

RCM News for June 2023

A Newsletter for Resource Conservation Managers in the Northwest

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ANNOUNCEMENTS

City of Seattle Building Emissions Performance Standards Proposed

In June the City of Seattle announced the proposed Building Emissions Performance Standards (BEPS) legislation. If enacted, this legislation will apply to existing nonresidential and multifamily buildings greater than 20,000 square feet. Seattle expects to reduce greenhouse gas emissions 27% from existing buildings by 2050, if the BEPS passes.

[Click here for more information.](#)

Clean Buildings Performance Standard

Please participate! The Washington State Department of Commerce and consultant, Energy System Engineers, are conducting a survey seeking to understand costs and cost savings to Washington small businesses related to the Washington State Clean Buildings Expansion Law, which pertains only to Tier 2 buildings (between 20,000 and 50,000 square feet). The deadline to respond is July 14.

[Click here to take the Tier 2 Building Compliance Costs/Cost Savings Survey.](#)

HVAC Building Operations and IAQ at Pandemic's "End" now available online

The WSU Energy Program's and Smart Buildings Center's recent RCM webinar, *HVAC Building Operations and IAQ at Pandemics "End"* and accompanying slide deck are now available online for you to view. Listen to an eastern Washington K-12 RCM and King County Metro Transit facility energy

manager navigate changes in HVAC operations in response to the pandemic. Hear from a state Department of Health specialist on IAQ guidelines, and the intersection of IAQ with energy efficiency from a state Department of Commerce building performance specialist.

[Click here to view webinar](#) and [Click here to view slide deck](#).

ARTICLES

Central Heat Pump Water Heaters

Electric resistance water heaters, the primary water heating technology for multi-family buildings and hotels, use considerable energy, incur high costs to operate and create pollution. A new technology, described by Joe Wachunas in his article "[Central Heat Pump Water Heaters are a Crucial Technology to Decarbonize Multi-Family & Commercial Buildings](#)", published in *CleanTech Daily News*, May 26, 2023, is the central heat pump water heater (HPWH). The central HPWH system heats with a large outdoor heat pump and stores water throughout the building utilizing a recirculation loop. This new technology, which is best installed as a fully factory-packaged unit, will increase water heating efficiency, decrease pollution and ease the energy cost burden particularly to lower income communities.

Commercial and Industrial Pump Energy Rating Label

In 2020 the Hydraulic Institute introduced the Commercial and Industrial Energy Rating Label, also known as the C&I Pump label, to enable purchasers and users an easier way to determine the efficiency of a pump in comparison to other pumps. The label lists basic pump information (brand, model number, speed, equipment type, etc.), pump energy index (PEI), energy savings and estimated savings. The primary advantage of this new label is the Energy Rating (ER) number obtained from the PEI. This ER number indicates just how efficient a pump is in comparison to the federal baseline for pumps in the United States. For more information see the [BetterBricks Blog](#) for May 25, 2023.

Cooling Options

With longer summer seasons, matching cooling demands while also maintaining sustainability and energy efficiency goals can be difficult. In "[Top 4 HVAC Cooling Options Beyond Traditional](#)", published in the June 2023 *Buildings Operating Management*, Greg Zimmerman discusses the benefits and drawbacks of four cooling options for commercial buildings.

UPCOMING EVENTS & TRAINING OPPORTUNITIES

➤ ALL EVENTS VIRTUAL UNLESS OTHERWISE NOTED ◀

Better Buildings Webinar Series

All are online webinars.

- It Takes a Village: Building a Culture of Energy Efficiency in Your Facilities – Jul 6
- It Just Gets Better and Better: Highlights from Better Project and Better Practice Award Winners – Jul 7

- Identifying Cost-Effective Energy Efficiency and Load Flexibility Measures Supporting Grid-Interactive Efficient Building (GEB) Strategies – Jul 12
- Build Your Workforce: Understanding Your Role in the Workforce Ecosystem – Jul 18
- How to Weigh Non-Energy Impacts (NEIs) of Your Lighting Controls Projects – Jul 20
- At Your Service: Third-Party Solutions for Decarbonization in Multifamily Buildings – Jul 25
- Emerging Space Conditioning Technologies – Jul 27
- From Measuring to Managing: Submetering Strategies for Plug and Process Loads in Healthcare Facilities – Aug 1
- The Top 5 Things You Need to Know About Heat Pumps – Aug 8
- Here Comes the Sun: Innovative Community Solar Systems – Aug 15
- The Next Big Thing: HVAC Control Technology for Small to Medium Commercial Buildings – Aug 17
- Enhancing Building Envelope Performance with the Building Envelope Campaign – Aug 22

[Click here for more information.](#) .

