

## BREAKING NEWS!

Garten Services just announced that all recycling in Salem and Portland may be commingled! All CLEAN plastic, metal and paper can be put in the blue barrels. Only glass, batteries, and cardboard should be separated. Please watch for more information in your buildings as DAS and your green teams roll out this exciting change.



## SCHOOL CHILDREN AUDIT DAS BLDGS.

On a rainy, fall day in late October, the General Services and Executive Buildings were audited by 25 local schoolchildren. They looked for savings opportunities around energy and sustainability. "They really got into it," said Andi Goehring of Executive Building Green Team, who toured the students in their building. Most staff smiled as the students came around, and seemed to enjoy the connection with local youth. The students left reminder notes for staff. The students discovered three major areas of potential savings:

- Label makers: nearly every label maker was on after staff left.
- Blinds: nearly all the blinds were open after staff left.
- Screen savers: monitors with screen savers use more energy, we should have them go black or turn off when not in use.

Now, the students will compile the results into a document of recommendations, and begin their year-long class project to track the results.



## DAS RECEIVES "EarthWISE" STATUS

DAS recently joined the ranks of Marion County's "EarthWISE" — a designation for organizations that make a commitment to observe environmentally friendly practices in their facilities. Practices include everything from green choices in the operation and maintenance of buildings, to choices made by occupants such as buying recycled-content paper and developing an advanced recycling program.



Marion County staff toured 19 DAS buildings over two days in September and October. Certifiers recommended that 14 facilities receive certification immediately, and provided ideas to move the remaining five sites toward certification before the awards ceremony in January (more details to come soon). Marion County found the buildings with Green Teams most impressive.

The 14 buildings who received EarthWISE certification are:

- Archives, 800 Summer St
- Commerce, 158 12<sup>th</sup> St
- Employment, 875 Union St
- Executive, 155 Cottage St
- General Services, 1225 Ferry St
- Gen. Services Annex, 1257 Ferry St
- Human Services, 500 Summer St
- Justice Building, 1162 Court St
- Labor & Industries, 350 Winter St
- Maintenance Shop, 1240 Ferry St
- North Mall Office, 725 Summer St
- Print Plant, 550 Airport Rd
- Prop. Dist. Ctr., 1655 Industrial Dr
- State Library, 250 Winter St

Congratulations to everyone in the buildings. Great work!

For more about EarthWISE, visit <http://www.co.marion.or.us/PW/ES/earthwise/>

## NEW POLICY SUCCESS

DAS released an updated policy to focus on resource conservation in the buildings on July 1<sup>st</sup>. The past few months started out strong and even reduced the night time base loads by 20-40% in the buildings. Overall, DAS sits around 30% below the use in 2000.

## NIGHT AUDITS – TOP THREE FINDS

Here is a brief summary of the top finds from the quarterly night audits of DAS buildings.

1. **Equipment in sleep mode.** While it's a good practice to set machines on default for sleep mode, they still should be turned off at night.
2. **Calculators and label makers.** Ensure that everything is plugged into a single power strip and turn it off when you leave.
3. **Multi-function machines.** Machines that include a fax are allowed to remain on at night, but should have the special label.



## ELECTRICITY SCORECARDS 101

DAS recently launched a new communication tool for tenants of DAS-owned buildings: Electricity Scorecards. The card displays a building's performance in conserving electricity and offers tips for improvement. One scorecard packs a powerful amount of information that tenants can act on immediately. See highlights below.

The year 2000 serves as Oregon's baseline for our reduction goals.

A few tips that could save big!

The graph displays electricity use in year 2000 on left and use in 2009 on the right.

The results of the most recent night audit shine a light on wasted energy use.


