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GPAEE Newsletter



Greater Philadelphia Area Chapter of the Association of Energy Engineers

"Fostering action through education, innovation & networking to promote the priorities of Philadelphia-area Energy Professionals"

February 2012

Focus On: The Smart Grid and Economic Benefits from Participating in the Wholesale Power Markets



Click Below For Additional Registration Info!



Thanks to This Month's Sponsors



The goal of the discussion is to describe the Smart Grid, and illustrate how demand response and energy efficiency allow commercial customers to take advantages of potential Smart Grid benefits. The discussion will also review how automation can enable those customers to make money in utility and wholesale market Smart Grid programs by leveraging their existing energy assets and infrastructure. Specific wholesale market programs will be discussed in detail, such as Capacity, Energy, and Ancillary Services, as well as how those programs can provide new cash flow streams to commercial customers willing and able to adjust their electricity usage. Lastly, we will review a one or two brief case studies illustrating the novel use of these Smart Grid tools in the PJM area, to increase revenue and pay for needed infrastructure improvements.

This discussion would be ideal for:

- Facilities engineers
- Physical plant directors
- CFOs
- Sustainability managers
- Energy managers
- Those who are currently responsible for participating in demand response programs.

As always, the GPAEE monthly meetings are a great networking opportunity!

* [Note: Focus On is continued on Page 3 *

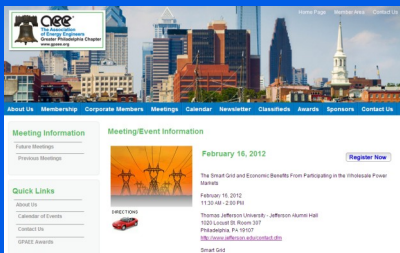
GPAEE Calendar of Events: Sept. '11 – June '12

Page 2



Month	Event
September 21, 2011	Season Opener with the Phillies
October 13, 2011	Lighting and Sustainability at the Electric Expo
November 17, 2011	Energy Standards Update and the Launch of ISO 50001
December 15, 2011	GPAEE Holiday Party
January 19, 2012	Funding Energy Efficiency Through Rebate Incentives
February 16, 2012	Smart Grid & Economic Benefits of the Wholesale Power Market
March 7, 2012	Globalcon: Combined Heat and Power - AC Convention Center
April 16, 2012	Federal, State and Local Legislation
May 17, 2012	New Energy Technologies
June 21, 2012	Annual Golf Outing—Mainland Golf Club

Click Below For
Additional Registration Info!



Thursday, February 16 is the Next GPAEE Event:

The Smart Grid and Economic Benefits of Participating In the Wholesale Power Markets

- Date:** Thursday, February 16, 2012
- Time:**
- 11:30 AM - 12:00 PM Registration
 - 12:00 PM - 2:00 PM Lunch & Presentation
- Location:** Thomas Jefferson University - Jefferson Alumni Hall
1020 Locust St. Room 307
Philadelphia, PA 19107
- Directions:** <http://www.jefferson.edu/contact.cfm>
- Cost:** \$30.00 for Members
\$35.00 for Non-Members
\$5.00 for Students and Unemployed

- Registration:**
- 1) Click on the Meeting Flyer icon to the left which will bring you to the GPAEE website
 - 2) Click on the "Register Now" box and follow the directions listed there

Add'l Contact Info Randy Haines randolph.haines@jefferson.edu

Focus On: The Smart Grid and Economic Benefits from Participating in the Wholesale Power Markets

Speaker Biography:

Larry Waddell - VP of Strategic Channel Development, Viridity Energy

Larry Waddell is VP of Strategic Channel Development and is responsible for cultivating and managing channel partner relationships that are aligned with Viridity's sales verticals. Mr. Waddell comes to Viridity with over 10 years of experience consulting with, managing and investing in start-up and early-stage companies in industries such as cleantech, food production, and logistics. To date, he has personally raised or helped to catalyze over \$35 million in debt and equity investment for early and growth stage companies, and has served as CEO and COO of several entrepreneurial ventures. Mr. Waddell's expertise is in strategy and channel development, venture and M&A finance, operations, and cash management. Mr. Waddell holds a BS in materials science & engineering from Lehigh University, an MA in economics from the University of Pittsburgh, and an MBA from the Wharton School of the University of Pennsylvania.

