



# American Recycler

NewsVoice of Salvage, Waste and Recycling

AmericanRecycler.com

## FOCUS: ALTERNATIVE ENERGY/COMPOSTING

### Food waste drawing industry attention



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## Reclaiming plastics from the sea

by MIKE BRESLIN

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In business, solving big problems can lead to big profits. One of our largest environmental problems is the millions of tons of plastic waste that wind up floating in our oceans and washing up on beaches. It's not only unclean, but a massive waste of raw material that should otherwise be recycled. Most importantly, it's an ecological disaster affecting marine life and ultimately human health. Finding new ways to prevent or recover discarded plastics from rivers and oceans could be a gold mine business for 21st century entrepreneurs. Imagine how larger streams of recycled plastic could reduce our reliance on virgin material and the related energy consumption and pollution consequences.

But it will be tough going. Nevertheless, a few pioneering companies are beginning to recycle ocean plastics as a way of drawing public and government attention to the problem of ocean plastics pollution.

Scientists are just beginning to understand the complex problem of plastic debris in oceans and how it is detrimental to the ecosystem. They have identified five major ocean gyres or systems of rotating currents where wind and water trap floating debris such as plastic, much like an eddy in a river. The most notable is the North Pacific Gyre, also known as the Great Pacific Garbage Patch, which is estimated to be the size of Texas.

Because of the durability of plastic, it can float in these gyres for decades before sunlight photo-degrades it into tiny particles that float on and below the surface and can be consumed by creatures as small as plankton, a basic in the marine food chain. The plastic does not go away, however. Since it is non-biodegradable it remains in tiny sizes which can be ingested by sea creatures. Plastic particles have been found in



Plastic waste from two oceans. The french plastic from Marseille consisted mainly of PET-bottles and "tourist litter". The Swedish plastic from Sotenäs contained different sorts of packaging, bottles, buckets and household waste.

sea birds and many species of fish and have been traced as the causes of sicknesses and death.

Picking up plastic debris from beaches and sorting it by hand is highly labor intensive and usually done by volunteers. Netting it from the water is currently cost prohibitive from a business standpoint.

In late 2012, Method, an environmentally-conscious cleaning products company launched its latest innovation in sustainable packaging – bottles made from a blend of plastic recovered from the ocean with post-consumer recycled plastic. The bottles are for a limited edition packaging of a new Method product, a two-in-one hand and dish soap, which is available exclusively at Whole Foods Market stores nationwide.

"Method is really demonstrating how smart business can make a big impact for our planet," said Errol Schweizer, executive

See **OCEAN PLASTIC**, Page 7

## Survey indicates Americans feel they're not doing enough for the environment

A new national survey finds most Americans feel less than confident that they're doing enough to help the environment – and many say they don't really know how.

Only 37 percent of Americans in the survey say they're doing enough for the environment, and less than half (46 percent) say they are knowledgeable about what it takes to be eco-friendly in daily life. Two thirds of Americans say they would like to learn some simple steps that help the planet.

Plastics Make it Possible, which commissioned the survey by Kelton Research for America Recycles Day, offers one simple approach: buy recycled.

"It's never been easier to recycle in America, especially the plastic bottles,

caps and containers that we use every day," said Steve Russell, vice president of plastics for the American Chemistry Council, which sponsors the Plastics Make it Possible initiative.

The good news is that almost all Americans now have access to recycling – and more than 90 percent said they recycle in their daily lives, according to the survey. However, the next part of the recycling loop – looking for products made with recycled materials – is not as widespread. With the holiday retail season upon us, only 28 percent say they will look for gifts this year made with recycled materials, according to the survey.

Recycled plastics, for example, are used to make a wide range of consumer

goods, such as clothing, kitchenware and garden tools, that can make great eco-friendly gifts. In 2012 the company Repreve turned nearly one billion plastic bottles into yarn and fabrics used to make items for companies such as Patagonia, Ford Motor Company and LK Life Khaki. The number and kinds of products made with recycled plastics are growing dramatically as plastic recycling expands.

While the survey finds that many Americans may not know how to be eco-friendly, most are doing at least something to find out – more than three quarters (78 percent) say they have taken some action to learn more about which products are collected for recycling in their community.



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## NYSAR3 awards recyclers

The New York State Association for Reduction, Reuse and Recycling (NYSAR3), the professional recyclers' association for New York State, recognizes a few of their members each year for their dedication, innovation and passion for recycling. For 2012, two people were recognized by NYSAR3 at their annual conference.

**Recycler of the Year** – Awarded to Peggy Grayson of the GLOW Region Solid Waste Management Committee. Grayson is the only employee covering a multi-county area of the state for recycling and she does it with enthusiasm and on a shoestring budget. Grayson was one of the first in the state to execute multi-county household hazardous waste

collection days and is also the driving force behind the Western NY Materials Exchange catalog.

**Lifetime Achievement** – Awarded to Marjorie Torelli, of the former Western Finger Lakes Solid Waste Management Authority. Torelli is of one recycling's fiercest advocates and can always be relied on to make a justifiable argument in favor of recycling. She spent 21 years educating western New Yorkers with a truly hands-on approach to recycling education by creating programs for school children and adults alike during her tenure. Her expertise is routinely sought by others in the field as her reputation as a poised and respected professional is second to none.

## Casella sells Maine energy facility

Casella Waste Systems, Inc. completed the sale of the property containing its Maine Energy Recovery facility (MERC) to the City of Biddeford, Maine.

As part of the transaction, Biddeford will pay the company total consideration of \$6.65 million over 21 years, enter into a new 10 year waste handling agreement, and enter into a new 10 year recycling collection agreement. At closing, the company conveyed to Biddeford the land (excluding any above grade improvements other than the stack) and cellular leases related to antennae on the stack.

The purchase and sale agreement allows for a post-sale transition period, where the company has the option to operate MERC for up to 6 months and the company has 12 months to dismantle all facilities on the property except for the stack that houses the cellular equipment.

The company plans to cease operations at MERC by the end of its third quarter fiscal 2013, and at that time begin the process to dismantle the facility.

"In September, we began construction of a new transfer station in Westbrook, Maine to handle the majority of the waste currently disposed of at Maine Energy," said John W. Casella, chairman and CEO of Casella Waste Systems. "We expect to complete construction at Westbrook in late December, and to begin transferring waste historically directed to Maine Energy, to other company landfills. The sale of Maine Energy is expected to materially improve our financial results, with consolidated Adjusted EBITDA margins improving by roughly 70 basis points, and cash flows increasing by roughly \$5.6 million per year due to lower capital expenditures."

## Pennsylvania recovers over \$2 million through recycling

Pennsylvania's general services secretary Sheri Phillips said that more than \$2 million was recovered through the Commonwealth's recycling program in 2011-2012 – a 9 percent increase from the previous annual time period.

