

# RCM NEWS

## RCM News for February 2013

A newsletter for Resource Conservation Managers in the Northwest

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### Green Cleaning

"Green Cleaning" was written by Casey Laughman, Managing Editor, *Building Operating Management*, and published in three parts in the December 2012 issue of that journal. It explains the enhanced effect of green cleaning when it is integrated with a general sustainability plan, cites a particular example of that integration, and lists several standards associated with green cleaning and the differences among them:

[Part 1: Green Cleaning Programs Offer Greater Efficiency as Part of Overall Sustainability Plan](#)

[Part 2: Western Michigan University's Green Cleaning Program Helps in Push for LEED Certification](#)

[Part 3: Green Cleaning Standards Help Ensure Contractors Meet Cleaning Goals](#)

### Green Products

"[PCRs, LCAs and EPDs: Spelling It Out](#)" was authored by Jane Wilson, MPH, Director of Standards, NSF International; it was published in the December 2012 issue of *Interiors & Sources*. From seating to flooring, Product Category Rules (PCRs), Life Cycle Assessments (LCAs), and Environmental Product Declarations (EPDs) work together to help compare and specify green products. This article covers what the potential buyer needs to know about the process.

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

"HVAC" was written by David P. Callan, P.E., CEM, LEED AP, Senior Vice President; and Kyle Hendricks, LEED AP O+M, Project Manager – both of Environmental Systems Design. It was published in the January 2013 issue of *Building Operating Management*. "Drift" is the word often used to identify the changing performance of HVAC systems from high, when new, to progressively lower levels as time goes on. Drift is attributed, in part, to ever-increasing complexity in the systems that require ever-more sophisticated responses by human operators to deviations in performance. Another reason for drift is complex HVAC system control logic; while there is complexity in other HVAC components, the HVAC control system must be an exception to that. How to minimize drift with financing is also covered:

[Part 1: Why HVAC Performance Gets Worse Over Time](#)

[Part 2: Measures To Optimize HVAC Systems Include Energy Audits and Commissioning](#) – Part 2 includes the sidebar "10 Standard Measures to Optimize Any HVAC System"  
[Part 3: Utility Rebate Programs Can Help Fund HVAC Audits, Commissioning](#) – Part 3 includes the sidebar "Prove It! Stats on Commissioning."

## Lighting

"Close-Up: Safety/Security Lighting" was authored by Maryellen Lo Bosco, Contributing Editor for *Building Operating Management*; it was published as a two-part article in the December 2012 issue of *Building Operating Management*. Ensuring the safety of users of outdoor spaces requires a different kind of lighting than is needed for their security; in neither case is excessive lighting helpful:

[Part 1: Outdoor Lighting for Safety and Security Is a Complicated Matter](#)  
[Part 2: Excessive Lighting Does Not Improve Safety, Security](#)

The following two articles on lighting in a distributed energy environment appeared in the November/December 2012 issue of *Distributed Energy*:

1. "[Illuminating Center Stage](#)," by Ed Ritchie, is a three-Web-page article focusing on the technologies, the voluntary and mandated standards, and the incentives and legislation that are driving the dash to lighting efficiencies in new construction and retrofits. The education sector is expected to continue to take advantage of the savings from lighting efficiencies. Those in the commercial sector who recognize that higher-quality lighting results in higher production by workers are expected to benefit greatly.
2. "[Upgrading to Savings](#)," by Dan Rafter, is a four-Web-page article that features several facilities including Sam Houston State University and the San Francisco Federal Building, whose lighting systems have yielded dramatic energy savings with short paybacks. The commercial sector is said to lag behind education and government in advanced lighting installations because so many commercial building owners do not compute the full value of their efficiencies.

## Ventilation Fact Sheets

The Washington State University Energy Program recently created two very informative and easy-to-read fact sheets about ventilation—invaluable tools for anyone. Check them out online by accessing the [RCM web page](#) and clicking one of the icons on the right-hand side.

