BONNEVILLE POWER ADMINISTRATION

Energy EFFICIENCY Customer Newsletter

JULY 2008, VOLUME 12, ISSUE 4

Utilities Promote CFL Recycling Pilot

Flathead Electric Cooperative and Ravalli Electric Cooperative are participating in a mercury-containing product recycling pilot project that began May 1. The project is coordinated by the Product Stewardship Institute (PSI), Women's Voices for the Earth (WVE) and Ace Hardware.

Consumers in Montana, South Dakota and Utah can recycle compact fluorescent lamps (CFLs), four-foot fluorescent tubes and mercury-containing thermostats at participating Ace Hardware stores through the end of December*. Participating Montana stores are located in Billings, Bozeman, Great Falls, Hamilton, Helena, Kalispell, Laurel, Missoula, Polson, Ronan and Whitefish.

Ross Holter, Director of Energy Services at Flathead Electric, was approached by representatives of the WVE Missoula, Mont.,

Continued on page 11

Northwest Energy Efficiency Taskforce Meets

The newly formed Northwest Energy Efficiency Taskforce (NEET) met for the first time June 18. These experts from around the region underscored that the Pacific Northwest can't start soon enough to add to the region's impressive energy-efficiency improvements of the last two decades.

Over the next several months, the taskforce will develop a roadmap to advance energy-efficiency achievements in the Northwest. By accelerating efforts to tap the vast potential of electric power efficiency, the region will further reduce demand for power, improve environmental quality, and lower costs for consumers who face the seemingly never-ending escalation of fuel costs.

"The outcome of this effort will be actionable items to improve what the region already does very well," said Ken Canon, taskforce coordinator.

Continued on page 16

Northwest Energy Efficiency Alliance Appoints New Executive Director

Claire Fulenwider

Portland, OR - Northwest Energy Efficiency Alliance (NEEA) announced May 19 the appointment of Claire Fulenwider as its new executive director.

"NEEA's unique and collaborative role in the region continues to be vital," said Craig Smith, NEEA's Chairperson and Assistant General Manager of Snohomish County PUD. "We believe Claire's proven leadership, experience, and vision will bring fresh ideas to the table and help advance energy efficiency and accelerate market transformation for the region. We're very excited to have her on board."

Fulenwider brings with her 30 years of leadership experience in the energy industry

Continued on page 6

Index on Page 2

News from around the region

Governor's Energy Advisory Group

Oregon Governor Ted Kulongoski recently chartered an Energy Efficiency Advisory Group to make recommendations regarding possible legislative proposals to advance the progress of energy efficiency. This group currently includes more than 50 members representing a wide variety of organizations and interests. Over the next four months the group will explore a variety of topics with the goal of recommending legislative proposals for the Governor to move forward. .

-- Submitted by Mike Weedall

Vera Water and Power Celebrates Centennial

Vera Water and Power, Veradale, Washington, celebrated its Centennial on April 25 in the city park.

Highlights of the event include a picnic, compact fluorescent lamp and energy efficient showerhead giveaways, and a display of vintage Cadillacs. Vera also gave attendees a Vera logo "bolt bucket."

Vera Water and Power celebrates its first 100 years in the city park in front of the district office. *Photo by Andrew McAlpin , Leo's Portraits Spokane.*

Speakers included the mayor of Spokane Valley and Vera's board chairman Rob Oeflein and general manager Kevin Wells and many others. Helen Haden, daughter of an early Spokane Valley pioneer, pushed a button to start a new fountain following the dedication of the new water feature.

Continued on page 12

Inside

The BPA Energy Efficiency newsletter is published quarterly on or about the first day of the months of January, April, July, and October. Send contributions to Carrie Nelson, KLJB-1, Bonneville Power Administration, P.O. Box 3621, Portland, OR 97208, or e-mail your ideas/articles/photos to eenewsletter@bpa.gov.

Pressure Testing and Sealing Homes for a Safer, Healthier and More Cost-Efficient Environment

This article reprinted in full from the Northwest Office of Native American Programs April 2008 newsletter.

The Burns Paiute Tribe is the first tribe in 14 years to become a direct weatherization testing sub-recipient from the State of Oregon.

With equipment provided through a grant from the Bonneville Power Administration, the housing department can test for carbon dioxide and carbon monoxide levels, and number of air exchanges per hour in their homes. An infrared camera detects hot and cool spots throughout the home.

The housing department has a goal to pressure test all 152 homes in their inventory for leaks. By utilizing various tools, they are able to determine where unhealthy air (from crawl space, attic, garage, and basements) is entering the home. These spaces are sealed and the home re-tested for unhealthy leaks.

Burns, Oregon, is fortunate in being a dry climate, which negates the need for mechanical ventilation in the homes. There is also a strong focus on resident education with an emphasis on keeping homes clean and naturally ventilated, reporting plumbing leaks, and eliminating unvented combustible appliances.

Combined, these measures are creating healthier, more energy efficient homes for families.

For more information on healthy homes and indoor air quality visit:

- www.epa.gov/iaq
- www.doh.wa.gov/ehp
- www.hud.gov/offices/lead
- www.eere.energy.gov/buildings/building_america/rh_0804_ashrae.html

The High Water Mark World

On June 10, 60 brown bag participants heard Mat Northway of Eugene Water and Electric Board and Eugene Rosolie of PNGC Power present their analyses of energy efficiency in a high water mark world (HWM).

Northway presented three options that are available to utilities:

1. Do no conservation
2. Install conservation measures before 2010
3. Install conservation measures after 2012

The outcome of his analysis is that utilities will not be hurt by doing active conservation, and they will likely have a positive outcome.

Eugene Rosolie offered a basic analysis that concluded that funds spent on conservation will cost less than Tier 2 power. Utilities that underachieve in conservation will be no better off, but utilities that conserve 1 percent of their load should see a positive benefit on their HWM.

