

RCM NEWS

RCM News for September 2016

A newsletter for Resource Conservation Managers in the Northwest

In this issue:

Energy Benchmarking

HVAC

Lighting

Utility Incentives

➔ **Job Opportunities**

Upcoming Events & Training Opportunities

Resources for You

While every URL in RCM News is checked for accuracy prior to distribution, URLs may change, and servers may temporarily fail to connect to working URLs.

Energy Benchmarking

A three-part article on “Energy Benchmarking”, written by Richard G. Lubinski for the September 2016 issue of *Building Operating Management*, looks at the increased use of Portfolio Manager, required by some local and state governments, to benchmark energy use. Portfolio Manager uses an Energy Use Index (EUI) to measure energy use because it allows comparison across different regions and markets. Making benchmarking mandatory is the first step to reducing energy use, and has already been proven to work. Benchmarking also helps determine the effectiveness of energy projects.

Part 1: [How Energy Benchmarking Leads To Real Energy Savings](#)

Part 2: [Pros and Cons of Using EUI In Energy Benchmarking](#)

Part 3: [Energy Benchmarking: Avoid Costly Fines For Failing To Comply](#)

HVAC

“HVAC” is a four-part article in the September 2016 issue of *Building Operating Management*, written by David Callan. When using an integrated approach to design an HVAC system for a new building or a renovation, consideration must be given to the climate of the area, building envelope, materials to use, aesthetics, and the needs of the tenants. Centralization and decentralization of HVAC systems both have their pros and cons.

Part 1: [Integrated HVAC Design: Materials, Systems, and Programming Must Work in Concert](#)

Part 2: [HVAC Systems: To Centralize or Decentralize?](#)

Part 3: [The Right Way To Tackle HVAC Renovation Challenges](#)

Part 4: [Don't Fail These HVAC Design Tests](#)

Lighting

“Suppliers Perspective: Lighting”, is a four-part article written by Dave Lubach, Associate Editor, and published in the September 2016 issue of *Facility Maintenance Decisions*. As the cost of LED technology continues to drop, the myth of LEDs being too expensive no longer holds true. Because LEDs are digital,

they allow for greater use of controls and increased flexibility in facilities. Specifications to consider when purchasing for a specific area include color temperature, lumen output, and controls.

Part 1: [LEDs: Manufacturers Help Sort Through Misconceptions](#)

Part 2: [Specification Tips for LEDs](#)

Part 3: [LED Options Continue to Expand](#)

Part 4: [Energy Star: Steps to a Successful LED Project](#)

[“Put Safety First in LED Installations”](#), written by Carl Weinschenk for the September 27, 2016 online edition of *Energy Manager Today*, emphasizes the importance of following rules when installing LEDs, as well as being careful about LED purchases. Some LED fixtures are not UL certified, or are mislabeled, and could potentially cause injury. An overview of LED retrofits written by UL and pictures of badly installed LEDs can be accessed through links in the article.

Utility Incentives

A two-part article on “Utility Programs”, written by Karen Kroll for the September 2016 *Building Operating Management*, describes the increase of diverse energy efficiency programs offered by utilities. In addition to rebates, which still have the largest share, other utility incentives to increase energy efficiency and lower building costs include demand response programs, support for commissioning, and strategic energy management, which focuses on more than just equipment. Resource conservation manager programs [which many of you reading this are a part of] are also supported by some utilities.

Part 1: [Rebates and Beyond: An Array of Utility Programs Can Help FMs Save Money](#)

Part 2: [Demand Response, Commissioning, and Training: Utility Partnerships](#)

Job Opportunities

Resource Conservation Manager

Snohomish School District, based in Snohomish, WA, is hiring a Resource Conservation Manager to manage the school district’s conservation programs. Responsibilities are many, including working with utilities, benchmarking, tracking, and analyzing utility data for facilities, carrying out the energy resource district policy, working with HVAC technicians, complying with OSPI requirements, and designing and implementing energy saving strategies as well as educational opportunities.

Apply online and view the job description at <https://snohomishjobs.hrmlplus.net/JobOpenings.aspx>.

Click on the Administrator/Supervisor category.

Position is open until filled.

Resource Conservation Coordinator

Shoreline Public Schools in Washington State is hiring a Resource Conservation Coordinator to manage utility usage and develop initiatives to promote environmental stewardship and minimize operating costs. Responsibilities include monitoring, tracking, evaluating, and reporting utility usage, developing a utility tracking system and conservation strategies, and providing training to district employees.

Apply online at <http://www.shorelineschools.org/jobs>.

At the website, select FastTrack, select Click to View Current Job Openings, then scroll down to the Professional Technical Category.

Position is open until filled.