Transportation:

Public Transportation (Septa, Patco ect) is strongly encouraged. If you must drive, there is a garage across the street in the Hamilton Building (entrance on 11th St.).

Thanks to This Month's Sponsors



Congratulations to our 2011 GPAEE Awards Winner:

Thank you to all who submitted nominations for our annual awards ceremony. Below are this years winners:

Greater Philadelphia Chapter AEE
2010 – 2011
Energy Engineer of the Year:
Joe Monahan, CEM
University of Pennsylvania



Greater Philadelphia Chapter AEE
2010 – 2011
Corporate Energy Management:
Philadelphia Gas Works
Marketing Team



Greater Philadelphia Chapter AEE
2010 – 2011
Energy Manager of the Year:
Michael Katzenmoyer, CFM, CEA
Pottsgrove School District



PHOTOS FROM JANUARY'S EVENT



Welcome New and Renewing Members!

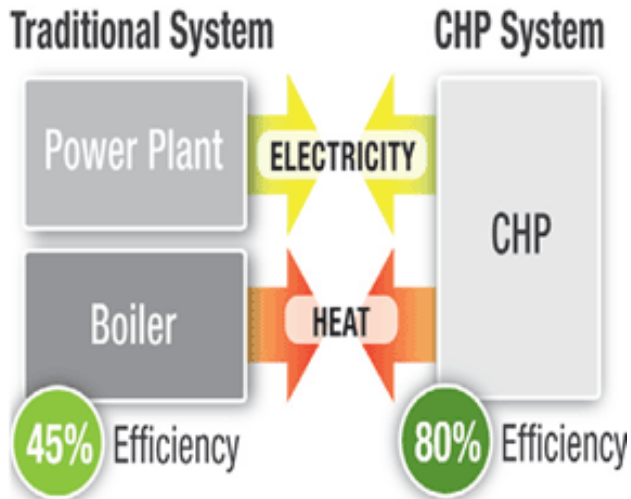
Erick H. Davis - ARB Geowell
Albert Koenig, Ph.D. - ARB Geowell
Joseph Carapellucci - ARB Geowell
Matthew Torrens - Merion Pump & Equipment
Dwight Price - Electrical Association of Philadelphia
John Siegel - Quanta Technologies, Inc.

Thank You Corporate Members!

Alpha3 Consulting
ARB Geowell
Birdsall Services Group
CM-3 Building Solutions Inc.
Commercial Utility Consultants
Concord Engineering Group
Constellation Energy
Ecolibrium Group LLC.
E-finity Distributed Generation
Elliot Lewis Corporation
EMon, LLC
Ewing Cole
GDF Suez Energy Resources - NA
Hess Corporation
Hutchinson Mechanical Services

ICF International
Klenzoid Inc.
Maarky Thermal Systems
Manna Supply
Noresco
PECO
PGW
Providence Supply
Ransome Engine
Reliant Energy
Schneider Electric
South Jersey Energy Solutions
Tozour Energy Systems
Trigen, A Veolia Energy Company
UGI Energy Services

EVENT PREVIEW - March 2012



CHP Programs & Opportunities

March 8, 2012

11:30am - 1:00pm

Globalcon Lunch Meeting

Atlantic City
Convention Center

GLOBALCON™
Energy, Power, & Facility Management Strategies & Technologies
March 7 - 8, 2012
 Atlantic City Convention Center / Hall B
 Atlantic City, New Jersey

REGISTER EARLY AND RECEIVE \$200 DISCOUNT

The Association of Energy Engineers (AEE), along with sponsors, Hess, Constellation Energy, North America Power Partners (NAPP) and other prominent cosponsors are proud to present GLOBALCON 2012.

