

Going Beyond Green



Trash Talk
Spring Edition inside!

Spring 2011 Edition

Published by the Clackamas County Office of Sustainability

www.clackamas.us/sustainability

Finally within reach!

Make your home energy efficient and comfortable

Hundreds of homeowners in Clackamas County are now able to get rebates to transform energy-wasting homes into comfortable, energy efficient living spaces that stay cooler in the summer and warmer in the winter. Because of the success of the pilot program Clean Energy Works Portland, a new non-profit organization, Clean Energy Works Oregon (CEWO), is expanding to 17 communities statewide, with a goal of retrofitting 6,000 homes and businesses by 2013.

The CEWO program offers no-money-down, no-fee financing and simple qualifications. Residents can complete in-depth weatherization projects on their homes with no out-of-pocket costs because retrofits are financed at a low 5.99% APR and repaid on the monthly heating utility bill.



"The loan process almost seemed too easy!"
John and Jennifer Williams

For a limited time CEWO is offering up to \$3,200 in Instant Rebates depending on projected energy savings. Only 1,000 Instant Rebates are available for all of Oregon in 2011. And, for the first 150 Clackamas County homes enrolling in the program, the county will offer an additional \$500 instant rebate. These rebates are applied directly to the project costs so homeowners never have to pay out-of-pocket. *See page 2 for details.*

This program bundles multiple energy upgrades into a one-time, one-stop Home Energy Remodel and equips homeowners with expert guidance from start to finish. It takes the guesswork out of which projects need to be done and what contractors to hire. After the online application is approved, CEWO will schedule a FREE four-hour Home Energy Assessment, a \$500 value, to pinpoint energy saving opportunities and then assign a Building Performance Institute (BPI)-certified contractor to do the work. All of this comes from a simple online application. *(Continued on page 2)*

"We were throwing money out the window on air-conditioning. I mean it's great that we're helping out the earth but our decision wasn't about a philosophy. We had a problem and we had to fix it."
John and Jennifer Williams, homeowners

Introducing

EarthAid online – this new tool helps you track your energy use!

Clackamas County is partnering with EarthAid to provide residents an easy way to track home energy use online. Signing up for the free web-based service is quick; you can even use it with your favorite social networking sites.



Have utility accounts and passwords handy.

EarthAid will pull a year's worth of information from your utility company to create a baseline. You will then get customized tips to lower your energy use. Your data is updated monthly and adjusted for weather.

Earth Aid is all about empowering the

consumer. Once you've signed up and linked online utility accounts, you'll be able to learn and share new ways to save on your bills. Reducing your energy use will earn you great rewards from local and national businesses.

The website will include Clackamas County area-specific financial incentive programs and a list of workshops at which residents can learn more about wise energy use and energy remodels. Visit <http://clackamas.earthaid.net> to begin saving money and energy.

EarthAid is a great way to get a handle on utility bills and a new way to earn rewards for saving energy at home. You can even set up user groups and challenge your co-workers and neighbors to see who saves the most.

Save Energy – Save \$\$ Free Home Energy IQ Workshops

- How much energy and money can you save?
- What is the single biggest energy user in your home?
- Do you need to install insulation or simply change your habits?
- How can you sign up for Clean Energy Works Oregon or Clackamas County Energize rebates?

Our two-hour interactive classes held throughout the county will answer all these questions and more.

Seating is limited. See page 3 for dates, locations and registration.

Clackamas County
Recycling Partnership
150 Beaver Creek Rd
Oregon City OR 97045

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U.S. POSTAGE
PAID
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PORTLAND, OR

ECRWSS

POSTAL CUSTOMER

**TAKE
ACTION
ON PAGE 8**

Enter our ENERGIIZE Video Contest--
Win \$500 for your home energy upgrade!
Rain Barrel & Compost Bin Sale--June 4!



(continued from page 1)

Is your home eligible for CEWO?

At this time, CEWO serves homes that meet all the following criteria:

- Located in Washington, Multnomah or Clackamas County
- Owner occupied
- Built before 1993
- Single-family, detached structure (mobile homes, townhouses or other multi-family dwellings are not yet eligible)
- Not on the historic registry
- Currently (or upon completing CEWO*) heated with electricity or natural gas from NW Natural, Pacific Power or Portland General Electric

Final approval depends on information such as income, credit score and utility bill payment history. Final acceptance into CEWO is contingent upon a free Home Energy Assessment projecting that energy upgrades will result in energy savings of at least 15 percent.

* Conversions from oil heat may lengthen your qualification process, are subject to utility approval and may not be feasible for all applicants.

"I have a lot of places I'd like to spend my money. And it isn't spending it wastefully on gas and electricity. I'D RATHER SPEND IT ON THE GARDEN."

