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# GPAEE Newsletter



Greater Philadelphia Area Chapter of the Association of Energy Engineers

*"Fostering action through education, innovation & networking to*

*May 2010*

## Greater Philadelphia Chapter



**AEE**  
The Association of Energy Engineers  
www.gpaee.org

### This Month's Sponsor



**GPAEE May Luncheon Event**  
Four Seasons Hotel: Combined Heat and Power  
*The Key to Energy Efficiency*  
Raffles West Hotel Roof  
Friday, May 15, 2010

- Event:** Four Seasons Microturbine Project: Combined Heat and Power Fuel Discussion  
Friday, 5/15/10
- Time:** 11:30 AM - 12:30 PM  
12:30 PM - 1:00 PM  
1:00 PM - 1:30 PM  
1:30 PM - 2:00 PM  
2:00 PM - 2:30 PM  
2:30 PM - 3:00 PM
- Location:** Four Seasons Hotel  
One Logan Square  
Philadelphia, PA 19103  
www.fourseasons.com/philadelphia
- Speakers:** Jeff Brady, St. Regis Development Corporation, LLC  
Director, Industrial Division  
Frank Schick, Ramapo College  
Director, Energy  
Drew H. Hines, St. Regis  
VP, Industrial & Transportation  
SPEI, Inc. President & Vice President  
SPEI, Inc. VP, US-17th Street Registered Alternative  
Energy Project

**GREEN CAREER!**  
Unemployed & Students \$5

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## Focus On: The Four Seasons Hotel: Combined Heat and Power - The Key to Energy Efficiency

Learn About Various On-Site Electricity Generation Options and Keys to Putting a CHP Project Together from Our Panel of Experts. Tour the Four Seasons Philadelphia Hotel Microturbine Project. Enjoy Lunch at the Four Seasons Philadelphia Hotel.

### Meeting Background

Using one fuel to produce more than one beneficial work output is Combined Heat and Power (CHP). The work outputs for CHP are usually electricity and steam or hot water, and the cleanest single fuel input is usually natural gas. The waste heat from the engine driving the electric generator (microturbine, internal combustion engine, or turbine) is channeled through heat exchangers to capture energy that would normally be vented or wasted. CHP systems capture that waste heat and “recycle” the energy to offset another facility operational need, such as cooling, heating, hot water or dehumidification.

On-site CHP is extremely efficient since it eliminates distribution line losses and considerably reduces emissions as compared to electricity produced at a large electric plant - site vs source. Consequently, CHP saves money because of energy efficiency.

Energy savings range from 25% to 50% when CHP is properly applied to a facility. Not only are the economics persuasive, but there are environmental and conservation benefits, too.

Despite its myriad advantages, CHP is not appropriate for every application. First, it must be determined that there is a need for products of co-generation. Electricity is almost a given as it would be hard to envision any facility that does not use electricity. The other product, i.e., hot water, steam or air conditioning, requires some additional analysis. CHP is most appropriate in situations where abundant hot water, steam or AC is required.

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

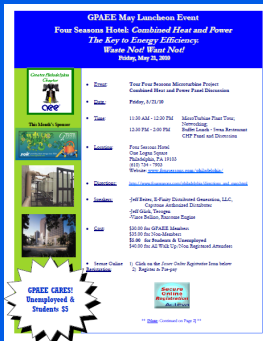
## GPAEE Calendar of Events: Sept. '09 – June '10



Month	Event
September 15, 2009	Clean Energy's Perfect Storm and Phillies Game
October 8, 2009	Demand Control Strategies and the Electric Expo
November 12, 2009	Renewable Energy At Work
December 10, 2009	GPAEE Holiday Party
January 21, 2010	Counting Your Carbon and Building a Community Carbon Network
February 25, 2010	Energy Efficiency & Conservation in Philadelphia Area
March 25, 2010	Load Shifting in Response to Grid Management Systems and Globalcon
April 22, 2010	PECO Act 129 Smart Ideas & Energy Efficiency and Conservation Programs (see below)
<b>May 21, 2010</b>	<b>The Four Seasons: Combined Heat and Power</b>
June 24, 2010	GPAEE Annual Golf Outing

### Friday, May 21st is Next GPAEE Event:

## The Four Seasons: Combined Heat and Power—The Key to Energy Efficiency. Waste Not! Want Not!



- Date:** Friday, 5/21/10
- Time:**
- 11:30 PM - 12:30 PM Microturbine Plant Tour  
Buffet Lunch
  - 12:30 PM - 2:30 PM CHP Panel and Discussion