Upcoming Events & Training Opportunities

[Give feedback now on new ENERGY STAR® Commercial Building Recognition](#)

➔ Respond by September 30

[Click here for link and more information](#)

US EPA

Better Buildings Webinars

- Working with Your Communications Team to Tell Your Energy Efficiency Success Story – Oct 4
- The Why and How of Sub-metering Energy and Water Use in Buildings – Nov 1

[Click here for more information](#)

Better Buildings, U.S.DOE

Portland General Electric Education

Classes and workshops are free to PGE customers, others may attend based on space, fee applies.

- Advanced HVAC Systems – Oct 4 in Wilsonville
- Heating System Efficiency – Oct 5 in Wilsonville
- Chilled Water Systems – Oct 6 in Wilsonville
- Taking Sustainability to the Next Level – Oct 13 in Hillsboro
- Discover the Power of Energy Monitoring Workshop – Oct 18 in Wilsonville
- Saving Energy through Operations & Maintenance – Oct 20 webinar
- Calculate Your Energy Costs and Save – Oct 26 in Portland
- What is Power Quality & Why It's Important – Oct 27 online

[Click here for more information](#)

PGE, Energy Trust of Oregon

The New Landscape of Energy Efficiency: Utilities, Incentives, and HVAC Innovations

CEUs available where appropriate, and upon completion of webinar and quiz.

- Oct 4 online

[Click here for more information](#)

Forester University

Northwest Energy Efficiency Council and Association of Energy Services Professionals Networking Event

Includes a tour and discussion of the Urban Smart Bellevue collaborative, and a NEEC Power Hour. Free event but space is limited.

- Oct. 11 at Bellevue City Hall

[Click here for more information](#)

AESP Evergreen Chapter, NEEC

BOC Building Tool Diagnostic Webinars

CEUs available where appropriate, and upon completion of webinar and quiz.

- Managing Water Use in your Facility – Oct 13

[Click here for more information](#)

Builder Operator Certificate

School Environmental Health and Safety Workshop

Free one-day workshop held across Washington state. Includes indoor air quality concerns.

- Oct 19 in Vancouver
- Oct 20 in Wenatchee
- Oct 25 in Yakima
- Oct 26 in Pasco
- Oct 27 in Spokane
- Nov 1 in Tumwater

- Nov 2 in Redmond
- Nov 7 in Renton
- Nov 8 in Bremerton
- Nov 9 in Anacortes

[Click here for more information](#)

WA State Dept of Health

ENERGY STAR® and Portfolio Manager® Trainings

All are online webinars.

- Portfolio Manager 101 – Oct 25
- Portfolio Manager 201 – Oct 26
- Portfolio Manager 301 – Oct 27
- Ask the Expert – Every Wednesday at 9:00 AM Pacific time

[Click here for more webinars and information](#)

US EPA

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 usually meet one or two full days a month over a period of four to six months.

All dates below are for the first class.

- Washington State
 - Level I – March 2017 in Seattle
 - Level I – May 2017 in Olympia
 - Level I – Sept 2017 in Renton
 - Level I – Oct 2017 in Everett
- Oregon
 - Level I – Oct 5, 2016 in Tigard/Portland

[Click for BOC Washington State information](#)

[Click for BOC Oregon information](#)

Building Operators Certification

Washington's Energy Future Conference

This is the seventh year of this annual conference.

- November 1 in Seattle

[Click here for more information](#)

Northwest Environmental Business Council

Resources for You

Celebrate Shop Talk and WSU Energy Program

Celebrate 20 years of the WSU Energy Program's Plant Operations Support Consortium with an expanded 16-page newsletter of [Shop Talk](#). Read about the history of the Consortium and changes over the years, as well as changes in facilities and facility management. Current articles also include the emphasis of "clean" for custodial services operations and considerations for onsite management of organic materials can. Did you know that the WSU Energy Program is also celebrating its 20 year anniversary? Read about our beginning and history too!

Smart Building Tools

Check out the [list of tools](#) you can borrow from the Tool Lending Library at the Smart Buildings Center in Seattle. Meters galore, loggers and power loggers, leak detectors, air flow tools, IR cameras, and more. [Read the information](#) on how to borrow tools as well as notes on how to use them and links to videos. The Smart Building Center is a program of the Northwest Energy Efficiency Council.

Do you have newsletters, websites and links to share? Do you have RCM questions?

RCM News is always looking for interesting information, tips and resources to share with other resource conservation managers. Our goal is to increase your success by sharing what you and your colleagues are doing – with energy efficiency measures, problem-solving, communication, data tracking, presentations, and more. In addition, WSU Energy Program can help find solutions to your RCM program's technical and programmatic questions. [Email Karen](#) to share and ask!

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.

RCM News is prepared by the Washington State University Energy Program

This activity is funded by the U.S. Department of Energy State Energy Program. Funds provided through the Washington Department of Commerce Energy Division.

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