Pat Opdyke, homeowner

Eligible energy efficiency measures:

- Attic, wall and floor insulation
- Air and duct sealing
- Space heating (furnaces and heat pumps)
- Hot water systems
- R-5 or super insulated windows.



How to get an Instant Rebate

For a limited time, Clean Energy Works Oregon and Clackamas County are offering up to a total of \$4,200 in Instant Rebates depending on how much energy you will save. Only 1,000 CEWO Instant Rebates at this level are available in 2011. When they're gone, they're gone.



blower door test

- From CEWO:** Home Energy Assessment = \$500
- 15% Energy Savings = \$1,500
- 20% Energy Savings = \$2,200
- 30% Energy Savings = \$3,200

From Clackamas County: \$500 (limited to 150 homes)

To claim your Instant Rebate, enter LGCLK on the first page of the application

An Instant Rebate means just that - it's instant. No paper work, nothing to mail; your Instant Rebates are applied directly to project costs so you never have to pay out of pocket.

Clean Energy Works Oregon

By the end of 2013, Clean Energy Works Oregon aims to:

- Create or retain 1,300 jobs
- Complete 6,000 home energy retrofits
- Retrofit 3.5 million square feet of commercial buildings
- Save more than 300,000 MBTUs of energy
- Reduce carbon dioxide by an estimated 200,000 metric tons

Not eligible for CEWO or not ready to do a whole house energy remodel?

ENERGIZE Programs increase affordability of energy remodels for county residents

Clackamas County's new ENERGIZE rebates kicked off last November. This program, part of an Energy Efficiency and Conservation Block Grant (EECBG), provides additional rebates for energy efficiency projects that qualify for incentives from Energy Trust of Oregon, Canby Utility, or the State's Home Oil and Weatherization (SHOW) program.* The county provides an additional \$150 per qualified measure, up to \$500 per home. Measures include insulation upgrades, duct sealing, and air sealing.



attic insulation

In the first six months, over 75 homeowners qualified for rebates totaling \$20,000. For more information on ENERGIZE, call 503-742-4460 or go to www.clackamas.us/sustainability.

*Since the City of Lake Oswego has received its own direct federal funding, homes within the city limits do not qualify for Clackamas County's ENERGIZE program.



What your neighbors are saying about ENERGIZE



air sealing

"It would not have been affordable except for the rebate." – Milwaukie resident

"We especially notice the difference in the temperature of the floor, as they put insulation on the ceiling of the basement. It's so nice to have warm feet. And the furnace isn't running nearly as much." – Clackamas County resident



floor insulation



duct sealing and insulation

"The house is much warmer and the utility bills have gone down." – Oregon City resident

Savings Within Reach - for moderate incomes

Moderate-income homeowners and renters hoping to weatherize are eligible for larger rebates from Energy Trust and Clackamas County. The county will match the Savings Within Reach incentive up to \$1,000 per home. This payment is made directly to the contractor performing the work.

Renters must obtain landlord approval in advance. Energy Trust-approved "Savings Within Reach" contractors must perform the work.

For income qualifications contact Energy Trust of Oregon at 1-866-368-7878 or Clackamas County at 503-742-4468.

West Linn couple builds state-of-the-art energy efficient home

Rob and Mitzi Kugler were looking for something different for their property in the hills of West Linn. The couple, an educator and artist, who had been living in a drafty 1925 farm house had a mission: build a new home to the highest energy efficiency standard and make it beautiful. “We did not want to live in a box,” said Mitzi.

Designer Ted Nickell helped the Kuglers by creating a unique design for their one-level home that would also meet the Passive House standard, one of the strictest green building rating systems in the world. Passive House aims to create homes that use up to 90 percent less energy than traditional homes.

The walls of the Kugler’s home are over a foot thick which create cozy nook spaces at every window. Triple-pane clerestory windows facing south create a bright interior, even on cloudy days. In March the Kuglers turned the heating system off for three days, and the temperature inside was still 68 degrees. The home is pre-wired for solar and the owners are tracking their energy use so they can accurately size the solar array to be installed.

Ethan Beck, of Ethan Beck Homes LLC, orchestrated the construction of the Kugler’s home. “Even with all of the extra features, this home only took a couple weeks longer than normal to build, and I was able to use my regular subcontractors,” said Beck, a Trade Ally with Energy Trust of Oregon. He builds homes that receive third-party assessments to determine the Energy Performance Score (EPS), a clear and quantitative way to compare a home’s energy use. The lower the score, the better. “In this economy, it is huge to be able to talk about the Energy Score,” said Beck. Buying a new home with a low EPS could potentially save the owner thousands of dollars in utility bills.



