

RCM News for November 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

Energy Efficiency Job Certifications

Are you confused or curious about all the different certifications for energy efficiency jobs? WSU recently published "[The Alphabet Soup of Energy Efficiency Workforce Certifications](#)" which lists certifications for selected positions in the energy efficiency sector such as energy manager, energy auditor, and commissioning professional. Understanding the eligibility requirements and learned skills for different certifications can point workers to one that fits them best. Understanding the skillset and level of training provided can also help employers select required certifications to best match job expectations.

State Energy Performance Standard for Commercial Buildings

Pre-rulemaking workshops are underway for the [Clean Buildings bill](#), which aims to reduce carbon and energy use in large non-residential commercial buildings having greater than 50,000 square feet in conditioned floor area, by requiring compliance with a (yet-to-be-developed) energy performance standard. The next workshop takes place December 4 from 10:00 am to 2:00 pm in Seattle. Remote attendance is available, although in-person attendees may gain greater understanding and contribute more through small group breakout sessions. Sign up and review other information at the [Clean Buildings website](#).

Green Ribbon Schools

Is your school reducing environmental impacts and costs, providing sustainability education, and improving the health and wellness of students and staff? If yes, nominate your school for a [U.S. Department of Education Green Ribbon Schools award](#). The Washington State Office of Superintendent of Public Instruction will select finalists to be forwarded to the U.S. Department of Education for possible national award selection. Applications are due December 20, 2019.

ARTICLES

Energy Efficient Buildings and Health

WSU's Integrated Design and Construction Laboratory is working with partners on a project that explores ways to make energy efficient buildings more comfortable and healthy for tenants. An article by Jakob Thorington, "[Making Energy-efficient Buildings Healthier](#)" in the November 13, 2019 *WSU Insider* newsletter, describes a large planned carbon net-zero facility that will feature many energy efficient and healthy features, including radiant heating and cooling, a high performing building envelope design, carbon sequestering building material, and tenant education and training.

HVAC Upgrades & Retrofits

Utilizing upgrades and retrofits for HVAC systems to increase energy savings and facility performance is discussed in a three-part article by Daniel Altshuler in the November 2019 issue of *Facility Maintenance Decisions*. The article addresses how planning and identifying project requirements prior to entering the design and construction phase helps to ensure a successful project and is especially important for achieving energy efficiency goals.

Part 1: [Higher Education: HVAC Upgrades Drive Sustainability, Energy Efficiency](#)

Part 2: [Understanding System Specifics To Ensure Successful HVAC Upgrades](#)

Part 3: [Expanded Opportunities for Higher Education Facility Upgrades](#)

Lighting Control Upgrades

Lighting control upgrades offer energy saving and operational efficiency – a three-part article published in the November 2019 issue of *Facilities Maintenance Decisions* examines how proper specification and application of controls can help achieve the optimal value from those upgrades.

Part 1: [Lighting Controls Upgrade Guidelines](#)

Part 2: [Understanding Applications for Lighting Controls Upgrades](#)

Part 3: [Lighting Controls Upgrades: Understanding Space Needs](#)

UPCOMING EVENTS & TRAINING OPPORTUNITIES

Clean & Affordable Energy Conference

- Dec 2 in Seattle

[Click here for more information](#)

Seattle City Light, Puget Sound Energy, Tacoma Power, CenturyLink, A&R Solar

2019 Fall Lighting Design Lab Classes

- Lighting Design Lab Open House & Trade Show – Dec 3 in Seattle

[Click here for more information](#)

Lighting Design Lab

ENERGY STAR® and Portfolio Manager® Trainings

All are online webinars.

- Portfolio Manager 101 – Dec 3
- ENERGY STAR and Green Building Rating Systems – Dec 3
- Every Drop Counts – Assessing and Evaluating Water Efficiency in Capital – Dec 4
- How to Engage Commercial Tenants on Energy Efficiency – Dec 5
- Portfolio Manager 201 – Dec 10
- Portfolio Manager 301 – Dec 12
- Ask the Expert – Most Wednesday at 9:00 AM Pacific time

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

US EPA

Better Buildings Webinars

- How Buildings of All Shapes and Sizes are Achieving Zero Energy – Dec 3 online webinar

[Click here for more information](#)

US DOE Building Buildings

Student Innovation and Initiatives Driving Zero Energy Adoption

Stories from schools on the path to zero net energy

- Dec 5 online webinar

[Click here for more information](#)

New Buildings Institute

2019 Oregon APEM Winter Forum

How to Make the Case for Energy Efficiency in Your Project

- Dec 6 in Vancouver, WA

[Click here for more information](#)

Oregon Association of Professional Energy Managers

Lighting Research Center (LRC) at Rensselaer Polytechnic Institute

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

- Lighting Controls: What works? Lessons from the Field – January 14, 2020
- Light and Health: Cutting through the Noise – February 4, 2020

[Click here for more information](#)

2020 Lighting Research & Development Workshop

Top lighting scientists and industry experts will share the latest on lighting science and technology advances.

- January 28-30, 2020 in San Diego, CA

[Click here for more information](#)

U.S. Department of Energy and the Illuminating Engineering Society

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 2020 in Bothell
 - May 2020 in Kent
 - September 2020 in Spokane
 - October 2020 in Seattle
 - Level II classes
 - November 2020 in Seattle

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

- Oregon
 - Level I classes
 - January 22 to April 24, 2020 in Vancouver, WA (**registration open**)
 - 2020 classes in Salem-Keizer and the Pendleton/La Grande area)
 - Level II classes
 - 2020 in Portland

[Click here for BOC Oregon information](#)

Building Operators Certification

EDUCATION RESOURCES

Online 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 and both are **FULLY ONLINE**. 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

Northwest Electric System Grid Customer Resources Paper

[The Harmonious Grid](#) is the first in a new series by the NW Energy Coalition that focuses on the changes set to happen in the NW electric system in the next ten years. The papers discuss how utilities, energy service providers, policymakers, regulators, communities and citizens can act to take advantage of economic, environmental and social benefits that will be a part of the new grid.

Best Practices Video Series

Six short videos on commercial energy efficiency opportunities are offered by [BetterBricks](#) on their [YouTube channel](#). Topics of the first three videos cover benchmarking, net zero energy, and innovations in commercial lighting. Subscribe on YouTube to be notified when the other videos come out.

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

