

RCM News for May 2019

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.

ANNOUNCEMENTS

WSU Energy Program and the Smart Building Council are teaming up to bring you the next RCM webinar: “The Building Walk Down: Uncovering Hidden Opportunities for Savings”. The live no-cost webinar is on Thursday, June 27 at 12:00 noon Pacific time. [Click here](#) for more information and registration.

ARTICLES

Energy Efficiency Planning

A four-part article on long-term energy efficiency planning is in the May 2019 online edition of *Building Operating Management*, written by Jerry Burin. Long-term planning for energy efficiency is as important as an agency’s other long-term goals. Create a team to find out about future system improvements, financial constraints, operational changes, and workplace challenges that can affect goals.

Part 1 – [How to Plan for Long-Term Energy Efficiency](#)

Part 2 – [Teaming Up for Long-Term Energy Efficiency](#)

Part 3 – [Setting the Timeline for Long-Term Energy Planning](#)

Part 4 – [Questions to Ask for Successful Energy Planning](#)

HVAC equipment

A three-part article on HVAC equipment appears in the May 2019 issue of *Facility Maintenance Decisions*, written by James Piper. The three essential HVAC components – boilers, chillers, and air-handling units – each have their own challenges when upgrading. Space limitations and future heat demand must be considered with boiler upgrades. Chillers are the largest investment, and must be sized carefully. The large size, installation in confined spaces, and facility disruption affect air-handler upgrades.

Part 1 – [Specifying HVAC Equipment Based on Facility Needs](#)

Part 2 – [Properly Sizing Chillers for Improved Energy Efficiency](#)

Part 3 – [Addressing Air Handler Upgrade Challenges](#)

Rooftop Air Conditioning Units

High-efficiency Rooftop Air Conditioning Units (RTUs), are the topic of a three-part article written by Rita Tatum in the May 2019 issue of *Building Operating Management*. The U.S. Department of Energy Advanced RTU Campaign has steered significant energy efficiency improvements in RTUs over the past five years. A high performance RTU, including variable speeds, advanced controls and monitoring, and fault detection, can reduce energy use by about 40-50 percent. The last part of the article discusses history and benefits of variable refrigerant flow technology, a major contributor to advanced RTU efficiency.

Part 1 – [Understanding High-Efficiency Rooftop Air Conditioning Units](#)

Part 2 – [What Makes a Rooftop Unit High-Performance?](#)

Part 3 – [How Variable Refrigerant Flow \(VRF\) Improve HVAC Energy Efficiency](#)

Student-Led Energy Education

“[EnergyWISE Clubs Inspire Student-Led Energy Audits](#)”, written by Janelle Penny and published online in the May 31, 2019 edition of *Buildings*, showcases a school club program that promotes hands-on energy efficiency education. EnergyWISE (Wisdom is Saving Energy and the Environment) was developed by EduCon Energy, based on a program at a Kentucky school district. Some of the club activities that students carry out include performing energy audits, writing articles, researching alternative forms of energy, and giving energy awareness presentations to other students.

UPCOMING EVENTS & TRAINING OPPORTUNITIES

Better Buildings Webinars

- Solutions for Small to Medium Sized Data Centers-Air Management – Jun 4 online webinar
- Smart Energy Analytics Campaign-Spring 2019 Award Winners – Jun 6 online webinar

[Click here for more information](#)

US DOE Building Buildings

ENERGY STAR® and Portfolio Manager® Trainings

All are online webinars.

- Portfolio Manager 101 – June 5
- Just Add WaterSense to Your Energy Efficiency Efforts – June 12
- Portfolio Manager 201 – June 18

- Portfolio Manager 301 – June 27
- Ask the Expert – Most Wednesday at 9:00 AM Pacific time

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

US EPA

Oregon APEM Summer Forum

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

- June 7 at Clackamas Community College Harmony Campus in Milwaukie, OR

[Click here for more information](#)

Oregon Association of Professional Energy Managers

Why Smart Buildings? Leveraging Smart Technology for Building Performance

A one-day conference regarding building performance through smart technologies and practices.

- June 18 in Seattle

[Click here for more information](#)

Smart Buildings Center, NW Regional Building Commissioning Association

2019 IFMA Education Symposium: The Business of Buildings: Investigate, Discover, Predict

A one-day conference regarding building performance through smart technologies and practices.

- June 19 in Lynnwood, WA

[Click here for more information](#)

International Facility Management Association, Seattle Chapter

The Building Walk Down: Uncovering Hidden Opportunities for Savings

No-cost WSU Energy Program RCM webinar.

- June 27 online webinar

[Click here for more information](#)

WSU Energy Program, Smart Buildings Center

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
 - Sept 25, 2019 through March 2020 in Seattle
 - Oct 7, 2019 through April 2020 in Tacoma
 - Spring 2020 in Spokane

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

- Oregon
 - Level I classes

- Sept 2019 in Portland area

[Click here for BOC Oregon information](#)

Building Operators Certification

Getting to Zero National Forum

- Oct 9-11 in Oakland, CA

[Click here for more information](#)

New Buildings Institute, Rocky Mountain Institute

EDUCATION RESOURCES

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.

RESOURCES

The [Attachments Energy Rating Council \(AERC\)](#) is an independent organization that provides reliable information on the energy performance of different types of window attachments. While geared toward residences, commercial buildings may also benefit from this resource. Products with an AERC energy improvement label have been reviewed and rated by the AERC. The website includes great information about different types of window attachments, how to read the AERC label, and more.

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