"The saying 'one man's trash is another man's treasure,' truly applies in the case of the Commonwealth's recycling program," Phillips said. "In this case we are turning our trash into treasure – to the tune of \$2 million."

The Commonwealth recycling program has been in effect since 1989 through Act 101 of 1988, the Municipal Waste Planning, Recycling and Waste Reduction Act, and was enhanced by Management Directive 202.55 Recycling, Waste Reduction and Procurement of Environmentally Preferable Products.

Administered by the Department of General Services, the program requires the central and satellite offices of all Commonwealth agencies to have a separation and collection program for recyclable materials produced as a result of agency operations, including: office paper, cardboard, aluminum, plastic and glass.

Commonwealth agencies are encouraged to incorporate into their recycling programs efforts to recycle, reuse or refurbish pallets and to collect toner cartridges for remanufacturing. Agencies should also include programs

to recycle, as appropriate, batteries, scrap metal, tires, waste oil, fluorescent lamps and ballasts.

"This program ensures that we exceed requirements for environmental responsibility while at the same time, reduce our amount of waste and recoup some of the costs spent on materials we can no longer use," Phillips said.

Recovered funds are used to offset the cost of the recycling program and the purchase of new materials to replace those being recycled.

"In addition to the traditionally recycled items, we're ahead of the curve in the implementation of an e-waste recycling program, which has already recovered more than \$30,000 from more than 300,000 lbs. of material recycled this year," Phillips said.

Secretary Phillips noted that new rules for recycling electronic devices under the Pennsylvania Covered Device Recycling Act will take effect for consumers and businesses on January 24, 2013.

Under the act, consumers cannot dispose of certain devices, such as computers, laptops, monitors and televisions, with their trash. This means that trash haulers will no longer be able to take these devices unless the municipality has a collection or drop-off program that ultimately sends the devices to an electronics recycler.

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## Sonoco accepts more materials

Sonoco Recycling, LLC has invested \$4 million in its Columbia, South Carolina, materials recovery facility, allowing acceptance of additional types of materials. Because of this, local residents will be able to recycle more of their household materials such as composite cans, glass, magazines and other types of plastics.

Sonoco Recycling has added three sorting screens for corrugated cardboard and paper sorting, an optical sorter to retrieve plastic, and a new glass crusher that allows the facility to collect whole and broken glass bottles, jugs and jars.

New items accepted:

- Composite cans – cardboard containers with metal bottoms, such as coffee or Pringles containers.

- Paper – office paper, junk mail, magazines, chipboard, wet-pack boxes and gable-top cartons.

- Plastics – most plastics #1 through 7.

- Glass – whole and broken glass bottles, jugs and jars.

The facility is still unable to accept tissue paper, paper plates and cups, waxed cardboard, plastic bags and films, containers that have held toxic substances, metal lids on glass or plastic items, glass cups or plates, window glass or ceramics.

## Pennsylvania DEP accepting applications for 2013 awards

The Pennsylvania Department of Environmental Protection is encouraging environmental stewards to apply for the 2013 Governor's Environmental Excellence Award.

The award is open to all Pennsylvania businesses, farms, government agencies, educational institutions, non-profit organizations and individuals that have developed innovative environmental projects, strategies and technologies or have created opportunities that balance environmental stewardship and economic development.

Eligible projects include wastewater recycling technology innovation, resource development, renewable and alternative energy innovation, economic opportunity development, watershed restoration strategies and environmental education outreach, among others.

Projects will be evaluated based on seven criteria detailed within the application, including potential job creation and use of innovation technology. A clear, concise explanation of the project's purpose must be included in the project summary.

The project must have been completed between Aug. 1, 2011, and July 31, 2012. While each candidate may submit only one application for a particular project, companies with multiple facilities may submit an application for each facility.

Projects that have previously received a Governor's Award for Environmental Excellence are not eligible for this award, though past winners may submit applications for new projects for consideration.

Each project will be reviewed by a committee of DEP employees. Recipients of the award will be honored during an evening reception and the winning projects will also be listed on DEP's website.

Projects should be submitted via email to RA-EPgovenviroawards@pa.gov on January 31, 2013. Faxed or mailed submissions will not be considered.

For more information or to apply, visit [www.dep.state.pa.us](http://www.dep.state.pa.us), keywords: Governor's Award for Environmental Excellence.

## Navistar mobilizes dealer network to aid east coast fleets

Navistar International Corporation has initiated Operation Assist, a disaster relief program put into effect to help in Superstorm Sandy recovery efforts on the East Coast to get International Truck customers back in business as soon as possible.

Through Operation Assist, Navistar is coordinating with its International Truck North American dealer network and International Used Truck Centers to help customers in the East Coast find new or used trucks to replace lost or damaged vehicles.

In addition to quickly replacing damaged vehicles, Navistar will match employee and dealer contributions up to \$50,000 to the American Red Cross.

Navistar has organized lists of available new and used International trucks and trailer inventory from its North American dealer network to assist in the recovery. Dealers across the country are

working together to provide access to the variety of trucks needed to aid customers in the region.

"We created Operation Assist to facilitate trades among dealers and speed the process of getting needed trucks to the region. We're trying to get our customers back in operation as quickly as possible," explained Jeff Ordner, director, international fleet sales, Northeast region.

IC Bus, a Navistar company, has already answered the call for help by delivering an order of 100 school buses to Amvay School Bus, Staten Island, New York, in an effort to quickly restore school bus service for children.

Meanwhile, Navistar's Idealease truck leasing program has thousands of International trucks with titles and leases in its inventory across the country, which can be quickly deployed to customers on the East Coast.



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## Covanta reveals agreements with municipalities

Covanta Energy Corporation entered into agreements with the Towns of West Hartford and Enfield, Connecticut for sustainable waste management services.

Covanta will provide one-stop shopping for waste disposal, recycling and composting. By bundling services, municipalities are able to save money on disposal costs and get credit back in the form of a rebate for recycling.

Since the end of 2011, Covanta has added a number of new partner municipalities in Connecticut including Guilford, Madison, East Hartford, Newington, Southbury, Windsor Locks and Vernon. The addition of West Hartford and Enfield brings the total amount of municipal solid waste Covanta will now manage as a result of these new partnerships to approximately 150,000 tons and the total amount of recyclables to 25,000 tons per year. The average agreement runs for four years with extension options.

As part of the new agreements, Covanta also provides educational outreach funds to communities. These funds can be used for a variety of projects including hazardous household waste collections and energy-from-waste and recycling education programs.

Covanta's Energy-from-Waste facilities provide Connecticut communities with an environmentally superior alternative to landfilling their municipal solid waste, generating clean, renewable energy for more than 34,000 homes in the state and recycling enough metal to build more than 12,000 automobiles annually.

