

RCM NEWS

RCM News for June 2012

A newsletter for Resource Conservation Managers in the Northwest

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RCM Profile

The most recent Resource Conservation Manager profile published by Washington State University Energy Program features Brian Goldstein, Shared RCM for Chimacum School District, City of Port Townsend, Fort Worden State Park, Jefferson County and Port Townsend School District. [Keeping his eyes on the stars and his feet on the ground](#) highlights how Brian assesses and tracks resource use for numerous sites in order to identify resource-saving strategies for the partner agencies.

Building Holidays

One of the easiest ways to save energy is to turn off equipment when it's not needed. Check to see if your building management system is set for a holiday schedule on Wednesday, July 4th for Independence Day. Most systems let you designate holidays for the entire year, saving staff time and ensuring holiday weekdays are in unoccupied mode. Remember to check your lighting system too, since it may have separate controls.

Find out more about building scheduling at

<http://betterbricks.com/DetailPage.aspx?ID=492#EquipmentScheduling>

Brought to you by BOC® - Building Operator Certification, www.theBOC.info

Benchmarking

"[Advanced Energy Benchmarking](#)" was written by Joseph Aamidor and Jim Kummer, PE, both of Johnson Controls Inc.; it was published in the April 2012 issue of *HPAC Heating/Piping/AirConditioning Engineering*. New, energy-benchmarking applications are available for the facilities manager to compare energy use between facilities and/or between one facility and the rest of the industry. The authors describe what these new apps have to offer in the service of energy savings.

"Energy Star" is a four-part article written by Naomi Millàn, Senior Editor, in the April 2012 issue of *Building Operating Management*. This is a discussion of Energy Star's Portfolio Manager, including tips on how to use it from facility managers, how to avoid mistakes, and preparing for the future by using Portfolio Manager.

- Part 1: "[Using Energy Star's Portfolio Manager: Tips from Facility Managers.](#)"
- Part 2: "[How to Get Started With Energy Star's Portfolio Manager.](#)"
- Part 3: "[Portfolio Manager: How to Avoid Mistakes with Energy Star Online Benchmarking Tool.](#)"
- Part 4: "[What the Future Holds for Energy Star's Portfolio Manager.](#)"

Building Science

"[UW Tacoma's Joy Building Receives Highest Green-Building Certification](#)," by Beth Luce, is a February 1, 2012, University of Washington (UW) press release. It is a case study of the repurposing of an 1892 facility on the Tacoma campus of the Seattle-based UW. Energy and water savings are dramatic and daylighting and water efficiencies abound. Building Operations includes green cleaning.

"Will it Work? Evaluating New Technology" is a four-part cover story by Rita Tatum, Contributing Editor, in the April 2012 issue of *Building Operating Management*. Trading one technology for a newer one can be a daunting task when the technologies in question are expensive, complex to learn, and difficult to evaluate. The author offers facilities managers suggestions for how to proceed including where else to turn for further information:

- Part 1: "[Facility Managers Explain How They Minimize Risks and Maximize Rewards of New Technology.](#)"
- Part 2: "[Evaluating New Technology: Business Analysis, Third-Party Tests Can Prevent Problems.](#)"
- Part 3: "[Where Facility Managers Can Find Information, Guidance on Evaluating New Technology.](#)"
- Part 4: "[New Building Technology: How Facility Managers Can Insulate Their Organizations from Risks.](#)"

Controls

"Lighting Controls" was written by Loren Snyder, Contributing Editor in the April 2012 issue of *Building Operating Management*. It is a discussion of how to select the right controls for the specific application given the variety of products available and given the requirements of the existing building's infrastructure. Above all, it urges the facilities manager not to lose sight of the goal of saving energy dollars, the reason for the controls effort in the first place:

- Part 1: "[Careful Planning for Lighting Controls Can Prevent Problems.](#)"
- Part 2: "[With Lighting Controls, Facility Managers Should Understand Products, Building's Wiring.](#)"
- Part 3: "[Testing is Key to Avoiding Lighting Control Projects Problems.](#)"
- Part 4: "[Lighting Controls: Facility Managers Should Understand, Educate Occupants.](#)"

"Controls" was written by Angela Lewis, P.E., LEED AP, and Project Professional at Facility Engineering Associates; it is a three-part article published in the May 2012 issue of *Building Operating Management*. The author reviews how the approaches covered in the parts of the article can be used effectively in sustainable, high-performance, green buildings:

- Part 1 is [Energy Benchmarking Software Tools Help Reduce Energy Use.](#)
- Part 2 is [Energy Dashboards: Criteria for Selection for Facility Managers.](#)

Part 3 is [Energy Analytics Crunch Large Amounts of Data to Help Reduce Energy Costs](#).

"[Wireless Building Controls: Less Is More](#)" was authored by Ron Rajecki Senior Editor, *HPAC Heating/Piping/AirConditioning Engineering*; it was published in the May 2012 issue of that journal. Generally higher priced, wireless building controls are expected to be quite cost-competitive in the near future. Even so, the technology can be an excellent investment now, and an on-site review of certain facilities by a specialist in building automation might be warranted.

Retrofits

"[Reducing Operating Costs through Energy Retrofits](#)," by Lance English, Southland Industries, appeared in the May 2012 issue of *HPAC Heating/Piping/AirConditioning Engineering*. It shows a step-by-step plan for accomplishing an energy retrofit with excellent results. The building used as an example in this article is a manufacturing facility.

Utility Incentives

"Close-Up: Utilities," by Maryellen Lo Bosco and published in April 2012 in *Building Operating Management*, is a helpful discussion of utility incentives for the facilities manager:

Part 1: "[Earning Energy Efficiency Rebates: Tips for Facility Managers](#)."