### Electricity Scorecard

EXECUTIVE BUILDING  
October 2009

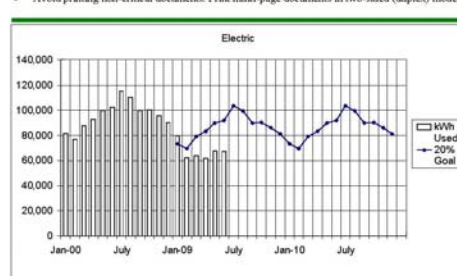
**STATE LAW:** State law requires all government buildings to reduce electrical and heating fuel use by 20 percent by the year 2015 (baseline year: 2000). You can help us reach this goal. Small actions add up when many people consistently choose to reduce energy use.

**HOW YOU CAN HELP:**

- Turn off all office equipment when not in use.
- Shut down (power-off) copiers, printers, computer monitors and speakers after your shift.
- Enable automatic "power down" or "energy saver" features on fax machines after hours.
- Turn on lights in work areas only when needed; turn off at night. When employees work early or late, do not turn on or leave on any unnecessary lighting.
- Actively manage accessible window blinds to slow-down heating and cooling loss.
- Whenever possible, eliminate personal printers in favor of shared printers.
- Avoid printing non-critical documents. Print multi-page documents in two-sided (duplex) mode, rather than one-sided mode.



**SAVINGS = 23%**  
Savings includes electricity and natural gas combined.



**ELECTRICITY USAGE SUMMARY**  
through 609

*Quarterly (April-June 09)*

- Usage = 196,200 kilowatt hrs
- Cost = \$19,314

*Year to date*

- Usage = 402,191 kilowatt hrs
- Cost = \$38,497

**Savings:**

- 139,578 kilowatt hrs
- 26% over year 2000
- Quarter Cost = \$7,721
- YTD Cost = \$10,887
- Combined electric and gas savings = 23%

**RECENT NIGHT AUDIT RESULTS:**  
DAS conducts quarterly night audits to measure the number of devices left on, and calculate the energy used. During one year, the wasted energy in your building totaled:

**Kilowatt hours: 127,477      Total dollars: \$9,561**

The top users were: 1 space heater (on), 27 copiers, 21 printers, 23 computers, and 89 monitors. Most of these machines were in sleep mode, but still used electricity. Audit date: 7/21/09

**WANT TO KNOW MORE?**  
Contact Elin D. Shepard@state.or.us, DAS Sustainability Coordinator, (503) 373-7132  
<http://sustainability.oregon.gov/>

The light bulb could be green, yellow or red, based on performance.

The percent of savings includes electricity and gas combined.

This area reflects electricity use by quarter and by year, and highlights savings.

Check out the Web site for information on a variety of sustainability topics including more about Electricity Scorecards.

Give DAS a call with questions or ask for more information.

The Oregon Sustainability Board (OSB) held their October meeting in Oakridge. The OSB learned of the major sustainability initiatives in the region when the Oakridge Chamber of Commerce submitted a sustainability award nomination last year. While they didn't win an award, the OSB was impressed with the projects and wanted to support their efforts. Highlights included:

- The new industrial park shows promise to bring business and jobs to help the possible 30 percent unemployment.
- Oakridge redefined itself around eco-tourism, which helped the local economy. It is the "Mountain Biking Capital of the Northwest."
- There is a major movement to improve "uptown," the charming, historic area to the north of the highway.
- The city staff work hard to win grants and find solutions.

Link to more pictures:  
[http://sustainability.oregon.gov/DAS/FAC/SU/STOR/osb\\_photos\\_oakridge.shtml](http://sustainability.oregon.gov/DAS/FAC/SU/STOR/osb_photos_oakridge.shtml)



*The new industrial park stands on the site of the former mill*

## OREGON SUSTAINABILITY BOARD VISITS OAKRIDGE

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## "SMART" POWER STRIPS BRING BIG SAVINGS

In the fall edition of the Waste Watcher, we published an article from the Legislative Administration's pilot of "smart" power strips. These are power strips that connect to an occupancy sensor that turns off major plug loads when we leave our cubicles. DAS decided to try a test as well and purchased ten of the power strips. Throughout the month of October, we tried them in different kinds of locations and situations to see how they handled all scenarios. DAS achieved an average of 45 percent savings. From this point, DAS hopes to begin a pilot project with the Energy Trust of Oregon (ETO) to deploy and track the effectiveness of the devices on a broader scale. The spring Waste Watcher will include the results of the pilot project and any exciting next steps.