Facilitator Josh Warner concluded that doing conservation now is a hedge against risk.

-- Becky Clark (503) 230-3158

Teton Valley Sustainability Fair

The Teton Valley Green Forum is hosting a Sustainability Fair to promote increased awareness about sustainability in their community. Some key themes are energy conservation, sustainability education, efficiency and alternative transportation. Exhibit booths are free, but all applications are screened to ensure the participant/organization's mission is in alignment with various categories they are promoting at the fair. The Fair is free for those who want to attend, and will take place on Thursday, July 10, 2:00 - 6:00 pm, in Driggs, ID.

For more information contact Christina Thomure at (208) 705-0252, or by email at cthomure@grandtarghee.com. For additional information go to: http://www.tetoninfo.org.

--Dick Stroh (208) 612-3154

Utility "Celebrities" Field Calls

Chuck Stocker (L), Rosalie Nourse, Dan Villalobos and Erin Hope field calls at the Q6 help center.

Staff from Inland Power and Light, Avista Energy and BPA recently manned the phones during two evening newscasts at KHQ TV, Spokane, Washington. The station invited Inland's Dan Villalobos, marketing manager and Chuck Stocker, public relations specialist to help field calls from the public on energy efficiency issues during *Go Green Week*. Inland recruited BPA's Erin Hope, engineer, and Rosalie Nourse, Energy Efficiency Representative, to help field calls.

As calls came in, the person answering the phone would pass the receiver to the caller's servicing utility representative. With nine utility representatives taking calls, it wasn't long before the phone cords were a comical tangled mess. One rep reported taking 15 calls on topics ranging from how compact fluorescent lights work on a dimmer switch to how to save energy in a manufactured home.

Dan Villalobos said, "It was interesting to listen to folks' energy concerns and very rewarding to hear how pleased they were to get information from us. 'Just goes to show the importance of energy efficiency education."

-- Rosalie Nourse (509) 625-1368

PTR Technical Support Hours Changed

Nora Miller (Synergy) provides technical support for the Planning, Tracking and Reporting (PTR) system that BPA customers use to report energy efficiency accomplishments. Miller's availability for PTR support has recently been reduced from five days to four days a week, from 9 a.m. to noon and from 1 p.m. to 4:30 p.m., Pacific Time. She will be out of the office each Wednesday.

Customers who need immediate PTR assistance during the hours Miller is not available can contact their BPA Energy Efficiency Representative or Contracting Officer's Technical Representative (COTR).

-- Grant Vincent (503) 230-5499

Brown Bag Call Playback Feature

BPA Energy Efficiency now subscribes to digital replay availability for anyone who wants to hear an Energy Efficiency Brown Bag presentation after-the-call.

Call the number provided, and then enter the code for the audio of the missed Brown Bag. View the visuals related to the topic on your computer as you listen to the audio.

- Visuals will remain on the Web site under "Past Brown Bag Sessions" at: http://www.bpa.gov/Energy/N/Utilities%5FSharing%5FEE/Utility%5FBrown%5FBag/.
- The audio will be available for two months after a scheduled Brown Bag call (unless a longer period of time is requested). The service has zoom-ahead and pause features that are described at the beginning of the call.

After-the-call phone and code numbers will be provided in the original meeting request announcing the Brown Bag or by contacting an Energy Efficiency Representative.

-- Becky Clark (503) 230-3158

What's New with Energy Smart Design – Office?

Three Energy Smart Design™ – Office packages have been developed since October, as well as two websites (one for customers and one for utilities).

The new Energy Smart Design – Office (ESD Office) is divided into packages A, B and C:

- Package A - a combination of packages B and C, including seven measures that must be installed to qualify for the incentive
- Package B - a "design-build" sub-set of package A, includes only five of the seven measures. The intent is to accommodate speculative buildings by paying the incentive for the shell and HVAC measures as soon as they can be verified, with the understanding that the lighting may change based on the tenant's requirements. Therefore, a building can still get credit for the shell and HVAC measures, even if the lighting power density is over the requirement.
- Package C includes the remaining two lighting measures

Note: Package A and C qualify for the 2005 Energy Policy tax deduction of 30 cents per square foot, but they do not qualify for lighting rebates.

These packages are intended to be an easy way to save time, energy and money (because modeling or measurement and verification are not required). Additionally, a building that meets all of the Advanced Building Core Performance Guidelines and ESD Office requirements, can qualify for up to five Energy and Atmosphere points in the Leadership in Energy and Environmental Design (LEED) new building prescriptive track. Thus, the ESD Office packages incent for cost-effective, electrical savings associated with the LEED new building prescriptive track.

Since designers are responsible for delivering buildings that meet the specifications, as well as all of the required documentation, the first 10 designers to deliver complete documentation will receive a $500 reward in the form of a debit card. This reward will compensate designers for work that the owner may want that was not negotiated for originally. The $500 reward will be sent as soon as the Energy Efficiency Representative receives confirmation from the utility that the documentation is complete.

Buildings that don't meet every aspect of the prescriptive specifications might qualify through a new ESD Office option called Trade-Offs. Trade-Offs are for minor deviations from deemed packages such as substituting an overhang for the Solar Heat Gain Coefficient requirement, or a comparable integrated part load value for the Tier 2 requirement. Designers must submit the trade-off form with all the other documentation, demonstrating that the electricity savings will be greater than or equal to the ESD Office design package.

-- Mira Vowles (503) 230-4796

Eleven BPA customers won customized Energy Smart Design banners at the utility workshop for use with commercial projects. From left: Bob Kajfasz, City of Port Angeles, Mira Vowles, BPA, Mattias Jarvegren, Clallam County PUD, stand next to the Port Angeles banner.

New NEEA Executive Director

Continued from page 1

and has a passion around energy efficiency and conservation. Immediately after completing her doctorate in political science/public policy at the University of Wisconsin at Madison in the 1970s, she served as Director of Energy Policy Research at the Wisconsin Center for Public Policy, where she managed various grants related to conservation, renewable energy and appropriate technology.