Register for the full GLOBALCON conference ONLINE before **February 24th**, and receive the V.I.P. conference rate of \$695 for non members/ \$595 for members (regular rate is \$895). *Valid for new registrations only.*

ENTER Coupon Code: [GCEmail1](#) to receive discount

Click [Here](#) to Register

AEE is pleased to offer chapter members an additional \$50 discount* off Conference registration fees to Globalcon. To receive this discount, enter GCChapter in the Coupon window for online application, or write this code on a hard copy.

This discount is in addition to the \$100 discount for AEE members and the \$200 discount for early registration. Those AEE members who register by February 24 will be able to attend Globalcon for only \$545 rather than the regular Conference fee of \$895.

For FREE registration for the Expo portion only [Click Here](#).



Council on Women in Energy and Environmental Leadership (CWEEL) a division of AEE, is organized to support the development of a prominent voice for women in the energy and environmental industry. Its goal is to provide representation of women in industry-related policy issues such as our present and future sources of energy and the impact of energy on the environment. Further, CWEEL endeavors to secure a future in energy-related technical fields for women by supporting training, education, and mentoring of young girls and women and to contribute to the advancement of women in leadership positions throughout the industry. The CWEEL establishes a forum for women to promote policy in the energy industry.

LEARN MORE ABOUT CWEEL AT THESE EVENTS AT GLOBALCON 2012

Energy Policy: Opportunities, Challenges

Atlantic City Convention Center

Presenting case-studies of successful women owned businesses

Thursday, March 8th, 2012

7:30 a.m. to 9:00 a.m.

Free Breakfast for all Globalcon attendees

Networking Reception

Atlantic City Convention Center

Cocktail Reception sponsored by Luthin Associates

Thursday, March 8th, 2012

4:00 p.m. to 6:00 p.m.

FREE to CWEEL Members

\$40 Non-Members



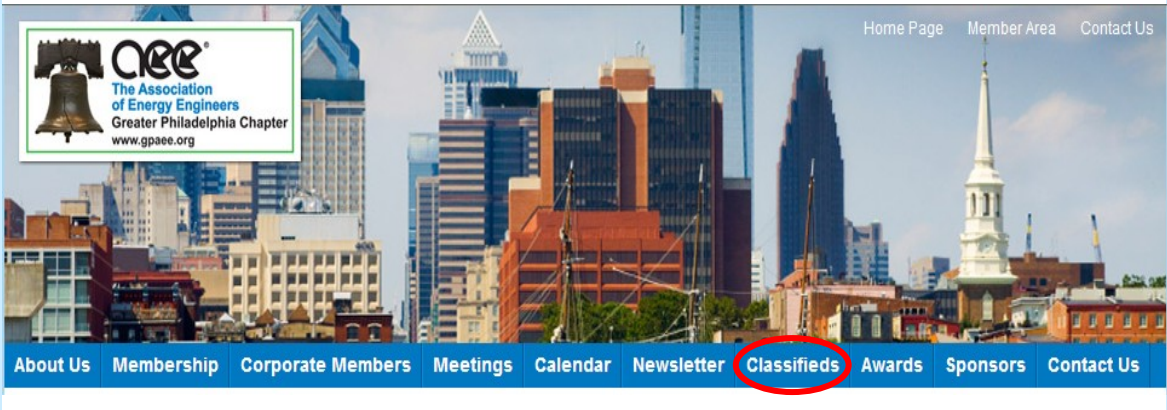
GPAEE Chapter Board Officers & Board At-Large