**Location:** The Four Seasons Hotel  
One Logan Square  
Philadelphia PA 10103

**Cost:** \$30.00 for GPAEE Members  
\$35.00 for Non Members  
\$5.00 for Students and Unemployed - Contact Jim Harven  
\$40.00 for All Walk Up and Non Registered Attendees

**Registration:**

- 1) Click on the *Secure Online Registration* icon (on left)
- 2) Scroll down to 'Registration' box to Register

**Add'l Contact Info** Maryanne Campbell [Maryanne.Campbell@pgworks.com](mailto:Maryanne.Campbell@pgworks.com)

**More Information:** For more Event information, please click on the *Event Flyer* icon (located on left, above the Registration icon)



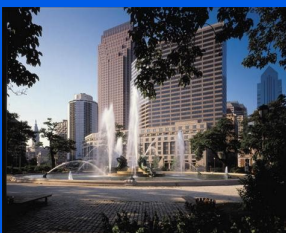
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**This Month's Sponsor**



**Focus On: The Four Seasons Hotel: Combined Heat and Power  
- The Key to Energy Efficiency (continued)**

Now's the time to take full advantage of your waste heat, reduce your electricity cost and save energy. CHP technology can help you take control of your energy, improve your system efficiency and produce savings. Market-driven electric rates are about to take hold completely in Pennsylvania, bringing with it electric price uncertainty and expected increases by 2011.

**About Our Panelists:**

**Jeffrey Beiter**, Managing partner of E-Finity, has been educating end users on the various technologies available to reduce energy consumption and increase efficiency for over 18 years. Exceeding clients' expectations on each job was the key to the 940 percent growth recorded by E-Finity Corp. between 1992 and 1994 with skyrocketing sales of 'green' technologies. As a result of this unprecedented growth, E-Finity was recognized as the 6th fastest growing privately held company in the Philadelphia area, by the Wharton Small Business Development Center and the Philadelphia Business Journal.

**Jeffrey Glick** has been with Tecogen over 21 years. Currently Jeff is Regional Sales Manager for the Natural Gas Chiller, and Cogeneration Product Groups. In this position Jeff's responsibilities include providing technical support for the cogeneration, chiller and refrigeration products sold by Tecogen. Jeff performs liaison work with the gas industry located here in the Northeast. Jeff is also involved in training the engineering community on the benefits of using natural gas equipment. Mr. Glick has a Bachelor's Degree from the University of Massachusetts and a Master's Degree from Manhattan College both in Chemical Engineering.

**Vince Bellino**, Ransome Engine

## Pictures from our April Event: Peco Act 129 Smart Ideas



### Welcome New GPAEE Members

Diane Woodward - Global Recruiters

John Grabner

### Thank You Corporate Members!

Altran Solutions Corporation  
 American Refining and Biochemical Company  
 Avanceon  
 Ewing Cole  
 Graboyes Commercial Window Co.  
 Hess Corporation  
 Klenzoid Inc.  
 Noresco

PECO  
 PGW  
 PWI Energy / Johnson Controls  
 Ransome Engine  
 Schneider Electric/Square D  
 South Jersey Energy Solutions  
 Tozour Trane  
 Trigen - A Veolia Energy Company  
 UGI Energy Services

GPAEE Event Preview: June '10



**“BRING A CUSTOMER OR FRIEND”  
ANNUAL GOLF OUTING**



**JUNE 24, 2010 (THURSDAY)**

**SHOTGUN START: 8:45 AM (SHARP)**

*(PLEASE ARRIVE AT 8:00 AM TO SIGN IN FOR  
WE ALL TEE OFF TOGETHER AT 8:45 AM)*

**FORMAT: SCRAMBLE (BEST-BALL)**



**COST: \$75.00 PER GOLFER INCLUDES:**

CART AND GREEN FEES  
HOT AND COLD BUFFET W/SALADS  
DESSERT  
COLD BEVERAGES (BEER, SODA, ETC.)  
AWARDS  
50/50 RAFFLE  
DOOR PRIZES  
LOTS OF FUN!!!!!!