## OREGON'S HIGHEST RECYCLING RATE EVER

Oregon Department of Environmental Quality (DEQ) recently released its 17th annual survey of garbage haulers and private recycling and composting companies. The report shows that once again Marion County leads the state in recycling efforts with a rate of 58.4 percent for 2008. This "recovery rate," includes recycling, composting and material burned for energy recovery. The average statewide is 48.2 percent. The garbage and recycling haulers in Marion County deserve much of the credit – their efforts have allowed for an extensive list of recyclable items that can be collected curbside. The "2008 Oregon Material Recovery and Waste Generation Rates Report" is available at: <http://www.deq.state.or.us/lq/pubs/docs/sw/2007MRWGRatesReport.pdf>.

# BUILDING SAVINGS UPDATE



DAS compares all bills to the calendar year 2000 as a baseline. The goal and OAR require a 20% reduction in electricity and natural gas usage by 2015. DAS does not adjust the buildings without baseline adjustments for weather or any other factors. The Billed Electricity column reports in kilowatt-hours (kWh) and Billed Gas in therms. The % change column represents the combined electric and gas savings in Btu's compared to the year 2000 usage. The Billed Cost column includes the totals for electric and gas – not all utilities. The individual buildings listed do not include all DAS-owned buildings, but the TOTAL DAS line does represent the total DAS usage and spend for electricity and natural gas.

January–October 2009 data are as follows:

	Billed Electricity	Billed Gas	Billed Cost	% change
• Agriculture:	885,767	15,395	\$ 99,648	-28%
• Albina*:	469,407	4,340	40,022	-31%
• Archives:	816,229	23,975	96,103	-39%
• BC/OSHA*:	317,471	10,703	43,832	+34%
• Central Pt:	460,862	12,135	46,902	-2%
• Commerce*:	233,960	4,730	31,558	-47%
• Data Ctr.!:	5,404,510	7,123	359,698	N/A
• Employ*:	2,057,581	---	174,859	-49%
• Executive:	694,995	7,020	75,912	-27%
• Gen Svcs:	543,786	7,561	63,694	-22%
• GS Annex:	36,835	380	4,573	-8%
• Hum Svcs:	3,309,464	32,016	320,955	-20%
• L&I:	2,537,337	26,618	197,658	-15%
• Library*:	429,069	9,628	32,943	+3%
• NMOB!:	1,149,046	10,247	115,445	N/A
• NPSOB:	423,367	8,284	41,234	-28%
• OPSOB:	220,531	854	17,285	-21%
• Port Lab!:	1,287,366	19,831	129,976	N/A
• Port SOB:	2,832,280	17,349	209,765	-1%
• Print Plant:	1,414,131	4,440	127,679	-17%
• Prop Dist:	225,777	16,730	37,719	+14%
• Pub Svc*:	2,005,625	3,384	161,421	-16%
• Pub Utility:	1,230,475	1,479	112,025	-17%
• Real Estate:	156,717	5,431	22,040	-16%
• Revenue*:	3,713,038	22,040	331,434	-54%
• Salem MP:	347,138	9,240	44,417	-20%
<b>TOTAL DAS:</b>	<b>40,907,247</b>	<b>428,465</b>	<b>\$3,847,003</b>	<b>-30%</b>

## DAS buildings saved 16% in 2008.

Note: DAS investigates all buildings that do not meet the 20% goal.

\* The swings in usage could be non-tenant related. These buildings had major lighting or HVAC projects, changes in operation schedules, installation of computer centers or other high use spaces, or other outside factors that influenced their use since the baseline year. The buildings will no longer have baselines adjustments, but DAS actively investigates to ensure the building maintains maximum efficiency.