<u>Board Position</u>	<u>Officer Name</u>	<u>Org.</u>
President	Ken Curry	Cardone Industries
Vice President	Daniel Tavani	AMEC
Treasurer	Mike Sanders	Alpha 3 Consulting
Secretary	Jim Harven	Constellation Energy
Events	Christine Batchelor	UGI Energy Services
Marketing	Maryanne Campbell	Philadelphia Gas Works
Pres. Emeritus	Randy Haines	TJU
Newsletter Editor	Caroline McCallum	Concord Engineering
Membership	Veronica DeRosa	UGI Energy Services
Board At-Large	Jim Clark	Clark Energy
Board At-Large	Lou Nazirides	Pro Tech Energy
Board At-Large	Steve Goldberg	PECO
Board At-Large	Steven Siddal	Fluidics

Get To Know Your GPAEE Website - Classifieds

Have you logged into the resources available through our new website yet? This month, when you log in to GPAEE.org, check out the Classifieds navigation tab along the home page banner (circled in red below). This page allows GPAEE members to post current employment opportunities. The post will be reviewed by our webmaster, and stay active on the site for up to 3 months, or until we are notified that the position has been filled.

Please stop by our site to explore all your local GPAEE website has to offer!



Upcoming Area Energy Activities

Function	Date	Location	More Info
<i>Community Shared Agriculture Site Host Information Session</i>	February 15, 2012 6:30pm - 8:00pm	Ultimo Café Philadelphia, PA	http://www.greenphillyblog.com/philly-events-calendar/
<i>Center City Green Drinks</i>	February 16, 2012 7:00pm - 9:30pm	Mix Brick Oven Pizza Philadelphia, PA	https://www.google.com/calendar/render?=&true&output=xml
<i>Emerging Professionals Committee Leadership & Learning Series</i>	February 21, 2012 6:00pm - 8:00pm	DVGBC Philadelphia, PA	http://www.dvgbc.org/Februaru_EP_Meeting
<i>Drexel's Living Wall</i>	February 23, 2012 8:30am - 10:30am	Drexel University SkyView Lounge Philadelphia, PA	http://www.dvgbc.org/education/view/drexel-living-wall



How do you overhaul the way buildings use energy?

When the Allies needed a weapon terrible enough to end World War II, scientists devised the atomic bomb. When the Soviet Union hurled Sputnik into space, American scientists rallied to build the world's top space program. When Jim Freihaut goes to work each day, he doesn't have to win a war or outfox a Communist foe. All he has to do is crack a market, a market that has stubbornly resisted the notion of energy-efficient buildings for decades. That might be tough enough.



Freihaut and his team have a five-year charter -- one year already down -- and \$122 million from the federal government to meet this challenge: Convince the Philadelphia construction industry to do deep energy retrofits on some 7,000 commercial buildings, by proving it makes good business sense. ([more](#))

Pennsylvania may make neighborhood-electric vehicles street legal

Pennsylvania, one of the last states holding out against legalizing neighborhood-electric vehicles (NEVs) – such as those from Global Electric Motorcars (GEM), pictured – for street use, may change its laws to allow NEVs on some streets with speed limits as high as 35 miles per hour, according to AOL's Patch website for Warmister, PA..

The State Senate passed a bill that would allow NEVs on any street with a posted speed limit of no more than 25 mph and on some roads where the speed limit is as high as 35 mph. The bill, which was sponsored by the appropriately -named Senator Stewart Greenleaf and which doesn't include golf carts, will go before the state's House of Representatives for possible approval. ([more](#))

NJDEP intervenes in Federal Court challenge to Clean Air Act petition

The state Department of Environmental Protection filed a motion Monday in federal court to intervene in a Pennsylvania power plant's challenge to a federal Clean Air Act permit that requires it to substantially reduce air emissions the agency's charges is harming New Jersey's air quality.

The power plant, located on the Delaware River in Portland, Pa., releases thousands of tons of pollutants a day into several North Jersey counties, DEP Commissioner Bob Martin said. ([more](#))

New Peco substation to serve Center City, Penn/Drexel Area

Peco Energy Co. said Wednesday it has finished a new substation to serve portions of Philadelphia's Center City and University City sections.