## Drop & Shop retail recycling programs work

Of those who "drop and shop," 51 percent in the U.S. and 56 percent in Canada go beyond replacing what they just recycled to shop and buy other items, according to a recent study commissioned by Call2Recycle®, a product stewardship organization managing the only no-cost battery and cell phone collection program in North America.

Of those surveyed, 54 percent in the U.S. and 45 percent in Canada consider retailers a key source for learning about recycling programs where 18 percent of the U.S. population and 24 percent of the Canadian population participates in retail "take back" programs for the collection and recycling of batteries and cell phones.

This is good news for the many environmentally-committed retailers who offer take back programs for their customers. Major retailers such as The

Home Depot, Best Buy, Canadian Tire, RadioShack and Lowe's all offer on-site collection of recyclables, including rechargeable batteries. Up to 80 percent of battery and cell phone recyclers surveyed cited convenience as a major motive for participation and up to 80 percent of respondents say they have positive feelings about stores that offer such programs.

"When collection programs are convenient and accessible, busy consumers will integrate recycling into their routines, setting the stage for growth in recycling participation," said Carl Smith, chief executive officer and president of Call2Recycle. Added Smith, "We are continuing to work with retailers to make it even easier for people still holding on to rechargeable batteries to fit recycling into their weekly errand list." 91 percent of the U.S. population has access to a

Call2Recycle battery collection location within 10 miles of their residence.

According to the response data, consumer support of product recycling is heavily influenced by three key factors: the mode of product collection; how accessible the collection program is for consumers; and their general awareness of take back programs. Batteries and cell phones, among other products, are primarily collected at retail outlets where consumers already shop.

Call2Recycle counts consumer participation through the retailer's programs as part of its record of more than 70 million lbs. (34 million kilograms) of rechargeable batteries diverted from the waste stream. This participation can only increase as 67 percent and 75 percent of non-battery and cell phone recyclers surveyed, in the U.S. and Canada respectively, say they intend to recycle in the future.

## EPA awards more than \$5.3 million for research

The U.S. Environmental Protection Agency (EPA) announced more than \$5.3 million in research fellowships to 127 students pursuing degrees in environmental studies throughout the United States.

Twelve of the fellowship recipients attend one of eight universities and colleges in the Southeast. Duke University, Georgia Institute of Technology, University of South Alabama, University of Central Florida, North Carolina State University, University of North Carolina – Chapel Hill, University of Florida –

Gainesville and Spelman College each had at least one student receive a fellowship. The 11 Greater Research Opportunities (GRO) fellows and the one Science to Achieve Results (STAR) fellow exemplify the agency's efforts to improve Science, Technology, Engineering and Mathematics (STEM) education. These fellowships encourage leadership in the nation's environmental science, research, restoration, pollution prevention and sustainability efforts.

2012 marks the 30th anniversary of the GRO Fellowship program, which is

part of the national effort to ensure that the United States continues to graduate students ready to meet environmental science, engineering, and policy challenges. Supporting graduate environmental study for masters and doctoral students, the STAR fellowship program provides a steady stream of well-trained environmental specialists that are meeting society's environmental challenges by performing new environmental research in engineering and in the physical, biological, health and social sciences.

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## Ohio auto recyclers oppose bill statehouse

Members of the United Coalition of Ohio Auto Recyclers (UCOAR) from all across the state came together in a display of unified grassroots opposition to Senate Bill 273. Dozens of auto recyclers rallied together outside the Ohio Statehouse for hours, displaying bold signs of protest seen by legislators, passing motorists and others. The demonstration also involved parading in a continuous circuit a series of salvage cars that provided a first-hand look at the dangerous vehicles that could be returned to the roads of Ohio and made easily available to criminals, should the bill pass.

Senate Bill 273 is a measure, pressed for by insurance companies and auction houses, which would allow anyone, including unqualified and unlicensed individuals, to purchase salvage vehicles. This proposed change in the law is highly controversial and would undercut current protections that have been in place for nearly three decades.

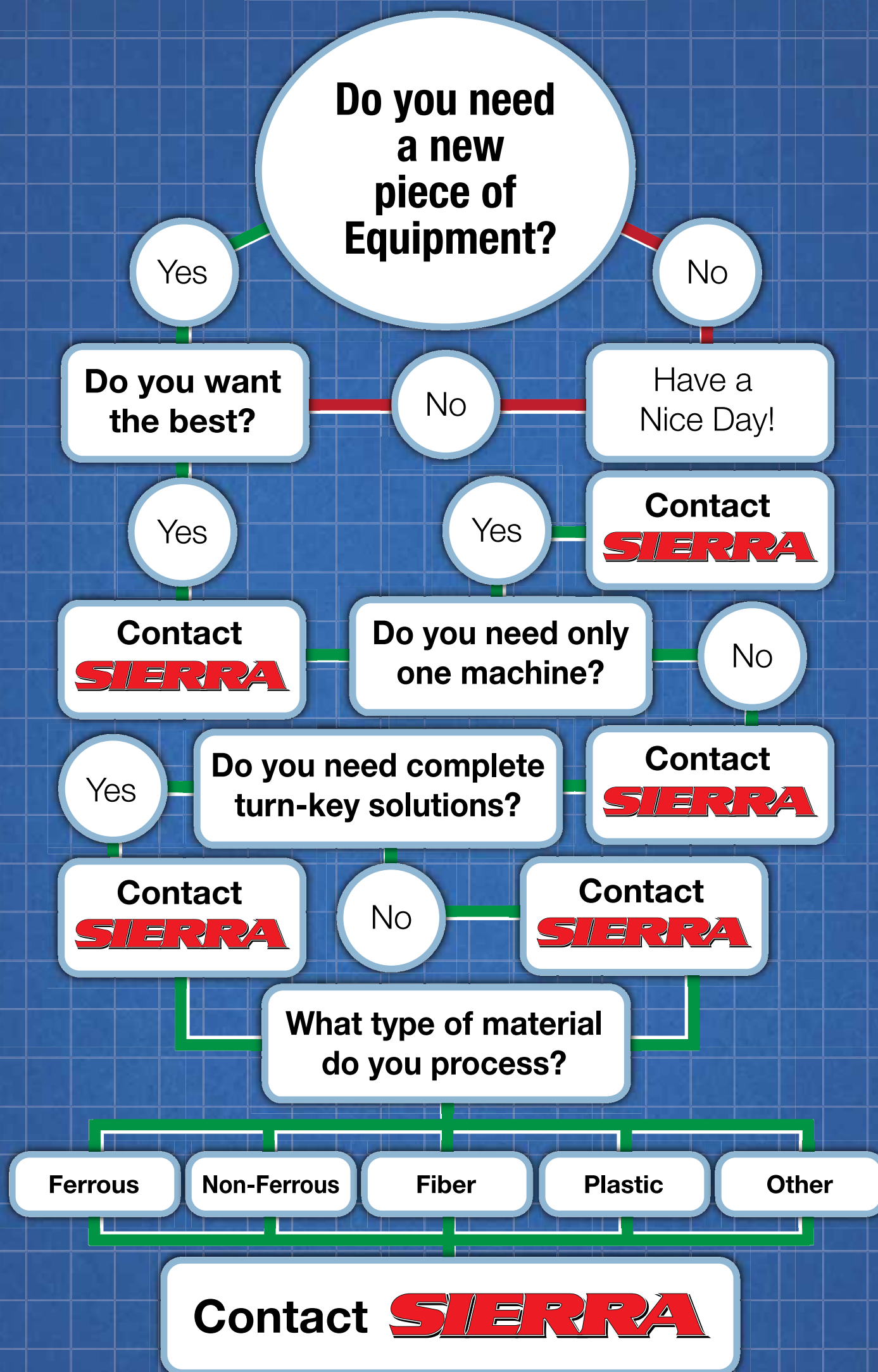
The men and women employed in the Ohio auto recycling industry turned out in force to demonstrate then attended a hearing held by the House Insurance Committee. Nearly every seat in the public gallery was filled by opponents of the bill wearing "Crush SB273" T-shirts. Several representatives from industry coalitions and local auto recycling businesses testified before the Committee opposing SB 273. UCOAR Spokesperson George Sapir delivered an impassioned address outlining the many dangers the bill poses to the state.

