

## RCM News for March 2019

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

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## ANNOUNCEMENTS

[Registration](#) is open for the **15<sup>th</sup> Annual Energy/Facilities Connections Conference**, taking place May 7-9, 2019 in Leavenworth, WA. The conference, hosted by WSU Energy Program, focuses on issues facing facilities leadership in planning for energy efficiency and resource management. Building maintenance, personnel, facilities security, and more are also addressed. If you're new to the conference, or unsure you'll be able to attend, read [Making Your Case to Attend](#) and [First Timers – What to Expect](#).

### **Energy Management and Water Conservation Technician Degrees – Lane Community College**

Enroll for the Fall Term 2019 in either the [Energy Management Degree](#) or [Water Conservation Technician Degree](#) at the [Northwest Water & Energy Education Institute](#) at Lane Community College. Both award a two-year associate of applied science degree. Scholarships are available.

### **Sustainable Building Science Technology Bachelor's Degree – South Seattle College**

[Enrollment is open for the Fall 2019](#) innovative two-year degree program at South Seattle College. Classes and field work prepare you for the field of highly technical sustainable building operations and facility management. Classes are mostly online and geared toward the working adult.

## ARTICLES

### Emerging Opportunities

In her February 7, 2019 blog post titled “[Emerging Opportunities Help Commercial Buildings Optimize Energy Use](#)”, Jennifer Thorne Amann, Buildings Program Director at *American Council for an Energy-Efficient Economy (ACEEE)* announces the release of three topic briefs as part of their Emerging Opportunities Series. [Achieving Deeper Energy Savings through Integrated Building Systems](#) summarizes savings and barriers to adoption of integrated systems, as well as efficiency program design. [Energy Storage](#) discusses benefits of thermal energy storage and battery storage, and how they may be incorporated into efficiency programs. The third brief focuses on [Energy as a Service](#) as a model to finance efficiency opportunities.

### Energy Savings Performance Contracts

“[Six Tips for a Successful Energy Savings Performance Contract](#)”, published March 21, 2019 in *Energy Manager Today* offers short basic principles to make an energy savings performance contract successful.

### HVAC

A four-part article on HVAC, written by James Newman and posted March 27, 2019 online for *Building Operating Management*, stresses the importance of understanding all aspects of high-performance HVAC as a way of reducing costs and energy consumption. Discussion includes choosing the best equipment for a building, the importance of maintenance, and understanding data.

Part 1 – [Best Practices for Achieving High-Performance HVAC Systems](#)

Part 2 – [High-Performance HVAC: Why Maintenance is Critical](#)

Part 3 – [Hybrid HVAC Systems Offer Big Efficiency](#)

Part 4 – [Measure, Test, Commission: Keys to High-Performance HVAC](#)

### Insulation

“[The Facilities Manager’s Guide to Insulation](#)”, published March 19, 2019, written by Janelle Penny in *Buildings Magazine*, is an important refresher course on insulation, including how energy codes classify insulation and insulation types. Considerations such as cost, ease of installation, and how well the insulation works as an air barrier can help with the best selection for your building.

### LED Retrofits

The first step in a lighting project, according to “[Seven Tips to Maximize LED Retrofits](#)”, written by Janelle Penny for the March 20, 2019 issue of *Buildings Magazine*, is to ask yourself questions to help define the purpose of the project. There may be more than one reason, such as improving lighting conditions while also reducing energy use. Be aware of unique circumstances and consider how to coordinate audits, ordering, and installation.

## WELL Buildings

WELL buildings, written by Julie Berreth on March 13, 2019 for *Building Operating Management*, looks at the new WELL Building Standard which aims to increase occupant productivity and satisfaction. The qualitative, flexible standard complements LEED's quantitative standard.

