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The Sustainable Business Bulletin

Marion County Public Works - Environmental Services EarthWISE Business Program

Paper or Plastic? Is "going green" really green?



Which is greener, disposable plastic water bottles or stainless steel containers? There are more considerations than you might think!



Americans buy about 28 billion plastic water bottles every year.

One in nine of those bottles gets recycled.

Eight in ten will end up in a landfill.

It takes about 17 million barrels of oil to make all of these plastic bottles

Most of us have heard the debate over paper or plastic at the checkout stand and have learned that reusable containers make the most environmental and economic sense for both businesses and consumers. But it's worth more exploration: how environmentally friendly are "green" products?

The following are excerpts from a New York Times article- "How Green is my Bottle?" by Daniel Goleman and Gregory Norris, that highlight many of the factors that affect whether a product or process is truly green.

"Consider, for example, this paragon of ecovirtue: the stainless steel water bottle that lets us hydrate without discarding endless plastic bottles. Using a method called life cycle assessment, we have evaluated the environmental and health impact of a

stainless steel thermos from the extraction and processing of its ingredients, to its manufacture, distribution, use and final disposal. There were some impact can be reduced by surprises. What we think of as "green" turns out to be less so (and, yes, sometimes more so) than we assume.

Extraction Process:

Producing stainless steel requires a global supply chain involving more than 1,400 steps, each with its own impact on the environment. The ores have to ing and ventilation of the be processed to extract useful metal. This usually involves energy-intensive only requires enormous amounts of fossil fuel but also releases greenhouse gases, carcinogens, particulates and toxic materials into the air, water and soil.

Manufacturing:

Making stainless steelwhich requires the processing of nickel and chromium ores-results in about 10 times more pollution than regular steel. But if the steel mills use recycled iron, instead of newly mined pig iron, the environmental and health 10 to 15 percent.

Distribution:

The good news: shipping the bottle from a factory in Asia in a tightly packed cargo container, plus a few hundred miles by truck, adds only 1 percent to 5 percent to the environmental burden. The bad: the heating, cooling, lightstore where you buy the bottle could have nearly as much of a negative effect heating, a process that not on the environment as producing the bottle itself.

Disposal:

Steel lasts forever; so disposal probably comes the day you lose the top. Try to ensure that the discarded bottle finds its way to a steel recycler-not just a landfill where it could sit for centuries. By recycling stainless steel you return not only steel but nickel

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Where does it all go?



To receive an application for the fall 2009 Master Recycler class contact:

Bailey Payne
Recycling Coordinator
bpayne@co.marion.or.us
503-588-5036 ext. 5991



Eight weeks of classroom instruction with a variety of community experts takes place on Thursday nights.



Saturday field trips give participants a first hand look at ways to deal with solid waste in Marion County.

Master Recycler Class - Would your employees benefit?

Marion County's Master Recycler Class is part of a community waste reduction and recycling education project. Participants in the course receive over 30 hours of comprehensive training that can keep key employees up to date on important issues regarding solid waste management reduction and recycling.

Marion County Environmental Services will be holding a first ever fall class this upcoming September. Classes run for eight weeks and include three Saturday field trips and are limited to 25 participants. See side bar for more information about registration.

Paper continued from previous page stainless steel bottle re-

and chromium alloys to the production chain, reducing the need to mine and process more of these essential ingredients. These benefits are well worth the impact of transporting the steel back to the mill for recycling.

Use:

If you wash your stainless steel water bottle in a dishwasher that uses a half-liter of electrically heated water, 50 to 100 washes can result in the same amount of pollution that was caused by making the bottle in the first place. Washing it in cold water still demands electricity to pump the water and chemicals to treat it—but the cost is tiny in comparison.

So, is stainless steel really better than plastic?

One stainless steel bottle is obviously much worse than one plastic bottle. Producing that 300-gram

quires seven times as much fossil fuel, releases 14 times more greenhouse gases, demands the extraction of hundreds of times more metal resources and causes hundreds of times more toxic risk to people and ecosystems than making a 32-gram plastic bottle. If you're planning to take only one drink in your life, buy plastic.