Extra thick walls create attractive window bays

If you are a contractor or an owner building a new home, you can find more information about incentives available from Energy Trust’s New Homes program at 1-877-283-0698 or <http://energytrust.org/trade-ally/programs/new-homes/>.



South facing windows allow the sun to warm the home in the winter while deeper-than-normal eaves prevent overheating in the summer.

About Energy Performance Scores (EPS)

The EPS is based on many factors, such as a home’s size, level of insulation, air leakage, heating and cooling systems, major appliances, lighting and water heating. The EPS gives homebuyers a way to comparison shop between homes based on how many energy upgrades were made beyond what Oregon energy code requires. The Kugler’s received an EPS of 39 compared to 100 for a typical home built to code. Once solar panels are installed, their score will be even lower.

Home’s key energy features

*A higher R-value represents more insulation

	<u>Kugler’s home</u> *	<u>2008 Code Home</u>
•Ceiling Insulation	R-122	R-38
•Wall Insulation	R-85	R-21
•Floor Insulation	R-60	R-30
•Windows	U-0.14 (triple pane)	U-0.35
•Air Sealing	0.19 ACH/50	N/A
•HVAC	Zonal electric; ductwork in conditioned space	90% gas furnace with insulated ducts

This home is expected to save \$941/year compared to a home built to code – adding a solar system will further reduce the utility bills.

Creating a Green Workforce Resources for the construction industry

Clackamas Community College has teamed with Earth Advantage Institute to offer the new Smart and Sustainable Program. Sponsored by the Workforce Investment Council of Clackamas County, the program teaches workers the skills required in emerging industries. Classes about energy efficiency, renewable energy, green construction and deconstruction are offered and scholarships are available for construction and other workers in Clackamas County. Eligible participants can either be employed or unemployed. Contact Skye Feltz at 503-594-3452 or Kim Hikade at 503-594-6413 for program details.

<http://depts.clackamas.edu/sustainability>

The Sustainable Building Advisor Certification Program, offered by Mt. Hood Community College is a nine-month program designed for experienced or new-to-industry professionals. Week-end classes focus on expert commercial and residential presentations on sustainable building practices, field trips to existing buildings and developing expertise to complete green building projects. Cutting-edge topics include net-zero energy design, water conservation design and indoor air quality. Worksource and/or scholarship funds may be available. Contact Melanie at Mt. Hood Community College 503-491-7585 or www.mhcc.edu/sbap.

Home Builders Association of Metropolitan Portland offers classes to members and non-members on topics including graywater systems, lead-based paint renovation and green building. Contact them at 503-684-1880 or visit, www.hbapdx.org/events-education.

Workshops (continued from page 1)



image courtesy of xedos4



image courtesy of pixomar

Save Energy – Save \$\$ Free Home Energy IQ Workshops

Find out the most cost-effective energy improvements for your home!

2-hour Home Energy IQ workshops

Seating is limited. See details and sign up today at

www.clackamas.us/sustainability or call 503-742-4460

April 27 - Wilsonville	May 21 - Lake Oswego
May 3 - Oregon City	May 25 - Molalla
May 7 - Milwaukie	May 26 - West Linn
May 10 - Lake Oswego	May 31 - Estacada
May 14 - Oregon City	June 1 - Sandy
May 16 - Oak Grove	June 7 - Canby
May 17 - Damascus	June 8 - Welches

Spring events and garden workshops



Damascus

First Saturday Work Party, Orchard Summit
 May 7, 9 a.m. - 12 noon
 Battle English ivy and Himalayan blackberry!
 Remove these invasive species and replace them
 with native plants. Registration required.
 Call 503-558-0550.

“Rain Water Harvesting and Rain Gardens”

Damascus Community Church
 May 19, 6 - 8 p.m.
 Learn the basics. To register, call Clackamas County
 Soil & Water District at 503-210-6008.

Gladstone

“Rain Water Harvesting and Rain Gardens”

Gladstone Senior Center
 May 5, 6 - 8 p.m.
 Learn the basics. To register, call Clackamas County
 Soil & Water District at 503-210-6008.



Lake Oswego

City of Lake Oswego Sustainability Action Month, May 1 - 31

Events throughout the city provide opportunities for residents, businesses
 and visitors to learn about sustainability and how to take action. Events
 include educational workshops, business networking events and more.
 All events are open to the public. Also, Luscher Farms has activities and
 workshops throughout the spring and summer. For more information,
 go to www.ci.oswego.or.us or call 503-635-0286.

“Grow a Greener Lawn”

Dennis' 7 Dees, 1090 McVey Ave.
 May 1, 1 - 2 p.m.
 Look for easy, sustainable ways to keep your lawn looking great! Led by
 regional gardening expert Glen Andresen. Advance registration required.
 Call 503-636-4660.



