District Cooling Plant Tour

Northwind Boston is developing a network of ice based district cooling facilities in Boston. Northwind’s first plant, the Back Bay West Energy Center (BBW), is nearing completion. Please join us for a tour of the BBW at the October meeting.

The BBW is capable of providing 9,600 tons of refrigeration capacity into the distribution system during peak periods. Three 2000-ton screw compressors operate in conjunction with 33,000 ton hours of thermal storage units, in order to produce this level of output. The BBW was designed using industrial design standards with an emphasis on reliability and energy efficiency.

The primary difference between the BBW and other large commercial air conditioning plants is that the BBW is a field-erected refrigeration system. For example, the system contains 75,000 pounds of R-22 refrigerant, and its largest refrigeration refrigerant line is 20 inches in diameter. The BBW will be controlled by a industrial process control system.

Located within The First Church of Christ, Scientist, the BBW is utilizing space that was formerly paper storage and a printing facility. The BBW will provide chilled water to customers in the Back Bay area of Boston. This project demonstrates the ability to integrate the development of a district cooling facility within an existing, architecturally renowned building while maintaining all prior architectural standards.

The presentation will be given by John Grayson, Director of Sales for Northwind, Dinesh Patel, Project Engineer, and Chris Hastings, Associate at R.G. Vanderweil Engineers

DIRECTIONS

From the Mass Pike East
Take Exit 22 (located in the Pru Tunnel)
Follow signs for Prudential Center
Take first right on Belvidere St.
The Hilton’s driveway will be one block up on left, just after Dalton St.

WEDNESDAY
OCTOBER 7, 1998

Location
Back Bay Hilton
40 Dalton Street
Boston, MA
617-236-1100

Registration & Social Hour
5:30 PM
Buffet: 6:00 PM
Presentation: 6:30 PM
Plant Tour: 7:00 PM

SPACE LIMITED
RESERVATIONS REQUIRED
781-446-0125
$ 30 per person
$ 15 per student with ID
New England Association of Energy Engineers

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President’s Message

Hope you all had a good summer and are ready to get all those numbers up for the fourth quarter. Those of us on the Board of Directors kept busy this summer planning the 98/99 season’s meetings and seminars. We think you will be pleased with planned topics which include an Energy Procurement Round Table, Compressed Air Technologies, Efficient Boiler Technologies and Controls, the Annual Chapter Sponsor Night and Trade Show and some very interesting field trips. The full schedule and meeting dates can be found in this newsletter.

October’s meeting will be a plant tour of the Northwind district cooling plant located in Boston. The plant is nearly operational and by all accounts is quite impressive. We hope you will be able to join us on this interesting tour.

Also during October, the New England Chapter is sponsoring a two day seminar entitled The Fundamentals of Energy Management. The seminar is a two day preparatory course for the Certified Energy Manager (CEM) examination. The CEM exam will be given on the day after the seminar. The CEM certification is recognized throughout the industry and is becoming a prerequisite in job descriptions and a specified requirement in various governmental and utility programs. We encourage you to take advantage of this unique opportunity to attend the seminar and take the exam in your own backyard.

David S. MacIntosh P.E.

David
1998 Chapter President
Fundamentals of Energy Management and the CEM exam

The Certified Energy Manager (CEM) Certification is AEE’s most widely recognized professional certification. It is becoming a prerequisite in job descriptions and a specified requirement in various governmental and utility programs.

The objectives of the certification are to raise the professional standards and improve the practice of energy management by encouraging individual in a continuing program of professional development; to identify and recognize those persons with acceptable knowledge of the principles and practice of energy management and related disciplines.

- Course cost $535 including Breakfast & lunches. (normal cost $795-$895)
- Recommended Text Books not included, cost $170 (normal cost $198)
- Class size is truly limited to enhance instructor/attendee interaction.
- Registration will be on a first come, first served basis.
- Register now to reserve your seat. See the registration instructions below.
- Save on the course fees and travel costs!!!
- Take advantage of this opportunity!!!
- Class date: October 15 and 16
- Exam: October 17 (four hours 200 multiple choice energy engineering questions)
- Location: Energy Vision, One Burlingtonwoods, Burlington, MA
- Instructor: Mr. Barney Capehart

The New England Chapter of the Association of Energy Engineers is hosting this two day seminar for local members and other professionals.

Your registration fee of $535 includes course materials as well as CEM application fees.(excluding textbooks)

The Seminar with Barney Capehart, is an intensive two day course which provides a thorough review of the basics of energy efficiency and their application to HVAC, building and utility systems. Topics covered include Application of Life Cycle Costing, Energy Audits, HVAC Systems, Boilers, Chillers, Controls and Control Schemes. For your convenience the CEM examination will be administered on the day immediately following the seminar.

The recommended text books are:
- Handbook of Energy Engineering (Thuman/Meha) $68
- Energy Management Handbook - Dr. Wayne Turner - $102

Your references materials which will be sent out to you will contain further information on how to obtain these books in a timely manner.

For more information call the AEE hot line at 781-446-0125. See Registration Form on back cover of this newsletter.
SALES ESTIMATOR - HVAC CONTROLS
BCM Controls is a leader in the design and installation of custom Integrated Building Automation Systems including HVAC, Lighting, Access Control and Video applications. Due to continuous growth, we are seeking a motivated individual to provide technical support, applications engineering and pricing for the sales staff. Experience using spreadsheet software and reading HVAC and Electrical prints/schematics a must. Potential for growth into sales or project management positions.

Mail or fax resumes to:
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Woburn, MA 01801
Fax: 781-932-3856.

AEE UPCOMING MEETING'S & EVENTS

OCTOBER
October 7: Northwind District Cooling Plant Tour
October 15, 16 & 17: Fundamentals of Energy Management and CEM Exam

NOVEMBER
Chapter Sponsors Night

DECEMBER
AEE / ASHRAE Joint Meeting

JANUARY
Compressed Air Technology

FEBRUARY
Energy Procurement Round Table