But chances are buying that stainless steel bottle will prevent you from using and then throwing away countless plastic bottles. And think of the harm done to the environment by making more and more plastic — the electricity needed to form polyethylene terephthalate resin into bottles, the fossils fuels burned to produce this electricity, the energy used and emissions released from mining the coal and converting crude oil to fuel, and on and on.

What it comes down to is this: if your stainless steel bottle takes the place of 50 plastic bottles, the climate is better off, and if it gets used 500 times, it beats plastic in all the environment-impact categories studied in a life cycle assessment.

It's important to keep in mind that the 21st century has inherited from the 20th (and sometimes the 19th) manufacturing processes and industrial chemicals that were developed when no one knew — or cared that much — about environmental damage. But even though climate change demands urgent ecological action, this crisis also offers vast entrepreneurial opportunities; we need to reinvent everything with an eye to protecting the planet.

Then again, some old solutions we shouldn't discount.
Before stainless steel thermoses, before bottled water, we already had an ecofriendly method of getting water: drinking fountains."

Source: New York Times , 4/19/09

Spotlight on EarthWISE businesses

Mahalo Air Conditioning

Salem- We work to reduce our customer's environmental impact and carbon footprint, which not only helps the environment but also results in long term



financial savings. Our goal is to meet your budget to install the most efficient, dependable system we can. We actively manage our oil and refrigerant waste to protect our air and drinking

water. We also separate and recycle all of our job waste. One year we were able to recycle nearly 100 tons of scrap steel and are striving to achieve a zero waste record.

www.mahaloairco.com 503-999-4417

Oregon Community Credit Union

Salem- At Oregon Community Credit Union we've made a conscious decision to do business in ways that not only benefit our members, but also our community and the environment.

Here are a few of the things we're doing to be a more sustainable business:



- Recycle office waste and purchase materials with recycled content.
- Invest in energy efficient lighting, heating, and cooling.
- Donate time and money in statewide beautification proiects.
- Offer employee incentives to bike, carpool, or use mass transit.

www.OregonCommunityCU.org 503-588-2347

Do you know of a business or friendly competitor that might like to know more about the EarthWISE program? Have them give us a call, email, or check out our web site. It's all listed below:

Alan Pennington 503-365-3188

or

earthwise@co.marion.or.us

or

www.co.marion.or.us/PW/ es/EarthWISE

And some more of our new Earthwise members....

Hillyer's Mid-City Ford



Woodburn- Hillyer's Mid City Ford, owned and operated by Leo Hillyer, was established in 1993. Because the Hillyer Ford family shares a love of the outdoors we wanted to find ways to protect Oregon's environment by reducing waste and recycling. Working with local recyclers, Earth-WISE, and EcoBiz, we've been able to greatly reduce our waste stream while realizing a cost saving benefit that is much more than we anticipated. We hope that our efforts will be recognized by others in the automotive industry and encourage them to increase their sustainability efforts.

www.Hillyers.com 503-981-4747

T-Mobile

T··Mobile

Salem-The Salem T-Mobile
Call Center is greatly pleased
to join other outstanding
Marion County businesses in
being EarthWISE certified.
Our goal has always been to
reduce waste, recycle more,
use sustainable products, and
conserve energy and water
whenever possible. The net
result of saving money, making the workplace safer, and
lessening our environmental

footprint has a positive impact for all of us.

www.t-mobile.com 503-851-1033

Pacific Sanitation

Salem-In 2009, Pacific Sanitation began collecting cooking oil and anti-freeze in our curbside recycling program. We run bio-diesel in all of our trucks, and recently our office started using recycled paper for all of our route books. We are proud to be a Marion County EarthWISE certified business.

www.mrtrashrecycles.com 503-393-1031





Want to join the discussion regarding the future of recycling and solid waste management in Marion County? There will be two public hearings on the proposed plan that will include a presentation and time for public input.

Stayton

Thursday, June 11, 6:30 pm Stayton Library 515 N. First St.