**Mainland Golf Course**

**2250 Rittenhouse Road / Mainland, PA 19451 / (215) 256-9548**

**Please reserve a spot by registering on-line**

**(make checks payable to “The Greater Philadelphia Chapter of AEE” )**



## The Greater Philadelphia Chapter of The Association of Energy Engineers

### CORPORATE SIGN SPONSORSHIP FOR JUNE 24, 2010 GOLF OUTING (\$100 PER SIGN)

IF YOU ARE INTERESTED, PLEASE FORWARD THIS  
SPONSORSHIP FORM TO MARYANNE CAMPBELL AT

**Maryanne.Campbell@pgworks.com**

BY JUNE 18<sup>TH</sup> WITH YOUR COMPANY'S  
INFORMATION SO THAT THE SIGNS CAN BE  
PREPARED.

Name:

Title:

Company:

Address:

Phone:

**Make Checks Payable to "Greater Philadelphia AEE" and remit to:**

**Ms. Maryanne Campbell  
c/o Philadelphia Gas Works  
800 W. Montgomery Avenue  
Philadelphia, PA 19122**



U.S. GREEN BUILDING COUNCIL'S  
**2010 Federal Summit**  
 MAY 18 - 19, 2010 WASHINGTON, DC

LEADERSHIP IN SUSTAINABILITY  
**FROM COAST TO COAST**

**REGISTRATION OPEN!**

Join the U.S. Green Building Council, government officials, industry leaders and experts from the non-profit community for Federal Summit 2010, two days of high-quality education, policy-oriented discussions and presentations, networking with the decision-makers you need to know to be part of the public sector's green building boom, and other essential opportunities. **And for government employees only, the additional half-day Government Forum will offer government-focused programming.**

**Upcoming Area Energy Activities**

Function	Date	Location	More Info
<i>PECO Energy Costs, Changes and Opportunities affecting Your Business</i>	5/17/2010 8:00am - 10:30am	PECO Energy Hall Philadelphia, PA	<a href="http://www.greaterphilachamber.com/EventDetail.aspx?EventID=2387">http://www.greaterphilachamber.com/EventDetail.aspx?EventID=2387</a>
<i>Electric Power Conference</i>	5/18/2010 - 5/19/2010	Baltimore Convention Center Baltimore, PA	<a href="http://www.electricpowerexpo.com/conference_overview/">http://www.electricpowerexpo.com/conference_overview/</a>
<i>Green Drinks</i>	6/2/10 6:00pm - 8:00pm	Standard Tap Philadelphia, PA	<a href="http://www.greendrinks.org/PA/Delaware%20Valley">http://www.greendrinks.org/PA/Delaware%20Valley</a>
<i>Penn Future's Annual Clean Energy Conference</i>	6/2/10 - 6/3/2010	Radisson Penn Harris Hotel Camp Hill, PA	<a href="http://my.pennfuture.org/site/Calendar/1975969829?view=Detail&amp;id=105101&amp;JServSessionId:r004=r9dnxx65n4.app209b">http://my.pennfuture.org/site/Calendar/1975969829?view=Detail&amp;id=105101&amp;JServSessionId:r004=r9dnxx65n4.app209b</a>



## Energy News

### EIA reports 7% drop in US energy-related carbon dioxide emissions in 2009



In 2009, energy-related carbon dioxide emissions in the United States declined 405 million metric tons, or 7%, the largest year-over-year decline since the U.S. Energy Information Administration began keeping annual energy data records in 1949.

"The large decline in emissions was driven by the economic downturn, combined with an ongoing trend toward a less energy-intensive economy and a decrease in the carbon-intensity of the energy supply," EIA Administrator Richard Newell said in a May 5 news release, accompanying an analysis. ([more](#))

### Senate Cap-And-Trade Bill Coming Out Next Week

Sens. John Kerry (D-Mass.) and Joe Lieberman (I-Conn.) are planning to release their climate and energy bill as soon as next week even if they cannot win back their longtime GOP partner, according to a top Senate Democrat.

Kerry revealed the tentative schedule for the unveiling of his long-awaited measure during the Democrats' weekly meeting of committee leaders. "He said it's looking good, and he hopes to have a press conference next week," said Environment and Public Works Chairwoman Barbara Boxer (D-Calif.). ([more](#))

### Google's Energy Foray: What's Up?

Companies like Google and Facebook capitalize on the power of user data, scouring our e-mail messages and profiles for keywords that can result in lucrative targeted advertising. Google is explicit about its mission "to organize the world's information and make it universally accessible and useful."

Now it is laying out plans to become a leader in capturing, owning, tracking and trading energy. Recently the company announced a \$38.8 million investment in two wind farm projects in North Dakota, as our friends at Dealbook noted. ([more](#))

### California High-Voltage Line Celebrated As Path to the Future

The grandest celebration that a set of high-voltage electrical lines ever received took place Tuesday in a sun-baked valley about 100 miles north of Los Angeles. The power lines are the first in the state to be installed specifically to deliver vast amounts of renewable energy to a power-hungry population.

