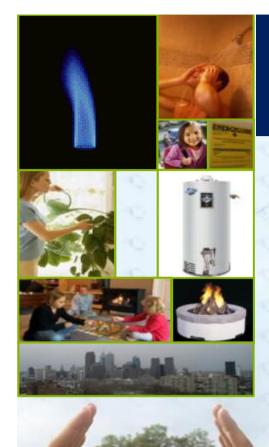


Commercial Buildings Consortium Sales Rep Training

Presentations to train new commercial sales reps in the markets, equipment, and business solutions

Colleges & Universities	Multi-Family	CHP	Water Heating
Elderly care	Retail	Foodservice Technologies	LEED & Green Globes
Healthcare	Office Buildings	Gas Cooling	Energy 101
Foodservice Facilities	Schools K-12	Heating	Financial
Lodging	Boilers	Humidity Control	Benefits of Gas Use





Multifamily Consortium

- Focus on issues & challenges to bringing natural gas to apartments and high rises
- Tools & Resources
 - Customizable Vertical Subdivision Design Guide
 - Appliance cost study for various multi-

fami







CHP Consortium

The objective is to accelerate the acceptance of onsite power generation for all markets and sizes of equipment.



www.understandingchp.com





CHP Consortium

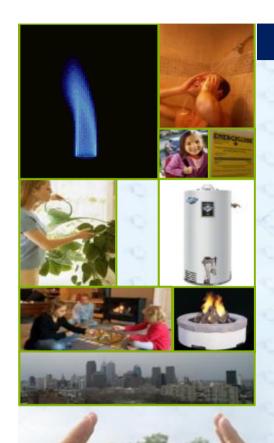
Videos

- What is CHP
- Benefits of CHP
- Using the Waste Heat of CHP
- Engine Driven CHP
- Turbine Driven CHP
- Microturbine CHP





- Video Case Studies
 - Reading Housing Authority ESC
 - University Square Apartmentsnergy Solutions Center



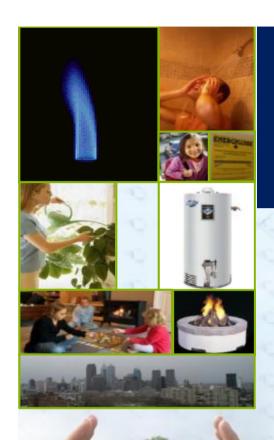


Special initiative to accelerate deployment of Micro CHP technologies



- Market and Technology Presentation
- Payback Calculator
- Micro-CHP Guide





Gas Foodservice Equipment Network Consortium

GFEN's mission is to help increase the use of natural gas in the commercial and institutional foodservice markets by serving as the preferred resource for information, education, testing and



www.gfen.com



Gas Foodservice Equipment Network

Case Studies / Newsletters

Denny's Beer Barrel Pub



Equipment Conversion Yields 123-Pound Cheeseburger...

Equipment Line

■ 1 - no burner

range 1 – two burner

7 - fryers
 2 - charbrollers

What is Electric Demand? Fees levied by the

Focs tended by the electric utility for the privilege of herving ample electricity available to operate all of your lights, refrigerators. HVAC, cooking appliances and

other equipment simultaneously "ON DEMAND". These fees are in addition to the

electricity that each pace of equipment uses while operating.

cooktop

1-00

 T – griddle 1 − pizza sven.

Denny's Beer Barrel Pub is now 188% gas cooking. When Denny Legey decided to expand his operation he reasoned that one energy source for cooking was the "order of the day", so he called PPL Gas Utilities for advice and expertise. Lou Studies, PPL's Energy Sales Representative took the call and met with Denny to discuss his future plans.

Prior to the litchen renovation his cooking process was all electric. But with the need to purchase additional equipment, it just made sense to go ALL GAS due to the superior performance and economics that only gas appliances can provide. And the energy saved will amount to a nice tidy sum over the equipment life cycle. Denny's original lutchen was staffed with only faur pieces of equipment but now, through this renovation project, has expanded to full-line with faurteen appliances that feature natural gas technology!

By eliminating the two 22kw electric fiyers from the cooking battery, Derny's is expected to save ready \$200/nonth in demand charges alone (44kw x current PEC demand rate of \$4.396W = \$192.72). Couple that with additional electric \$4.390V = \$192.72). Couple that with additional electric savings of around \$3500 annually (444v x current PEC electric rate of \$0.11/kmh = \$4.64/hour x 2 hrs/day = \$6.66/day : 365 days = \$3484.60) and the savings quickly becomes enough to pay for a couple of the new gas tryers. But since the gas isn't free, we can factor in that cost at roughly \$2071 annually (two tryers at 118,600ots/shour each = 2.2 thermshour × 2 hours/day = 4.4 therms/day × 368 days = 1594 therms/year x current PPL Gas rate of \$1.309/therm =

Cooking Up Greener Solutions

4th Quarter 2009

a quarterly newsletter from the Gas Foodservice Equipment Network

In this issue ...

- Stretching Your Energy Dollars
- **Energy Providers Provide Help**
- Appliances for Todays Kitchens
- **Automatic Standby Power**
- Going Green in the Workplace

Welcome to the inaugural launch of the Gas Foodservice Equipment Network (GFEN) quarterly newsletter. You will find informative information relavent to foodservice professionals offering the latest tips, tricks and technologies available in the marketplace today.

We hope you enjoy this newsletter and will forward it to others within your organization. For more information on efficient natural gas technology for foodservice facilities be sure to visit our website at www.GFEN.com-

Sincerely.

The GFEN Consortium Energy Solutions Center Inc.