US DOE Better Buildings

ENERGY STAR® and Portfolio Manager® Trainings

All are online webinars.

- Portfolio Manager 101 – Jul 6
- Portfolio Manager 201 – Jul 11
- Beat the Peak – Using Water Wisely for Commercial Outdoor Spaces – Jul 12
- Portfolio Manager 301 – Jul 18
- Portfolio Manager 101 – Aug 1
- Portfolio Manager 201 – Aug 2
- Portfolio Manager 303 – Aug 15
- Ask the Expert – every other Wednesday

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

U.S. EPA ENERGY STAR

Energy Management Trainings and Certifications

- Premier Certified Energy Manager (CEM®) Training Program – Jul 10 to Jul 14

[Click here for more information.](#)

- Certified Measurement & Verification Professional (CMVP®) Training Program – Jul 31 to Aug 2

[Click here for more information.](#)

The Association of Energy Engineers

Clean Buildings Performance Standard

Emergency Rule workshops

- Tier 2 Incentive Program, administrative rules and reporting requirements, and Tier 1 amendments – Jul 13
- Cumulative Review – Aug 24

[Click here for more information.](#)

WA State Department of Commerce

2021 Energy Code Update Series

- CO₂ CHPHW for Efficiency, Decarbonization, and Load Shift in Bayview Towers – Pt. 2 – Aug 1

[Click here for more information.](#)

Lighting Design Lab

Building Operators Certification

Free overview on the BOC Program.

- Aug 2 via Zoom

[Click here to register.](#)

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 19 & 20, 2023 to Feb 27, 2024 in Seattle
 - Level II class
 - Oct 25, 2023 to Feb 29, 2024 via Zoom

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

- Oregon
 - Level I class
 - June 1, 2023 to Dec 1, 2023 via Zoom

[Click here for BOC Oregon information.](#)

Building Operators Certification, Northwest Water & Energy Education Institute

Smart Buildings Exchange

A three day hybrid conference connecting participants to the latest information and technologies in the smart buildings industry.

- Aug 15- 17, 2023 in Seattle + virtual

[Click here for more information.](#)

Smart Buildings Center

BCxA Events

BCxA Annual Conference

- Oct 4 – Orlando, FL

New Construction and Existing Building workshop and the one-day Building Enclosure Workshops

- Nov 13 – Austin, TX

[Click here for more information.](#)

Building Commissioning Association

2023 Decarbonization Conference for the Built Environment

Oct 25 to Oct 27 in Washington D.C. Metro Area

[Click here for more information.](#)

RESOURCES

Federal Energy Management Program

Although the Federal Energy Management Program (FEMP) works with federal stakeholders to provide helpful resources to help federal agencies meet their energy and water management goals, the information is useful for non-federal employees also. The FEMP Operations & Management (O&M) website links to more specific pages: Equipment O&M Summaries, Re-tuning, O&M Challenges and Solutions, and Commissioning. The FEMP O&A pages provide considerable information and many helpful resources: best practices, equipment, checklists, publications, tools, technical assistance, funding opportunities, cybersecurity, maintenance approaches, and workforce development. In addition, there is an extensive FEMP training catalog featuring both online and on-site trainings. [Click here for more information.](#)

Clean Buildings Performance Standard Document Library

The Clean Buildings Performance Standard (CBPS) now has a webpage listing guides, flowcharts, and tools to facilitate accurate interpretation of the CBPS. These documents are now available on the [Clean Building Performance Standard Document Library](#) page.

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



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