At Madison Gas & Electric she was hired as manager of conservation services with a staff of one in the early 1980s - growing that to a department of 50 - and into a division which included marketing and customer services. During this period she was instrumental in creating the Energy Center of Wisconsin, a successful regional organization around energy efficiency. Claire spent several years working for energy service consulting companies, serving as a principal and head of the Madison Xenergy office and then A&C Enercom. Moving to Wisconsin Power and Light as Vice President of Business Development, she also assumed responsibilities as President and Chief Operating Officer of Heartland Energy Group. More recently, she has been involved in consulting and lecturing around energy efficiency, including training and development projects on energy efficiency with the American Public Power Association and for US AID in five states in India.

"This is an important time for energy efficiency to take a priority position for the region," said Fulenwider. "I'm honored to be given the opportunity to lead such a diverse and accomplished alliance toward a common mission. I am equally impressed with the Board and with NEEA's staff, and am delighted to be a part of the winning NEEA team."

She succeeds Margie Gardner who served as NEEA's Executive Director for ten years before leaving to join the Bonneville Environmental Foundation earlier this year.

-- Aaron Cohen, NEEA (503) 827-8416, x228

About NEEA

NEEA is:

- A non-profit organization working to encourage the development and adoption of energy-efficient products and services.
- Supported by electric utilities, public benefits administrators, state governments, public interest groups and energy efficiency industry representatives.

For more information, visit http://www.nwalliance.org.

Energy Strategy for the Road Ahead

To help companies learn how to begin planning, ENERGY STAR partnered with a scenario-planning and business strategy consulting firm called the Global Business Network. The organizations convened workshops with top corporate and facility executives from more than 20 companies. The result was a report titled, "Energy Strategy for the Road Ahead: Scenario Thinking for Business Executives and Corporate Boards."

An article about the report is available at the following link:

http://www.facilitiesnet.com/bom/article.asp?id=8383&keywords=energy%20efficiency,%20energy%20star

-- Patricia Tawney (503) 230-4315

Green Professionals Conference

The inaugural Green Professionals Conference was held in Portland on June 2, receiving positive feedback from the attendees and exhibiters at the event. The event was hosted by The Future of Energy Group, Fluid Market Strategies, Smashing Ideas Inc. and Compass Human Resources.

Mira Vowles, an engineer for BPA's Energy Efficiency group said, "The Green Professionals Conference was an exciting confluence of experienced energy geeks and potential energy geeks. Several jobs were posted at the event and I'm sure many were filled on the spot. BPA's booth was one of the most visited; there were a lot of inquiries about what BPA is doing for education and outreach."

Continued on page 16

Hello friends,

The full SolWest Renewable Energy Fair program has been posted on the web at http://www.solwest.org. This year's SolWest is an incomparable educational event featuring keynote speaker Greag Pahl on Community Energy, 54 workshops, 40 exhibitors; as well as many ways to observe and get hands-on experience with renewable energy and sustainable living technologies. There is no better opportunity in the Northwest for learning and networking with other renewable energy enthusiasts!

Check out our online program, and let me know if I can answer any questions. If you haven't contacted us in two years, and you wish to receive a printed fair program in the mail, please send your current mailing address.

See you at SolWest!-- Jennifer Barker

EORenew/SolWest Fair
PO Box 485 • Canyon City OR 97820
541-575-3633 • info@solwest.org

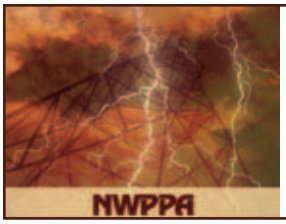
Save the date for the SolWest Fair

July 25 - 27

EnergyIdeas Clearinghouse Offers Valuable Services

Some EnergyIdeas Clearinghouse (http://www.EnergyIdeas.org) services have been reduced or are no longer offered. However, EnergyIdeas' technical services are still available to regional utilities and regional service providers (state energy offices, ETO, Power Planning Council and BPA). Although the Web site no longer provides technical content, EnergyIdeas will research and respond to specific energy-related questions from these key clients.
-- Linda Witham, Project Manager, WSU Extension Energy Program, 360-956-2129, http://www.energy.wsu.edu

DOE Solid-State Lighting Market Introduction Workshop
July 9-11, Portland, OR
http://www.netl.doe.gov/ssl/PortlandWorkshop.html



Northwest Public Power Association 2007-2008 Education & Conference Schedule

http://www.nwppa.org/html/web/2007-08_NWPPA_Education_Schedule.pdf

Industrial Efficiency Alliance Training

http://www.industrialefficiencyalliance.org/training.html

New technology

A "Sunny Place"

Arizona Public Service (APS) plans to construct and operate one of the largest solar plants in the world. Abengoa Solar, an organization whose involvement with the development of solar technologies dates back to the 1980s, has signed on with APS for the construction of the plant.

The solar facility, "Solana," will have 280 megawatts (MW) of power output capacity. APS will purchase 100 percent of the renewable energy produced by Solana, which at full capacity could provide enough energy for 70,000 of the homes served by APS.

