

ASSOCIATION OF ENERGY ENGINEERS - NEW ENGLAND CHAPTER



NEW ENGLAND ENERGY NEWS

October 2008 Newsletter

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Visit our website
www.aeenewengland.org

LEED for Existing Buildings: Operations & Maintenance

October 1, 2008

The interest in sustainability and green buildings continues to accelerate in the local marketplace. Most professionals in the building industry have become familiar with the LEED® programs in the areas of New Construction and Commercial Interiors. However, less well known is the LEED® for Existing Buildings: Operations & Maintenance program. The program essentially offers building owners and operators an excellent framework of industry accepted best practices against which they can gauge and improve their facility operations. This presentation will offer an overview of the new LEED® EB: O&M program and provide case study examples from local LEED® EB projects.

The Leadership in Energy and Environmental Design (LEED®) rating system is a third-party certification program and the nationally accepted benchmark for the design, construction, and operation of high performance green buildings. LEED® provides building owners and operators with the tools they need to have an immediate and measurable impact on their buildings' performance. LEED® is a registered trademark of the U.S. Green Building Council.

Brad Jones, PE, LEED® AP is Division Leader of Commissioning & Sustainability Services with Sebesta Blomberg. He has over 15 years of experience in optimizing facility operations. Sebesta Blomberg provides engineering, construction support, commissioning, facility support, energy management, environmental, LEED® certification, central plant and renewable energy services to private and public sector markets. Since joining Sebesta Blomberg, Mr. Jones has been involved with the commissioning of renovations and new buildings, as well as the retro-commissioning of existing facilities for energy cost reductions. He also provides LEED® facilitation services to help building owners and operators certify their buildings. He has been involved with more than 25 LEED® projects, including three of the five LEED® EB certified projects in Massachusetts.

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* indicates Past President

The Retro Commissioning Enigma: A Utility Perspective

Currently with energy costs escalating at unprecedented pace, the subject of Retro Commissioning (RCx) has created a lot of interest among energy users and energy conservation program implementers. RCx has a great potential to save energy without spending significant capital by identifying control deficiencies in existing HVAC systems and correcting them. These deficiencies can vary from a broken actuator for outside air damper to an incorrect sequence or set-point in the EMS. NSTAR has offered a Pilot RCx Program for last few years to evaluate the effectiveness of the program before offering a full scale RCx Program.

W. Hugh Gaasch is presently the supervisor of engineering for NSTAR Electric - Energy Efficiency. He is responsible for managing the various technical aspects of implementing energy efficiency programs. Hugh will present the status of the NSTAR's current Pilot RCx Program and provide us with some results and observations of some recent RCx studies including the cost effectiveness of projects completed under the Pilot RCx program.

The future direction of the program will also be discussed, and are based on the findings of the current Pilot RCx Program; including the need for quality assurance in program implementation, and the customer's role in assuring the energy savings going forward. Hugh will also shed some light on the existing barriers, including the cost effectiveness of the RCx Program when compared to other utility energy conservation programs.

Prior to joining NSTAR Hugh provided engineering-based energy efficiency consulting services for 15 years; serving both utility and private sector clients. Hugh has an extensive background in industrial energy conservation, process optimization, and business operations. Hugh holds a B.S. and a M.S. in Mechanical Engineering.

Meeting Managers: Dinesh Patel & Dan Wheatley

Doubletree Guest Suites Hotel

550 Winter Street - Exit 27B off Route 128 (I-95), Waltham, MA

4:30 Open AEE Board Meeting *

5:30 Registration and Networking

6:30 Dinner and Presentation

8:30 Close

* Remember our Board of Directors meetings are open to anyone that is interested in attending. They begin at 4:30 p.m. before our regular meetings unless otherwise noted. We welcome new faces and ideas.