"Ohio lawmakers both heard and saw a very clear and unified message from the auto recycling industry," said Sapir, who is the chief executive officer of a 96 year-old family-owned business. "The deeply flawed SB 273 would create enormous risks for the people of Ohio. By undermining the sound legal framework for how badly damaged cars are sold, the bill opens loopholes for all the wrong people."

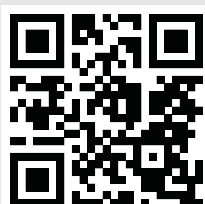
UCOAR is deeply concerned over the negative impacts of this bill. It will kill hundreds of productive Ohio jobs, endanger public safety, increase auto-related crime, harm the environment and drive a large number of small Ohio businesses into bankruptcy or out of business.

Sapir noted: "Grassroots opposition to this bill has been extraordinary. So many members of the Ohio auto recycling industry have joined together to oppose this bill, which is not just bad for them, but is truly terrible for everyone who calls Ohio their home. We must save Ohio jobs and businesses by defeating this bill."

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# Ocean plastics

■Continued from Page 1

global grocery coordinator for Whole Foods Market.

Over the past year and a half, Method employees worked with volunteers from Sustainable Coastlines Hawaii and the K kua Hawaii Foundation to hand collect several tons of plastic from the beaches of Oahu, where the kinds of plastic needed to make this packaging are most abundant. Method is making donations to these two non-profit groups to help keep them functioning as a supply chain for collecting and sorting plastics marine debris.

"We instructed volunteers to look for rigid, opaque plastic. We also had Method employees sorting through the trash volunteers collected off the beach to find the particular kind of plastic we needed," reported Katie Molinari, a Method spokesperson. "Method's current ocean plastic bottle is a blend of 10 percent recovered ocean plastic and 90 percent recycled HDPE. We have produced approximately 90,000 bottles and we are currently exploring how to increase the amount of ocean plastic in future production. We were able to divert much of the plastic we felt we could use in our bottle packaging at the beach clean ups. Items like fishing nets and tires were sent to landfills."

While obviously a clever marketing approach that offers a unique buying opportunity for Whole Foods shoppers, many of which are avid environmentalists, it is the type of initiative that creates awareness of the problem and begins to create a market demand from other environmentally conscious companies interested in the issue.

"Our goal with ocean plastic packaging is to show that the most viable solution to our plastic pollution problem is using the plastic that's already on the planet. Method's ocean plastic bottle demonstrates in the extreme that recycling is possible," said Adam Lowry, Method's co-founder. "By recycling and reusing plastic to make our bottles, we turn off the tap of plastic flowing into our oceans and take the first, most important step toward solving the ocean plastic problem."

Method's objective is to demonstrate how business can tackle environmental problems, and that there are smarter ways to make plastic rather than using virgin material. Nearly all of Method's other packaging is made from 100 percent post-consumer recycled material, an effective way to reuse plastic and prevent it from ending up in landfills and oceans.

To develop the new recycling process to make the bottles, Method partnered with Envision Plastics. The Envision process allows the rigid, opaque plastics recovered from the ocean to be cleaned, blended and then remanufactured into high quality recycled plastic bottles for Method at virtually the same quality as virgin high-density polyethylene.

Tamsin Ettefagh, vice president of sales-purchasing at Envision said, "In the first go around with Method, they shipped us all the material that was collected. We then gave feedback as to what

material should be avoided in future collecting. Basically, we got in a mix of all kinds of polyolefins and we did further sorting at Envision. Then we ground and washed it before blending with curbside collected baled bottles."

"The ocean material we are getting is pretty contaminated with UV degradation and is also a mix of polyolefins so you have a high percentage of polypropylene and polyethylene. By us blending it in as a percentage into our polyethylene that we already recycle, it allows the ocean material to be compatible. It's not too big of a contaminant that way and it also helps with the degradation so the Method product put on the shelf does not break. If the consumer were to drop a 100 percent ocean plastics bottle it would break because it's too brittle."

No colorants were added to the bottle. Its gray color is distinct from all other Method products. Method's head of creative design liked the natural gray that occurred during the blending process. The bottles are extrusion blow molded.

"Let's face it, it's not sustainable. It's not economical. It's a very expensive way to make a product. (The additional cost of producing the bottles is absorbed by Method and not passed on to the consumer). The whole purpose behind Method was to bring awareness to the

consumer that there's an issue and that we have to stop plastics getting into the ocean by greater collection and recycling efforts. If you think about who shops at

Whole Foods, they are predominately educated people. When they learn about an issue they get excited and do something about it. We hope that pressure will be put upon abusers who are dumping in the oceans and that politicians will also get excited about it," Ettefagh concluded.

Back in 2010, Electrolux, a global maker of home and professional appliances first launched its Vac from the Sea project also aimed at raising awareness about the immediate need for the world to take better care of plastics and support people and organizations that do. Essentially their objective is to eventually incorporate ocean plastics into vacuum cleaners since plastic is the main raw material used to make the products. From a sustainable business point of view, Electrolux wants to use an increased global supply of recycled plastic.