Solana, which translates to "sunny place," is welcomed by the governor of Arizona, Janet Napolitano. She proudly describes the plant as a ". . . major milestone for Arizona in [its] efforts to increase the amount of renewable energy available in the United States." (Business Wire, February 21, 2008)

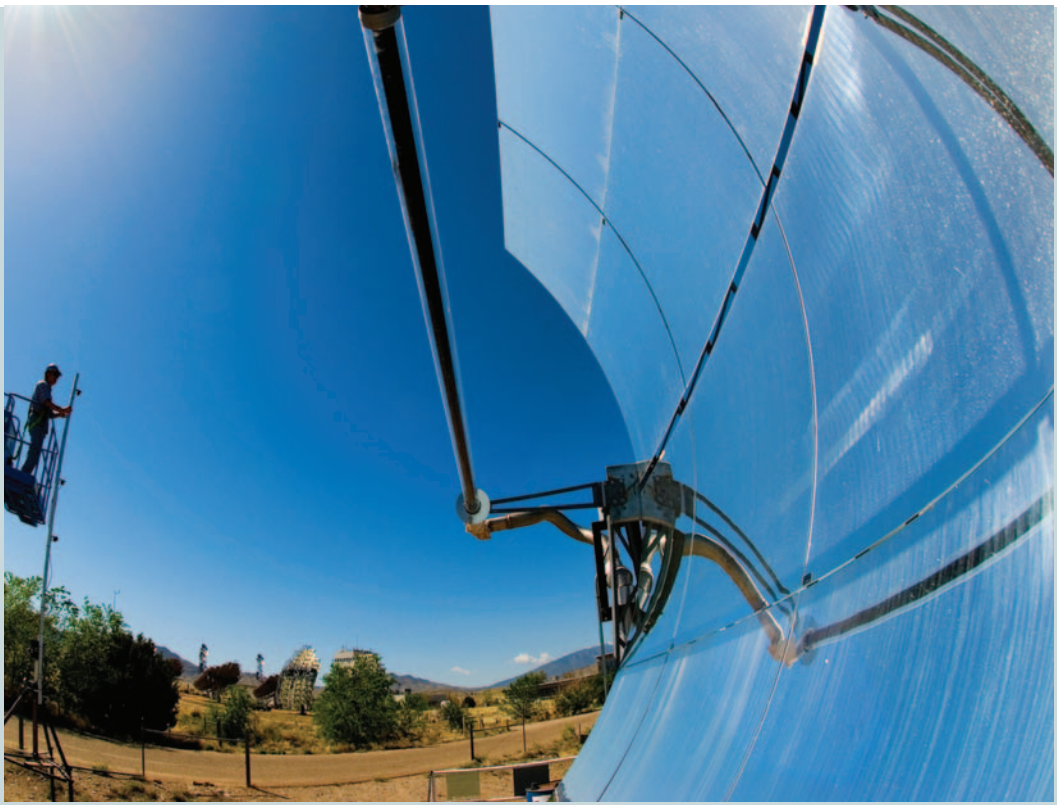
In addition to providing electricity, the plant will provide about 1,500 jobs during construction and 85 additional jobs upon completion. Gila Bend, the closest town to Solana, will benefit from these employment opportunities, as will Phoenix, which is approximately 65 miles from the future site of the plant.

The solar plant is expected to be operational by 2011. It will be the largest renewable energy resource for APS.

-- Carrie Nelson (503) 230-4785

HERE COMES THE SUN – Sandia researcher Rich Diver sets up a device he has developed to calibrate trough-type solar dish collectors to maximize the amount of sunlight they capture. *Photo by Randy Montoya*

Parabolic Trough Technology tracks sunlight throughout the day, reflecting the light using parabolic mirrors. This design turns the sunlight into highly concentrated energy, which eventually is used to create steam. Using a conventional steam engine, the steam is used to create energy for APS customers.



A *Gulliver's Travels* View of Wind Turbines

At a Northwest Regional Group meeting at Umatilla Electric, Ken Patterson, Clatskanie PUD, demonstrates how big wind turbines can be at the Stateline Wind Project. The project is located on a ridge of land along the Washington – Oregon border, near Pendleton, Ore.

According to Todd Munsey, Douglas Electric Co-op, there were 454 of the turbines " . . . in the middle of lush wheat fields." *Photo by Todd Munsey*

July Wind Workshop

International Wind Forecast Techniques and Methodologies

A Utility/Balancing Authority Focused USA/European Wind Forecasting technical workshop identifying the leading international wind forecasting approaches for the operations and dispatch of large scale wind.

Learn the latest techniques, methodologies and research to forecast wind energy

Develop "Best Practices" to establish the metrics of an accurate wind forecast

Sponsored by the
Bonneville Power Administration
and
California Independent System Operator

Portland Marriott Downtown
1401 SW Naito Parkway
Portland, Oregon 97201
July 24 - 25
Workshop Cost $175.00
Reception, July 23

For more information and to register for the Workshop, visit the following Web sites:

- http://www.regonline.com/USAEuropeanWindWorkshop
- **Workshop Summary:** http://www.bpa.gov/corporate/business/innovation/docs/2008/International_Wind_Forecast_Summary.pdf
- **Request for Presentations:** http://www.bpa.gov/corporate/business/innovation/docs/2008/Request_for_Presentations.pdf
- **Draft Workshop Agenda (updated periodically):** http://www.bpa.gov/corporate/business/innovation/docs/2008/Wind_Forecasting_Workshop_Agenda_062608.pdf

Vintners Take Notice

The Oregon winery industry has a new software application to use in tracking and managing energy and water resources. The University of Oregon Solar Monitoring Laboratory "Best Winery" Web page states that "Best Winery . . . was originally developed by Lawrence Berkeley National Laboratory, and was targeted specifically to serve the California wine industry. Now the Solar Monitoring Laboratory has adapted it for Oregon's wine producers and made it available to download and use throughout the state."

Continued on page 12

Groundbreaking Program: PUD 3 to Provide for CFL Recycling

Reprinted from the Mason County PUD No. 3 Energy News Digest

To mark Earth Day on April 22, Mason County PUD No. 3 will be setting up compact fluorescent light (CFL) bulb recycling stations at its Shelton and Belfair offices. In doing so, the local utility will be among the first in the nation to make such a service a continuous part of its conservation program.

The program is specifically for customers of PUD 3, a public utility based in Shelton, Washington.

"With an increased emphasis on using these energy efficient bulbs, it is logical that customers be given a way to conveniently and safely recycle their burned out bulbs," said Jay Himlie, PUD 3 power supply manager. "Although there have been limited CFL recycling promotions and some pilot projects elsewhere, we committed ourselves to making this a long-term part of our conservation efforts," he said.