“Mother's Day Wildflower Walk”

Tryon Creek State Park
 May 8, 10 a.m. - 12 noon & 2 - 4 p.m.
 Take a guided wild flower walk. Pre-registration is
 encouraged. Call 503-636-4398
 or go to www.tryonfriends.org.

“Landscaping for Conservation: Let Nature Work for You”

Tryon Creek State Park
 May 21, 9 a.m. - 12 noon

Learn how your garden can function more like the natural system
 surrounding us. Pre-registration is encouraged. Call 503-636-4398
 or go to www.tryonfriends.org.

“Sustainability Day”

Tryon Creek State Park
 May 21, 1 - 4 p.m.
 Learn simple ways to live in tune with the earth. Get ideas about how to eat
 seasonally and locally, and find creative ways to reuse and recycle. To register,
 call 503-636-4398 or contact matthew@tryonfriends.org.



Oregon City

Mother's Day “Birds and Blooms of Canemah Bluff”

May 8, 1 - 3 p.m.
 Join Metro naturalist Dan Daly for a leisurely
 stroll through the Canemah Bluff Natural Area
 to see and learn about wildflowers. Enjoy views
 of the Willamette River and historic Canemah
 Cemetery. Registration fee of \$6 per adult
 required in advance, call 503-797-1650, option 2.

Workshops and events are free unless indicated.

Oregon City

“Growing for Family”

Clackamas Community College
 May 11, 18 & 25, 6 - 8:50 p.m.
 Even with just a balcony, growing food for the
 family can be easy. Cost \$45. To register, call the
 CCC Registration office at 503-594-2262.

“Home Composting Essentials”

Clackamas Community College
 June 11, 10 - 11:30 a.m.
 Learn what you can compost from the yard and
 kitchen. Cost \$25. To register, call the CCC
 Registration Office at 503-594-2262 or visit www.oregonmetro.gov/garden.



Green Day Fair at the Oregon City Farmers' Market

2051 Kaen Rd, off Beaver Creek Rd.
 June 11, 9 a.m. - 2 p.m.
 Exhibits on natural landscaping, green building, home energy saving ideas,
 water conservation, solar and more.

“Floral Feast of Mark and Barb Shepard”

Metro's Gardens of Natural Delights™ Tour

July 17, 1 - 2:15 p.m. & 2:30 - 3:45 p.m.
 See the mini-orchard, greenhouse, chicken coop, heart-shaped pond,
 hexagonal veggie beds and much more. Mostly wheelchair accessible.
Advance registration starts at 8:30 a.m., April 30. To register,
 visit www.oregonmetro.gov/garden or call 503-234-3000.

Tualatin

“Native Plant Center Volunteer Ventures”

April 30, May 14 & 21, 9 a.m. - 1 p.m.
 Celebrate spring at Metro's Native Plant
 Center, 2661 SW Borland Road.
 Volunteers will help plant native seeds,
 bulbs and seedlings and help maintain
 native garden areas. No experience
 necessary. Advanced registration required,
 email [nativeplantcenter.volunteer@](mailto:nativeplantcenter.volunteer@oregonmetro.gov)
oregonmetro.gov or call 503-797-1653.



“Gardens of Eatin': Edible Landscaping”

Hughes Water Gardens, July 30, 10 - 11 a.m.
 Blend edibles and ornamentals for a delicious low-maintenance landscape.
 Learn easy organic care methods and the best varieties for blueberries,
 strawberries, tree fruits, grapes, kiwis, culinary herbs and more. Led by
 garden expert Jen Aron. Advance registration required, call 503-638-1709.

West Linn

Mary S. Young Park, SOLV Restoration Work Party

May 14, 9 - 12 noon
 Remove English ivy and help restore the
 park. Go to www.solv.org/ or call Brett
 Lyon at 503-844-9571, Ext. 332.

Palomino Loop Trail, SOLV Invasive Removal and Natives Planting

May 14, 9 - 12 noon
 Go to www.solv.org/ or call Brett Lyon at
 503-844-9571, Ext. 332.



“Incredible Edibles of Debbie and Jim Krekos”

Metro's Gardens of Natural Delights™ Tour

May 15, 1 - 2:15 p.m. & 2:30 - 3:45 p.m.
 This terraced, hillside garden is packed with colorful edibles, eye-catching
 natives, outdoor living spaces and practical work areas. Learn about
 harvesting water, keeping slugs in check and growing hops for home-
 brewing. **Advance registration starts at 8:30 a.m., April 30.** To register,
 visit www.oregonmetro.gov/garden or call 503-234-3000.

“Rain Water Harvesting and Rain Gardens”

West Linn Fire Station 59
 June 2, 6 - 8 p.m.
 Learn the basics. To register, call Clackamas County Soil & Water District
 at 503-210-6008.

