

## RCM News for February 2010

A newsletter for Resource Conservation Managers in the Northwest

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### Climate Change

For facility managers of government buildings, schools, or academic campuses, impending impacts on the cost of energy are of major importance. "What You Need to Know about Climate Change Legislation," by Lindsay Audin, is a two-part article published in the December 2009 issue of *Building Operating Management*:

Part 1: How Cap and Trade Regulations Work and Who May Be Affected. This includes a bit of the history that precipitated the current iteration of cap-and-trade. See Part 1 at <http://www.facilitiesnet.com/green/article/How-Cap-and-Trade-Regulations-Work-and-Who-May-Be-Affected--11359> .

Part 2: Preparing for Cap and Trade and Its Impact on Energy Costs. This gives clear information and includes two sidebars, "Carbon-Cutting Timelines" and "Zeroing In On Who's Affected." Part 2 is at <http://www.facilitiesnet.com/green/article/Preparing-for-Cap-and-Trade-and-its-Impact-on-Energy-Costs--11360>

### Green Power Partners

Green Power Partnership is a program of the U.S. Environmental Protection Agency (EPA). The program enables organizations to obtain green power more cheaply than might otherwise be possible. A brief article, "Top Partner Rankings," explains the program and includes links to the quarterly rankings (as of January 5, 2010) of various types of partners. The page links to several categories of lists with descriptions: the National Top 50 (which includes states, local governments, universities, schools, and private companies), the Top 20 K-12, the Top 20 Local Governments, the Top 20 Colleges and Universities (which include Oregon State University and Washington State University), and others. To see the brief article and the links to the quarterly rankings, go to <http://www.epa.gov/greenpower/toplists/index.htm> .

### HVAC (Heating, Ventilation, and Air Conditioning)

"New Ways to Reduce Costs," by Dan Rafter, is a five-web-page article describing various efforts by facilities managers to save energy dollars. A case study of Duquesne University's success with thermal energy storage begins the article. The author follows with various other suggestions such as more reasonable pay-back periods than just three years, retro-commissioning of HVAC systems, energy audits, HVAC system tune-

ups, HVAC economizers, and solar water-heating. Other approaches suggested include using cheaper electricity generated during off-peak hours, replacing rooftop units with newer, efficient ones, and using energy peak energy saving. See this article in *Distributed Energy*, November/December 2009, at <http://www.distributedenergy.com/november-december-2009/new-ways-reduce.aspx> .

## Lighting

"Cutting the Life-cycle Cost of Lighting" by Lindsay Audin, is a four-part article in the December 2009 issue of *Building Operating Management*, in the December 2009 issue of the journal of the same name:

Part 1: Examine Use Requirements and Design before Choosing Lighting Fixtures. The author warns about what to avoid and why. See Part 1 at <http://www.facilitiesnet.com/lighting/article/Examine-Use-Requirements-and-Design-Before-Choosing-Lighting-Fixtures--11343> .

Part 2: Consider Energy and Maintenance Costs in Lighting Life-cycle Assessments. This includes the sidebar, "Found Money: Incentives and Rebates." Part 2 is at <http://www.facilitiesnet.com/lighting/article/Consider-Energy-and-Maintenance-Costs-in-Lighting-Lifecycle-Assessments--11344> .

Part 3: Proper Disposal of Lamps and Ballasts. The author includes one link to a description of each state's disposal requirements of mercury-containing lamps and ballasts and a second link to an interactive map to find licensed recyclers by state. Part 3 can be viewed at <http://www.facilitiesnet.com/lighting/article/Proper-Disposal-of-Lamps-and-Ballasts--11345> .

Part 4: Lighting Product Showcase features 35 products. See Part 4 at <http://www.facilitiesnet.com/lighting/article/Lighting-Product-Showcase--11346> .

## Water

Irrigation Case Study: Shoreline School District is a page on the website of the Saving Water Partnership -- the partnership consists of Seattle Public Utilities and participating local water utilities. The case study describes how the Shoreline School District reduced its irrigation water bill by half. See this case study at [http://www.savingwater.org/docs/irrigation\\_casestudy.pdf](http://www.savingwater.org/docs/irrigation_casestudy.pdf) .

## Internship Opportunities

### Internship Available

Cascade Power Group in Seattle, WA is currently seeking qualified interns for the spring and/or summer quarters of 2010. Opportunities cover a wide range of cutting-edge interests, projects and policies centered around energy efficiency and renewable energy. For more information, contact Cascade Power Groups via email at [info@cascadepower.com](mailto:info@cascadepower.com) and please reference the internship position.

