

## RCM News for February 2020

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

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## ANNOUNCEMENTS

### Register today! *16<sup>th</sup> Annual WSU Energy/Facilities Connections Conference is May 5-7, 2020*

The 16<sup>th</sup> Annual Energy/Facilities Connections Conference will take place May 5-7, 2020 at the Enzian Inn in Leavenworth, WA. This year's theme is *Meeting Challenges with Efficiency & Innovation*. Come hear from industry experts as well as your peers working in public facilities about how energy efficiency strategies along with new technologies can help your facility address challenges and meet goals.

For more information and to register for the conference visit [WSU Energy Program Public Facilities Support](#).

### Scholarship for the WSU Energy/Facilities Connections Conference

Four scholarships are available to attend the 16<sup>th</sup> Annual Energy/Facilities Connections Conference on May 5-7, 2020. Award provides full registration plus \$150 towards lodging/transportation. To apply, send three suggestions for a short publication or webinar on a topic of interest to RCMs or energy managers, and a paragraph on why you would like to attend the conference (in fewer than 101 words). Deadline is March 9, 2020. To send application or request more information, email [Karen Janowitz](#).

## Washington State Clean Buildings

The Washington state energy performance standard for covered commercial buildings will more than likely impact your building. Comments are being accepted until March 11 for sections 5 and 6 of the rule, which is based on ASHRAE Standard 100. See events below, and visit the [Clean Buildings website](#) for more information, including workshop dates and locations. Participation is encouraged by RCMs, energy managers, building owners, facility directors, and others.

## Electrification of Transportation Systems Grants Available

The Washington State Department of Commerce is accepting applications for a new grant through the Electrification of Transportation Systems (ETS) program which makes available \$10.6 million to expand electric vehicle charging infrastructure in Washington state. Qualifying applicants must be a Washington state local government, a retail electric utility serving Washington state, or any organization partnering with qualified entities. Letters of Intent are due by March 5, 2020 and applications must be submitted by May 5, 2020. Details about qualifications and applications visit [Electrification of Transportation – Washington State Department of Commerce](#).

## ARTICLES

### Boilers and Water Heaters

Tools such as advanced control systems and improved designs of boiler and water heater systems have helped keep such systems performing efficiently and continuously running. A four-part article written by James Piper for the February 2020 issue of *Facility Maintenance Decisions* discusses ways to make the most use of these tools. Effective staff training is crucial, and includes knowing the skills needed by operators and which skills they already have. A consistent monitoring and maintenance schedule based on the manufacturers requirements, and tracking the history of the system helps when a decision must be made about replacing or repairing a particular system.

Part 1: [Three Steps to Boiler Performance and Efficiency](#)

Part 2: [Monitoring and Maintenance To Increase Boiler Efficiency](#)

Part 3: [Smart Specification of Boilers and Water Heaters](#)

Part 4: [Boilers and Water Heaters: Spotlight on Safety](#)

### Campus Energy Efficiency

When the state of Oklahoma passed an energy initiative for agencies and institutions to reduce energy usage by 20 percent by 2020 over the baseline usage in 2013, Tulsa Community College was challenged to meet the state requirements. A three-part article written by Dan Hounsell in the February 2020 issue of *Facility Maintenance Decisions* discusses how the college went beyond the low hanging fruit of energy efficiency by involving facilities staff as well as building engineering and maintenance staff in identifying and carrying out new measures. By creating buy-in and a sense of ownerships in projects the college was able to successfully meet the goals set by the state.

Part 1: [College Rethinks Maintenance, Embraces Energy Efficiency](#)

Part 2: [Finding Efficiency: College Searches Campuses for Energy Opportunities](#)

Part 3: [Teamwork Essential for College's Energy Efficiency Increases](#)

## Green Building

While green building is an important and growing industry around the world, the U.S. Green Building Council (USGBC) continues to help provide guidance to industry professionals by continuing to develop expanded versions of their LEED building certifications. [“What You Need to Know About Green Building in 2020”](#) written by Melissa Baker in the February 2020 issue of *Building Operating Management* discusses how the USGBC expects trends such as sustainability, resilience, and health and wellness will help to shape green building in 2020.

## Luminaire Level Lighting Controls

An article in the Winter/Spring 2020 issue of the *BOC Bulletin* (page 5) discusses how a business park in Seattle upgraded from fluorescent light to new LED fixtures with luminaire level light controls (LLCs). [“South Lander Business Park Adopts Luminaire Level Lighting Controls”](#) details how the park is reducing costs and providing more flexibility for tenants by making the lighting upgrades.

## UPCOMING EVENTS & TRAINING OPPORTUNITIES

### ENERGY STAR® and Portfolio Manager® Trainings

All are online webinars.

