

RCM NEWS

RCM News for December 2012

A newsletter for Resource Conservation Managers in the Northwest

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Building Science

"[ENERGY STAR Data and Reporting](#)" is a web page announcing the release of the new ENERGY STAR Data Trends reports. These include reports from both the Portfolio Manager DataTrends Series and the ENERGY STAR Snapshot. The former provide overviews of Portfolio Manager benchmarking and some close views of particular types of buildings using Portfolio Manager. The ENERGY STAR Snapshot shows key performance indicators for the commercial and industrial program.

Data Centers

"[Data Centers: Retrofit or Replace?](#)" was written by staff; it was published in the November 2012 issue of *Buildings*. A retrofit costs much less than a replacement although in some cases a replacement is necessary. This article explains when it's best to retrofit or replace.

Facility Operations

The Fall 2012 issue of [Shop Talk](#), a publication by the WSU Energy Program Plant Operations Support Consortium, features articles useful to RCMs. "Community College Member Gets Down and Dirty with Asset Tracking" by Consortium Staff Phil Partington and Larry Covey discusses tracking assets in order to define life cycle of equipment replacement and create a preventive maintenance program. "Managing Motor-Driven Systems" by WSU Energy Program Engineer Tony Simon addresses how pumps, fans, air compressors and rooftop units can offer significant savings without much investment of capital or labor.

HVAC/R (Heating, Ventilation, Air Conditioning, and Refrigeration)

"[Dedicated Outdoor Air Systems Save Energy, Lots of Energy](#)" is a five-page PDF written by Eric T. Truelove, PE, GGA, LEED AP BD+C, The Renschler Company; this PDF was noted, with a link, in the December 2012 issue of the Energy Center of Wisconsin's *News Briefs*. It is a discussion of dedicated outdoor air systems as applied to several small commercial buildings.

Thermal Technologies

"[Five Tips for Achieving Furnace-Lining Efficiency](#)," was authored by Steve Chernak, Manager of Applications Engineering, Morgan Thermal Ceramics, and published in the October 2012 issue of *Industrial Heating*. The tips include using infrared thermography, conducting on-line maintenance repair and selecting materials to rebuild a compromised lining with attention to the suitability of their design.

Water

The following two articles, of possible interest to resource managers of either academic or state government buildings, were carried in the November 2012 issue of *Water Efficiency*:

1. "[Taking It to the Next Level](#)" is a four-Web-page article by Dan Rafter, describing the role that AMI (advanced metering infrastructure) plays in managing and reducing water use and associated costs. The article also discusses the differences between AMI and AMR (automatic meter reading).
2. "[Power Boosters](#)," by Ed Ritchie, offers several examples of on-site energy generation combined with improved performance of water utilities. Energy dollars saved through off-peak use of energy or through less energy needed is shown to be dramatic.

Wind

"[Honeywell and Lake Region State College Break Ground on a Wind Turbine for Energy Production & Training](#)," appeared in the Vol. 4 No. 41 (likely October 2012) issue of *North American Clean Energy Wind News*. The turbine will generate about 4,300 MW hours of power more than the college needs every year. The electricity will be sold to the local utility creating a new revenue stream for the college.

[School Wind Project Locations](#) is a Web page of Wind Powering America, a program at DOE's Office of Energy Efficiency and Renewable Energy. It shows the locations of wind energy projects at educational sites around the country including K-12, community colleges and technical schools, and universities. In Washington State there are four that are operational and one in the planning stage; in Oregon, both of its projects are operational; Idaho and Montana have nine and two programs, respectively, all of which are in operation.

Upcoming Events & Training Opportunities

ENERGY STAR® Webinars

- Designing and Implementing Successful Data Center Efficiency Programs – Jan. 3, 2013
- Data Center Energy Efficiency Opportunities, What Managers Should Know – Jan. 10, 2013
- The Basics of Benchmarking in Portfolio Manager – Jan. 15, 2013
- The Basics of Benchmarking in Portfolio Manager – Feb. 19, 2013

[Click here for information](#)

US EPA

AEE (Association of Energy Engineers) Realtime Online Seminars

Webinars and live interactive courses you can take from your computer. Programs are generally two to three hours long, over a period of days. Dates following course names below are start dates.

Below is a sampling of courses – refer to website for a complete list.

- Developing an Energy Management Master Plan – Jan. 8, 2013
- Choosing and Using Lighting Controls – Jan. 10, 2013
- Life Cycle Costing for Energy Professionals – Jan. 14, 2013
- Saving Energy in HVAC Systems – Jan. 23, 2013

- Advanced Lighting Retrofit Options – Jan. 28, 2013

<http://www.aeeprograms.com/realtime/>

Energy Efficient Schools - the Grants and Results

This regular morning meeting of the Cascadia Green Building Council, Tacoma Olympia Branch, features a presentation by the OSPI Coordinator of High Performance Schools and Energy Grants. Looking at the relationship between high-performance design and construction and energy efficiency grant work, the presentation will focus on OSPI funded energy efficiency measures, along with the project costs and first-year performance results.