Woodburn

Thursday, June 18, 6:30 pm Woodburn City Hall Council Chambers 270 Montgomery St.

EarthWISE Member Directory

We welcome our new members*!

Advantage Precast Inc. – Keizer www.advantageprecast.com

Agri-Plas, Inc.— Brooks www.agriplasinc.com

AJ's Auto Repair— Salem www.ajsautorepair.com

Bentley's Grill— Salem www.bentleysgrill.com

Carlson Veit Architects— Salem www.carlsonveit.com

Cascade Baking— Salem www.cascadebaking.com

CB|2 Architects- Salem www.cb2architects.com

Champoeg State Heritage Area— St. Paul www.oregonstateparks.org

Chiropractic Physicians, P.C. – Salem 503-378-0068

Coldwell Banker Commercial Mountain West Real Estate– Salem

www.cbcre.com

Compex Two Computers – Silverton www.compex2.com

dalke construction, Inc.— Salem www.dalkeconstruction.com

DeSantis Landscapes Inc.— Salem www.desantislandscapes.com

D & O Garbage Service, Inc. — Salem www.mrtrashrecycles.com

Dr. Holly Chamberlain D.D.S.— Salem www.hollychamberlaindentist.com

Garten Services, Inc. – Salem and Keizer www.garten.org

Green Acres Landscape, Inc.— Salem www.greenacreslandscapeinc.com

Hillyer's Mid-City Ford— Woodburn www.hillyers.com

Kristin LaMont, Attorney at Law— Salem www.lamont-law.com

Lancaster Mall Operations— Salem www.LancasterMall.com

Laura's Room by Room Renovation— Salem 503-999-4416

Mahalo Air Conditioning Co.— Salem www.mahaloairco.com

Marion County Public Works- Environmental Services www.co.marion.or.us/PW/ES

Marion Recycling Center- Salem www.mrtrashrecycles.com

NORPAC Foods— Stayton, Salem, Brooks www.norpac.com

Oregon Center of Cosmetic and Family Dentistry-Salem

www.ltTakesAnArtist.com

Oregon Community Credit United— Salem www.oregoncommunitycu.org

Oregon Department of Energy— Salem www.oregon.gov/ENERGY

Oregon State Capitol— Salem www.leg.state.or.us

Pacific Sanitation—Salem* www.mrtrashrecycles.com

Performance Health Technology— Salem www.phtech.com

Phoenix Grand Hotel— Salem www.phoenixgrandhotel.com

Salem Public Library— Salem www.salemlibrary.org

State of Oregon Salem Motor Pool— Salem www.oregon.gov/DAS/SSD/FLEET

Sabroso Company— Woodburn www.sabroso.com

SAIF Corporation— Salem www.saif.com

Saint Edward Catholic Church — Salem www.sainteds.com

Salem Conference Center— Salem www.salemconferencecenter.org

Spring Valley Dairy—Salem* www.springvalleydairy.com

The Garden Angels—Salem* www.TheGardenAngels.com

T-Mobile — Salem www.t-mobile.com

Truitt Bros., Inc.— Salem www.truittbros.com

United Way — Salem www.unitedwaymwv.com

Willamette Ear, Nose, Throat and Facial Plastic Surgery, LLP—Salem www.entsalem.com

Willamette Valley Fruit Company— Salem www.wvfco.com

Wilshire Credit Corporation—Salem

Woodburn School District Offices— Woodburn www.woodburn.k12.or.us



Marion County Public Works – Environmental Services EarthWISE Business Program

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earthwise@co.marion.or.us

Workplace Initiative for Sustainable Enterprise

WE'RE ON THE WEB!

HTTP://

WWW.CO.MARION.OR.US/

PW/ES/EARTHWISE

To learn more about the EarthWISE business assistance program, visit our website or give us a call. We're excited to work with you. If you would like to be added to the Sustainable Business Bulletin email list send an email to earthwise@co.marion.or.us with "add Sustainable Business Bulletin" in the subject box. To be removed from the list, put "remove" in the subject box.

