

RCM NEWS

RCM News for January 2012

A newsletter for Resource Conservation Managers in the Northwest

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Conference Update

[The 2012 Energy/Facilities Connections Conference](#) taking place May 9-11, 2012 in Leavenworth, WA is now open for registration. This WSU Energy Program Plant Operations Consortium event features hands-on workshops, lectures, panel discussions, and plenty of networking, focused on facilities maintenance, building energy efficiency, plant operations, and more.

Energy Audits

"[After the Energy Audit](#)," by Jennifer Woofter, was included in the October 2011 issue of *Buildings*. The author discusses next steps and how to accomplish them. The first thing is to understand the data collected – what they mean and how they can be used in an effort to save energy – and, second, to understand the calculations used for estimations made in the absence of hard data. Also, password access to the raw data is essential. Next, it is crucial to understand the audit recommendations as well as their financial costs, before choosing courses of action and prioritizing them. An implementation plan has to be developed, and champions for the plan have to be found – toward that end the article includes a sidebar, "Recruiting Your Green Team."

Energy Management

"BAS/EMS" is a three-part article by Rita Tatum, Contributing Editor for Building Operating Management; it was published in the October 2011 issue of *Building Operating Management*.

Part 1 is [Facility Managers Can Boost BAS/EMS Performance with New Tools, Capabilities](#). The author explains the general advantages of building automation and energy management systems (BAS/EMS) which include tenant comfort and the control of utility and labor costs. Newer systems, he notes, have improved diagnostic capabilities; they are able to diagnose potential problems before they have the opportunity to become calamities.

Part 2 is [Real-time Information is Big Advantage of Modern BAS/EMS Systems](#). The value here is that computer dashboards offer information "enterprise-wide," that is, to all parts of a company, and in ways that can be adjusted for usability. Part 2 includes a sidebar, "Four Big Changes Are Reshaping BAS/EMS."

Part 3 is [Advanced BAS/EMS Operations Still Need Staff Oversight](#). While BAS/EMS can help avoid some labor costs, other highly technical workers are needed to keep these systems running optimally.

HVAC/R (Heating, Ventilation, Air Conditioning, and Refrigeration)

"[Hydronic Equipment, Web-Based Controls Earn High Marks from Boarding School](#)," by staff, was published in the October 2011 issue of *HPAC Heating/Piping/AirConditioning Engineering*. This is a case study of an in-progress retrofit of the HVAC system of The Williston Northampton School in Easthampton, Massachusetts. Two of the three planned phases of the project are complete.

"[Green HVAC: Flattening the Learning Curve](#)" is a two-page-article published in the December 14, 2011 issue of *HPAC Heating/Piping/AirConditioning Engineering – Fastrack*. It is co-authored by Clyde Ford, Project Manager, and by Shane Stanfield, LEED BD+C, Project Engineer; both of Southland Industries. Page one is a discussion of the HVAC-technology options that drive new building design and existing building renovation. Page two of the article features two case studies.

Lighting

"Tips for Evaluating New Lighting Technologies" is a four-part article by Lindsay Audin, Contributing Editor, *Building Operating Management*; it was published in the November 2011 issue of that trade journal:

Part 1 is [Education, Analysis Help When Evaluating Lighting Technologies](#). Part 1 mentions the directional nature of LEDs which is, often, an advantage. [Note that the article, immediately above – "[Advanced LED Downlighting System](#)" – shows that designs are under development to counter that for applications where indirect lighting is desirable.] There is, also, discussion of the difficulty in comparing lighting efficacy – and about new metrics that aim to address that problem – and a similar problem in determining color consistency.

Part 2 is [How to Take a Close Look at Claims about New Lighting Technologies](#). The newer Lighting Facts label from the U.S. Department of Energy is compared to the older Energy Star label. Additionally, lighting-controls vendors' claims are discussed, especially, in terms of ROI (return on investment) and payback periods.

Part 3 is [How to Evaluate Cutting Edge Lighting Technologies](#). Part 3 may help the facilities manager make balanced and reasonable purchases when considering the purchase of a new lighting technology.

Part 4 is [Consider All Factors When Evaluating LED Lifetimes](#). LED lighting is improving, but it is, still, relatively new. In some cases, an older, established technology will better satisfy the lighting need.

Job Opportunities

Energy Manager to provide comprehensive energy management services. Position is onsite with a Redhorse Corporation customer in the Seattle area. Minimum five years experience required. For job description contact ben.hough@redhorsecorp.com.

Energy Manager with King County Dept. of Natural Resources and Parks. First screening of applications is Feb. 9, 2012. [Click here for more information](#).

Upcoming Events & Training Opportunities

First Thursday Seminars – FEMP trainings

No cost monthly training by U.S. Dept. of Energy's Federal Energy Management Program.

