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Commercial Zero Net Energy New Construction in New England February 04, 2015 - 5:30 PM to 8:30 PM

Embassy Suites Hotel and Conference Center
550 Winter Street, Waltham, MA 02451

Locally the Zero Net Energy (ZNE) commercial construction market is expanding. This is marked notably by the recent grand opening for the Commonwealth of MA Wildlife Department's new office building in Westborough. ZNE buildings generate as much power from renewable sources as the building consumes over the course of a year. Many will find this quite unexpected considering New England's cold climate zone and minimal sunshine during the winter season. Despite these odds a number of public and private projects are in various stages of design, construction and operation. They range from MBTA transportation hubs to energy intensive laboratory buildings. ZNE is now even in discussions for public school construction which, if constructed, are considerably larger projects than we have seen to date.

At the meeting you will learn how the challenges of ZNE construction vary from other high performance buildings. You will also learn what is driving the market, about the status of the market today, and get a picture of how this market is expected to grow in the future including the barriers inhibiting even more rapid growth.

Presenters:

Fran Boucher ZNE Technical Lead for National Grid

Fran Boucher is a fifteen year veteran at National Grid with over ten years' experience leading the construction industry regionally and nationally in the design of high efficiency commercial new construction. He has been a member of the Massachusetts Zero Net Energy Task Force and Zero Net Energy Advisory Council since its inception. He works closely with the MA DOER and the RI Energy Advisor Council to help guide policies to support growth of the ZNE market. He has presented on Zero Net Energy issues at a variety of regional and national events over the past year and has been



SAVE THE DATE



**ENERGY AND
PRODUCTS SHOW**

April 8, 2015

2014-2015 Chapter Officers and Board of Directors

(Continued on page 2)

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involved in the planning and design process for several Zero Net Energy commercial projects in recent years.

Martine Dion, AIA, LEED APBD+C



Martine Dion, is Principal and Director of Sustainable Design at SMMA with 22 years of experience. She is the sustainable expert within the firm, providing sustainable design and LEED consulting services to clients. Ms. Dion has been in charge of the implementation and coordination of sustainable design practices for the firm for the past fifteen years and has largely contributed to its consolidation across the firm's A&E disciplines.

She has completed LEED projects and multiple school projects under the LEED for Schools, MA-CHPS and NE-CHPS certification. She is the chairperson of SMMA's Sustainable Design and Energy Efficiency Services. She has contributed to the AIA's National Committee on the Environment, to the Massachusetts State's Roundtable Action Plan for Green Buildings, the Massachusetts Governor Patrick's Zero Net Energy Task Force and Zero Net Energy Advisory Council, as well as the Federal DOE Zero Net Energy Task Force. She recently took part of the workgroup overseeing the new MA Stretch Code, as well as the original and new version of NBI's Advanced Buildings Core Performance Guidelines. She is also a contributor to the Health Product Declaration Initiative and trained under the Living Building Challenge program.

Ms. Dion has made several presentations on sustainable design and LEED projects in the US, Canada, and Asia. She is a frequent speaker to client groups, facilities managers, community officials, and planning committees on sustainable design and energy efficiency. She has been a guest lecturer on sustainable design, sustainable materials and renewable energy at Rhode Island School of Design (RISD), Wentworth Institute of Technology, Northeastern University and University of Massachusetts (UMass). She has contributed to numerous articles on the topic. Martine sits on the NESEA Board of Directors. She is a founding Director of the USGBC Massachusetts Chapter and sits on the USGBC MA Green Schools' committee.

PLEASE REGISTER AND PAY ON-LINE AT <http://aeenewengland.org>

Price: \$55.00 AEE Member ticket
\$45.00 Earlybird rate before January 30

\$55.00 Guest (non-AEE Member) ticket
\$50.00 Earlybird rate before January 30

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Presidents Message



Greetings – February 2015

I am very excited about the New Year and want to share a number of recent developments for AEE-NE in 2015. First of all, at the January Board meeting, we voted in three new Board members. **Please welcome Jodi Beebe, Erin Crafts, and Adam Jennings to the AEE-NE Board!** Adam, Erin, and Jodi all represent different segments of our industry bringing in new perspectives, experience, and enthusiasm to help the Board to continue improving our Chapter.