Food, solar cooking and more

Local farmers markets

Find local vegetables, fruits, plants, eggs, cheese, meats, fish, food, crafts, information and activities at these seasonal markets all around the county. Support local farmers, growers and businesses and have fun!

Canby Saturday Market

Railroad parking lot on NW 1st Ave, between Holly and Grant
Saturdays, May through October
9 a.m. to 1 p.m.
www.canbysaturdaymarket.com/
503-263-5151



Damascus Farmers Market

20401 SE Hwy 212
Sundays, July 3, August 6, September 4, October 2
10 a.m. - 5 p.m. 503-658-4429



Estacada Farmers Market

Estacada Thriftway parking lot, corner of Broadway and 3rd St
Saturdays, May 7 - October 1,
10 a.m. - 2 p.m.
www.estacadafarmersmarket.com
503-630-6100



Gladstone Summer Market

Parking lot of Watts Heating and Cooling, 580 Portland Ave, across from the Gladstone Fire Dept.
Saturdays, June 4 - September 24
9 a.m. - 2 p.m.
www.gladstonesummermarket.com
971-275-6235

Sunnyside Grange #842

Open Air Market
132nd & Sunnyside Rd, Happy Valley
Sundays, April 3 - October 30, 11:30 a.m. - 3 p.m.
www.windancefarmsandart.com 503-766-2993

Lake Oswego Farmers Market

200 First St, at the corner of First and Evergreen in downtown Lake Oswego
Saturdays, May 14 - October 8, 8:30 a.m. - 1:30 p.m.
www.ci.oswego.or.us/farmersmarket/
503-697-6590



Milwaukie Sunday Farmers Market

Main St & SE Harrison, across from City Hall
Sundays, May 8 - October 30
9:30 a.m. - 2 p.m.
milwaukiefarmersmarket.com 503-407-0956

Oregon City Saturday Farmers Market

Clackamas County Public Services Building Parking Lot
2051 Kaen Rd, off Beaver Creek Rd
Saturdays, May 7 - October 29, 9 a.m. - 2 p.m.
www.orcityfarmersmarket.com
503-734-0192



Oregon City Wednesday Market

8th St at Main, downtown Oregon City
Wednesdays, June 1 - October 12,
3 p.m. - 7 p.m.
www.orcityfarmersmarket.com
503-734-0192

What about markets in Sandy, West Linn and Wilsonville?
At press time some markets didn't have their schedules available.
Watch for information in local papers.

Yes, solar cookers do work here

Believe it or not, we do have enough sun in Clackamas County between May and September for solar cookers to work. The Office of Sustainability has had a lot of interest in the solar cookers that are part of our energy efficiency display. So we asked Kurt Torgerson, Clackamas County Energy Educator and successful solar cooker user to share some of his knowledge.

"We have been using solar cookers at the Weatherization office for over two years now on a periodic basis. We use them on sunny days from May through September and have cooked chickens, soup and chili. A chicken started at 9:30 a.m. was ready to eat at 12:30 p.m.," said Torgerson.

"It's best to use a dark-colored cooking pot surrounded by a high-temperature plastic cooking bag. The sunlight striking the pot from all sides in the cooker is absorbed, causing the temperature to rise. The bag really helps retain the absorbed heat."



Cooker in action at the Weatherization building

Overall, a solar cooker is a useful device. It can be used to cook eggs, rice, fruits, vegetables, meat, fish and bread. In addition to saving the energy used when cooking, solar cookers are used outdoors so they do not put extra heat into the house. This reduces the need for air conditioning during warm summer days.



Solar cookers made from cardboard and aluminum foil and from a car window shade

Solar cookers are used worldwide to cook food where there is little fuel, such as in North Africa. They improve air quality in places where they replace cooking fires.

They are used to pasteurize water in places such as Haiti, Africa, and Asia. In light of recent natural disasters, you may want to put one in your emergency kit.

Solar cookers can be made from cardboard and aluminum foil, a reflective car window shade or they can be purchased pre-made.

More information is available at www.solarcookers.org/ or by calling 503-650-3334.

Plant a row for the Oregon Food Bank

The Oregon Food Bank loves fresh food – and there is never enough to go around. That's why OFB is asking home gardeners to plant a few vegetables or an extra row to help fight hunger in our region.

The Food Bank suggested planting tomatoes, green beans, onions, hot peppers, and zucchini since they are easy to store and use.

During the 2010 harvest season gardeners donated just under 80,000 pounds of nutritious vegetables to food pantries, soup kitchens and other agencies. No amount is too small.

To find an agency near you, visit www.oregonfoodbank.org/Give-Food/Plant-a-Row-Program or call Eric Sopkin at 503-282-0555, Ext. 2260.