The Philadelphia-based electric-and-gas utility said that it spent \$60 million on the Peltz substation, which it started building in December 2009. ([more](#))

**** [Editor's Note: Please let us know if you are aware of any newsworthy local Energy stories, announcements or events by [clicking here](#). Thanks] ****

Support GPAEE!

GPAEE: Keeping Philly's Energy Community informed. GPAEE has served the Philadelphia-area energy community for 30 years. During that time, GPAEE has never veered from its goal of keeping building and facility managers updated regarding the latest energy issues & innovations. Below are just some of the energy topics covered over the last few years at GPAEE's monthly informational events:



- Co-Generation
- LEED Buildings
- Lighting Technology
- Solar Energy
- Trade Shows
- Bio-Mass
- Wind Energy
- Energy Legislation
- EPA & DOE Programs
- Utility Company Issues
- Energy Service Companies Programs
- Demand Response Programs

We Can't Do It Without You. GPAEE is an all-volunteer non-profit organization. Accordingly, we rely on members & sponsors to underwrite our efforts. Therefore, in order to continue to provide the same high-quality energy education expected of us, GPAEE is seeking your Corporate support.

Corporate Support Options. Each month, GPAEE's award-winning Newsletter is read by over 500 energy industry professionals — area engineers, facility & building managers, contractors and vendors. In addition, our monthly Events are attended by up to 100 energy professionals. In turn, your company can reach our professional energy members & audience via several different Corporate Support options:

<u>Corporate Support Option</u>	<u>Corporate Support Option includes</u>		
<i>Corporate Membership</i>	<ul style="list-style-type: none"> • 5 x Individual Annual Memberships * <li style="padding-left: 20px;">* (a \$175 value) • Cost = \$150 • Additional Individual Memberships = \$30 each 		
<i>Newsletter Advertisement</i>	<i>Ad Size</i>	<i>Cost per Issue</i>	<i>Annual Cost</i>
	1/8 Page	\$20	\$100
	1/4 Page	\$50	\$200
	1/2 Page	\$100	\$400
	Full Page	\$200	\$800
<i>Sponsor Monthly Event</i>	<ul style="list-style-type: none"> • Includes Newsletter Announcement • Full Page Ad in one Newsletter • Corporate Profile in Meeting Announcement • Table Top @ sponsoring Event • 5 minute Presentation @ Event • Cost = \$300 		

For information on becoming a Corporate Member, advertising in our newsletter, or becoming an Event Sponsor, please contact **Maryanne Campbell** at marketing@gpae.org or 215-684-6724.

GPAEE CARES!

Greater Philadelphia AEE Board Employment Initiative

The economy is improving, however many of our business associates are facing hard times. Even if the recession is over as many economists claim, unemployment is expected to increase in the next few years. Ironically, jobs are increasing in some energy fields. We invite our members and Sponsor companies to join the GPAEE Board in our Employment Initiative. To help our fellow energy professionals, the GPAEE has initiated the following measures for unemployed local energy professionals:

1. Local unemployed energy professionals can pay a reduced fee for most monthly meetings. When registering for meetings, register under the student and unemployed rate of \$5 for the specified meetings.
2. Unemployed members can post a free energy Position Wanted ad for 3 months in our newsletter which currently reaches over 800 people.
3. Free Job Ad on our newsletter Energy Job Board for GPAEE Sponsor companies and employers. Recruiters are invited to post jobs for the normal advertisement fee.
4. Companies with openings are invited to announce them at our monthly meetings. One of our local members landed a job with one of our Sponsor companies as a result of an announcement made at a recent meeting.

The GPAEE Board reserves the right to limit the number of discounted attendees at each meeting. Unemployed discount does not apply for retired or self employed members. For more information or questions please contact Jim Clark (610) 325-9229.