- Portfolio Manager 101 – March 3
- Verifying the ENERGY STAR Application – March 10
- Portfolio Manager 201 – March 11
- Benchmarking Water & Wastewater Treatment Plants in Portfolio Manager – March 12
- Portfolio Manager 301 – March 17
- Fix a Leak with WaterSense and Beat Water Waste – March 18
- Ask the Expert – Most Wednesday at 9:00 AM Pacific time

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

*US EPA*

### Better Buildings Webinars

- Building Value: Energy Efficiency’s Impact on Financial Performance – March 3
- Finance + Resilience Initiative: Building the Financial Business Case for Resilience – April 21
- Finance + Resilience Initiative: Taking Action to Improve Resilience and Disclose Performance – April 28

[Click here for more information](#)

*US DOE Better Buildings*

### Lighting Research Center (LRC) at Rensselaer Polytechnic Institute

A new interactive webinar series on the latest research in lighting.

- Outdoor Lighting: Making Uniformity a Priority for Security Lighting – March 10
- Lighting: Red, White and Blue – Apr 14

[Click here for more information](#)

*Lighting Research Center, RPI*

## Oregon APEM Spring Forum 2020

“Rethinking Energy Systems in a Decarbonized Future” – a one day meeting for energy and resource management professionals to discuss building electrification and the move towards decarbonization of energy systems.

- March 13 in Portland, OR

[Click here for more information](#)

*Association of Professional Energy Managers*

## 2020 Spring Lighting Design Lab Classes

All classes held at the Lighting Design Lab in Seattle

Intermediate Series

- Power Over Ethernet – March 17

Advanced Series

- Light, Human Perception, and Health – April 9
- Color Tuning & Tunable White Lighting Systems: A How-To Survival Guide – April 9

[Click here for more information](#)

*Lighting Design Lab*

## Clean Buildings Workshops

These workshops will review draft revisions to ANSI/ASHRAE/IES standard 100-2018, Energy Efficiency in Existing Buildings for a new Washington State law (more information under Announcements above).

### **Workshops – Web attendance available**

- March 18 in Seattle
- April 14 in Spokane

### **Other Important Dates**

- March 11 – Comments due on proposed rules for sections 5 and 6

[Click here for more information](#)

*Washington State Department of Commerce*

## Zero Net Carbon Schools Webinar

- April 1 webinar

[Click here for more information](#)

*New Buildings Institute*

## Improving the Energy Consumption of Pumps

- April 1 webinar

[Click here for more information](#)

*BOC*

## Go Green Conference

A regional conference offering educational opportunities on sustainability for business and public sector leaders.

- April 9 in Seattle, WA

[Click here for more information](#)

*Washington Business Alliance*

## Green Transportation Summit & Expo

The 10<sup>th</sup> annual summit

- April 13-15 in Tacoma, WA

[Click here for more information](#)

*Green Transportation*

## 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 classes
    - Runs April 21 through Oct 13, 2020 in Bothell
    - Runs May 6 through Oct 15, 2020 in Olympia
    - Runs June 24 through Sept 24, 2020 in Spokane
    - Runs Sept 30, 2020 through Mar 4, 2021 in Seattle
  - Level II classes
    - Runs Oct 20, 2020 through Mar 23, 2021 in Seattle

[Click here for BOC Washington State information](#)

- Oregon
  - Level I classes
    - TBD in NE Oregon (Pendleton/La Grande)
  - Level II classes
    - TBD 2020 in Portland

[Click here for BOC Oregon information](#)

*Building Operators Certification*

## Energy/Facilities Connections Conference

- May 5-7 in Leavenworth, WA

[Click here for more information](#)

*Washington State University Energy Program*

### Clean & Affordable Energy Conference

This year's conference explores energy issues such as the movement to 100% clean electricity by local governments, utilities, and businesses.

- May 7 in Missoula, MT

[Click here for more information](#)

*NW Energy Coalition*

### Efficiency Exchange

A networking and learning conference for energy efficiency professionals from across the Northwest.

- May 12-13 in Portland, OR

[Click here for more information](#)

*NEEA, Bonneville Power Administration*

### Powerful Facility Energy Conference

A bi-annual conference offering practical energy solutions and opportunities to help create successful energy efficiency projects.

- May 20 in Lynnwood, WA

[Click here for more information](#)

*Electric League of the Pacific Northwest*

### Smart Buildings Exchange Conference

Two-day conference and trade show with the latest information and technologies in the smart buildings industry, showcasing smart city and building projects and initiatives in the Pacific Northwest.

- Sept 2-3, 2020 in Seattle

[Click here for more information](#)

*Smart Buildings Center, NEEC*

## RESOURCES

### Winter/Spring 2020 BOC Bulletin

The [current issue](#) of the Building Operator Certification (BOC) Bulletin is now available. In addition to the lead article on smart buildings, you can read about luminaire level lighting controls, learn about continuing education and how to complete your BOC credential maintenance, and hear how BOC graduates are using the skills they learned in the program.

### Lighting R&D Workshop Presentations

The 17th Annual Lighting R&D Workshop sponsored by the U.S. Department of Energy and the Illuminating Engineering Society was held in San Diego, CA on January 28-30, 2020. Links to the [workshop presentations](#) are available online and cover topics about current progress in lighting research and future R&D needs.

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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 - [janowitz@energy.wsu.edu](mailto:janowitz@energy.wsu.edu)