The PUD has arranged with the City of Shelton and Mason County to collect the bulbs and take them to the County's recycling station on Eells Hill Road.

"The disposal of CFL bulbs is complicated by the fact that they contain a very small amount of mercury," said Tracy Farrell, environmental projects coordinator with the City of Shelton. "With the location of the recycling stations in Shelton and Belfair, citizens will have a safe, convenient place to take their bulbs, where they know they will be handled safely and recycled correctly."

Each compact fluorescent light bulb contains up to five milligrams of mercury, about 1/100th the amount in a thermostat or dental amalgam, according to the U.S. Environmental Protection Agency. A standard fluorescent light tube can contain up to 46 milligrams of mercury.

PUD 3 customers who have purchased CFL bulbs have been generally pleased with the light output, the anticipated energy savings and the extended life when compared to incandescent bulbs. Fluorescent bulbs can last up to 10,000 hours and use 70 percent less electricity than the conventional incandescent bulbs that only last 1,000 hours.

When bringing bulbs to the recycling stations, customers are asked to place them carefully in the correct slot. Damaged or broken bulbs will not be accepted.

Citizens can continue to recycle fluorescent tubes and compact fluorescent light bulbs at the Mason County Solid Waste Transfer Station at 501 W. Eells Hill Road.

The recycling stations at PUD 3 also accept household batteries for proper disposal.

-- Joel Myer, Public
Information Officer
Mason Co. PUD No. 3
(360) 432-5259

Mercury found in everyday devices around the home (Colorado Department of Public Health and the Environment).

Product	Amount of Mercury	Number of Equivalent CFLS
Compact fluorescent lamp	5 milligrams	1
Watch battery	25 milligrams	5
Dental amalgams	500 milligrams	100
Home thermometer	500 milligrams - 2 grams	100 - 400
Float switches in sump pumps	2 grams	400
Tilt thermostat	3 grams	600
Electrical tilt switches & relays	3.5 grams	700

Utilities Promote Recycling

Continued from page 1

office. Holter said, "They called to ask if we would like to sponsor a recycling program. There were no recycling programs available in Montana for mercury-containing products. We were really interested in recycling and had talked with local landfill and electrical wholesalers and retailers about recycling options. We think this will be well received. It's critical that people recycle. This pilot helps complete the circle of what needs to happen. We are responsible for the CFLs we promote. All utilities need to get on board."

Holter was impressed enough by the concept that he referred it to Jim Maunder, Manager of Member Services for Ravalli Electric.

Participating utilities sign an agreement with PSI. The one-time cost of the program to utilities varies, depending on the level of recycling expected in the utility's service territory.

- Flathead's fee was $500, but they partnered with Flathead County Solid Waste (FCSW) District to split the cost; thus, each paid $250 for the entire term of the agreement.
- Ravalli's fee was $300.

The agreement also requires utilities to promote the program; Flathead and Ravalli do so primarily through their newsletters. The utility logo is placed on the sides of the plastic-lined cardboard collection boxes in the Ace store.

Ravalli participated in the fall Change a Light (CAL) campaign and extension. "CAL and the recycling project will complement each other," said Maunder. "Ravalli benefits from the project through positive public relations with consumers by encouraging energy efficiency through the promotion of green products and services. CFLs use less energy and help keep the environment healthy." They can also last up to 13 times longer than incandescent bulbs.

Where there is a service territory overlap with NorthWestern Energy, NorthWestern consumers can participate.

Continued on page 12

CFLs contain a small amount of mercury (enough to cover the tip of a ball point pen). No mercury is released when the bulb is intact. However it is important to recycle the bulbs at an appropriate facility.

For more information about CFLs and mercury concerns please go to the Energy Star site: http://www.energystar.gov/ia/partners/promotions/change_light/downloads/Fact_Sheet_Mercury.pdf.

For general information on CFL recycling, please go to the EPA site: http://www.epa.gov/epaoswer/hazwaste/id/univwast/lamps/region10.htm

Information specific to the Northwest region:

Idaho: Contact local city or county offices for recycling centers. Or, contact the Idaho department of Environmental Quality's Waste Management and Remediation Division (208) 373-0502

Oregon: Call 1-800-732-9253 for recycling information. For online information on county specific recycling and collection, go to: http://www.deq.state.or.us/lq/sw/hhw/collection.htm

Washington: State residents can dial 1-800-RECYCLE to speak with a real person between the hours of 9 a.m. and 3 p.m. Monday through Friday. For online information go to: https://fortress.wa.gov/ecy/recycle/

Montana: Contact the Montana Department of Environmental Quality (DEQ) Waste Recycling contacts at: 1-800-433-8773. For online information go to: http://deq.mt.gov/Recycle/Real_Question.asp

The Product Stewardship Institute (PSI) is a national environmental institute with membership from 44 states, 51 local governments, and more than 20 businesses, environmental groups, and organizations that establishes cooperative agreements to reduce the health and environmental impacts from consumer products. http://www.productstewardship.us

Women's Voices for the Earth (WVE) is a national non-profit women's environmental health and justice organization that works to reduce or eliminate toxic chemicals that adversely impact human health, and to engage women as active participants in creating healthy communities. www.womenandenvironment.org.

Popular Lighting Technology Brown Bag Host

BPA mechanical engineer, Craig Ciranny, has hosted eight brown bag sessions since fall that address lighting technologies. Ciranny said, "With the constant improvements of lighting products I could continue these updates for years."

In the brown bags, Ciranny provides contact information and links to new lighting products such as CooLED Sticks, long life Kumho Lamps, photocontrols and LED exit signs. A recent discussion addressed the concern over lamp failures reported for one manufacturer.

To access presentation materials, go to the following Energy Efficiency Brown Bag Web site and select "Past Brown Bag Sessions"

http://www.bpa.gov/Energy/N/Utilities%5FSharing%5FEE/Utility%5FBrown%5FBag/.