Space is Limited - Register online at <http://aeenewengland.org/> ,

call 781-446-0125 or send email to: arthur1771@aol.com

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Ron Gillooly
Chapter President

Greetings – October 2008

We started off the year with another engaging topic that captivated the audience and fostered a lively discussion. Phil Adams from World Energy Solutions, Inc. provided a brief overview of the dynamic environmental commodities market. Phil described various options and techniques organizations can utilize to participate in the environmental commodities market such as buying or selling renewable energy credits. Each market offers different opportunities for their participants based on their goals and needs.

During the second part of our program David Newman and Paul Lukitsch from Millipore provided an overview of how one company recently escalated their efforts to reduce carbon emissions. In addition to showing their commitment to the environment, their projects, such as the T5 warehouse lighting conversion, proved to be profitable investments that exceeded expectations.

Our October program will feature Leadership in Energy and Environmental Design (LEED®) for existing buildings. Brad Jones, PE, LEED® AP from Sebesta Blomberg will provide an overview of this program that offers building owners and operators an excellent framework of industry accepted best practices which can be applied to their own facilities.

Remember our Board of Directors meetings are open to anyone that is interested in attending. They begin at 4:30 p.m. before our regular meetings unless otherwise noted. We welcome new faces and ideas. In addition if you have any questions, comments or suggestions on how we may be able to improve our programs please let me know (508) 922-6835 or ronald.gillooly@us.ngrid.com

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Employment Opportunities



National Grid currently has positions open in their Energy Efficiency program group in Waltham, MA. These cover levels of experience ranging from junior to highly seasoned professionals. There are both commercial / industrial and residential program positions. The commercial group positions include; a lighting specialist, an individual with strong HVAC / Mechanical systems background and a sustainable project architect. Numerous New England AEE members have been in similar positions for many years and will attest to the fact that they are both interesting and rewarding. National Grid's programs are in the midst of a period of explosive growth with the strong prospects for the future. Apply for all positions through Monster.com or contact one of National Grid's AEE members (see chapter sponsors) for more information.



Project Development Engineer

Johnson Controls is a world-class employer where ingenuity and excellence are welcome. As a diversified, industrial growth company, we have achieved increased sales for 61 consecutive years. And we do everything possible to value, challenge and reward our employees.

Under minimal direction, participates as a member of the Project Development Team to achieve department and project objectives on large, complex, high-risk projects. Leads engineering, process or financial tasks during detailed development of projects. Performs high-level analysis on more complex technical and financial elements, focused on the breadth of bundled programs. Supports engineering, process or financial tasks during solution design. Responsible to establish an ongoing partnership with the customer on assigned projects.

Bachelor's degree in business, engineering or a related field as appropriate. Eight years or more experience in building systems or operational processes. Function-specific licenses or certifications preferred (e.g., Professional Engineering license for engineering-related roles, etc.) MBA or other advanced degree preferred. Ability to travel approximately 30%.

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**ENGINEERING POSITIONS AVAILABLE**

ERS has immediate openings for entry-level engineers, Project Engineers with two to five years of energy engineering experience and Senior Engineers with five plus years of energy experience. These positions require knowledge of energy efficiency and evaluation associated with industrial manufacturing operations, commercial building systems, and new building construction.

Successful candidates will have experience conducting site surveys, performing measures analyses, and preparing comprehensive reports detailing analytical findings. Candidates should also be committed to providing premium-quality, cost-effective work to our current and future clients. The positions require the ability to work closely with customers, vendors, and utility program administrators. Design, construction administration, and project management skills are a plus. Candidates should have relevant engineering background and education. Excellent writing, communication, and computer skills are mandatory.

At ERS, you will be recognized for your contributions to a company that is a leader in its field. We are looking for outgoing self-starters that are seeking to make an immediate impact. ERS offers competitive salaries and a comprehensive benefits package. If you desire to work for a dynamic growing company in a hardworking but fun environment, please email your resume and cover letter in MS Word format, along with salary requirements, to recruiting@ers-inc.com or visit us on the web at www.ers-inc.com.