Part 1 – [Wellness: Enhancing the True ROI of Buildings](#)

Part 2 – [LEED and WELL: Complementary, Not Contradictory](#)

## UPCOMING EVENTS & TRAINING OPPORTUNITIES

### Better Buildings Webinars

- Rethinking Traditional Finance: How Efficiency-as-a-Service Can Drive Upgrades without Upfront Capital – April 2 online webinar
- The Returns to Green Building Retrofits – April 29 online webinar

[Click here for more information](#)

*US DOE Building Buildings*

### Powerful Business Energy Conference: Keeping Current in a Transforming World

A bi-annual conference offering practical energy solutions and opportunities regarding energy efficiency projects.

- April 4 in Lynnwood, WA

[Click here for more information](#)

*Electric League of the Pacific Northwest*

### ENERGY STAR® and Portfolio Manager® Trainings

All are online webinars.

- Celebrate Earth Day with Energy Efficiency Education – April 4
- Portfolio Manager 101 – April 9
- Portfolio Manager 201 – April 16
- Financing Energy Efficiency Projects – What to Know Before You Sign – April 17
- Portfolio Manager 301 – April 23
- Certification Eligibility Rules to Follow for an Accurate Application – April 25
- Ask the Expert – Most Wednesday at 9:00 AM Pacific time

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

*US EPA*

### Reinventing Campus Distributions & Tenant Rebills

An EnergyCAP webinar highlighting the Chargebacks function in their energy management software.

- April 10, 2019 webinar

[Click here for more information](#)

*EnergyCAP*

## 2019 Spring Lighting Design Lab Classes

- [Lighting for Schools K-12 Workshop – 4-hour 300 Level Hands-on Workshop](#)
  - April 11, 2019 in Seattle

[Click here for more information](#)

*Lighting Design Lab*

## 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
    - April 15, 2019 through October 2019 in Burlington, WA
    - Sept 25, 2019 through March 2020 in Seattle
    - Fall 2019 TBA in Tacoma

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

- [Oregon](#)
  - Level I classes
    - Sept 2019 TBA in the Portland area

[Click here for BOC Oregon information](#)

*Building Operators Certification*

## Portland General Electric Education

Classes and workshops are free to PGE business customers; others may attend for a fee.

- Creating an Energy Management Plan – April 18 class in Wilsonville, OR
- A Guide to Energy Management Systems – April 24 class in Wilsonville
- Best HVAC-Efficiency Testing Practices – April 25 class in Wilsonville

[Click here for more information](#)

*Portland General Electric*

## Adjustable Speed Drive Applications and Energy Efficiency

- April 23 in Everett, WA

[Click here for more information](#)

*NEEA, Snohomish County PUD, and many more*

## Building Operator Certification Technical Webinar Series

- Building Tune-ups in Buildings with a BAS – April 23, 2019 webinar
- Energy Management Information Systems: How Do You Track and Communicate Savings Over Time – May 15, 2019 webinar

[Click here for more information](#)

*Building Operators Certification*

## Understanding the Feasibility of Getting to Zero in School Retrofits

- April 25 Webinar

[Click here for more information](#)

*New Buildings Institute*

## International Living Future

- April 30 – May 3 in Seattle

[Click here for more information](#)

*International Living Future Institute*

## Energy Efficiency of Cooling Towers

- May 2, 2019 in Spokane, WA

[Click here for more information](#)

*NEEA, Avista, and many more*

## Energy/Facilities Connections Conference

- May 7-9 in Leavenworth, WA

[Click here for more information](#)

*Washington State University Energy Program*

## Oregon APEM Summer Forum

“A Deep Dive into Pools: Illustrating common engineering principles through an examination of pool and natatorium systems”

- June 7 in Portland

[Click here for more information](#)

*Oregon Association of Professional Energy Managers*

## RESOURCES

### Webinars on Demand

Past webinars in topics ranging from LED lighting power quality issues to thermography to advancements in window and wall technology are available at [Seventhwave](#). They are free to view, although there is a cost to receive credit.

Past webinars from the [Emerging Technologies Coordinating Council](#) based in California are also available for viewing. Recent presentations include LED Track Lighting and Dynamic Air Balancing for Commercial HVAC Systems.

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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)