Multifamily communities plug into energy efficiency programs

According to PGE, after mortgage payments and payroll, utility costs are one of the most significant expenses for multifamily properties. Boosting the energy efficiency of your property will not only save money, but can also help attract and retain tenants by providing a more comfortable, lower-cost living space. Energy efficiency can increase property values, save precious resources and ultimately reduce your community's carbon footprint. Here are two examples of multifamily communities leading the way toward a more sustainable future.



Whispering Pines gets HUD

Whispering Pines Senior Village in Estacada is a low-income, multifamily community managed by the Volunteers of America (VOA). To make this community more comfortable and affordable for residents, the VOA pursued funding through the U.S. Department of Housing & Urban Development (HUD) Green Retrofit Program. The site was eligible for incentives totaling \$1.3 million for upgrades. The rehabilitation of the 1970s facility is underway; take a look at some of the measures being taken to improve energy efficiency.

Green retrofits at Whispering Pines

The VOA also plans to implement a Green Retrofit Operations & Maintenance Plan. Efforts to manage the property in a more environmentally safe and efficient manner will incorporate green procurement and purchasing policies, including contracting with vendors who use eco-friendly products. Furthermore, residents will be trained on the proper use of new appliances and energy-saving devices, as well as waste prevention and recycling best practices. To ensure hazardous wastes are handled properly residents will also be provided with an onsite collection point.

Insulation, Lighting & Water-Saving Devices

- Blown-in recycled cellulose insulation
- Efficient 15 Watt CFL bulbs (for each unit)
- Replace fixtures that will not support CFLs with efficient fixtures
- Water-saving plumbing fixtures, low-flow showerheads & aerators

Solar Power System

- Kylar-coated metal roof - penetration flashings & ridge vents
- 57kW Photovoltaic power array - collector panels, inverter & controls
- Solar hot water system - panels, controls, & storage tank

Air Conditioning & Ventilation

- High efficiency HVAC systems with programmable thermostats
- PTAC heat pumps with programmable thermostats
- Ducted packaged heat pump units (community room & office)
- Wall-mounted split, ductless A/C heat pump system (central corridors)
- Cooling coil & heat pump for furnaces to maintain split system

Energy Trust helps Canyon Creek reduce its carbon footprint

Canyon Creek Apartments is a multifamily community built in Wilsonville in 2000 and managed by Redside Development. The company has made it their mission to "green" all of its properties. Director of Sustainability and Development Services for Redside, Melynda Retallack believes "by integrating construction, property management and facility services into our company, we're able to apply a green standard to every aspect of our business." Their efforts are paying off both in financial savings and tenant satisfaction and retention.

Retallack heard about the multifamily resources provided by Energy Trust of Oregon and decided working with the agency was a natural fit. Similar to single-family home energy audits, free audits are available for multifamily communities. Energy Trust conducted a full assessment of Canyon Creek and provided a break down of the most cost-effective upgrades to pursue, a list of incentives and estimated cost savings, and a timeline for the return on investment. This prompted Redside to take advantage of the incentives to replace all carport lighting T12 lamps with new T8s and high efficiency ballasts.

Additionally, Energy Trust provided residents in each unit with compact fluorescent lights (CFLs), low-flow showerheads and faucet aerators through the Instant Savings Measures (ISM) program. Energy Trust provides onsite technical assistance and installation of the devices in multifamily communities as well as educational resources on how to be more energy efficient. Request a free energy audit and enroll your multifamily community in the ISM program today!

To enroll in Energy Trust business incentive programs visit: energytrust.org/business, choose "Multifamily" and then Tenant Improvements from the drop-down lists, or call 1-866-368-7878.



Efficiency upgrades at Canyon Creek

Common Area Lighting Analysis

Overall Kilowatt hour (kWh) Savings

Before	After	Savings	% Savings
26,937	7,227	19,710	73

Projected Annual Cost Savings

Rate/kWh	\$0.094
Estimated Annual kWh Savings	19,710
Estimated Annual Cost Savings	\$1,852
Estimated Payback (before incentives)	3.7 yrs
Estimated Payback (after incentives)	2.9 yrs

Water-Saving Device Analysis

Projected Annual Water Savings

Annual gallons saved	3,321
Water charges avoided per unit	\$10.83
Sewer charges avoided per unit	\$28.86
Total costs avoided per unit	\$39.70
Number of apartment units	372
Total annual ISM water savings	\$14,767.71

Earthquake Home Hazard Hunt



Find and fix areas of your home that may be damaged or cause injury during an earthquake.

Anything that can move or break is a potential hazard during an earthquake. If possible, all family members should participate in the hazard hunt.