## Upcoming Events & Training Opportunities

### Building Operator Certification (BOC) – Live Technical Webinars

March 18, 2010 – Energy Tune Up – Addressing Problems with Sensor Error and Simultaneous Heating & Cooling

July 21, 2010 – Energy Tune Up – Optimizing Outside-Air Usage & Equipment Scheduling

September 16, 2010 – Energy Tune Up – Measurement Tools for Building Energy Diagnostics

<http://www.theboc.info/webinars/index.html>

### Online Building Science Series

March 8 – August 9, 2010

12 online courses, 2 hours long. Each webinar can be taken as a series or individually. Learn about fundamentals of building science and the energy efficiency industry, or becoming a certified energy auditor.

First class on March 8 is Building Performance Basics Online Course, an introduction to building science and the home energy audit process. Intended for anyone interested in green jobs, building performance or Building Analyst 1 certification.

<http://www.psdconsulting.com/solutions/academy/courses/bpsaweb1001>

### Building Operator Certification (BOC) – Level I and Level II Certification course schedule

Level I courses

Everett – March 10, 2010 – September 1, 2010

Renton – April 22, 2010 – October 7, 2010

Tacoma – September 14, 2010 – March 1, 2011

Seattle – October 19, 2010 – April 12, 2011

Description of courses - <http://www.theboc.info/training.html>

[http://www.theboc.info/wa/schedule\\_wa.html](http://www.theboc.info/wa/schedule_wa.html)

### Energy-Facilities Connections Conference

May 12-14, 2010 in Leavenworth, WA

This conference presents economic and energy conservation opportunities from a facilities perspective. Includes sessions on energy efficiency, resource accounting, green cleaning, and demonstrations of diagnostic tools.

WSU Extension Energy Program Plant Operations, with sponsorship from NW Energy Efficiency Council, BetterBricks, Mac-Donald-Miller Facilities Solutions, and McKinstry.

<http://www.energy.wsu.edu/apps/PlantOperations/EnergyFacilitiesConnectionsConference.aspx> or call 360-956-2057

### West Coast Energy Management Congress

June 15 - 16, 2010 in Seattle, WA

The largest energy conference and technology expo held on the U.S. West Coast specifically for business, industrial and institutional energy users.

[www.energyevent.com](http://www.energyevent.com).

### On-Line AEE Self Study Professional Training Courses

Course titles such as “Basics of Energy Management”, “Fundamentals of HVAC Systems” and “Finance & Accounting for Engineers & Technicians” (new) are available in a home-study format.

<http://www.aeecenter.org/training/>

## Energy Events Calendar

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

## College-level Education Opportunities

### Edmonds Community College, Edmonds, WA – Energy Efficiency Training

A two-year Associate of Technical Arts degree in Energy Management is suited for people currently working in the industry, seeking entry-level work in the field, or taking on new responsibilities in energy efficiency at their workplace. Most classes are offered evenings and online. Certificates are also available that can be completed in six months. For more information go to [www.edcc.edu/energy](http://www.edcc.edu/energy) or call 425-640-1640.

### Cascadia Community College, Bothell, WA – Energy Management Specialist Certificate

The Energy Management Specialist Certificate prepares a person for employment in careers such as energy auditor, energy analyst, building technician, resource conservation manager, and system technician.

[http://www.cascadia.edu/programs/professional\\_technical\\_certificates/energy\\_management\\_specialist.aspx](http://www.cascadia.edu/programs/professional_technical_certificates/energy_management_specialist.aspx)

### South Seattle Community College, Georgetown Campus – Green & Sustainable Training Programs

Existing Energy Audit Courses and Certification prepares students for national certification programs such as the Building Performance Institute and Energy Star.

Other programs include Conservation and Weatherization, Building Sustainability Managers intended for current building managers, and a Pre-Apprenticeship Program to prepare students for energy utility, green building, and electrical green jobs fields.

[http://www.southseattle.edu/green/georgetown\\_campus.html](http://www.southseattle.edu/green/georgetown_campus.html)

For more information, contact Joe Hauth at [jhauth@sccd.ctc.edu](mailto:jhauth@sccd.ctc.edu)

### Everett Community College

New programs include a four-course Sustainable Business Operations Management Certification (for students with some previous business experience) and a five-day Residential Energy Auditor Certification.

<http://www.everettcc.edu/green/index.cfm?id=10836> or call 425-388-9243.

## Resources for You

### Olympia School District website

The Olympia School District has recently updated their Resource Conservation website with useful tools, links, and information.

[http://osd.wednet.edu/schools/resource\\_conservation/](http://osd.wednet.edu/schools/resource_conservation/)

### Washington RCM Support

Washington State University Energy Program RCM Support

Check out the “RCMx” where we have moved the RCM Guidebook into web format. 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/projects/rem/rcm.cfm>

Oregon RCM Support

Oregon Department of Energy RCM Support

<http://oregon.gov/ENERGY/CONS/RCM/rcmhm.shtml>

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Previous issues of RCM News may be viewed at the WSU Energy Program RCM support page:

<http://www.energy.wsu.edu/rcmx/Meetings.aspx>

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