

# RCM NEWS

## RCM News for March 2017

**A newsletter for Resource Conservation Managers in the Northwest**

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### Energy Upgrades

Planning ahead is the main theme of a two-part article on Energy Upgrades in the March 2017 edition of *Building Operating Management*, written by Lindsay Audin. Crucial elements of the planning stage include creating a baseline prior to implementation in order to track savings, researching incentives and updated building codes, and deciding on the M&V methods to use after implementation. Once the upgrade is installed, make sure that the upgrade is working properly, which may involve commissioning after the system has been in place for a while.

[Part 1: Plan, Audit, Commission, Measure and Verify: Steps To A Successful Energy Upgrade](#)

[Part 2: Make Utility Incentives Part of the Energy Upgrades Planning Process](#)

### Lighting

[“How Much Energy Are You Wasting Overnight?”](#), written by Janelle Penny, appears in the April 2017 issue of *Buildings*. Both exterior and interior lighting is a frequent waste of energy, through areas lit unnecessarily or overlit. Reasons may be that photosensors are not working properly, or lights are left on by occupants or cleaning staff. Identify waste by walking through the building day and night, and then determine appropriate solutions such as motion sensors, time sweep controls which turn off all lights at a scheduled time, and removing unneeded lamps.

[“Finding Rebates and Incentives for Lighting Upgrades”](#), in the April 2017 issue of *Buildings* written by Justin Feit, gives an overview of opportunities for help financing lighting retrofits. These include incentives from utilities which are likely to remain independent of current political changes, and state and local government options. Property-Assessed Clean Energy (PACE) programs may be available as well.

## Networking

“Wireless” is a three-part article in the March 2017 edition of *Building Operating Management*, written by Rita Tatum. Wireless options tend to be more cost-effective when networking a facility during retrofit. Descriptions of five popular wireless options (Z-Wave, ZigBee, Wi-Fi, Bluetooth, and EnOcean) include transmission rate, type of network, and best-use scenarios.

[Part 1: 5 Wireless Options for High-Performance Building Systems](#)

[Part 2: How Wi-Fi, EnOcean, and Bluetooth Contribute to Building Internet of Things Goals](#)

[Part 3: INFOGRAPHIC: Relative Speeds of 5 Wireless Standards](#)

## Waste Management

“[Setting Waste Management Goals](#)”, in the February 2017 issue of *Facility Executive*, contributed by U.S. EPA’s Energy Star, introduces the new tool within Energy Star Portfolio Manager designed to track and quantify waste. Commercial buildings and manufacturing facilities contribute almost half of the waste in the U.S. annually that goes to incinerators or landfills. The same management techniques used in Portfolio Manager for energy and water can be used for a waste reduction program. These include gaining management buy-in, setting goals, offering employee incentives, and more.

## Upcoming Events & Training Opportunities

### Better Buildings Webinars

- Because Wastewater Matters – April 4, 2017 online webinar

[Click here for more information](#)

*Better Buildings, U.S.DOE*

### ECAM (Energy Charting and Metrics) training

Free hands-on introductory training on an Excel-based tool for analyzing data to find and measure energy savings

- April 4, 2017 in Seattle

[Click here for more information](#)

*Smart Building Center*

### ENERGY STAR® and Portfolio Manager® Trainings

All are online webinars.

- Just Add WaterSense to Your Energy Efficiency Efforts – April 5
- Portfolio Manager 101 – April 18
- Portfolio Manager 201 – April 19
- Portfolio Manager 301 – April 20
- WaterWednesday Showcase – May 10
- Ask the Expert – Every Wednesday at 9:00 AM Pacific time

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

*US EPA*

### Seattle’s Building Tune-Up Ordinance

Free for BOMA members

- April 12, 2017 in Seattle

[Click here for more information](#)

*BOMA Seattle*

### Northwest Facilities Expo & Managing Green Buildings Conference

- April 12-13, 2017 in Portland

[Click here for information](#)

*Many Sponsors including NEEC, ASHRAE, LED Trail, PG&E, IFMA, Engineered Systems*

### Building Operator Certification Technical Webinar Series

- Building Envelope Leakage/Infiltration – April 19, 2017
- Troubleshooting Common Air Handler Problems – May 17, 2017

[Click here for more information](#)

*Building Operators Certification*

### Making the Business Case for Energy Efficiency

- April 27, 2017 in Portland

[Click here for more information](#)

*Portland General Electric*

### Energy/Facilities Connections Conference

Register now for the 13<sup>th</sup> annual Energy/Facilities Connections (EFC) conference. The EFC conference offers hands-on interactive training and excellent networking opportunities with professional facilities staff from Washington and beyond.

- May 2-4, 2017 in Leavenworth, WA

[Click here for information](#)

*WSU Energy Program Plant Operations Support Consortium*

### NW Clean & Affordable Energy Conference

- May 4-5, 2017 in Boise, ID

[Click here for information](#)

*NW Energy Coalition*

### Better Buildings Summit

- May 15-17, 2017 in Washington, D.C.

[Click here for information](#)

*U.S. Department of Energy*

### 2017 Oregon APEM Summer Forum

“Problems? What Problems” – A Look at Boilers and Chillers and How to Make Them Work More Efficiently.

- June 2 in Tualatin, OR

[Click here for more information](#)

*Oregon Association of Professional Energy Managers*

## 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

### Energy Efficient Windows

Need a refresher on types of windows and their energy efficiency potential, ways that energy efficient windows are rated, and the metrics used in those ratings? Look no further than [Energy Efficiency Series: Benefits of Energy Efficient Windows](#) from Constellation.

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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.

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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)

