

Energy EFFICIENCY

[Energy Efficiency: The Whole Picture](#)
from January 2004 Newsletter

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Have
SAW
Will
Travel

Click on the image to the left for details

[Energy 2004: "The Solutions Network"](#)

Plan to attend Energy 2004, August 8-11, 2004, in Rochester, New York. Keynote speakers this year will include John Howard, the Federal Environmental

Benton REA Farmers Cut Energy Use



Benton REA (Prosser, WA) dairy farmers are taking advantage of rebate programs the utility offers for variable speed drives and plate coolers.

A small dairy milking about 170 cows twice a day for five hours and using a 7.5 horsepower pump can reduce its annual energy consumption from about 22,690 to 6,800 kilowatt-hours by installing the VSD and sensor unit. The equipment also increases the value of the farm.

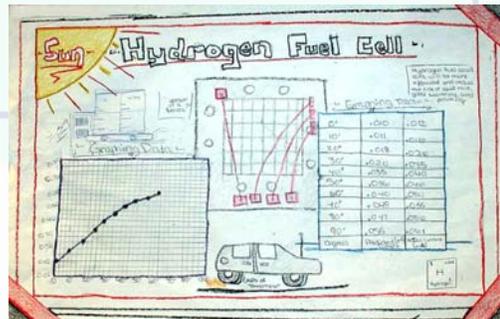
[Click here for more . . .](#)

Residential Energy Saver Loan Incentives

Energy Efficiency is developing a program to award incentives to contractors participating in the Residential Energy Saver Loan Program. The loan program is a collaborative effort between participating utilities, their approved contractors, First Mutual Bank, and BPA.

Watch the EE web site for more details . . . [Residential Loan Program](#)

Poster Contest Winner



The winner of the 2004 Save a Watt poster contest is Ashley B., a seventh grader from Battle Ground, Washington, School District. On April 25, Ashley and her teacher, Ron Wright, will receive awards in Olympia, Washington. The 2004 poster contest focused on fuel cells and was funded by a U.S.

Department of Energy grant to educate students and the public about fuel cells. The Washington State Department of Community, Trade and Economic Development (CTED) received the grant and contracted with BPA to administer it, in support of the Northwest Energy Technology Collaborative.

Protecting the Transmission System



January Non-Wires Roundtable: Ralph Cavanagh (left), Co. Director of Energy

Executive and Administrator Stephen Perry of the General Services Administration.

Cavanagh (left), Co-Director of Energy Program, Natural Resources Defense Council and Tom Foley, Consultant to the Non-Wires Study.

The poster will be developed into a display shown throughout Washington.

[Click here for more . . .](#)

DOE Launches Energy Hog

The U.S. Department of Energy has launched a national ad campaign to make children and parents aware of



energy efficient behavior. The campaign features a new villain -- the Energy Hog. Click [here](#) for the DOE press release.

Environmental Benefits of Conservation?

Use this spreadsheet ([click here](#)) to calculate the benefits of conservation to the environment.

-- Kevin O'Sullivan (503) 230-3693

PTCS™ Pleases End-Users

End-users of BPA customers and other utilities report positive results from the installation of Performance Tested Comfort Systems™ in their homes. Click [here](#) to view consumer testimonials.

[Climate Crafters](#) was established by the Northwest Energy Efficiency Alliance to teach contractors how to conduct duct performance testing safely and effectively. Climate Crafters develops state-of-the-art performance standards and provides technical training for contractors, leading to their certification as Climate Crafters.

The key to identifying leaks is analyzing pressure differences between the house interior and the

Cascading outages on the East Coast last summer resulted in a blackout that affected more than 50 million people throughout the eastern United States and Canada. Could the same thing happen in the West?

[Click here for more . . .](#)

Energy Expo

[Franklin County PUD](#), Pasco, Washington, will host a Solar, Wind and Renewable Energy Expo April 30 and May 1, 2004, at Columbia Basin College, 2600 N. 20th St., Pasco. The event is free and open to the public. Franklin seeks booth displays of PV, wind, bio-fuels, thermal solar, electric cars, and small gadgets powered by the sun or wind.

-- Darroll Clark (509) 546-5944

Guidebook Update

The Industrial Audit Guidebook is being updated to include an easy to use calculating tool for estimating the energy savings for adjustable speed drive installations on fans and

The Superintendent of Public Instruction, Terry Berguson, will make the award at this Earth Day event, which is the culminating event of the Washington Fuel Cell Education Program. The time of the award has not been set, but will be posted by April 5 at [this link](#), which has a larger image of the poster.

The school district is served by [Clark Public Utilities](#).

-- Mira Vowles (503) 230-4796

Managing Irrigation to Save Energy and the Environment

Wes Boorman of George, Washington, received an award in January for "adopting innovations that reduce the risks associated with pesticide application, support wildlife habitat, and promote water quality and water conservation" (Dave Warsh, President, National Potato Council). This was possible because of the high-tech irrigation management system Boorman has used for the past four years.

Using that system would not have been viable without wireless Internet access, which was made available through [Columbia REA's](#) wholly owned subsidiary, Columbia Energy LLC as part of a project to demonstrate Columbia Energy's AgSCADA pivot control technology. AgSCADA is an Internet based pivot irrigation control system using wireless broadband connectivity to control pivot operations and functionality. Because it is ethernet based, pivot control can be maintained from anywhere in the world with access to the Internet. Three types of high-speed Internet service are available from Columbia Energy: WIFI, satellite and broadband wireless.

Irrigation these days at the 2,000 planted acres on the Boorman farm is structured around real-time soil condition data, and not guesswork or rule of thumb. The system uses sensors to send signals that carry

house interior and the outdoors, or between the home's interior and ducts.

The EnergyIdeas Clearinghouse offers the following free publications on energy efficiency, which are available to regional utilities and their customers

- Hot Tub and Pool Conservation Tips: Keep your spa/pool warm and save energy.
- Restaurant Energy Saving Tips: How to improve energy efficiency in a restaurant.
- Building Occupant Energy Efficiency Ideas: Energy tips for the office
- Energy Information Resources for Schools: Resources on reducing energy use and classroom curriculum

These and more energy-related publications are available in PDF [here](#).

-- Linda Witham, WSU Extension Energy Program (360) 956-2129
EnergyIdeas Hotline:
(800) 872-3568

pumps. Watch for the update on the Energy Efficiency web site in May.

-- Chris Milan (503) 230-3611

data to the Internet. "We have saved at least 5 percent in our energy use," Boorman said. "Irrigation is one of the most important things we do. If you really want to mess up, mess up on irrigation." The system was partially funded by the Ground Water Management Area organization. Boorman is sold on the system. "I would use the system even if there was no funding for it."

[Click here for more](#)



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