

## RCM News for July 2021

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

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## ANNOUNCEMENTS

### Washington State Clean Buildings Initiative

July 1 marked the official start for the Washington State Clean Buildings Standard and corresponding Early Adopter Incentive Program. The parcel list of covered commercial buildings that may be subject to the Clean Buildings Standard or possibly eligible for the Early Adopter Incentive Program has been posted to the [Building Owner Notification webpage](#). For the Early Adopter Incentive Program, building owners will be notified when they may submit an application by filling out the “Intent to Apply” form found on the [Early Adopter Incentive Program webpage](#). The Washington State Clean Buildings Performance Standard (an integration of ASHRAE Standard 100-2018 and WA Amendments (WAC 194-50)) is available for download by visiting the [How to Comply webpage](#) and clicking on the “2. Read” step. And finally, the form to report ASHRAE level 2 energy audit results (Form D) for the Clean Buildings Standard, if necessary, can be found on the [U.S. Department of Energy’s Energy Asset Score webpage](#).

### Washington State Solar Grants Program

The Washington State Department of Commerce is now accepting applications for solar grants, through their [Energy Retrofits for Public Buildings – Solar Grants Program](#). Eligible projects are new solar photovoltaic systems net metered with existing publicly-owned buildings or facilities in Washington. Questions about the program are accepted until August 6, applications are due by August 19, and awards are announced in November 2021.

## ARTICLES

### Carbon Dioxide Concentrations

Breathing high concentrations of carbon dioxide (CO<sub>2</sub>) indoors is known to lead to health problems. In [“Do You Have Too Much Carbon Dioxide in Your Facility?”](#), published in the July issue of *Building Operating Management*, Kenneth Alambra and Dominik Czernia delve into the chemical components of air and how a body reacts chemically and mechanically to CO<sub>2</sub>. They provide a link to their CO<sub>2</sub> breathing emission calculator which estimates levels of CO<sub>2</sub> concentration in a room, indicating whether or not additional ventilation is required.

### Existing Building Energy Reduction

The need to greatly reduce energy use in California’s existing commercial buildings prompted a major research project, recently completed, led by New Buildings Institute and funded by the California Energy Commission. The project, [“Leading in LA”](#), was designed to develop and test a technology package consisting of advanced lighting and wireless controls, automated solar-powered window shades, and minor HVAC retro-commissioning. Significant total building annual energy consumption was shown to be reduced in both lab testing and field demonstrations. Resources accessible from the article include project results, installer guide, case studies, and a recorded webinar.

### Outdoor Lighting

The effort to reduce use of outdoor lights to mitigate nighttime light pollution is evidenced by certain LEED and WELL Building Institute’s certification requirements, as well as adoption of laws to reduce light pollution by a growing number of states and municipalities. Outdoor lighting at night also wastes energy when light is dispersed where not needed. In [“Win-Win Outdoor Lighting for People and Environment”](#), in the July 2021 issue of *Building Operating Management*, Christina Halfpenny discusses new DesignLights Consortium (DLC) specifications to maximize energy savings while mitigating three categories of light pollution. Through specification requirements for light distribution thresholds and dimming control, among others, DLC will develop a Qualified Products List that will allow users to make well-informed choices.

### Strategic Energy Management

A recent report prepared for the North American Strategic Energy Management (SEM) Collaborative provides clear evidence that SEM for industrial and commercial buildings is cost-effective. [“Survey: Energy Management Proves Cost Effective in Industrial and Commercial Buildings”](#), a press release from American Council for an Energy-Efficient Economy (ACEEE), summarizes findings of the report, titled “Strategic Energy Management Program Persistence and Cost Effectiveness”, with research conducted by Lawrence Berkeley National Laboratory and ACEEE. Although methodology to calculate savings among SEM programs vary, the data shows that SEM is successful at reducing energy costs.

## UPCOMING EVENTS & TRAINING OPPORTUNITIES

### Better Buildings Summer Webinar Series

- Waste Reduction: Lessons Learned and What Comes Next – Aug 3

[Click here for more information](#)

*U.S. Dept of Energy Better Buildings*

### ENERGY STAR® and Portfolio Manager® Trainings

All are online webinars.

- Portfolio Manager 101 – Aug 5
- Streamline Portfolio Manager Data Entry with Web Services – Aug 17
- Portfolio Manager 201 – Aug 19
- Portfolio Manager 301 – Aug 24
- Saving Water and Costs in Restrooms with WaterSense – Aug 25
- Ask the Expert – Most Wednesdays at 9:00 AM Pacific time

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

*U.S. EPA ENERGY STAR*

### 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 29, 2021 through Apr 7, 2022 Zoom course for Western WA residents
    - Oct 20, 2021 through Apr 14, 2022 Zoom course for Eastern WA and Idaho residents
  - Level II classes
    - Oct 13, 2021 through Mar 31, 2022 – via Zoom

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

- Oregon
  - Level I classes
    - Aug 5, 2021 through Feb 3, 2022 via Zoom
  - Level II classes
    - Sept 7, 2021 through Feb 8, 2022 via Zoom

[Click here for BOC Oregon information](#)

*Building Operators Certification*

### Oregon APEM Summer Series 2021

- August 12, speakers TBD

[Click here for more information](#)

*Oregon Association of Professional Energy Managers*

### Green Transportation Summit & Expo

The 10<sup>th</sup> annual summit: “Reflecting & Refocusing on a Resilient Future”.

- Aug 16-18, 2021 – Tacoma, WA

[Click here for more information](#)

*Green Transportation*

### Smart Buildings Exchange Conference

Two-day free 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.

- Aug 24-25, 2021 – Virtual

[Click here for more information](#)

*Smart Buildings Center, NEEC*

### Northwest Facilities Expo

A broad based facilities event with an emphasis on green buildings that features the latest products and services in the industry.

- September 1-2, 2021 – Portland, OR

[Click here for more information](#)

*NW Facilities Expo*

### Benchmarking Energy Use and Assessing Energy and GHG Performance During a Pandemic

- Sept 9, 2021

[Click here for more information](#)

*U.S. EPA ENERGY STAR*

### Smart Building Center Technical Webinar Series

- Plug Load Efficiency for Commercial Buildings – Sept 29, 2021

[Click here for more information](#)

*Smart Buildings Center*

### 2021 Getting to Zero Forum 2021

Event offering discussion and education on zero energy and zero carbon buildings.

- Oct 27-29, 2021 – New York City

[Click here for more information](#)

*New Buildings Institute*

## RESOURCES

### Waste Reduction

Resources and solutions for increasing waste diversion, reducing waste generation, and thus creating financial savings are available on the U.S. Department of Energy Better Buildings [Waste Diversion and](#)

[Reduction](#) webpage. Resources for policies and audits, data availability, source reduction, and employee outreach and engagement may be of assistance for waste reduction and recycling programs.

### Smart Buildings Technology

The premiere issue of [Smart Buildings Technology](#) has been launched, with articles on smart building assessments, data network design, and building automation controls.

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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)