For more information, contact Ciranny, or attend the Brown Bag calls. BPA Energy Efficiency Representatives can provide the number and the code for each meeting.

-- Becky Clark (503) 230-3158

Energy Efficiency Engineer Craig Ciranny is concerned about Maxlite lamp failures such as this fluorescent tube in the Tillamook PUD warehouse.

Vintners Take Notice

Continued from page 9

The Oregon wine industry continues to grow, and with higher energy costs, energy efficiency is becoming more important.

To learn more, visit http://www.bpa.gov/Energy/N/agriculture.cfm and click on the link to the Best Winery Guidebook (78 pp.) and benchmarking software.

Other states may want to follow suit in adapting the software to their winery industry.

-- Becky Clark (503) 230-3158

Utilities Promote Recycling

Continued from page 11

PSI set up and coordinated the project, which requires no reporting by utilities. Prepaid labels are provided to Ace which ships full boxes of recycled products to Veolia Environmental Services or Thermostat Recycling Corporation where the mercury is removed and other materials recycled.

These firms are licensed and bonded, so there is no liability to the utility.

Ravalli handed out 4-packs of CFLs at its annual meeting June 7. About 1,200 bulbs were distributed, along with an Environmental Protection Agency (EPA) fact sheet about mercury. Maunder said, "It was important to have the recycling mechanism in place prior to the event, so that information could be provided to consumers."

-- Tom Hannon (509) 625-1360

**There is a per consumer recycling limit of seven mercury-containing products*

Vera Water and Power Celebrates Centennial

Continued from page 2

Utility customers, retired staff, friends and associates attended the celebration and exchanged "many wonderful stories of the old days" of both the utility and the community. Vera Water and Power hopes to continue providing the best service at the lowest cost to the community for another 100 years.

-- Rosalie Nourse (509) 625-1368
(Submitted by Gail Gibson, Vera Communications Director)

In the Federal Sector

Brown Presents Paper at Energy and Environmental Symposium

One of BPA's Energy Efficiency Representatives, Frank Brown, was invited to present a paper he and Kate Patton (Ciber/Seattle) co-authored titled, "The successes of BPA Energy Efficiency's Federal Agency Energy Program" at the Western Federal Energy and Environmental Symposium at Big Sky, Montana, June 16 - 20.

The selected paper features a successful Regional Forest Service tree nursery project and another successful project conducted at a Puget Sound Navy Base. Brown and Patton submitted the paper to the Office of the Federal Environmental Executive in Washington DC, and to the Chairman of the National Federal Network for Sustainability, which led to an invitation for Brown.

The agenda included topics such as energy management systems, sustainability, green buildings, waste management, data center stewardship, building performance standards, metering, use of Super Energy Savings Performance Contracts (ESPC), and Utility Energy Services Contract (UESC) options*.

For symposium information go to: http://www.fedcenter.gov/_kd/go.cfm?destination=Page&Pge_ID=3391

*A Super ESPC is a contracting vehicle that allows federal agencies to implement energy projects for their facilities without having up-front capital or Congressional appropriations. The Super ESPC provides third party financing for the agencies. A UESC is a similar contracting vehicle for federal agencies to use to implement efficiency and renewable energy projects through partnerships with regional and local utilities. BPA technical and financing support is accessible to agencies using the UESC option.

Frank Brown

Federal Agency Program Produces Irrigation District Energy Savings

This summer the Federal Agency Program will produce the first savings from its joint Bureau of Reclamation (BOR) – BPA Irrigation District initiative. The initiative targets irrigation districts in Idaho, Oregon, and Washington, which are served directly by BPA or BOR energy.

- Through master agreement contracts with irrigation districts, the Federal Program offers incentives for deemed irrigation energy savings measures as well as custom projects.
- Sixteen regional irrigation districts have signed master agreement contracts with BPA.

Several projects are under development or being implemented. They will produce more than 9.9 million kwh/year of electric energy savings.

The first irrigation district initiative project developed by the Federal Program was the Saddle Gap Pumping Plant project with the East Columbia Basin Irrigation District (ECBID). In 2005, the ECBID was planning the replacement of two of its large pumping plants, Lower and

Continued on page 14

Federal Agency Program

Continued from page 13

Upper Saddle Gap, near Othello, WA. After careful consideration, engineering analyses by ECBID consultants, and the offer of BPA cost sharing, ECBID chose to combine the pumping plants into one which would include high efficiency pumps and motors, adjustable speed drives, and state of the art controls to optimize pump performance and efficiency.

The pumps at the new Saddle Gap Pumping Plant are now operational, and BPA Energy Efficiency Engineer Tom Osborn is completing a review to ensure optimal operation and to verify savings. The Saddle Gap project is an example of how the Federal Program has assisted a regional irrigation district with a large and complex energy efficiency project.

Current savings estimates are that the Saddle Gap project will produce more than 5 million kwh/year in savings, at a total cost (of the new pumps, drives, and controls) of approximately $1.9 million, which includes a potential $414,000 incentive from BPA.

The Federal Program is also assisting the ECBID with a much smaller project, which, due to the nature of irrigation, had to be implemented in a short period of time.

A Lateral Canal Before Conversion

One of the potential projects developed by the ECBID to save water and energy involves the conversion of 150 lateral canals into pipelines,

A Canal Being Converted to a Pipeline

to reduce water losses and related pump loads. Three canals were selected to be converted first, as a test group, to ensure that the conversion would be reliable and produce the estimated savings. These canals, however, had to be converted before the start of the irrigation season, when they would be filled for use. The Federal Program was able to work quickly with the ECBID to develop the project and approve a BPA incentive of $40,000 as a cost share in a few weeks time. Estimates show the conversion of the three small canals will produce approximately 110,000 kwh/year of energy savings. If verified, savings from all canals could reach more than nine million kwh/year at a reasonable cost to BPA.