Paul Palmstedt, vice president of communications at Electrolux Small Appliances said, "The aim of the Vac from the Sea project is to highlight the vast amount of plastic debris floating around in our oceans. We have great difficulties in finding supplies of recycled plastics for our green vac range. If recy-

cling of everyday plastics could be made much more efficient, we could extend our green range and produce more green vacs, while having less plastic debris end up in our oceans, provided people buy our vacs, of course."

Within the Vac from the Sea project, Electrolux teams collected plastic debris from beaches around the world. They used the recovered plastics to create a small number of vacs for exhibition purposes. After that, the company arranged press activities in a number of countries to focus the issue and it also sponsored two NGOs who arranged research voyages to map the extent of debris in the oceans. "I think we can say that we have helped build more awareness about the issue, but of course more activities, not only from Electrolux, are required," Palmstedt added.

Tamsin Ettefagh at Envision reported that since Method's announcement of the new ocean plastic bottle she has been inundated with calls from organizations interested in exploring the use of ocean plastics.

Obviously, the cure to having less plastic polluting the oceans is greater public awareness of the problem hopefully leading to programs aimed at increasing recycling rates. Pressure must also be put upon ocean-going vessels and commercial fishermen to control the disposal of plastic goods. And who knows? Someday ingenuity, passion and technological progress may make open-water plastic harvesting another practical solution.



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## PLASTICS

# Plastics makers honor innovators in plastics recycling

The American Chemistry Council (ACC) announced the winners of 2012's Innovation in Plastics Recycling awards. Three companies: KW Plastics, Safeplay Systems and Sony Electronics Inc., were honored. The winners are being celebrated for developing innovative processes and/or products using post-consumer recycled plastics.

•KW Plastics was awarded for its pioneering approaches to recycling post-consumer polypropylene packaging. Due to the range of polypropylene products found in household waste, many reclaimers have had difficulty handling the various melt flows, layers and additives. KW Plastics has developed processes, specifications and equipment that overcome these challenges, allowing the processing of yogurt cups, butter tubs, ketchup bottles, juice boxes and even corrugated yard signs made from polypropylene – and all as part of an integrated processing system. The Troy, Alabama-based firm now purchases these items from around the country and reprocesses



Bridge Mill Tower by EcoPlay. This eco-friendly playground structure contains 56,400 recycled milk jugs.

them. In addition, KW Plastics is also an innovator by forging new ground as the first domestic reprocessor to collect and recycle woven and non-woven flexible polypropylene. KW Plastics currently has the capacity to reprocess 450 million lbs. of high-density polyethylene and 300 million lbs. of polypropylene annually.

•Safeplay Systems won for EcoPlay, its popular line of playground

equipment for schools and parks made from post-consumer recycled high-density polyethylene (HDPE). EcoPlay lumber is made from a minimum 95 percent post-consumer recycled content. Though the Marietta, Georgia-based company creates custom products that can range from smaller structures designed for young children to larger designs of up to three-stories high, on average each playground

structure keeps over 35,000 milk jugs out of landfills. Safeplay has its own recycling program and accepts all its products for recycling at the end of their useful lives.

•Based in San Diego, California, Sony Electronics Inc. won for its development of SoRPlas, a material made from 99 percent recycled polycarbonate that is used in the housings of some of Sony's popular consumer products, particularly in high-end cameras.

To make SoRPlas, Sony uses 50 percent post-industrial scrap from optical disc manufacturing, such as CDs, DVDs and Blu-Ray discs, and 50 percent post-consumer recycled plastics from end-of-life products, containers and other items.

This process has additional environmental benefits in helping to reduce CO2 emissions during manufacturing and transportation. The Sony Group uses more than 17,000 tons of recycled plastics annually, including SoRPlas, in various products.

## MBA Polymers wins award

MBA Polymers has been chosen by AlwaysOn as one of the GoingGreen Silicon Valley Global 200 winners. Inclusion in the GoingGreen Silicon Valley Global 200 signifies leadership amongst its peers and game-changing approaches and technologies that are likely to disrupt existing players in green technology.

MBA was specially selected by the AlwaysOn editorial team and industry experts spanning the globe based on a set of five criteria – innovation, market potential, commercialization and stakeholder value. The winners were selected from thousands of domestic and international technology nominees.

## German recycled-plastic manufacturer receives funding

Silver Lake Kraftwerk, a private equity firm headquartered in Menlo Park, California, has committed \$40.1 million in Friedola Tech, a recycled plastics processing company that produces high-quality, environmentally-friendly products and components for the automotive and packaging industries.

The investment will provide growth capital to enable further product innovation, development in key market segments and expansion into new geographic regions, including the opening of a world-class manufacturing facility in Greenville, South Carolina.

Under the terms of the transaction WHEB Partners, a European-based resource efficiency private equity firm, has agreed to sell its majority stake in Friedola Tech to Silver Lake Kraftwerk while remaining a shareholder. Once the transaction has closed, Silver Lake Kraftwerk will become the majority

owner, alongside existing co-investor Kleiner Perkins Caufield & Byers (KPCB) which co-led the transaction and increased its ownership of Friedola Tech.

Based in Geismar, Germany, Friedola Tech is a manufacturer and marketer of recycled plastic products with a focus on the automotive and packaging sectors. The company supplies lightweight, recyclable and environmentally friendly plastic solutions to a variety of industries and boasts an innovative and proprietary product portfolio, including their signature product platform, CON-Pearl. As a Tier-1 supplier, Friedola Tech's plastic solutions are a key component in the lightweight efforts of a number of their customers, including leading car manufacturers.

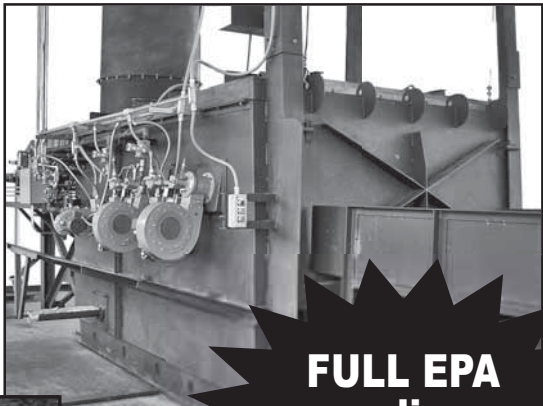
The deal is currently pending anti-trust approval by the German authorities.

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## WASTE

## SWACO awards \$70,000 in sustainability grants

The Solid Waste Authority of Central Ohio (SWACO) is awarding nearly \$70,000 in grants to support sustainability initiatives of local governments, organizations, schools and non-profit agencies located within SWACO's district. This year's award winners are: the City of Westerville, Columbus Metropolitan Library, Grove City Parks and Recreation, Grange Insurance Audubon Center, Habitat for Humanity, Hilliard Environmental Sustainability Commission, Prairie Township Fire Department, St. Joseph Montessori School, Washington Township, and Worthington Services Department.