Part 2: "[With Utility Rebates, Complex Rules Can Trip Up Facility Managers](#)."

Upcoming Events & Training Opportunities

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 complete list.

- Boiler & Steam System Cost Control – Jul. 10, 2012
- Life Cycle Costing for Energy Professionals – Jul. 11, 2012
- Electrical Engineering Fundamentals for Non-Electrical Engineers – Jul. 16, 2012
- Lighting Retrofits – Jul. 19, 2012
- Energy Management Master Plan – Jul. 23, 2012
- BEP Certification Training Course – Jul. 25, 2012
- CEM Preparatory Course for Energy Managers – Aug. 1, 2012
- Designing and Maintaining an Energy Manager Position – Aug. 3, 2012

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

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 – Jul. 17, 2012 online webinar free to everyone
- CFO's Perspective of EE & Renewables – Jul. 26, 2012 online webinar free to everyone.

http://portlandgeneral.com/business/news_classes/classes/default.aspx

Portland General Electric, Energy Trust of Oregon, NEEA, Better Bricks

Energy Benchmarking using Energy Star Portfolio Manager – Seattle compliance

Intended to support compliance with the City of Seattle's building energy benchmarking and disclosure ordinance, this hands-on session teaches how to benchmark your building's energy performance.

- Jul. 18, 2012 in Seattle

<http://neea.org/participate/calendar.aspx?eventID=3597>

NEEA BetterBricks and City of Seattle

Energy Efficiency of Chilled Water Systems and Cooling Towers

- Jul. 18-19, 2012 in Pocatello, ID

Attendees will learn how technology improvements to chilled water systems can reduce energy costs by more than half. Also includes case studies and cooling tower efficiency measures.

<http://neea.org/participate/calendar.aspx?eventID=3403>

NEEA Industrial Training Project, ID Power Co, ID Office of Energy Resources, Rocky Mountain Power, BPA, WSU Energy Program, NW Food Processors Assoc.

Heat Recovery Chillers

Learn about proper application of heat recover chillers, and requirements for operations and maintenance to ensure good performance. Open to everyone. BOC graduates receive CEU for successful completion of webinar and quiz.

- Jul. 19, 2012

<http://www.theboc.info/m-live-webinars.html>

Building Operator Certification

GovEnergy

- Aug. 19-22, 2012 in St. Louis, MO

Registration is now open for this annual event training for federal energy management community.

<http://www.govenergy.com/>

Building Operator's Certification

74 hours of training and project work in building systems maintenance.

- Washington State
 - Level II – Aug. 28, 2012 through Jan. 12, 2013 in Seattle (*just added*)
 - Level II – Oct. 31, 2012 through Feb. 12, 2013 in Renton

<http://www.theboc.info/wa/wa-schedule.html>
- Oregon
 - Level I – Sept. 2012 through Mar. 2013 in Medford, OR
 - Level I – Sept. 12, 2012 through Dec. 5, 2012 in Tigard, OR
 - Level II – Sept. 2012 through Feb. 2013 in Wilsonville, OR

http://www.nweei.org/images/pdf_files/current_master_oregon_sched.doc

Resources for You

Energy Efficiency Grant Opportunities

Public higher education institutions and local governments are eligible to apply for 2012 energy efficiency grants from the Washington State Department of Commerce. \$18 million is available to local governments, and \$20 million to higher education for projects using Energy Savings Performance Contracting or equivalent. Grants are awarded in two rounds – round one applications are due July 2,

2012 and are for applicants with ready to go projects (final investment grade audit completed). Round two applications are due December 31, 2012. Applications for both rounds will be available May 24, 2012 on Commerce's website (www.commerce.wa.gov/).

K-12 school districts are also eligible for energy grants, specifically for energy operational cost savings, through the Office of Superintendent of Public Instruction. \$40 million has been additionally allocated as part of the 2011-13 capital budget and will be awarded in three rounds. The first round has recently been granted from the previous budget year's applicants. \$14 million will be awarded in the second round in November 2012 and \$20 million in round three in February 2013. 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>.

Commercial Building Re-tuning Training

Pacific Northwest National Laboratory (PNNL) initiated the [Commercial Building Re-tuning](#) project for the U.S. Department of Energy's Building Technologies Program, as a low-cost path to energy efficiency and cost savings. PNNL offers on-site training as well as a free interactive e-learning course, enabling participants to reduce operating cost and provide energy savings to their building. The intended audience is employees responsible for daily building operations, contractors hired to improve a building's energy efficiency, and college students interested in entering the field.

March to Savings

March to Savings is a call to action to encourage all Washington state employees to save energy during the spring of 2012. Yet it's so much more than that – it's useful for all employees and managers everywhere. Designed and implemented by WSU Energy Program, in partnership with the Department of Enterprise Services, the program features the [March to Savings website](#) providing myriad resources such as fact sheets to save energy at work, links for saving energy at home, interesting how-to videos, tips on changing work habits, examples of energy-saving success stories, and plenty of resources for more information.

Energy Experts eNews

You can now get energy-related news from EnergyExperts.org and other energy-related organizations on Facebook and Twitter. <http://www.energyexperts.org/NewsFeeds.aspx>

Energy Events Calendar

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

Washington RCM Support

Washington State University Energy Program RCM Support

Check out the "RCMx". 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.

<http://www.energy.wsu.edu/PublicFacilitiesSupport/ResourceConservation/RCMx.aspx>

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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



www.energy.wsu.edu