**GPAEE CARES!
Unemployed &
Students \$5**

2012 Future City Competition Awards

The 2012 Philadelphia Regional Future City Competition was a great success thanks to many supporters including the Greater Philadelphia Association of Energy Engineers. Our contribution funded the Energy Awareness Award, awarded to Stewart Middle School in Norristown, PA. There was a wonderful outpouring of appreciation to the 300+ middle school students, their teachers and engineer mentors who participated on January 28. For more pictures from the day, go to www.futurecityphilly.org. Thanks to all for a great competition.



ENERGY JOB BOARD

Ads for seeking employment are requested by our newsletter editor by the 15th of the month preceding the publication month. Provide a brief write up, URL link and contact information. Ads for the newsletter are free with the exception of those solicited by professional employment agencies or consultants which will be treated as normal advertisements. To post an ad in the newsletter, send information to our newsletter editor, [Caroline McCallum](#). Please visit the [Classifieds](#) tab on our website for additional job information.



520 S. Burnt Mill Rd.
Voorhees, NJ 08043
(856) 427-0200

Position: Mechanical/Energy Engineer


Experience: Graduate engineer with 3-5 yrs experience with mechanical design of HVAC systems, energy modeling and energy auditing. EIT preferred.

Salary: commensurate with experience

Contact: jmarchiafava@concord-engineering.com

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For more information on how to Advertise with the GPAEE please see page 9



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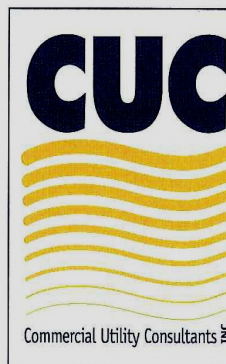
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ISO 50001 is
much more
than ISO 14001
for energy



What is ISO 50001?

It is a **performance** driven standard for continual improvement of energy efficiency.

- Reduce energy related operational costs
- Reduce energy related emissions
- Increase energy efficiency
- Demonstrate a commitment to sustainability

Ask us about ISO 50001 certification at the AEE conference in A.C.

In Atlantic City we will be in booth # 242

Inviting consultants and/or potential auditors to our booth.

www.DEKRACertificationInc.com



Advertisements

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Roy Givler, CEM
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CenterPoint Energy Services, Inc.

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Natural Gas Supply & Electricity Procurement



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clarkenergy@comcast.net

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Fax (610) 325-5801

About AEE National

The Association of Energy Engineers (AEE) is a nonprofit professional society of 11,000 members in 78 countries. The mission of AEE is “to promote the scientific and educational interests of those engaged in the energy industry and *to foster action* for Sustainable Development.” AEE's network of 67 local chapters meets regularly to discuss regional issues. AEE's roster of corporate members is a veritable “who's who” from the commercial, industrial, institutional, governmental, energy services, and utility sectors.

AEE offers a full array of informational outreach programs including seminars, conferences, journals, books, and certification programs.

The *AEE Energy, Facility, Power News* is a high-quality online newsletter that focuses on the accomplishment of the Association and its members. AEE also publishes three technical journals: *Energy Engineering*, *Strategic Planning for Energy & the Environment*, and *Cogeneration & Distributed Generation Journal*. *Distributed Energy* focuses on the advantages of diversifying your energy portfolio with onsite power and distributed generation in order to efficiently increase the security and stability of your power systems. *Sustainable Facility*, a new publication from the publishers of Energy & Power Management magazine replaces the former publication to AEE members. These publications are complimentary to all AEE members.

Additional benefits include continuing education & book discounts, invitations to industry surveys, job referrals, and special member discounts.

To become an AEE National Member, please go to <http://www.aeecenter.org/membership/>.



Newsletter Comments, Opinions, Ideas

If you would like to comment on, have an opinion/idea for, or contribute a news item to the GPAEE Newsletter, then please [click here](#).

To Receive free GPAEE Newsletter

If you do not currently receive our free monthly GPAEE Newsletter and would like to do so, then please [click here](#)

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If you would like to forward this Newsletter to a friend, then please [click here](#).