The grants are funded through a \$5 per ton generation fee applied to solid waste generated in this district. Grants awarded support SWACO's missions and principals and are reviewed by a grants committee and are approved by SWACO's executive director. Many of the grants help fund projects that will increase recycling and decrease the reliance on the landfill. Other funded projects include the purchase of products made from recycled goods.

## Settlement requires divestitures in acquisition of Veolia ES

The Department of Justice has reached a settlement that will require Star Atlantic Waste Holdings LP and Veolia ES Solid Waste Inc. to divest commercial waste collection or disposal assets in northern New Jersey, central Georgia and the Macon, Georgia metropolitan area in order to proceed with Star Atlantic's proposed \$1.9 billion acquisition of Veolia. The department said that the transaction, as originally proposed, would have resulted in higher prices.

The Department of Justice's Antitrust Division filed a civil antitrust lawsuit in U.S. District Court in Washington, D.C., to block the proposed transaction. At the same time, the department filed a proposed settlement that, if approved by the court, will resolve the lawsuit and the competitive concerns.

"Without the divestitures required by the department, consumers in northern New Jersey, central Georgia and the Macon metropolitan area would have been harmed by a reduction in competition for commercial solid waste collection or disposal," said Joseph Wayland, acting assistant attorney general in charge of the Justice's Antitrust Division.

According to the complaint, the transaction, as originally proposed, would have substantially lessened competition in commercial waste collection or disposal services in the geographic areas of northern New Jersey, central Georgia and Macon. The acquisition would have eliminated a major competitor in each of these areas.

Under the terms of the proposed settlement, Star Atlantic and Veolia will

"We are excited to be able to help support these wonderful sustainability initiatives. We are using the backdrop of tomorrow being America Recycles Day, to gain recognition and remind people there are many ways they can play a role in reducing their carbon footprint," said SWACO Executive Director Ronald J. Mills.

The SWACO grants are open to agencies and groups like governments, schools, and tax exempt charities for a wide variety of green projects. Eligible programs include waste-reduction, education and awareness and purchase of recycled products.

"We're committed to being a leading public library and a community leader in promoting environmental sustainability. In 2009 we established a Green Team with that goal in mind. We are honored to receive this grant that will help us expand our efforts by giving our customers the opportunity to recycle easily in our locations," said Columbus Metropolitan Library CEO Patrick Losinski.

divest three specified transfer stations in northern New Jersey; a landfill and two transfer stations in central Georgia; and three commercial waste collection routes in the Macon metropolitan area. Each asset to be divested is currently owned by Veolia. To maximize the potential operational effectiveness of each purchaser of the divestiture assets, Star Atlantic and Veolia must divest to a single buyer the three transfer stations in northern New Jersey. Likewise, they must divest to a single purchaser the designated Georgia transfer stations and landfill and the specified commercial waste routes in the Macon metropolitan area.

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## WM works to transform waste into resources

Waste Management, Inc. released its 2012 sustainability report. The report is called "Embracing the Zero Waste Challenge," and documents the company's progress toward increasingly transforming waste into valuable resources.

"Five years ago, we announced four aggressive sustainability goals to improve our impact on the environment and our business," said CEO and president, David Steiner.

Waste Management has accomplished the following:

- Is nearly two-thirds of the way to meeting its 2020 sustainability goal of tripling the amount of recyclable material it manages annually.

- Extracted almost 12.9 million tons of recyclables from the waste stream – 61 percent more than its 2007 baseline.

- Produces enough waste-based energy to power nearly 1.2 million homes, which is 60 percent of its 2 million homes goal.

- A decade ahead of time, has met its 2020 goal of creating 100 certified Wildlife Habitat sites and protecting 25,000 acres at its sites.

- Has already exceeded its 2020 goal to reduce CO2 emissions from its fleet by 15 percent. The company has achieved a 20-percent reduction and expects to make further progress. WM operates more than 1,600 natural gas collection vehicles – the largest heavy-duty natural gas fleet in the country – and that fleet continues to grow.

### 2020 SUSTAINABILITY GOALS AND PROGRESS TO DATE, 2011

#### TONS OF RECYCLABLES MANAGED (million tons)

|           |      |
|-----------|------|
| 2007      | 8    |
| 2009      | 8.5  |
| 2011      | 12.9 |
| 2020 GOAL | 20   |

#### WASTE-BASED ENERGY PRODUCTION (million households)

|           |      |
|-----------|------|
| 2007      | 1.07 |
| 2009      | 1.07 |
| 2011      | 1.17 |
| 2020 GOAL | 2    |

#### FLEET EMISSIONS

(percent reduction in CO2 equivalent (CO2e) emissions)

2007 emissions: 214M tons CO2e

|           |    |
|-----------|----|
| 2011      | 20 |
| 2020 GOAL | 15 |

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## INTERNATIONAL

# Novelis to build aluminum auto sheet plant in China

Novelis broke ground on the company's first aluminum manufacturing plant in China. The \$100 million investment is designed to meet the rapidly growing demand for rolled aluminum used in the design of a new generation of lighter, more fuel-efficient vehicles.

The wholly owned plant under construction in Changzhou in the Jiangsu Province, will have a capacity of 120,000 metric tons per year, further strengthening Novelis' position as the world's largest producer of aluminum

sheet products used to create vehicle structures and body panels. Startup of the new facility, the industry's first automotive sheet plant in China, is planned for late 2014.

Located in the heart of the Changzhou National Hi-Tech District, the new facility will be close to vital rail lines, the Changzhou deep water port on the Yangtze River and other world-class business and commercial infrastructure. The company plans to ship rolled aluminum coils manufactured at its South

Korean operations to the new facility in Changzhou for heat treatment and finishing before delivery to automotive customers within China as well as to export markets.

James Liu, Managing director for Novelis China, says the expansion is in direct response to customer demand. "Our close relationships with world class automakers are driving our long term strategy to support their vehicle production expansions around the globe. We expect demand for automotive alu-

minum sheet in China to exceed the 25 percent compound annual growth rate expected across the globe over the next five years, as auto manufacturers strive for improved fuel efficiency and reduced emissions."

Sustainable manufacturing is a core focus for Novelis' entrance into China, and the company is designing its new facility according to rigorous environmental design, construction and operational standards.

## EPRO names winners of Best Recycled Plastic Product 2012

EPRO invited the plastics industry across Europe to nominate examples of products made from recycled plastics for the Best Recycled Plastic Product Competition 2012.

The key objective of the competition is to raise awareness of the value and versatility of used plastics packaging. Whether it be post-consumer or post-industrial plastic, the opportunity to recycle this resource into new products must be recognized, encouraged and promoted.