About ERS

ERS is a progressive, energy engineering and consulting firm with offices in Haverhill, MA (Metro Boston area), New York City, San Jose, CA and Augusta, ME. Areas of specialization include energy project assessment and implementation; technology assessment; industrial process assessments; green building/sustainability services, premium efficiency lighting design; energy code compliance; custom design services; energy efficiency program operation and administration; and developing analytical tools for database management and project analysis.

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AEE NE 2008 Golf Outing and Fundraiser

A hearty thanks to all who participated, sponsored, volunteered in our 8th Annual Golf Outing at New England Country Club. Special thanks to **National Grid, Outing Sponsor** for providing each player an AEE monogrammed all-season jackets. Proceeds fund chapter programs and scholarships. This October AEE Int'l will award our Chapter the 2008 Community Service Award.

Besides the swell jackets, new this year was the Heavy Hitters Rapid-Fire Auction, complimentary Team Photos (more photos on our web-site) and a free round of golf coupon to each Team from NECC. Twenty-eight Teams played, nine scored 8-under or better and the winners are:

1st Place (-11) Constellation Energy [Team Leader: R.Belyea]
\$400

2nd Place(-11) Tunstall Corporation [Team Leader: R.Tunstall]
\$300

3rd Place (-10) Wilkinson Companies [Team Leader: G.Wilkinson]
\$200

Longest Drive:

Kelly Wright and Paul Munro

Closest-to-Pin on 16th Hole:

Wendy O'Malley and Brad Parsons

Closest-to-Line on 8th Hole:

Goeff Wilkinson

Thanks to Jim Armstrong for recruiting **Hole Sponsors**. Please consider them when you need energy products and services. And the **Heavy Hitters Club** who donated thirty gifts, all given out at Heather's Rapid-Fire Auction, our new best hits.

HEAVY HITTERS Club

- | | |
|----------------------------|--|
| - AEE NE | Free Round of Golf at NECC for 4 |
| - ENE Systems | \$100 Cash |
| - Johnson Controls Inc. | Driver |
| - National Grid NE | Golf Bag, 3 Boxes Golf Balls and \$100 Cash |
| - Northern Energy Services | \$100 Cash |
| - RISE/Thelisch | \$100 Cash |
| - Sensor Switch | 2 Golf Bags, 1 Driver, 3 Putters, 3 Paragon Wedges |
| - Sensor Switch | 4 Sets Red Sox Towel and Hat |
| - Siemens | \$100 Cash |
| - Suez | \$100 Cash |
| - Trane Company | \$150 Cash |
| - Erwin Watts/Al Bishop | 2 \$50 Gift Certificates |



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KEYNOTE SPEAKERS
INCLUDE:



Salvatore F. DiMasi
*Speaker of the Massachusetts
House of Representatives*



Jim Gordon
*CEO of Cape Wind and
Founder of EMI*



Nick Stavropoulos
*Executive Vice President
U.S. Gas Distribution,
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MASSACHUSETTS energy summit 2008

Choices & Solutions for Businesses

October 9, 2008

DCU Center, Worcester, MA

7:30 am - 3:00 pm

**Don't miss this chance to learn
how your company can become
more energy efficient.**

The price of energy has risen dramatically and every business is looking for ways to save money and be more efficient.

New legislation is setting the groundwork for Massachusetts to be a national leader in energy efficiency and the use of renewable energy.

Job growth in the energy economy promises to be significant - and with the right strategy, can help attract and accelerate growth for Massachusetts employers.

Come hear industry leaders and expert panelists share their knowledge and insights at the 2nd annual Massachusetts Energy Summit.

PANELS INCLUDE:

- Green Building & LEED certification standards - best practices and examples of highly efficient buildings
- Reducing Energy Consumption and Saving Money - specific examples from government and business
- Economic Opportunities: Growing the Energy economy in Massachusetts

For a detailed agenda visit
www.WBJournal.com and click on
the Energy Summit logo in the
upper right corner.

