

# RCM NEWS

## RCM News for July 2017

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

*In this issue:*

Internet of Things  
Irrigation  
Lighting  
Resilient and Sustainable Buildings  
Smart Windows  
Water  
Upcoming Events & Training Opportunities  
Previous Webinars  
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.*

### Internet of Things

The Internet of Things (IoT) security breaches are not necessarily the concern of a Resource Conservation Manager. However, many of the IoT devices in buildings are part of the HVAC and lighting systems, and the number of these are rising rapidly. Yet security has not kept up the pace. "[Do Your IoT Devices Risk a Security Breach?](#)", written for the June 28, 2017 issue of *Buildings*, by Justin Feit, Assistant Editor, discusses security risks, devising an action plan to address risks, and the importance of working with the IT department.

### Irrigation

In the height of summer, it is a good idea to check your irrigation system to make sure it is running efficiently and not wasting water or money. "[4 Ways to Reduce Irrigation Costs](#)", written by Justin Feit, Assistant Editor for the June 28, 2017 issue of *Buildings* offers advice on how to optimize your watering practices. Maintenance and replacing broken parts can keep the system working efficiently. Choose the most appropriate system for your needs – drip or overhead. Irrigation schedules and the type of landscape at your facility also influence water use.

### Lighting

"[New Business Model for LED Lighting Could Decrease Cost of Retrofitting, Increase Energy-Efficiency](#)", is written by Mary Kate McGowan, Associate Editor for News at *High Performing Buildings*. Lumens as a Service (LaaS) is a business approach where a company signs a service agreement with a provider who supplies the services and products to upgrade a commercial building's LED lighting system. This as-a-service model could help increase energy efficiency and provide better quality lighting, since the company does not need to use much, if any, capital for the upgrade.

## Resilient and Sustainable Buildings

The three-part cover story in the July 2017 issue of *Building Operating Management*, written by Greg Zimmerman, Executive Editor, explores “Resilience and Sustainability”. Sustainable buildings use fewer resources, and resilient buildings are better able to function if the environment provides fewer resources, such as times of power outages, floods, and storms. Consideration is given to how to achieve effective stormwater management and a high-performance building envelope, in addition to reduced energy and water use. Buildings that have “simpler” features such as operable windows and passive heating reduce the need for generators.

Part 1 – [To Focus on Resilience, Focus Also on Sustainability](#)

Part 2 – [Water and Energy Efficiency Are Key Resilience Strategies](#)

Part 3 – [Why Strong, Diverse Communities Are More Resilient](#)

## Smart Windows

“Windows” is the focus of a three-part article in the July 2017 *Building Operating Management*, written by Angela Maas. Four types of smart window glass are currently used in commercial buildings – thermochromic, electrochromic, polymer dispersed liquid crystal, and suspended particle device. They all provide increased thermal comfort and reduced glare, as well as energy savings. Facility managers need to understand the applicability of each of these to choose the best for their situation. The article contains a case study of a LEED O+M Gold building with electrochromic glass.

Part 1 – [Smart Windows Offer Flexibility, Occupant Comfort](#)

Part 2 – [Smart Window Benefit? Energy Savings, Reduced Glare](#)

Part 3 – [Electrochromic Glass Results in Energy Efficiency at LEED Certified Facility](#)

## Water

“[3 Tips for Implementing Low-Flow Fixtures](#)”, published in the June 28, 2017 edition of *Buildings*, offers essential information about replacing plumbing fixtures in your building. Choose the low-flow fixtures that best fit your building and occupant needs, talk to colleagues who have recently replaced fixtures for lessons learned and savings, and remember to retrain your maintenance staff after the fixtures are installed.

## Upcoming Events & Training Opportunities

*It continues to be a quiet summer with very few educational opportunities. Continue to enjoy your summer while you reduce energy and water use.*

### E3T Showcase Webinars

A series of free, lunch-hour webinars bringing you information about energy efficient emerging technologies and strategies, sponsored by Bonneville Power Administration and provided by WSU Energy Program. Register for the E3T listserv to receive email notifications of upcoming webinars at [subscribe-e3tnw@listserv.energy.wsu.edu](mailto:subscribe-e3tnw@listserv.energy.wsu.edu). All are online webinars. Registration not yet available for most of these.

- Applying Strategic Energy Management in Manufacturing Facilities – August 1
- CO2 Refrigerant Heat Pumps Today – August 16
- Regional Energy Technical Advisory Committee (RETAC) 2.0 – August 30
- Super Efficient Heat Pump Clothes Dryers: Field and Lab Test Results – Sept 7
- Window Attachments – Sept 20
- Alternative Refrigerants – Sept 28

[Click here for information](#) (registration not yet available)

*WSU Energy Program, BPA*

## ENERGY STAR® and Portfolio Manager® Trainings

All are online webinars.

- What You Should Know About Financing Energy Efficiency Upgrades – Aug 8
- Portfolio Manager 101 – Aug 8
- Portfolio Manager 201 – Aug 22
- NEW: Track Electric Demand with Portfolio Manager – Aug 24
- Portfolio Manager 301 – Aug 29
- Ask the Expert – Every Wednesday at 9:00 AM Pacific time

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

*US EPA*

## Office Worker Performance and the Indoor Environment

Presented by the National Grid

- Aug 31 online webinar

[Click here for more information](#)

*National Grid*

## Spark Tool Webinar

Spark is an interactive tool that helps determine if your building is a candidate for a deep energy retrofit.

- Sept 13 online webinar

[Click here for more information](#)

*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 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*

## Building Operator Certification Technical Webinar Series

- Addressing Hot and Cold Calls, What's Your Procedure? – Sept 27, 2017
- Building Re-tuning without a Building Automation System – Oct 18, 2017

[Click here for more information](#)

*Building Operators Certification*

## 2017 Oregon APEM Fall Forum

Location and schedule to be posted soon.

- September 29, 2017

[Click here for more information](#)

*Oregon Association of Professional Energy Managers*

## Previous Webinars

Did you miss a webinar that you were unable to attend? Did you hear about a webinar after the fact? Now and then, we'll list previously recorded webinars you can watch on your own time.

### Seventhwave

Previous recorded webinars from Seventhwave include LED Trends and Choices, LED Outdoor Lighting, and Advanced Rooftop Units.

<http://www.seventhwave.org/education/webinars>

*Seventhwave is an energy education and research nonprofit in Wisconsin.*

## Resources for You

### BetterBricks Newsletter

Take a look at the recent [BetterBricks newsletter](#) for articles on smart windows, energy benefits toolkit, luminaire level lighting controls, and more. BetterBricks is the commercial building program of the Northwest Energy Efficiency Alliance (NEEA).

\*\*\*\*\*

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