The competition attracts a wide range of entries representing both consumer facing products and business to business applications. Since the competition was first launched in 2009 more than 90 entries from 15 countries were received. This year the entries were judged by a broad European panel of experts, including representatives from EPRO, Plastics Europe and

ACR+. The winners were announced and the awards were presented at IdentiPlast 2012, in Warsaw.

The two winners are:

•Category BtoB: Filatura di Saluzzo with Newlife (recycled polyester filament yarn) – Italy.

•Category BtoC : CURVER with ECOLIFE Neo (Baskets made of recycled PP) – Europe.

Plastic packaging design, improved collection schemes, advances in sorting technology together with a greater range of reprocessing opportunities and applications means that the need to send plastics to landfill is decreasing rapidly.

Based on the continued success of the initiative, EPRO will be running the best recycled plastic product competition again next year with the winners announced at Identiplast Paris in October 2013.

## New report addresses UK waste

The report Scenario-Building for Future Waste Policy produced by Z\_punkt The Foresight Company on behalf of Defra, the Department for Environment, Food and Rural Affairs, provides some answers to questions regarding waste production and handling. The report has been published, and describes, in four visions of the future and quantified scenarios, how the UK can react to the growing mountains of waste.

If one were to predict what the situation will be like by 2030 based on current trends, then, in around 20 years' time, the UK will be sitting on 16 percent more waste than today. What strategic decisions have to be taken in terms of waste policy to improve this trend? What negative trends should be avoided? With the aid of extensive comparison calculations on waste arising, the report shows what timely steps need to be taken, and, in doing so, summarizes the results of a future-orientated process that brought

together key experts on the subject. The results are meant to provide input for a review of UK waste policy and guidance for long-term waste policymaking. Scenarios help to reflect systematically on possible future challenges, and, as such, support long-term orientated policy measures.

As Cornelia Daheim, managing director of Z\_punkt, explained, "An interesting methodological novelty, here, is the integration of numbers and narratives. The scenarios tell stories in the form of consistent visions of the future conceived on the basis of a process involving experts, but are, at the same time, very specific due to the integrated quantitative analysis." Daheim went on to stress that such an approach "meets the growing need on the part of decision-makers for key figures in scenario processes."

The report is underpinned by comprehensive numerical estimates of waste risings, differentiated according to type and processing.

## A-Ward wins 2012 steel prize

This year, the Swedish Steel Prize has been awarded to A-Ward Attachments Ltd. of New Zealand. The company has designed a flexible system using high-strength steel which compresses and packs metallic scrap in containers.

The aim of the Swedish Steel Prize is to inspire and disseminate knowledge about high strength steels and the possibilities to develop lighter, stronger and more sustainable products.

A-Ward has worked for two years to perfect the design of a scrap loader which

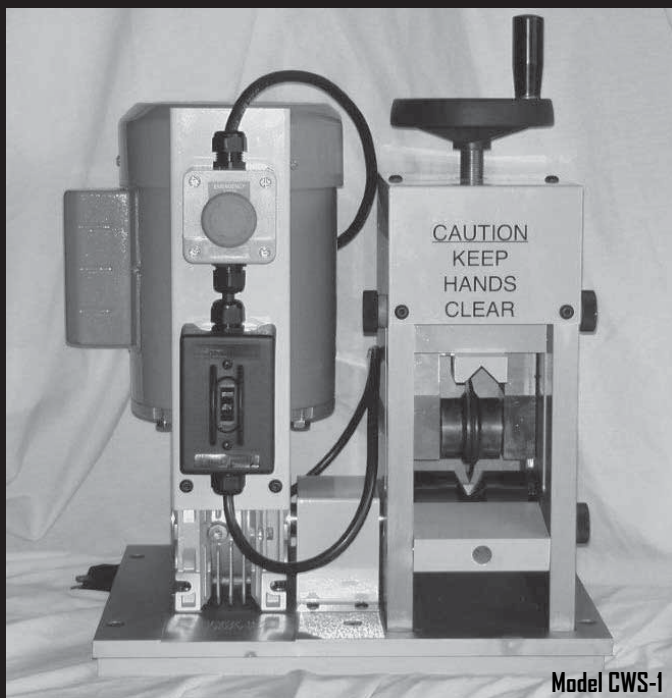
improves the management and transportation of scrap. The loader is manufactured from SSAB's Hardox wear plate.

The scrap is loaded directly onto the containers and horizontal loading reduces the risk of damage to the containers. Environmental impact is reduced because ordinary container transportation can be used.

Other nominated companies have been awarded the second prize in the 2012 Swedish Steel Prize. These companies are Gremo (Sweden) and Borcad CZ s.r.o (Czech Republic).

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## ELECTRONICS

## AT&T breaks world record for customer recycling

By recycling 50,942 devices during a one-week period, AT&T customers broke the world record for collecting the most wireless devices in a week as certified by Guinness World Records.

In 2011, AT&T collected approximately three million cell phones for reuse and recycling and, thanks in part to its new trade-in program, anticipates surpassing that number in 2012. By recycling these devices, AT&T customers avoided sending approximately 25,471 pounds of waste to landfills. By the numbers, Texas recycled the most devices with 5,879 devices, followed closely by California with 4,916 devices. Among stores, the Chippenham store in Richmond, Virginia, collected the most devices at 108. Yet, there is much work to be done as millions of devices are discarded every year without being recycled.

AT&T is committed to engaging customers around sustainability. Recently, the company:

- Unveiled a new device trade-in recycling program that helps consumers save their old phones from landfills while also having the choice to make a donation to a charity or earn AT&T credit for future purchases at an AT&T store. This program currently runs both in-store and online;

- Launched a consumer-friendly website portal called EcoSpace. The site offers an easy one-stop shop to learn more about AT&T's sustainability initiatives, shop for AT&T eco products, find eco-rating information for assessed devices sign up for paperless billing and get recycling updates;

- Launched its Eco-Rating system, a consumer-friendly and easy-to-understand rating system that serves as a way for consumers to make more informed choices by allowing them to better understand important sustainability attributes of AT&T-branded mobile devices; and,

- Promoted free, secure and convenient paperless billing options through [www.att.com/simplify](http://www.att.com/simplify).

## Sims Recycling Solutions ranked number one Sacramento recycler

Electronics recycler processed over 12,000 tons of e-waste

Sims Recycling Solutions is ranked as the number one electronics recycler by the Sacramento Business Journal for the fourth consecutive year. The publication's annual list uses the amount of electronic waste recycled during the year before to determine the top five recyclers in the Sacramento area. Sims processed more than 12,000 tons of e-waste in 2011 at its Roseville facility.

The fully certified electronics recycling facility provides end-of-life recycling and asset management services for local businesses and consumers. The site consists of 200,000 sq.ft. of electronics processing, including manual and mechanical sorting and shredding machinery.