"Today has similarities to pounding the golden spike at Promontory Point in 1869," said Philip Moeller, a member of the Federal Energy Regulatory Commission, referring to the completion of the transcontinental railroad. ([more](#))

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

## Ramapo College Announces State's First Master of Arts in Sustainability Studies

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Two-year program will create leaders in the emerging field of sustainability practice (MAHWAH, NJ) - Ramapo College of New Jersey is proud to announce a new program, the first Master of Arts in Sustainability Studies degree in the Tristate area. Beginning in Fall 2010, the College will welcome its first class to the program, which will equip students to work in a diverse range of fields, including planning, policy, and design.

Students will learn how to apply sustainability in a variety of institutional, organizational, cultural, commercial, professional, and geographical contexts and position themselves as leaders for sustainability practice.

“It is only fitting that Ramapo College, which has a longstanding commitment to environmental awareness and studies, will offer the first Master of Arts in Sustainability Studies in the State and the surrounding region,” said Ramapo President Peter P. Mercer. “Its graduates will become the leaders of tomorrow in education, science and public policy.”

The two-year program is based exclusively on evening classes. Prospective students include those from the fields of social science, business, science, engineering and liberal and fine arts. Classes will be held in the College's new Sharp Sustainability Education Center, a demonstration project that provides a “smart” classroom space that supports environmental literacy at the College across disciplines and is a campus hub for advanced study on sustainability issues.

For more information on the program, visit the College's website at: <http://www.ramapo.edu/graduate>



### GPAEE Chapter Board Officers & Board At-Large

<u>Board Position</u>	<u>Officer Name</u>	<u>Org.</u>	<u>E-mail Address</u>
President	<b>Jim Harven</b>	Constellation Energy	<a href="mailto:james.harven@constellation.com">james.harven@constellation.com</a>
Vice President	<b>Ken Curry</b>	Cardone	<a href="mailto:kcurry@cardone.com">kcurry@cardone.com</a>
Treasurer	<b>Mike Sanders</b>	Thornfield	<a href="mailto:digame05@aim.com">digame05@aim.com</a>
Secretary	<b>Daniel Tavani</b>		<a href="mailto:dgtavani@gmail.com">dgtavani@gmail.com</a>
Membership	<b>Christine Stearns</b>	Tozour Trane	<a href="mailto:cstearns@trane.com">cstearns@trane.com</a>
Marketing	<b>Maryanne Campbell</b>	PGW	<a href="mailto:maryanne.campbell@pgworks.com">maryanne.campbell@pgworks.com</a>
Events	<b>Hans Greene</b>	PGW	<a href="mailto:hans.greene@pgworks.com">hans.greene@pgworks.com</a>
Pres. Emeritus	<b>Randy Haines</b>	TJU	<a href="mailto:randolph.haines@jefferson.edu">randolph.haines@jefferson.edu</a>
Newsletter Editor	<b>Caroline McCallum</b>	CEG	<a href="mailto:cmccallum@ceg-inc.net">cmccallum@ceg-inc.net</a>
Board At-Large	<b>Jim Clark</b>	Clark Energy	<a href="mailto:ja11clark@aol.com">ja11clark@aol.com</a>
Board At-Large	<b>Lou Nazirides</b>	Tozour Energy	<a href="mailto:lnazirides@tozourenergyservices.com">lnazirides@tozourenergyservices.com</a>
Board At-Large	<b>Steve Goldberg</b>	PECO	<a href="mailto:steven.goldberg@exeloncorp.com">steven.goldberg@exeloncorp.com</a>
Board At-Large	<b>Steven Siddal</b>	Fluidics	<a href="mailto:ssiddal@fluidics.com">ssiddal@fluidics.com</a>

# 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

GPAEE wants your Support. 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>		
<b><i>Corporate Membership</i></b>	<ul style="list-style-type: none"> <li>• 5 x Individual Annual Memberships *</li> <li style="padding-left: 20px;">* (a \$175 value)</li> <li>• Cost = \$150</li> <li>• Additional Individual Memberships = \$30 each</li> </ul>		
<b><i>Newsletter Advertisement</i></b>	<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
<b><i>Sponsor Monthly Event</i></b>	<ul style="list-style-type: none"> <li>• Includes Newsletter Announcement</li> <li>• Full Page Ad in one Newsletter</li> <li>• Corporate Profile in Meeting Announcement</li> <li>• Table Top @ sponsoring Event</li> <li>• 5 minute Presentation @ Event</li> <li>• Cost = \$300</li> </ul>		

For information on becoming a Corporate Member, Advertising in our Newsletter, or becoming an Event Sponsor, please contact **Maryanne Campbell** at [maryanne.campbell@pgworks.com](mailto:maryanne.campbell@pgworks.com) or 215-684-6724.