## Upcoming Events & Training Opportunities

### AEE (Association of Energy Engineers) Real-time Online Seminars

Webinars and live interactive courses you can take from your computer. Programs are generally two to three hours long, over a period of days. Visit their website for a complete list:

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

### Organizing and Interpreting Data from a Logger

How to organize and interpret data from a data logger.

- Mar. 13, 2013 online webinar

[Click here for more information](#)

BOC

### ENERGY STAR® Webinars

- Financing Energy Efficient Upgrades with ENERGY STAR® – Mar. 5, 2013
- Benchmarking Water/Wastewater Treatment Facilities in Portfolio Manager – Mar. 14, 2013

[Click here for information](#)

US EPA

### Portland General Electric Seminars and Webinars

Portland General Electric offers online webinars and paid courses open to everyone, and seminars and workshops free of charge to its commercial and industrial customers.

- HVAC, Building Tune-Up & Commissioning – Mar. 7 in Portland
- Better Lighting, Lower Costs – Mar. 13 in Portland

[PGE Energy Education Center webpage](#)

Portland General Electric, Energy Trust of Oregon, NEEA, BetterBricks

### Building Operators Certification

BOC Level I certification is 74 hours of training and project work in building systems maintenance. Level II certification is 61 hours of training and elective coursework in equipment troubleshooting and maintenance. Classes are usually one or two full days a month.

- **Washington State**
  - Level I – Apr. 3 through Oct. 10, 2013 in Seattle
  - Level I – Apr. 24 through Oct. 24, 2013 in Spokane
  - Level I – May 14 through Sept. 17, 2013 in Redmond
  - Level I – May 21 through Nov. 5, 2013 in Renton
  - Level I – Sept. 17, 2013 through Mar. 5, 2014 in Tri-Cities
  - Level I – starting Sept 2013 in Olympia
  - Level II – Oct. 2, 2013 through Feb. 12, 2014 in Lacey
  - Level II – Oct. 3, 2013 through Feb. 13, 2014 in Everett

<http://www.theboc.info/wa/wa-schedule.html>

- **Oregon**
  - Level I – Mar. 21 through Jul. 13, 2013 in Salem
  - Level I – Apr. 9 through Jul. 23, 2013 in Bend
  - Level II – Apr. 11 through Jun. 27, 2013 in Pendleton

[Click for BOC Oregon information](#)

*Building Operators Certification*

### 9<sup>th</sup> Annual Energy/Facilities Connections Conference

“From Coveralls to the Corner Office” is the title of the 2013 conference, which is a 2½ day event bringing together experts and colleagues for workshops, hands-on training, networking and useful information related to facilities and energy.

- May 7-9, 2013 in Leavenworth, WA

[Click for registration information](#)

WSU Energy Program

### 2013 Powerful Business Energy Conference

This conference is designed for commercial building owners and managers, building operations and engineering staff, architects, consulting engineers, property developers, and others interested in cost-effective opportunities in commercial energy efficiency. Essential energy-related ideas and operating tips will be taught in four tracks.

- May 23, 2013, Meydenbauer Center, Bellevue WA

Conference information:

[https://netforum.avectra.com/eWeb/DynamicPage.aspx?Site=ELPN&WebCode=EventDetail&evt\\_key=a695e092-e415-4635-86e9-1770299a8eef](https://netforum.avectra.com/eWeb/DynamicPage.aspx?Site=ELPN&WebCode=EventDetail&evt_key=a695e092-e415-4635-86e9-1770299a8eef)

*Electric League of the Pacific Northwest*

## Resources for You

### State and Local Energy Efficiency Action Network (SEE Action)

SEE Action is a state- and local-led effort facilitated by the U.S. Department of Energy and the U.S. Environmental Protection Agency to take energy efficiency to scale and achieve cost effective energy efficiency by 2020. SEE Action offers publications, events, and technical assistance to state and local decision makers.

<http://www1.eere.energy.gov/seeaction/>

### Energy Events Calendar

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

### Washington RCM Support

The Washington State University Energy Program provides RCM support.

Check out the "RCMx" website:

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

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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](mailto:janowitzk@energy.wsu.edu)