McDonald's S-t-r-e-t-c-h-e-s Energy \$\$\$\$

Tips from the experts

Restaurants continually research better and more cost-effective ways to operate their restaurants. maximize profit margins and at the same time. become better environmental stewards. In a recent conversation with Steve DePalo, USA Energy Manager for McDonald's Corporation, we discussed some of the simple, low-cost or no-cost best practices McDonald's has adopted that other foodservice operators could easily adopt. more ...

Todays Energy Superstars

Fryers, Steam Cookers, Griddles and Convection Ovens

Going Green - How Utilities Help Real world examples

sustainability movement is building momentum in the fondservice industry. Natural gas utilities are going the extra mile to help operators go green by providing equipment evaluation centers, educational programs and, in some states, offering incentive programs. Learn how partnerships were developed between some GFEN utility

The greening and

members and their customers, more ... National Accounts Consortium is

Energy Providers offer help to foodservice

The Energy Solutions Center (ESC) has formed a







Gas Foodservice Equipment Network GFEN Customer Care Workshop Last workshop, July 26 & 27, San Diego



Comprehensive 2 Day Foodservice Workshop







Oil Conversion Consortium

Turnkey strategies and materials to accelerate customer conversion from oil or propane to natural gas









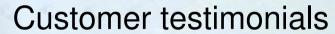
Oil Conversions Videos

promote the features and benefits of

natural das over oil







- Save Money
- Clean & Comfor
- Why Switch







Make the switch

Convert from oil to natural gas heat

- Savings
- Comfort and convenience
- Efficiency
- Reduced carbon footprint

Act soon and get a \$XXX rebate!



Oil Conversions Marketing Collateral



Home Heating Costs Driving You Mad?

Switch to Natural Gas and save an average of 80% compared to other heating sources.



The cost of conversion pays for itself-and fast

Many horseowness who convert break even in a few years. After that, it's all savings in your pocket. If your oil system needs replacing, the poyback is even faster.

Don't delay

Converting to natural gas will save you money now and into the future. Your oil tank will only degrade over time. Don't risk paying more to heat your home and for a costly cleanup lates.

Get started now

To learn more about the advantages natural gas heating, contact XXXXX Utility, XXX-XXX-XXXXX or visit www.XXXX.com.

Make the switch

Convert from oil to natural gas heat and reap the rewards

- · Savings
- Comfort
- Convenience
- Efficiency
- · Reduced carbon footprint





Space for utility contact contact info.







STILL TAKING CHANCES

With your oil storage tank?



National Accounts Consortium

- Partner with chains and franchises seeking to improve productivity and profitability
- Developing partnerships and projects between energy utilities and NA customers
- Sector Orientation
 - Restaurant Chains
 - Supermarkets with Food Prep
 - Big Box
 - Retail
 - Lodging









Relationships: Restaurant Sector - Partial Listing

Ale House

Burger King

Cheesecake Factory

CKE: Hardee's/Carls'Jr

Darden: Red Lobster, Olive Garden, Longhorn

Dine Equity: Applebee's, IHOP

McDonald's

Blooming Brands: Outback, Carrabba's, Bonefish

Pantry

Sonic

YUM Brands: KFC, Pizza Hut, Tace Bell

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National Account Consortium

Some Current Initiatives

- Working with CKE and Panda on propane to gas conversions
- Promoting low-volume gas fryers: McDonalds, Burger King, and Sheetz. Frymaster OCF to be tested in three Florida Burger King Restaurants



- Working with Blooming Brands on patio heater installations. Tests at Colorado restaurant are a "hit"
- IntelliChoice/Aisin Gas Heat Pump evaluations for





Residential Consortium



- Marketing Collateral
- Marketing support
- Studies & tools

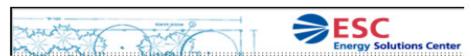


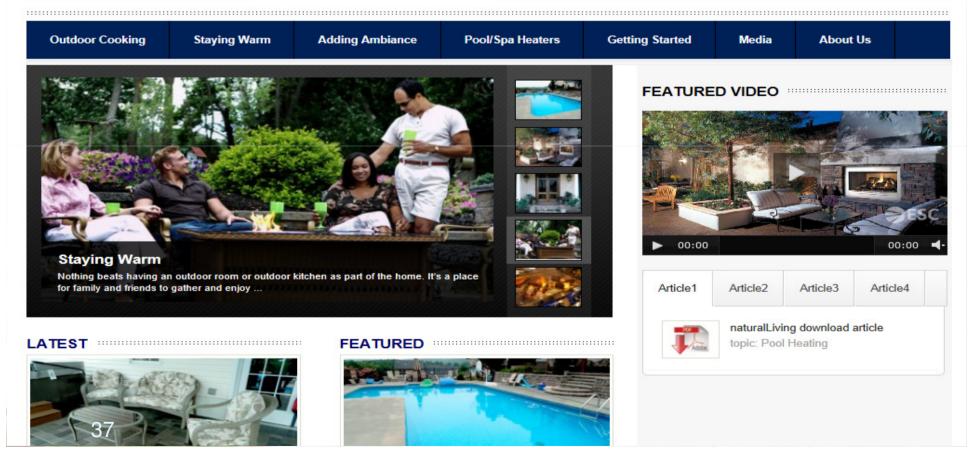


Residential Consortium

www.outdoorroomdesign.com









Builder Liaison Consortium

- Meet with national & regional builders to convey advantages of natural gas homes
- Marketing material & messages
- Realtor outreach
- Po SELLING HOMES TOTAL LION for builders









Questions

- Darrell Wilson
- ESC Chairman of the Board
- Pirety, Marketing and Communications peake Utilities

 wiison@chpk.com