The ECBID is not the only irrigation district working with the Federal Program this summer. For example, the A & B Irrigation District in south Idaho is completing a project which was developed and partially funded by the Federal Program.

Continued on page 15

Federal Agency Program

Continued from page 13

A&B selected six of its pumps to be cleaned and repaired. With the assistance of BPA Energy Efficiency Engineer Dick Stroh, an incentive of $48,887 was approved to complete the repairs. Cleaning and repair of these six pumps may produce more than 325,000 kwh/year in energy savings.

These three projects represent the first of several energy efficiency projects to be completed through the cooperative BPA, BOR and regional irrigation districts program.

This summer will be a busy one across the region as BPA Energy Efficiency Engineers and contractors work to identify new energy efficiency projects. The Federal Program should greatly reduce the electric loads of its partnered irrigation districts in the future, while working to reduce water usage, which will increase the amount of usable water for the Federal Columbia River Power System.

-- Frank Brown (206) 220-6774

Old Saddle Gap Pumps

New Mascot for Naval Base Kitsap Energy Awareness

"Brite" is Naval Base Kitsap's new energy team mascot. From left: Robert Sheldon, David Motroni, Brite (Randy Rogers, BPA Ciber contractor) and Larry Parkhurst

"Brite" is Naval Base Kitsap's new energy team member. Created by Bob Sheldon, of the Naval Facilities Engineering Command Northwest, Public Works Department Kitsap. Sheldon developed the idea when he was the energy manager for the base. He wanted an icon that would be displayed on web sites, posters and other promotional materials and decided that a compact fluorescent bulb might provide a great way to introduce the future of lighting. He took his idea to Larry Parkhurst, illustrator for Puget Sound Naval Shipyard and Intermediate Maintenance Facility, and Brite was born into a graphic drawing.

Once the final drawing was created, Bob formulated an idea to increase ownership of Brite and the concept of energy awareness and conservation throughout the base. He hosted a contest in which employees submitted names for the new illustration, including "Brite." A few years later David Motroni of RJD Technologies,

Continued on page 16

Northwest Energy Efficiency Task Force Meets

Continued from page 1

The taskforce is chaired by Steve Wright, BPA administrator; Pat Reiten, Pacific Power president; and Tom Karier, a Washington member and former chairman of the Northwest Power and Conservation Council.

Thirty senior-level representatives from utilities, businesses, government and interest groups from Washington, Idaho, Oregon, Montana and British Columbia attended the kickoff meeting. The leaders agreed that now is the best time for the region to collaborate and improve on its accomplishments in energy efficiency. Concerns about climate change, increased energy consumption and population growth have put this issue at the forefront.

Taskforce members expressed their concern for the growing gap between load growth and resources. But they also noted an increased desire among consumers to be "green."

"The time is right for this effort," Wright said. "We need to take advantage of the growing public interest in energy efficiency."

Putting a greater emphasis on consumers and keeping in mind their desire for easy-to-use, accessible and responsive products is expected to be one of the key ways the Northwest improves on its energy-efficiency achievements.

Since 1980, the region has reduced demand for electricity through efficiency improvements by 3,700 megawatts. Expressed as electricity generation, that amount of efficiency savings is enough power for Seattle, Portland and Boise combined. But the taskforce agreed that the region can do more.

The Northwest Power and Conservation Council estimates the cost-effective energy conservation potential in the region is at least 3,100 more megawatts - an amount that will grow as the average price of electricity increases.

Energy efficiency is often the least-expensive way to meet new demand for electricity. While there is a cost to install efficiency measures, after that there are no fuel cost and no environmental risks from greenhouse gas emissions. The cost of efficiency improvements is, on average, about one-third the cost of new generating plants, including wind power.

"The good news for the Northwest is that there is much more efficiency available," Karier said.

The taskforce plans to report its recommendations in January. The effort may conclude with an energy-efficiency symposium, open to the public, to discuss and highlight the results and recommendations.

For more details, visit the Northwest Energy Efficiency Taskforce Web site at http://www.nwcouncil.org/energy/neet/Default.asp. Minutes from the June 18 meeting are located at: http://www.nwcouncil.org/energy/neet/meetings/2008/06/FINALJune182008Minutes.doc

Reported by Kristel Turner, BPA

Brite

Continued from page 15

Inc., a contractor for BPA and the Navy, thought it would be a great idea to make "Brite" come alive. David took an already great concept and turned it into "Brite" the energy team's mascot for Naval Base Kitsap and NAVFAC Northwest.

These people made it happen. Brite has visited the Navy's Child Development Centers; made appearances on Earth Day at the various bases; and attended energy efficiency briefings for base commanders. Plans are under development to increase his visibility at Government energy venues.

For more information about Brite, please contact the Naval Base Kitsap Public Affairs Office at (360) 396-6387.

Green Professionals Conference

Continued from page 6

Over 300 people attended the conference, and more than half were college students or recent graduates.

Mike Weedall spoke to approximately 100 conference attendees about BPA's role in energy efficiency.

For more information on the event, visit http://www.fluidms.com/gpc/

Brent Barclay BPA Programs Manager

Brent Barclay

Brent Barclay began a new career as BPA's Energy Efficiency Programs Manager in Portland on May 27. He is responsible for the 20 EE staff who work directly with BPA's Energy Efficiency programs. The position was previously held by Steve Fucile, who expects to retire this summer after a long and successful career at BPA.

Barclay is a familiar face to many in the Northwest electric utility industry, most recently as the Manager of the Northwest Trade Ally Network for Commercial & Industrial Lighting and, prior to that, 20 years as Energy Services Supervisor at Columbia River PUD, Deer Island, Oregon.

In his role at BPA, Barclay will oversee the development and implementation of strategies to achieve energy efficiency for each end-use sector including residential, commercial, industrial, agricultural, low-income, tribal, and federal programs.

