

RCM News for June 2010

A newsletter for Resource Conservation Managers in the Northwest

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Energy Management

"A Piece of the Pie," by Jim Poad, Director of Client Solutions, Advantage IQ, describes the energy management possibilities that data on energy use can offer the end user, in this case a pizza restaurant. See this article *ED+C (Environmental Design + Construction)*, May 2010, at http://www.edcmag.com/Articles/Article_Rotation/BNP_GUID_9-5-2006_A_1000000000000807077 .

"Fresh Thinking for K-12 Schools: Energy Management" is a three-part article by Greg Zimmerman, Executive Editor, *Building Operating Management*. It appeared in that journal's April 2010 issue:

Part 1: Public School Facility Managers Can Use Energy Management Campaign to Spur Savings. The campaign assumes that ideas can be offered by anyone and ideas are free. Two examples of schools which used these ideas as a foundation to their energy management efforts are highlighted. See Part 1 at <http://www.facilitiesnet.com/educationalfacilities/article/Public-School-Facility-Managers-Can-Use-Energy-Management-Campaign-to-Spur-Savings--11636> .

Part 2: Collaboration with Maintenance Staff Key to Eliminating Energy Waste. Specific examples of energy waste are cited. More importantly, gaining the cooperation of maintenance and other staff, including teachers, is discussed. The difficulties encountered and resolved are addressed. Part 2 is at <http://www.facilitiesnet.com/educationalfacilities/article/Collaboration-With-Maintenance-Staff-Key-to-Eliminating-Energy-Waste--11637> .

Part 3: School District Uses Lighting Retrofits, Chiller Replacements to Conserve Energy. This case study focuses on two school districts. One, after accomplishing energy reductions from changes in building operations and building occupants' behaviors, went on to adding upgrades in lighting and energy management, and new chillers. The other is taking several other tacks: requiring all its buildings to be registered with Energy Star, retrofitting some buildings for demand-response, and participating in a utility-sponsored rebate program. Part 3 is available at <http://www.facilitiesnet.com/educationalfacilities/article/School-District-Uses-Lighting-Retrofits-Chiller-Replacements-to-Conserve-Energy--11638> .

Green Cleaning

"Getting On Board with Green Cleaning," by Maryellen Lo Bosco, is a two-part article published in the April 2010 issue of *Building Operating Management*; the approaches recommended to bring staff to accept green cleaning can be used in schools, academic institutions, and government buildings:

Part 1: Moving to Green Cleaning Methods Requires Buy-In from Maintenance Staff. Suggestions for how to proceed are included. See Part 1 at

<http://www.facilitiesnet.com/green/article/Moving-to-Green-Cleaning-Methods-Requires-Buyin-From-Maintenance-Staff--11643> .

Part 2: Visual Cues Can Help Janitorial Staff, Bathroom Occupants Transition to Green. Part of the education of staff in green cleaning involves various kinds of signage. View Part 2 at <http://www.facilitiesnet.com/green/article/Visual-Cues-Can-Help-Janitorial-Staff-Bathroom-Occupants-Transition-to-Green--11644> .

HVAC (Heating, Ventilation, and Air Conditioning)

"Target: Cost Savings" is a three-web-page article by Sue Marquette Poremba. The author addresses the problems that public entities face when trying to justify the expense of HVAC upgrades that include new equipment or entirely new systems for older public buildings. She offers some reasonable solutions. See it in *Distributed Energy*, May/June 2010, at <http://www.distributedenergy.com/may-june-2010/target-cost-savings-1.aspx> .

Landscaping

"Green Landscapes, Greener Operations" is a four-part article by Dan Hounsell, Editor, *Maintenance Solutions* and published in the May 2010 issue of that trade journal:

Part 1: Mowers Fuel Grounds Departments' Sustainability Initiatives. The biggest impact of the interest in sustainable grounds is, currently, in the specifying of motorized equipment. See Part 1 at <http://www.facilitiesnet.com/groundsmanagement/article/Mowers-Fuel-Grounds-Departments-Sustainability-Initiatives--11748> .

Part 2: Grounds Management - Utility Vehicles Replacing Pick-Up Trucks. While utility vehicles are replacing pick-ups, the next wave is beginning: that of electric utility vehicles replacing those that are fueled by gasoline. See Part 2 at <http://www.facilitiesnet.com/groundsmanagement/article/Grounds-Management-Utility-Vehicles-Replacing-PickUp-Trucks--11749> .