# **GPAEE CARES!**

## Greater Philadelphia AEE Board Employment Initiative

The economy is tough. 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 two 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 the February, March, April, and May 2010 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 Position Wanted ad for 3 months in our newsletter which currently reaches over 600 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 membership 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.

National AEE has given a limited number of coupons for a half price national membership. This discount is for new members only. This discount is for employed as well as unemployed members. Ask for the coupon at the registration desk at our monthly meeting. Also, you can become a local GPAEE member without being a national AEE member.

The GPAEE Board reserves the right to limit the number of discounted attendees at each meeting. The meeting discounts and other measures are for unemployed energy professionals. The definition of unemployed does not include retired or self employed members.

Jim Clark will be the main point contact for this effort. Employers and employees can contact Jim at (610) 325-9229.



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

**Let us know how we can help you. Network at our meetings and connect with your local energy community.**

# ENERGY JOB BOARD

Ads for seeking employment or offering employment are accepted by our newsletter editor no later than the 15<sup>th</sup> of the month preceding the publication month. Size and content are limited to available space. Please make descriptions brief and refer to URL link or contact info for more information. Ads are free with the following exception: Ads solicited by professional employment agencies or consultants will be treated as normal advertisements. Send information to our newsletter editor, Caroline Koenig, at [cmccallum@ceg-inc.net](mailto:cmccallum@ceg-inc.net).

## John Grabner

(267) 664-2515

[Grabnerj2@asme.org](mailto:Grabnerj2@asme.org)

Engineering/Manufacturing Professional with a passion for serving customers to improve their operation and grow the business. John is a Mechanical Engineer with an MBA and Extensive plant engineering and engineering management experience. Core competencies include capital project management, technical and production problem solving, strategic planning, budget development and expense control, maintaining strong customer loyalty, energy management and conservation. John is interested in developing and implementing energy related services to audit operations, propose energy conservation driven improvements and manage energy consumption for industrial customers.

## Robert J. (Bob) Tidona

(610) 644-3433

[rtidona@verizon.net](mailto:rtidona@verizon.net)

Energy/environmental engineering and management professional with 20+ years experience in consulting and construction. Background includes development and implementation of energy, carbon, water, and waste management projects in the U.S. and globally across industrial, institutional, commercial, and government markets. Supervised engineering and construction project managers implementing energy services performance contracts up to \$10 million. Led the energy and carbon management practice at environmental consulting firm. Managed engineering research laboratory facility and technical staff. Key strengths include a strong engineering background; technical, financial, and regulatory analysis of energy and environmental systems, proven project and staff management abilities, strategic planning and problem-solving skills, and a history of making good on promises. Bob seeks a technical management role in helping clients achieve their energy and environmental goals in a sustainable and profitable manner.



CPower is a leading strategic energy asset management firm. Founded in 2000, today CPower is one of the largest Demand-Response service providers in the United States. Our company is currently active and expanding in numerous energy markets including New York, New England, California, Texas, Canada and PJM (13 states in the Mid-Atlantic Region).

We need energetic Account Managers. These positions are located in the North-Eastern part of the United States. Please email your resume and cover letter to: [jobs.hr@cpowered.com](mailto:jobs.hr@cpowered.com)

CPower, Inc. is an Affirmative Action, Equal Opportunity institution and welcomes applications from diverse candidates and candidates who support diversity.

# Advertisements

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meeting your customer's needs.

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

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.

The *AEE Energy Insight* 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*. These publications are complimentary to all AEE members.

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

### Feedback



### ***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](#)

### ***Forward Newsletter to a friend***

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

### ***From The Editor***

A few months back I announced my new years resolution to green our home. I'm happy to report we've taken a large step forward, as we moved into a greener place. The biggest change we've seen has been with the windows and building envelope. When the wind was blowing on a cold day in our 150+ year old former residence, we could turn a turbine to generate our own electric - and that was with the windows closed! In the new digs we haven't had to turn on the heat, even when the temperature dropped down below 30. We've seen an energy savings of over 20%, even though we've doubled our square footage. Next up - lighting!