Our February meeting will feature **Commercial Zero Net Energy Buildings**. Only a concept a few years ago, we are now seeing newly constructed and operating buildings in New England. Plan to learn how it is done on February 4th. We will have presentations from the perspective of the designer, the state, and the utility program manager with some real project data and results to share.

Looking ahead, our March 9th meeting will be the annual joint meeting with ASHRAE. The topic will be **Smart Grid and Utility Programs**.

Mark your calendars: April 8, 2015 AEE-NE Products and Services Show! New to the show this year will be numerous seminars and workshops with the ability to earn CEUs. We have also expanded the show hours to begin at 3pm to provide more scheduling flexibility to attendees. If you are interested in exhibiting at the show and/or if you want to propose a seminar topic contact us at sponsorship@aeenewengland.org

Finally, as we endure the short days and cold nights of a New England winter, we need something warm and green to think about. The AEE-NE Golf Outing will be June 17, 2015 at the Shaker Hills Country Club in Harvard, MA. *Fore!!!*

Once again, Happy New Year!

Regards,

Sam Nutter
Chapter President

Save the Date April 8th for AEE NE **Energy and Products Show**

This year's Products Show will feature the latest energy saving technologies and services at this late afternoon event from 3-7 pm. This opportunity will allow end-users to review products up-close with industry experts with a gourmet buffet. New this year, the Show will feature break-out Workshops. AEE NE Chapter Sponsors will be contacted soon to reserve exhibit space. Next month's Newsletter will open registrations for at-large exhibitors. Questions or want to volunteer? Contact Joe Hall, Mtg. Mgr. at jhall72@verizon.net 774-278-4179.



Job Announcements

Leidos Engineering

Industrial Energy Advisor – Rhode Island and Massachusetts

Leidos, a Fortune 500 company, seeks an **Industrial Energy Advisor** to both market and support energy-efficiency projects with large industrial businesses in Rhode Island and Massachusetts. This exciting position offers a very unique career opportunity for a dynamic person with excellent outreach, sales, communication and organizational skills to promote energy efficiency projects to large industrial customers. The person in this position broadly markets a successful utility program to large industrial customers and will require the ability to identify efficiency opportunities, calculate energy savings, maintain customer relationships, and deliver presentations. The candidate should have basic general knowledge of building systems, industrial systems, construction practices, and/or the energy efficiency industry. Must be highly motivated, well organized, self-starting, have strong written and verbal communication skills, and work well in a team setting. **Experience as an Industrial Energy Manager is desired.**

Qualifications

Must be able to utilize initiative to develop relationships with industrial customers and vendors, and demonstrate knowledge of energy efficiency technologies and practices. Industrial experience and an engineering degree is highly preferred. The ability to be self-motivated and work within a team is critical to be successful for this work. This position requires a valid driver's license and physical ability to perform energy audits and field verifications of the installation of energy efficiency measures.

Education

Four-year degree and at least 10 years of relevant experience such as with energy programs, utility account representation, or in manufacturing. Excellent written and verbal communications are essential. Industrial experience and an engineering degree is preferred.

Contact Ron Gillooly at (508) 922-6835 or ronald.c.gillooly@leidos.com

For a listing of all positions posted through AEE-NE please check our job board:

<http://aenewengland.org/classifieds.php?type=job>

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2014-2015 AEE New England Chapter Future Meeting Topics

(subject to change)

Topic	Date	Location
Commercial Net Zero Energy Buildings	February 4 th	Waltham
Smart Grid and Utility Program Updates	March 4 th	Waltham
Annual AEE-NE Energy Product & Services Showcase	April 8 th	Waltham
AEE-NE Energy Awards	May 6 th	Waltham
15 th Annual AEE-NE Golf Outing	June 17 th	Harvard, MA

Upcoming Events & Energy Connections

(subject to change)

Massachusetts Department of Energy Resources

<http://www.mass.gov/eea/energy-utilities-clean-tech/energy-efficiency/>

This agency oversees all the efficiency and renewable energy programs in the Commonwealth of Massachusetts. Their website has much information on programs, grants, and policy developments that impact our industry.