**Admission is
\$55 per person**
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RSVP by October 3rd
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2008-2009 AEE New England Chapter Future Meeting Topics

Month	Topic	Program Manager	Date
October	Leed O&M & Retro Commissioning	Dinesh Patel & Dan Wheatly	Oct 1
November	Sponsor Night & Scholarships	Brian Crafts & Kristine Esdale	Nov 5
December	Green Communities Act	Rich Costello & Sam Nutter	Dec 3
January	Energy Outlook Forum	Rich C., Kathy S., & Steve M.	Jan 7
February	Utility Night/Awards - Emphasis on Lighting	Jim Armstrong & Nelson Medeiros	Feb 4
March	Cogeneration	Sam Nutter & Bob Di Giandomenico	Mar 4
April	Emerging Technologies	Dan Wheatley	Apr 1
May	Site Tour w/ Topic	Steve Di Giacomo	May 6
June	Golf Outing	Joe Hall	TBD

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Upcoming Events From Outside Organizations (subject to change)

ASHRAE Boston: Health – Indoor Environment

Speaker: David Bearg, P.E., CIH – Life Energy Associates

October 14th 6:30 PM

Location: Double Tree Hotel – **Waltham, MA**

Meeting Manager: Jeff Schultz jbs@brplusa.com

<http://www.ashraeboston.org/chapterupdates/calendar.html>

Boiler & Steam Efficiency Workshop

Gillette Stadium – **Foxborough, MA**

October 2nd 8:15 Registration; 8:30 – 5:00 pm

Breakfast & Lunch by National Grid

Registration Deadline Call 866-899-2809 by September 23rd

AEE #37 Facility tour of WGBH

September 30th **Boston, MA**

Speakers: Steve Ragucci

Host: WGBH

Dan Shea cell: 781-439-8891

dshea2003@earthlink.net

5:45 – 8:30

AEE #74 Facility tour of TD Banknorth Garden

September 25th **Boston, MA**

Topic: Benefits & offering of AFE Membership

Host: WGBH

Don Gillis 617-658-7706

gillis@bbri.org

Gathering at 5:00; Tour at 5:30 PM, followed by dinner presentation

Harvard University Center for the Environment

Jon Rowe - Chairman and CEO, Exelon Energy Corporation

Location: Science Center Lecture Hall D, **Cambridge, MA**

October 6, 2008 5 PM

Contact: lisa_matthews@harvard.edu 617-495-8883

Massachusetts Energy Efficiency Partnership (MEEP)

Labs for the 21st Century - Advanced

October 9th **Burlington, MA**

Time: 8:30 AM – 5:00 PM

Online Registration: <http://www.maeep.org/events.cfm?recID=108>

Massachusetts Energy Efficiency Partnership (MEEP)

Steam System Assessment Training

November 3rd **Westborough, MA**

Time: 7:30 AM – 4:00 PM

Online Registration: <http://www.maeep.org/events.cfm?recID=109>

USGBC GreenBuild Conference

Boston Convention and Exhibition Center – November 18th thru 21st

Info: <http://www.greenbuildexpo.org/>

Harvard University Center for the Environment

James Woosley – Venture Partner with VantagePoint Venture Partners

Location: Science Center Lecture Hall D, **Cambridge, MA**

November 19, 2008 5 PM

Contact: lisa_matthews@harvard.edu 617-495-8883

The Green Roundtable - ASHRAE Joint Meeting

<http://www.nexusboston.com/space/events.html/2008/2?>

Massachusetts Technology Collaborative (MTC)

Programs for Business & Individuals

<http://masstech.org/>

Harvard University Center for the Environment

Amory Lovins – Founder & Director, Rocky Mountain Institute

Location: Science Center Lecture Hall B, **Cambridge, MA**

December 3, 2008 5 PM

Contact: lisa_matthews@harvard.edu 617-495-8883