1. Heavy appliances and furniture can topple or move, causing injuries. Fix with anchors to the wall, blocking any rollers or adding bracing supports.
2. Glass can shatter and cause injuries. Replace glass bottles that are not secured with plastic; anchor heavy mirrors and pictures above seating areas; and locate beds away from windows.
3. Fire is a real danger during an earthquake. Remove any flammable liquids from the home and secure in a garage or outside structure. Use flexible connectors for gas lines. Ensure water heater is secured to the wall.
4. Actual house structure: Check your chimney—masonry chimneys are a real earthquake hazard as bricks could come apart and fall. Secure any loose roof tiles. Reinforce crawlspaces and foundations to prevent collapse.
5. Know where your utilities are located and how to shut them off.
6. Any items hanging from the ceiling or that can move during an earthquake need to be secured.

For more tips, visit: www.fema.gov/hazard/earthquake/ and <http://earthquake.usgs.gov>

“Active Transportation” gets attention

Love biking or walking? Momentum is building to make these realistic options for basic daily transportation needs (active transportation). Being able to walk, bike or take transit to get to school or work, or run daily errands promotes self-reliance, health, energy independence, equity, and affordability, while reducing traffic congestion.

Although we will continue to depend upon and enjoy our cars for many purposes, the cost of building and maintaining infrastructure for active transportation is a fraction of the cost compared to roads and freeways. Investing in it now will make it easier for the young and old who can't drive to participate meaningfully in their community. According to Metro's Blue Ribbon Committee for Trails, “With smart investments in a network of routes and trails for biking and walking, in ten years we can more than double the number of people who choose to walk or bike.”



In March, construction broke ground on the six-mile Trolley Trail through Oak Grove and Jennings Lodge, a new link connecting these communities. Other efforts by county planners towards a network of safe and user-friendly walkable, bikeable streets and paths include:

- **Clackamas Town Center Bike-Ped Connections** – Scoping the Clackamas Regional Center and its MAX station for improved connections to surrounding employers and services.
- **Sunnyside Elementary Safe Routes to School** – Developing a plan for Sunnyside Elementary. Safe Routes to School is a federal program designed to address the decline in walking and biking to school. For more information visit <http://www.saferoutesinfo.org/>.
- **Connecting Clackamas** – An interactive map at www.bikewalkclackamas.org highlights the network that could be created if 18 potential bike and pedestrian projects are built. (Many of these are conceptual, with exact locations undetermined.)
- **McLoughlin Area Plan** – Improved pedestrian and bicycle access is a theme in the process to improve and revitalize the Oak Grove, Jennings Lodge communities and the McLoughlin corridor.

For more information on these projects, contact Lori Mastrantonio-Meuser at lorim@co.clackamas.or.us or 503-742-4511.

Want a Clackamas County Bike map?

Bike-It! - a full-color water-resistant map, updated in 2008, shows bike routes and 10 suggested recreational rides in the county. Maps are \$5 at the Department of Transportation and Development, 150 Beaver Creek Road in Oregon City, or \$6 by mail. Email zoninginfo@co.clackamas.or.us to order one.



Prices at the pump hurting your wallet?

Try these gas-saving tips

As summer approaches, gas prices are expected to keep increasing. The U.S. Department of Energy offers consumer tips on how to get the most bang for the buck at the pump and help reduce greenhouse gas emissions.



- **Make sure tires are properly inflated.** According to the Department of Energy, you can improve your gas mileage up to 3.3 percent just by keeping your tires inflated to the proper pressure. Properly inflated tires are also safer and last longer.
- **Plan for errands.** Make a plan, chart a route and run several errands in one car trip. Trip chaining, or combining multiple errands into one trip, will save you gas, money and time. Trip chaining can even make communities better by helping to reduce traffic congestion and lowering carbon dioxide emissions.
- **Remove Excess Weight.** Avoid keeping unnecessary items in your vehicle, especially heavy ones. An extra 100 pounds in your car could reduce gas mileage by up to 2 percent.



- **Anticipate traffic conditions.** Avoid “jackrabbit” starts and stops. Aggressive driving (speeding, rapid acceleration and braking) wastes gas. It can lower your gas mileage by 33 percent at highway speeds. Sensible driving is also safer for you and others, so you may save more than gas and money.

• **Slow down.** Gas mileage decreases rapidly at speeds over 60 mph. Assume that each 5 mph you drive over 60 is like paying an additional 24¢ per gallon for gas. To get the best mileage, drive as slowly as traffic.

- **Avoid unnecessary idling.** When idling, you are getting 0 mpg.