Massachusetts Energy Efficiency Advisory Council (MA EEAC),

<http://www.ma-eeac.org/>

Date: Jan 13, 2015

Topic: EEAC Meeting s 1-5 PM

The EEAC works with the MA utilities and Program Administrators to establish and oversee the goals and budgets of the MA energy efficiency programs.

Clean Energy Center – Clean Energy and Affordable Housing Symposium and Expo

(<http://www.masscec.com/>)

January Calendar of events Link - <http://www.masscec.com/events/month/2015-01>

Dates: Jan 28th "Vancouver Exchange Mission"

Rhode Island Office of Energy Resources

<http://www.energy.ri.gov/index.php>

Register for email notifications of upcoming events-

<http://www.energy.ri.gov/meetings/>

This agency oversees all the efficiency and renewable energy programs in Rhode Island. Their website has much information on programs, grants, and policy developments that impact our industry.

Rhode Island Energy Efficiency and Resource Management Council

<http://www.riermc.ri.gov/>

The RIEE&RMC works with National Grid (the only RI utility) and other stakeholders to establish and oversee the goals and budgets of the RI energy efficiency programs.

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Efficiency Maine

<http://www.efficiencymaine.com>

This is the statewide energy efficiency agency for Maine that offers rebates, incentives, and other programs for businesses and consumers. Their website also has information about trainings and links to other resources.

Restructuring Roundtable

<http://www.raabassociates.org/main/roundtable.asp>.

The Restructuring Roundtable is held 5-6 times per year and presents current topics related to energy efficiency, energy supply, renewable, and public policies. These events are free to the Roundtable Sponsors but require a fee for the general public. Everyone must preregister. <http://clickstreamtv.com/raabevents/> Online streaming is also available.

Northeast Commerce and Energy Association (NECA)

http://www.necanews.org/events/event_details.asp?id=427742

NECA promotes environmentally sound, reliable and cost-effective wholesale and retail markets for the production and delivery of electric power supply, as well as competing energy services and resource alternatives, including conservation, innovative demand-side and power delivery technologies, renewable energy and distributed generation.

Affordable Comfort Institute (ACI)

<http://www.affordablecomfort.org>

Announcing the merger of merger of **Affordable Comfort, Inc. (ACI)** - <http://www.affordablecomfort.org> and the **National Home Performance Council (NHPC)** - <http://www.nhpci.org/>, the Home Performance Coalition unites the many voices of the home performance and weatherization industry, analyzes industry trends and issues, provides education to advance the standards and practices of our industry, and supports collaboration and business development through all sectors. The Home Performance Coalition is currently creating a new website to meet the needs of home performance and weatherization professionals from every sector and will be launching it right here at www.homeperformance.org very soon.

Feb 2, 2015 - Seattle WA - 2015 ACI Northwest Regional Home Performance Conference

ASHRAE Boston-Monthly Meeting

Date: Tuesday, February 10 - Embassy Suites, Waltham MA

Topics: Air-to-Air Energy Recovery (main meeting) & Energy Modeling of DOAS & VRF (tech session)

<http://www.ashraeboston.org/upcoming-events/calendar.html>

AFE Chapter 33: Monthly Meeting

Date: TBD

Topic: Tour (TBD)

<http://www.afechapter33.org/>

AFE Chapter 74: No Monthly Meetings will be held in November and December

Date: Feb Tour (exact date TBD)

Topic: Tour of Mt. Wachusett Community College Wind & Solar - Worcester, MA

<http://afe74.org/>