- New Lighting Technologies – Feb. 2, 2012
- High Density Data Center Cooling and New ASHRAE Standards – Mar. 1, 2012

http://apps1.eere.energy.gov/femp/training/first_thursday_seminars.cfm

Energy Star (and Energy Star Portfolio Manager) Training

Free online training to help you improve energy performance. Live web conference schedule:

- K-12 Benchmarking 101 – Feb. 7, 2012
- Benchmarking in Portfolio Manager for State and Local Governments, and EECBG grantees – Feb. 14, 2012 and Mar. 1, 2012
- Setting Energy Use Targets with ENERGY STAR – Feb. 15, 2012
- Computer Power Management with ENERGY STAR – Feb. 21, 2012
- Best Practices to Improve Energy Performance in Commercial Buildings – Feb. 22, 2012
- Benchmarking Water/Wastewater Treatment Facilities in Portfolio Manager – Mar. 15, 2012

<https://energystar.webex.com/mw0306ld/mywebex/default.do?siteurl=energystar>

AEE (Association of Energy Engineers) Realtime Online Seminars

Live interactive courses you can take from your computer. Programs are generally two to three hours long, over a period of days. Dates following course names below are start dates.

Below is a sampling of courses – refer to website for complete list.

- Choosing and using Lighting Controls – Feb. 9, 2012
- Thermodynamics Principles & Practices – Feb. 13, 2012
- Advanced Lighting Retrofit Options – Feb. 13, 2012
- CEM Preparatory Course for Energy Managers – Feb. 15, 2012
- Energy Auditing Fundamentals – Feb. 15, 2012

<http://www.aeepgrams.com/realtime/>

Building Operator Certification (BOC) Technical Webinar Series

The 2012 BOC live technical webinars series focuses on high performance HVAC equipment. Open to all, BOC graduates receive continuing education credits.

- Condensing Boilers – Feb. 15, 2012
- Ground Source Heat Pumps – Mar. 14, 2012

<http://www.theboc.info/m-live-webinars.html>

Portland General Electric Seminars and Webinars

Portland General Electric offers educational seminars and webinars free of charge to its commercial, industrial, and institutional customers. Similar customers of other utilities are welcome to attend for a small fee. Topics include energy management, lighting, commercial and industrial systems, as well as special topics such as water, smart grid, and leased space issues.

- Webinar – Intro to HVAC & Building Tune-Ups for Energy Savings – Feb. 15, 2012
- Webinar – Intro to Efficient Lighting & Controls – Feb. 22, 2012
- Improve EE in your Building – HVAC, Tune-Up, & Commissioning – Mar. 8, 2012 in Wilsonville
- Fundamentals of Efficient Lighting & Controls – Mar. 14 in Portland

See website for more events.

Portland General Electric, Energy Trust of Oregon, NEEA, Better Bricks

http://portlandgeneral.com/business/news_classes/classes/docs/class_schedule.pdf

Building Operator's Certification

- Washington State
 - Level I – April 19, 2012 through Oct. 11, 2012 in Everett, WA
 - Level I – May 1, 2012 through Oct. 30, 2012 in Lacey, WA
 - Level II – tentatively scheduled starting fall 2012 in Renton
<http://www.theboc.info/wa/wa-schedule.html>
- Oregon
 - Level I – Feb. 21, 2012 through Jun. 7, 2012 in Pendleton, OR
 - Level I – April 10, 2012 through Sept. 2012 in Medford, OR
 - Level I – April 2012 through Sept. 2012 in Portland, OR
 - Level II – April 2012 through Sept 2012 in Portland, OR
http://www.nweei.org/images/pdf_files/current_master_oregon_sched.doc
- Free Informational BOC Web Cast – Feb. 8, 2012

2012 Energy/Facilities Connections Conference

- May 9-11, 2012 in Leavenworth, WA

Registration now open for this invaluable annual conference that brings together experts and colleagues for workshops, hands-on training, networking, and useful information related to facilities and energy.

<http://www.energy.wsu.edu/PublicFacilitiesSupport/PlantOperations.aspx>

West Coast Energy Management Congress

- May 23-24, 2012 in Seattle, WA

Energy conference and technology expo.

<http://www.energyevent.com/>

Resources for You

Energy Experts eNews

You can now get energy-related news from EnergyExperts.org and other energy-related organizations on Facebook and Twitter. <http://www.energyexperts.org/NewsFeeds.aspx>

Sustainability "How-To Guide" Series

The International Facility Management Association (IFMA) produced the "No Cost/Low Cost Energy Savings Guide", derived from a BetterBricks article, to target the four top savings opportunities in commercial buildings. The guide contains information, data, and templates in order to help identify problems and implement solutions. IFMA provides resources and educational opportunities to facility management professionals. Other guides in the series include EPA's Energy Star Portfolio Manager, Food Service, Global Green Cleaning, and Commissioning Existing Buildings, to name a few.

<http://www.ifmafoundation.org/documents/public/NoCostLowCostGuide.pdf>

Energy Events Calendar

<http://www.energyexperts.org/TrainingEducationandEmployment/EventsCalendar.aspx>

Washington RCM Support

Washington State University Energy Program RCM Support

Check out the "RCMx". We appreciate any feedback on this site and would also appreciate items to add to our resources such as tools, examples of policies, and job descriptions.

<http://www.energy.wsu.edu/PublicFacilitiesSupport/ResourceConservation/RCMx.aspx>

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Previous issues of RCM News may be viewed at <http://www.energy.wsu.edu/PublicationsandTools.aspx> (click on Resource Conservation in the right hand column).

We welcome comments or ideas for articles. Please send to Karen Janowitz - janowitzk@energy.wsu.edu

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 EXTENSION ENERGY PROGRAM

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