This means you are paying for gas to go nowhere. Vehicle exhaust is also a major source of air toxins, smog-forming chemicals, fine-particle pollution, and greenhouse gases. The Oregon Department of Environmental Quality (DEQ) suggests turning the engine off if you expect to be stopped 30 seconds or more, except in traffic. Order a “Turn Off Your Car” reminder decal from DEQ by contacting Susan Drake at 503-229-6918 or drake.susan@deq.state.or.us.



Green Corps breaks ground

A partnership dubbed 'Green Corps,' is breaking ground to engage youth in practical job training focused on horticulture, gardening, and landscaping. Led by the county's Juvenile Department and the OSU Extension Service, the program is starting out on the county's Red Soils Campus with a quarter-acre of raised beds. Youth volunteers, including youth offenders enrolled through the Juvenile Department, will learn to grow herbs, flowers, and produce, and to keep bees.



Program Coordinator Beret Halverson and volunteers build garden beds

Funded in part by small grants from our Division of Community Health and Office of Sustainability, the program looks to be a cost-effective way to provide much-needed practical job

skills. It will encourage a new generation to work with and take care of the land, and understand the importance of local food.

The youth workers will be creating a business plan to help sustain the program and fund their stipends. Food raised in the program will either go to the kids themselves, be used by Extension's nutrition educators, or be sold—but the most valuable thing is the experience, showing kids how easy it can be to engage in the greater community and make a difference. "We'll be encouraging the kids to use this as a springboard, maybe to work on a farm or in a nursery or forest, attend Clackamas Community College's horticulture program, or get a degree at Oregon State," said Weston Miller, the project coordinator with Extension. "In addition to welcoming volunteers at the site, we are asking farmers, nurseries and forest managers to get in touch with us if they think they'd be interested in providing apprenticeships for youth completing our program."

For more information, contact Miller at weston.miller@oregonstate.edu, or the Juvenile Department's Rachel Pearl at rachelp@co.clackamas.or.us or 503-655-8342, Ext. 7134.



National rainwater harvesting conference comes to county

Monarch Hotel and Conference Center
September 26 -29, 2011

ARCSA educates professionals and do-it-yourselfers on the best techniques for harvesting and using rainwater.

Who should attend? Gardeners, landscapers, architects, builders, retailers, engineers, installers, and plumbers, along with state and local water conservation policy officials. www.arcsa.org for information and registration.

New Energy Steward course begins

On May 4, up to 30 county residents will begin a new six-week Energy Steward course. Attendees will learn more about home energy and water conservation, thoughtful consumption, renewable energy and green buildings – and then share that knowledge with the community.

The course is modeled after the Master Recycler program and is adapted from Climate Masters. It includes a blend of presentations by professionals, peer-group discussion and community engagement skills. The new Energy Stewards will volunteer for 18 hours of public outreach, using their skills and knowledge to help others learn about energy conservation and the energy-efficiency incentives available through Clackamas County's Energize program.

To check for available space, or to be notified of the next class, tentatively scheduled for next fall, email sustainability@co.clackamas.or.us or call 503-742-4460.

Energize video contest!

Win \$500 towards your home energy upgrade!

The Clackamas County Energize program is looking for creative homeowners that want to share their story with the community through a home-made video. To participate, submit a video that creatively answers the question "Why does your home need a home energy remodel?"

Contest rules include:

- Deadline is May 31, 2011.
- One video per home address, from a resident at the address.
- Must be for a single-family owner-occupied home in Clackamas County, built before 1993.
- Video may not exceed two minutes, must be posted on Youtube.com, and judged by the award committee to be appropriate.
- After the video is posted, send an email to sustainability@co.clackamas.or.us with "Energize Video Contest" in subject line. Include the link to the video.



Awards: \$500 first place; \$350 to one runner-up; \$150 to one honorable mention

The awards will be given toward an energy upgrade loan through Clean Energy Works Oregon, or another home energy efficiency project recommended by Energy Trust of Oregon following an audit. The value of the project should be at least \$2,500.

For more information and rules, visit www.clackamas.us/sustainability.

One day sale - Saturday June 4, 9 a.m. - 3 p.m. Or while supplies last!



\$47

Multiple barrels may be purchased

55-gallons

55-gallon System rain barrels \$47

Earth Machine compost bins \$40

Location:

Parking lot at the corner of Library Ct. and Beaver Creek Rd., next to the Clackamas County Development Services Building, 150 Beaver Creek Rd., Oregon City

Rain barrels include faucet, overflow hose, mesh screen in the lid, and installation instructions. Compost bins are 80 gallons, snap together, and include a booklet on home composting.

For more information on the rain barrel: www.system.com

On the compost bin: www.earthmachine.com

On the sale, visit www.clackamas.us/sustainability or call 503-742-4463.



Bins are sold year-round at:
MetroPaint Store
4825 N Basin Ave., Portland
503-234-3000