! These buildings have been constructed since the baseline year and adjustments are underway to correct DAS totals for their usage.

# URBAN GARDEN IN EUGENE

## A sustainability success story

A new project gains momentum in the parking lot of the former Eugene State Motor Pool on Pearl Street in Eugene. It's called Vermiculture Composting, where food scraps and shredded paper are fed to thousands of worms. "We have built two containers that are called Oregon Soil Compost Reactors (OSCR). Each OSCR can hold up to 12,000 European Red Worms. We started with 3,000 in each bin and will reach our goal of 12,000 in each



Pumpkins happily grow alongside the parking lot in downtown Eugene



The worm bin collects waste paper bin by December of next year," says Casey Obie-Barrett, Director of Operations for the 5<sup>th</sup> Street Market in Eugene. They started the project on the Sept 14, 2009.

By feeding the worms their food scraps, they eliminate the added impact on the local landfill and cut their garbage bills. The worms produce "castings," a premium, natural fertilizer that they use in the flower pots and landscapes around the market.

They also involve the community. They installed a paper collection bin on the first floor of the market for the public to help feed the worms. The bin has been a big success, and the public enjoys being a part of the project. They plan to start selling worms and castings to customers in the future. In addition to vermi-composting, they also grow the pumpkins for their fall décor, and plan to grow corn stocks next year. They even have a greenhouse on the roof to raise flowers for their planters.

DAS leases the space in the parking lot to the market and is pleased they have turned it into a sustainable space that benefits the community. The project receives a lot of local attention, including television news stories and the front page of the local paper.

## TIP OF THE MONTH

Save water. Put the soap on your hands, then turn on the water to wash rather than leaving the water on the whole time. That adds up to a lot of water saved for just one person over weeks, months and years. Submitted by Sandy Johnson, DAS PEBB



# GREEN YOUR HOLIDAY GIFTS

Contributed by Devidas Gupta

The holiday season is here and some of us plan to review our holiday list. Here are some tips to "green" your holiday gifts this year, both for the environment and to save money:



## 1. Use Environmental Rating websites/mobile applications:

- GoodGuide – <http://www.goodguide.com>
- Skin Deep – <http://www.cosmeticsdatabase.org>
- Climate Counts – <http://www.climatecounts.org>

## 2. Purchase gifts from recycled materials

- Eco Artware - <http://www.eco-artware.com/>
- Uncommon Goods - <http://www.uncommongoods.com>
- Wildwoods - <http://wildwood.ca>

## 3. Purchase naturally-powered toys and avoid batteries:

- Sprig Toys – <http://www.sprigtoys.com>
- Inspired Play – <http://www.inspiredplay.com>
- Eco Toy Town – <http://www.ecotoytown.com>

## 4. Give gifts of plants and trees:

- Territorial Seeds – <http://www.territorialseed.com>
- Bay Flora – <http://www.bayflora.com>
- RainTree – <http://www.raintreenursery.com>
- Neem Tree Farms – <http://neemtreefarms.com>

## 5. Gift services, create memories and experiences:

- Kiva – <http://www.kiva.org>
- Accion – <http://www.accion.org>
- World Vision – <http://www.worldvisionmicro.org>

## 6. Gift collectibles and heirlooms

## 7. Personalize your gifts - write your story

## 8. Choose wrapping paper made from recycled paper or none at all:

- Fish Lips – <http://www.fishlipspaperdesigns.com>
- Green Paper Studio – <http://www.greenpaperstudio.com>
- Green Field Paper – <http://www.greenfieldpaper.com>

Note: DAS does not endorse these products, but provides the links for information only.