Continued on page 19

EER Profile: Margaret Lewis

Margaret Lewis, a BPA Energy Efficiency Representative (EER), is a dynamic individual with many years of experience in energy efficiency. Learning about Lewis's experiences throughout her time as an EER is inspiring. They also shed light on the growth that has occurred in the field of energy efficiency.

How she became an EER

Lewis began working at BPA headquarters in Portland, Oregon, over 20 years ago. With an educational background in finance and accounting, she obtained a position in BPA's Residential Exchange Program. She remained with the program until 1999. At that time, Energy Efficiency was establishing a program that involved contracting with the Department of State

Margaret Lewis

to install energy conservation measures at U.S. embassies. Lewis was in charge of managing these conservation contracts, which led to her transition into Energy Efficiency. Now, Lewis works with utilities to help them establish programs that support energy efficiency.

Energy efficiency throughout the years

Lewis has noticed changes over the past few decades, both at BPA and in Energy Efficiency. Although some of the people that she met on her

Continued on page 18

Carrie Nelson Joins BPA

Carrie Nelson

Carrie Nelson recently joined BPA's Energy Efficiency team as part of the Student Career Experience Program. Her time is divided primarily between the Planning and Evaluation Department and Program Marketing, where she serves as assistant editor for the BPA Energy Efficiency Customer Newsletter.

This winter, Nelson anticipates receiving her Master of Science from the Milano Graduate School of Urban Policy and Nonprofit Management in New York City. She is also working toward a Graduate Certificate in Statistics at Portland State University and plans on using her education towards the research and development of programs for energy efficiency and renewable energy.

Nelson first became interested in Energy Efficiency when she managed a student internship program for the Centennial School District. She was researching new and rewarding career opportunities for her students when she learned about BPA's Energy Efficiency programs. What started out as a motivation to find her students "green" and rewarding careers, also led to a plan for her own professional future.

Nelson is fascinated by the potential for growth in the area of energy efficiency. "After living in different cities, I realize how societal attitudes and awareness regarding the importance of energy conservation can differ greatly. This is exciting for me, because I see opportunity for growth in this area by focusing on the marketing of energy efficient behavior and educating the public on what energy efficient options are available and why they are important."

Margaret Lewis

Continued from page 17

very first day are still working at BPA, she has noticed that there is much more diversity in age and gender now than just a few years ago. She believes that there are more young people coming in because of the growing popularity of "green" professions.

Favorite part of being an EER

"Seeing the changes that have occurred in the field of energy efficiency is one of the best parts of being an EER. People are really starting to practice what they preach. In the past, utility customers might have expressed interest in conservation measures but wouldn't actually follow through." Lewis says that now those same customers are much more likely to implement energy efficient programs or projects, and there is an overall increase in consistency and enthusiasm.

Witnessing the completion of projects is also one of Lewis's favorite aspects of being an EER. A fond memory of hers is of a cold storage facility that participated in one of the energy efficiency programs. She describes her first time entering the facility as being "like a scene from *Bonanza*," with low hanging lights and low visibility. In fact, Lewis recalls that " . . . in the center of the room was an outdoor street lamp used to light the way for workers. I don't know how they got it in there, but it was there, in the center of the room." The rewarding part came after the project was completed, when she received feedback from the owners as well as the workers. They expressed

Continued on page 19

Regional energy efficiency staff changes occur often. BPA invites its customer utilities and other regional energy entities to submit key events as they occur for people active in and known to the Northwest energy efficiency community. Please send milestones to: eenewsletter@bpa.gov. *(BPA reserves the right to determine events are suitable for posting.)*

Northwest Energy Efficiency Community MILESTONES

Bettencourt, Linda	New to BPA, Contract Administration, Walla Walla
Deppe, Matt	New Residential Conservation Specialist at McMinnville Water and Light
Haines-Zink, Sharon	Formerly with Clallam Co. PUD, passed away
Moore, Sarah	New to BPA, Contractor, working on a residential sector strategy, Portland
Nelson, Carrie	New to BPA, Student Trainee, Program Marketing, Portland
Noland, Joe	Cheney Light Department (Wash.) General Foreman is the utility's new Conservation Department Director
Podeszwa, Melissa	New Energy Efficiency Representative, BPA Seattle office
Weber, John (Charlie)	New to BPA, Contract Administration, Spokane

Margaret Lewis

Continued from page 18

their gratitude and said they felt safer, more productive, and managers even noticed overall higher employee moral.

Taking work home with her

Lewis speaks fondly of her 18 year old son, Chauncey, who graduated from Jefferson High School this spring. Chauncey learned at a young age to be energy efficient. When he was a small boy, Lewis charged him 25 cents if he left a light on in an empty room for over 15 minutes. She also persuaded him and his friend to pose for some energy efficiency photos when he was around ten years old. The boys were photographed performing various energy efficient activities, such as turning off lights or brushing their teeth with the water turned off. Now that Chauncey is an adult, he thinks about energy efficiency on his own - he puts his TV on a sleep timer so he doesn't have to hear from his mother in the middle of the night!

When Lewis is not promoting energy efficiency, she enjoys traveling, working out, volunteering for her sorority, going to church, spending time with her girlfriends, and of course, being with her son.

-- Carrie Nelson (503) 230-4785

Brent Barclay

Continued from page 17

"I hope to share my accumulation of experience with other EE staff from the perspective of a past BPA customer utility efficiency program operator." said Barclay. He added, "It is a pleasure to be working alongside such a capable group of people who are all focused on bringing value to the region through broadening the reach of energy efficiency."

Barclay and his family live on a 30-acre rural property in Columbia County, Oregon, near the town of St. Helens. It's an hour commute to Portland each day, but the Barclays enjoy the rural life too much to consider moving to the big city anytime soon.

Being on the BPA side of the utility desk is a major change for Barclay. Check the October EE Customer Newsletter to learn about his experience from both points of view.