Part 3: Green Grounds Care - Managers Focus on Irrigation Systems, Hand-Held Equipment. See Part 3 at <http://www.facilitiesnet.com/groundsmanagement/article/Green-Grounds-Care-Managers-Focus-on-Irrigation-Systems-HandHeld-Equipment--11750> .

Water

"Going Green by Saving Blue: Efficient Irrigation Design and Practices Save Money on Water and Energy," by Joanna Kind, Environmental Scientist, Eastern Research Group Inc., and Member, LEED Technical Advisory Group, focuses on landscape water. While the article shows the importance of water efficiency for LEED certification for new facilities, all the detailed tips that comprise the bulk of the article are equally applicable to existing ones. See this article in *Buildings*, April 2010, at <http://www.buildings.com/Magazine/ArticleDetails/tabid/3413/ArticleID/9714/Default.aspx> .

Zero-Waste Cafeterias

"Launching Zero Waste Schools" was written by Gary Cuneen, Founder and Co-Director, Seven Generations Ahead. Changes to the serving of food, the disposal of leftovers, and the introduction of new low- or no-waste efforts have resulted in a 79% reduction in waste at seven elementary schools in Oak Park, Illinois. The same approaches may be taken in other settings where there is cafeteria service for

state and/or municipal employees. See this article in *BioCycle*, March 2010, at <http://www.igpress.com/archives/free/002050.html#more> .

Upcoming Events & Training Opportunities

Smart Metering, Load Profiling & Demand Response

Online live seminar –identical sessions below:

Sept. 8-10, 2010

Nov. 3-5, 2010

Dec. 13-15, 2010

A series of three interactive live two-hour time modules, this seminar shows you how to analyze “smart meter” data to gain a clearer understanding of your electrical loads and to use the information to control and minimize peak demand and energy costs.

<http://www.aeeprogams.com/realtime/LPonline/>

The Three R's: Repairs, Renovations and Retrofits

Building Science Experts' Session

July 14-15, 2010 in Seattle, WA

A two-day seminar that teaches the basic knowledge needed to repair, renovate and retrofit existing buildings, and discusses building science principles.

<http://www.buildingscienceseminars.com/seminars/3rs/index.html>

Re-envisioning the Traditional Hospital Prototype for Energy Efficiency and Human Comfort

BetterBricks and Practice GreenHealth

July 16, 2010 – Webinar

<http://www.practicegreenhealth.org/tools/webinars/calendar/details/555>

Building Operator Certification (BOC) – Live Technical Webinars

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

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

See website for other pre-recorded webinars.

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

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

Ideal for operations and maintenance staff working in public and private commercial buildings. Classes meet one day a month.

Level I courses

Tacoma – Sept. 14, 2010 to Mar. 1, 2011*

Seattle – Oct. 19, 2010 to Apr. 12, 2011

Level II Courses

Renton – Sept. 14, 2010 to Feb/ 3, 2011*

Free Informational Web Cast

Sept. 9, 2010

* *dates subject to change*

http://www.theboc.info/wa/schedule_wa.html

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>

Resources for You

Indoor Air Quality News – Spring 2010

Newsletter focusing on indoor air quality (IAQ) in Northwest schools. “HVAC Basics for Teachers” article is a guide to help teachers operate their ventilation equipment properly, improving both energy efficiency and IAQ. A WSU Extension Energy Program publication.

http://www.energy.wsu.edu/documents/building/iaq/nl/10_spr_iaq_nl.pdf

Operating and Maintaining EnergySmart Schools Web-Based Training

A new multimedia/online training tool developed by the US Dept of Energy to help school facilities management staff and decision-makers understand what is required to optimize energy efficiency, develop a practical O&M strategy, and put it into action.

<http://doe.cefpi.org/>

The training tool is an interactive version of the Guide to Operating and Maintaining EnergySmart Schools. http://apps1.eere.energy.gov/buildings/publications/pdfs/energysmartschools/ess_o-and-m-guide.pdf

King County Green Schools Program

Provides K-12 schools and school districts in King County with assistance, resources, and recognition to help improve their conservation practices. See success stories at

<http://your.kingcounty.gov/solidwaste/greenschools/participants.asp>

Website at www.kingcounty.gov/GreenSchools

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>

RCM News is prepared by the Washington State University Extension Energy Program

This project is funded in whole or in part by funds made available through the American Recovery and Reinvestment Act (ARRA). This funding was awarded by the US Department of Energy through the Energy Policy Division of the Washington State Department of Commerce under Energy Efficiency and Conservation Block Grant No.DE-EE0000849

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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