## DID YOU KNOW?

Between Thanksgiving and New Year's Americans throw away 25% more trash nationwide? That amounts to about an extra one million tons of waste each week. Here are a few ideas to reduce waste this holiday season:

- ★ When buying electronic toys and other portable items, remember to buy rechargeable batteries to use with them.
- ★ Consolidate last minute shopping trips.
- ★ Don't forget your trusty reusable shopping bag.
- ★ Purchase biodegradable flatware and utensils for parties.
- ★ Use LED holiday bulbs that use 80-90% less energy than incandescents for office and home events.
- DAS Sustainability Program website: <http://sustainability.oregon.gov>



## RESOURCES

- DAS Sustainability Plan: [www.oregon.gov/DAS/FAC/Statewide/docs/DAS\\_Sustainability\\_Plan.pdf](http://www.oregon.gov/DAS/FAC/Statewide/docs/DAS_Sustainability_Plan.pdf)
- DAS Six-Month Progress Report: [www.oregon.gov/DAS/FAC/Statewide/docs/DAS\\_Sustainability\\_Report\\_Jul-Dec08.pdf](http://www.oregon.gov/DAS/FAC/Statewide/docs/DAS_Sustainability_Report_Jul-Dec08.pdf)
- Greenhouse gas emissions inventory for state of Oregon internal operations: [http://governor.oregon.gov/Gov/2007\\_Legislative\\_Session/Correspondence/DAS\\_GHG\\_report.pdf](http://governor.oregon.gov/Gov/2007_Legislative_Session/Correspondence/DAS_GHG_report.pdf)
- Legislative bill tracking: [www.leg.state.or.us/bills\\_laws/](http://www.leg.state.or.us/bills_laws/)
- Oregon Sustainability Board: [http://sustainability.oregon.gov/DAS/FAC/SUSTOR/osb\\_main.shtml](http://sustainability.oregon.gov/DAS/FAC/SUSTOR/osb_main.shtml)

In addition, Governor Kulongoski established some of the most aggressive sustainability requirements in the country. Below is a summary of the key drivers in state government.

- 20% energy reduction goal by 2015 and SEED guidelines [http://arcweb.sos.state.or.us/rules/OARs\\_300/OAR\\_330/330\\_130.html](http://arcweb.sos.state.or.us/rules/OARs_300/OAR_330/330_130.html)
- DAS policy 125-6-010: Sustainable Facilities Standards <http://www.oregon.gov/DAS/FAC/docs/1256010.pdf> (policy revision planned for late 2009)
- DAS policy 107-011-010: Resource Conservation <http://www.oregon.gov/DAS/OP/docs/policy/state/107-011-010.pdf>
- DAS Resource Conservation policy exception form [http://www.oregon.gov/DAS/OP/docs/policy/state/107-011-010\\_exception\\_form.pdf](http://www.oregon.gov/DAS/OP/docs/policy/state/107-011-010_exception_form.pdf)
- DAS policy 107-011-030: Holiday Decorations & Lights <http://www.oregon.gov/DAS/OP/docs/policy/state/107-011-130.pdf>
- DAS policy 107-011-140: Sustainable Procurement and Internal Operations <http://www.oregon.gov/DAS/OP/docs/policy/107-011-140.pdf>
- DAS E-waste policy 107-009-0050 <http://www.oregon.gov/DAS/OP/docs/policy/state/107-009-0050.pdf>
- ORS 279A governs procurement of goods, the purchase of paper, recycled materials, etc. <http://landru.leg.state.or.us/ors/279a.html>
- ORS 459A.480 governs state agency recycling programs. <http://landru.leg.state.or.us/ors/459a.html>
- Solar power in public buildings: 1.5% of construction cost [http://arcweb.sos.state.or.us/rules/OARs\\_300/OAR\\_330/330\\_135.html](http://arcweb.sos.state.or.us/rules/OARs_300/OAR_330/330_135.html)

## CONTACT

Elin Shepard  
Sustainability Coordinator  
Phone: 503-373-7132  
Email: [Elin.D.Shepard@state.or.us](mailto:Elin.D.Shepard@state.or.us)



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