- Jan. 10, 2013 in Tacoma

[Click for information](#)

Tacoma Olympia Branch Cascadia Green Building Council

Energy Benchmarking Using ENERGY STAR® Portfolio Manager

This workshop provides an introduction to using Energy Star Portfolio Manager, including how to establish energy and water baselines, assessing your building's energy performance, and setting targets for improving performance over time. Free for Kilowatt Crackdown participants.

- Jan. 10, 2013 in Boise, ID
- Feb. 6, 2013 – online webinar

[Click here for registration information](#)

BOMA, NEEA, BetterBricks, City of Portland, Idaho Power

5th Annual NW Industrial Energy Efficiency Summit

The focus of this summit is industry sharing knowledge with industry. Educational sessions include "Great Industrial Energy Efficiency Projects" and "Combined Heat and Power & Waste-Heat Recovery Landscape."

- Jan. 16, 2013 in Portland

[Click for information](#)

NWFPA, BPA, NEEA, Energy Trust of Oregon

Optimize Energy Investments with Data Driven Strategies

This webinar features using data from controls and data loggers to approach decisions for a building's capital and operational budget.

- Jan. 16, 2013 online webinar

[Click here for more information](#)

Onset

Showcase for Emerging Technologies Webinar

Continuing into 2013, this webinar series features emerging technologies and systems that show promising potential to save energy in the NW region.

- Jan. 23, 2013 online webinar

[Click here for more information](#)

WSU Energy Program, BPA, WAPA

Portland General Electric Seminars and Webinars

Portland General Electric offers educational seminars and webinars free of charge to its commercial, industrial and institutional customers. Similar customers of other utilities are welcome to attend for a small fee.

- Calculating Energy Costs – Jan. 23, 2013 online webinar
- Understanding LEDs – Feb. 21, 2013 online webinar

[Click here for complete course schedule](#)

Portland General Electric, Energy Trust of Oregon, NEEA, BetterBricks

AIA+2030 Professional Series

The Seattle Chapter of American Institute of Architects presents a series of ten sessions offering strategies to reach 60% reduction in fossil fuel greenhouse gas emissions and giving design professionals knowledge to create super-efficient buildings. Appropriate for facilities managers, policymakers and construction professionals as well as architects and engineers. Must register for entire series.

- First class is Feb. 8, 2013, and then monthly thereafter

[Click here for more information](#)

AIA Seattle, BetterBricks, City of Seattle, Architecture 2030

Building Operator's 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 are usually one or two full days a month.

- **Washington State**

- Level I – Apr. 10 through Oct. 10, 2013 in Seattle
- Level I – Apr. 24 through Oct. 24, 2013 in Spokane
- Level I – May 14 through Sept. 17, 2013 in Redmond
- Level I – May 21 through Nov. 5, 2013 in Renton
- Level I – Sept. 17, 2013 through Mar. 5, 2014 in Tri-Cities
- Level II – Oct. 2, 2013 through Feb. 12, 2014 in Lacey
- Level II – Oct. 3, 2013 through Feb. 13, 2014 in Everett

<http://www.theboc.info/wa/wa-schedule.html>

- **Oregon**

- Level I – Jan. 23 through Jun. 5, 2013 in Portland
- Level I – Jan. 24 through May 9, 2013 in Corvallis
- Level I – Mar. 21 through Jun. 27, 2013 in Salem
- Level I – Apr. 9 through Jul. 23, 2013 in Bend
- Level II – Mar. 26 through Jun. 19, 2013 in Pendleton

[Click for BOC Oregon information](#)

Building Operator Certification

9th Annual Energy/Facilities Connections Conference

“From Coveralls to the Corner Office” is the title of the 2013 conference, which is a 2½ day event bringing together experts and colleagues for workshops, hands-on training, networking and useful information related to facilities and energy.

- May 7-9, 2013 in Leavenworth, WA

[Click for registration information](#)

WSU Energy Program

Resources for You

Plant Operations Support Consortium

The purpose of the [WSU Plant Operations Support Consortium](#) is to increase the efficiency and sustainability of facility operations by providing timely and creative technical assistance, education and consultation to support facility construction, operation and maintenance. Eligible members include state and local governments, tribal governments, and nonprofit organizations. Members receive a variety of services specifically adapted to their needs, including energy audits and assessments, energy data tracking and interpretation, facility management assistance, custodial operations support, equipment brokering and locating, and other services such as technical assistance and consultation. Call 360-956-2055 or email plantops@energy.wsu.edu for more information about what a memberships.

Energy Efficiency Grant Opportunities in Washington State

Public higher education institutions and local governments are eligible to apply for 2012 energy efficiency grants from the Washington State Department of Commerce. **Deadline for round two applications has been extended to January 15, 2013.**

<http://www.commerce.wa.gov/Programs/services/CapitalFacilities/Pages/EnergyEfficiencyGrants.aspx> .

K-12 school districts are also eligible for energy grants, specifically for energy operational cost savings, through the Office of Superintendent of Public Instruction. Applications are due **February 15, 2013** for round two. School districts must conduct an investment-grade audit and use either Energy Savings Performance Contracting or traditional design-bid-build contracting method.

<http://www.k12.wa.us/SchFacilities/Programs/EnergyImprovement/EnergyGrantProgram.aspx>.

Energy Events Calendar

<http://www.energyexperts.org/TrainingEducationandEmployment/EventsCalendar.aspx>

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