

RCM NEWS

RCM News for June 2017

A newsletter for Resource Conservation Managers in the Northwest

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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.

Help us help you!

This coming year we will be updating the [WSU Energy Program's Resource Conservation Management website](#). The goal is to create a site with resources and information that is useful to you as an RCM and that contributes to promoting new RCM programs throughout Washington state and beyond. We would also like to include highlights from your work that might benefit other RCMs.

What would you like to see on the website? Send us your thoughts, and watch for surveys or polls in the coming months as we seek your input. Thank you!

Building Analytics

View the [video recording](#) of the WSU Energy Program RCM webinar “**Improving Building Performance through Controls and Analytics**”. Held June 6 2017, presentations by Pacific Northwest National Laboratory staff scientists Srinivas Katipamula and Ronald Underhill explored common problems and savings opportunities of HVAC systems, with discussion of direct digital control (DDC) systems. A [PDF of the slides](#) is also available.

Energy and Water

“[Reduce Energy Use, and Save Water](#)” was published in the June 2017 issue of *Facility Executive*, written by Ian Dempster. Studies show that HVAC systems may account for 28% to 48% of commercial buildings’ water consumption. Most of this is from evaporation from chillers and pump motors. Systems with

greater efficiency use less water, and less energy. Decreasing the amount of cooling can also reduce resource use.

Energy Data

A three-part article on “Energy Data” in the June 2017 issue of *Building Operating Management* magazine, written by Klaar de Schepper, highlights the importance of standardizing data. Monthly utility usage and cost data can come in many formats, such as paper bills, automated data exchange, or Green Button. In order to be useful, that information must be standardized, whether manually entered into a spreadsheet or downloaded directly into a program such as Portfolio Manager. Once utility data is analyzed, more detailed data may be desirable. Data loggers, building automation systems, and real time utility interval service can provide focused information, as long as it is translated into a usable format.

Part 1 – [How To Get The Most Use Out of Energy Data](#)

Part 2 – [How Focused Data Use Analysis Leads To Energy Efficiency](#)

Part 3 – [SIDEBAR: Online Resources To Help Analyze, Format Energy Data](#)

Exterior Lighting

A three-part article in the June 2017 *Facility Maintenance Decisions*, written by Thomas A. Westerkamp, discusses exterior lighting. Planning and performing exterior lighting upgrades properly is vital to increase energy efficiency and realize non-energy benefits such as better light quality, security, and safety. Retrofits for street lighting, area lighting, landscape lighting, and more must include controls. Although LEDs are generally the better choice, induction lamps may be appropriate for out of the way places because of their very long life.

Part 1 – [Exterior Lighting: LED Advances](#)

Part 2 – [Exterior Lighting: Setting LED Upgrade Goals](#)

Part 3 – [Exterior Lighting: Making LED Upgrades Work](#)

Lighting

“[Lamp Replacement Recommendation](#)”, was published June 7, 2017 on the *Smart Building Center* website. If your facility isn’t ready to convert linear fluorescents to LEDs, energy use and cost can still be reduced by using low wattage T8 lamps. These are available in 28 and 25 watts, and are often compatible with existing ballasts. The Hillsboro School District is one of the case studies on the Northwest Lighting Network [Low Wattage Website](#) that showcases the benefits of replacement.

“[UL Launches Photometric Database for Lighting](#)” appears in the May 30, 2017 issue of *Buildings Magazine*. “EN 13032 Photometric Data Verified” is a new designation for lighting products whose photometric data, such as lumens, has been independently verified. This will enable lighting products to be compared with each other more reliably.

Part 1 – [LED: Lighting Advances Lead to Greater Energy Savings](#)

Part 2 – [LED: Implementing Lighting Controls Can Save Even More Energy](#)

Part 3 – [SIDEBAR: Retrofit Rebates](#)

Occupant Engagement

[“A Deeper Shade of Green”](#), written by Shannon Kaplan for the June 2017 issues of *Facility Executive Magazine*, addresses the need for occupant engagement in order to meet energy efficiency goals. Some green building certification programs now require proof of actual performance. Yet occupant behavior and choices can impact that performance. Engaging occupants by listening and asking questions may help reach energy goals.

Upcoming Events & Training Opportunities

It's a quiet summer with very few educational opportunities. Enjoy your summer while you reduce energy and water use.

ENERGY STAR® and Portfolio Manager® Trainings

All are online webinars.

- Portfolio Manager 101 – Jul 6
- Portfolio Manager 201 – Jul 11
- Seeking Savings Indoors and Outdoors with WaterSense – Jul 12
- Technology Solutions to Waste Tracking – Jul 18
- Portfolio Manager 301 – Jul 19
- What You Should Know About Financing Energy Efficiency Upgrades – Aug 8
- Ask the Expert – Every Wednesday at 9:00 AM Pacific time

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

US EPA

LED Trends and Choices

Discuss current LED technologies and controls for interior and exterior lighting applications, including performance, costs, and practical solutions.

- July 12 online webinar

[For more information, click here](#)

Seventhwave

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 – Sept 26, 2017 in Renton
 - Level I – Oct 24, 2017 in Olympia
 - Level I – Oct 25, 2017 in Everett

[Click for BOC Washington State information](#)

- Oregon
 - Level I – Sept 6, 2017 in Portland

[Click for BOC Oregon information](#)

Building Operators Certification

Resources for You

Two-year College Degree

Lane Community College (LCC) Energy Management Technician Program, which is the national model for energy efficiency education, is now offering an online degree. The two-year degree program includes online courses in addition to providing hands-on skills with “real world” field projects and cultivating employment opportunities with regional employers. Applications for the expanded online Energy Management Technician Program are currently being accepted for Fall 2017 enrollment at www.lanecc.edu/nweei. For more information, contact Roger Ebbage, Coordinator, Energy and Water Education Programs, Lane Community College, 541-463-6160, ebbager@lanecc.edu.

Four-year College Degree

[South Seattle Community College](#) offers the first four-year Bachelor of Applied Science (BAS) in Washington State, in Sustainable Building Science Technology. The program focuses on the complexities of building science, energy codes, building codes, and facility management. A great opportunity for those currently working in industry to become building science professionals and meet the workforce demand.

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