"People know it's important to recycle old electronics, such as computers, printers and TVs, and the more convenient it is to dispose of these devices, the less likely it is they will end up in the trash and in landfills," stated Steve Skurnac, president, Sims Recycling Solutions, Americas.



Sims Recycling Solutions holds a free drive-through and drop-off electronics recycling event on the first Friday of every month at the company's site located off Washington Boulevard in Roseville. Sims accepts the following items: computers, laptops, keyboards, mice, printers, cell phones, radios,

stereos, phones, CD and DVD players, MP3 players or portable audio devices and clocks. Sims cannot accept appliances, liquids, toner cartridges, hazardous materials, cans, bottles, oils, automotive parts, tires, large appliances, refrigerators, microwaves, construction materials or paper.

## RAM kicks off holiday recycling

The Recycling Association of Minnesota (RAM) kicked off the Recycle Your Holidays™ holiday light recycling program.

Recycle Your Holidays (RYH) is a statewide effort to collect and recycle holiday lights that are old, unwanted or no longer work. This program employs individuals with disabilities at local vocational centers throughout Minnesota who collect and sort the lights for recycling.

RAM encourages people who need new lights to purchase LED light strands which are up to 90 percent more efficient than incandescent bulbs. The RYH program is free for businesses to participate as a collection site.

RAM provides free bins and promotes the program in partnership with WCCO on their website as well as partner websites. Vocational center staff and clients pick up the lights and bring them to their facility to be safely recycled.

To find a Minnesota location where old holiday lights can be taken for recycling, visit RAM's website at [www.RecycleMinnesota.org](http://www.RecycleMinnesota.org).

*A couple drove down a country road, not saying a word after an earlier discussion had led to an argument.*

*As they passed a barnyard of mules, goats and pigs, the husband asked sarcastically, "Relatives of yours?"*

*"Yep," the wife replied, "in-laws!"*

## Creative Recycling Systems of North Carolina earns e-Stewards certification

Creative Recycling Systems (CRS) declared that their Raleigh, North Carolina facility has achieved the e-Stewards® Electronic Recycling Certification, a commitment to responsible recycling, environmental protection and international legal compliance.

e-Stewards is a globally accredited, third-party audited certification program developed by the Basel Action Network (BAN), with support from other environ-

mental groups and industry leaders. CRS chose to pursue e-Stewards Certification because it is the only e-waste recycling standard that assures customers that no e-waste will be exported to developing countries, no toxic materials will end up in landfills or incinerators, and it stands as a global baseline for the protection of confidential data housed in electronic equipment.

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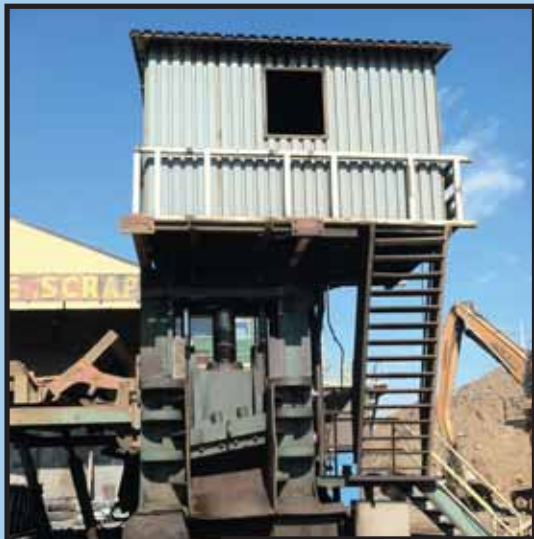
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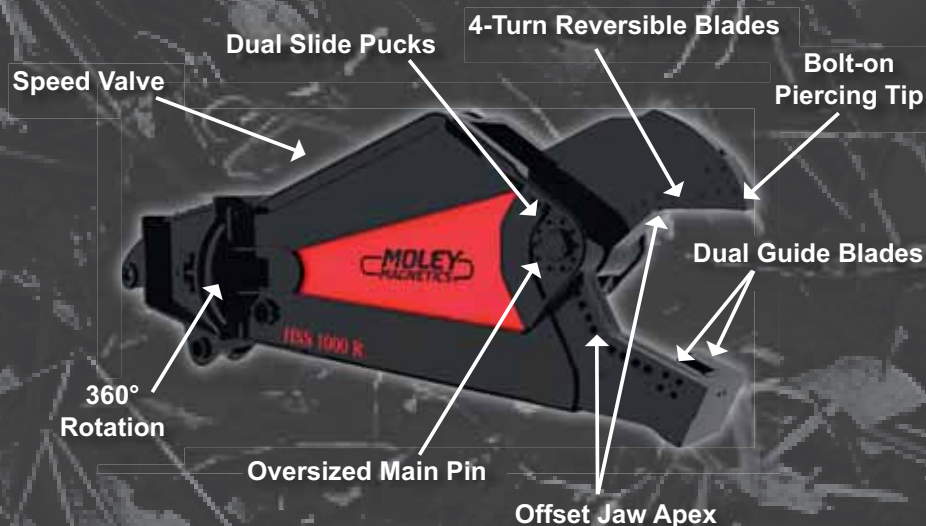
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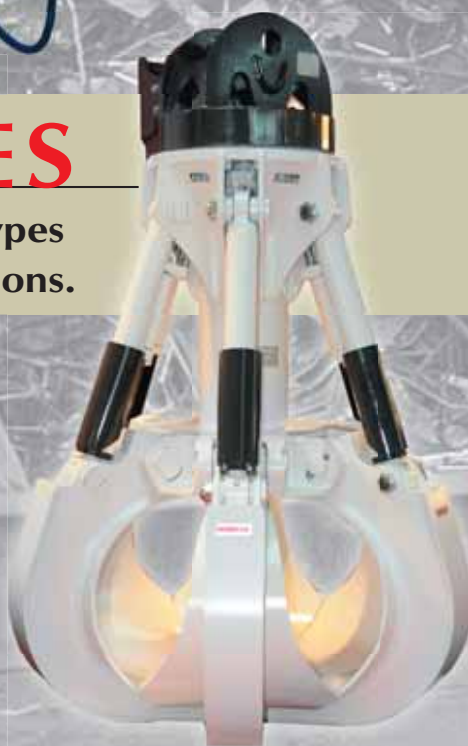
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## METALS

### New metal recycling facility opens in Waterloo, Indiana



MetalX, a new metals recycling company founded by the Rifkin family, opened its first facility in Waterloo, Indiana in November. The company's flagship facility and corporate headquarters are open for wholesale/industrial business and opened to the general public on December 1. Located on a 70 acre site, the facility will process ferrous and non-ferrous scrap metals for recycling into new metal products. The state-of-the-art facility will utilize the latest technologies and has been designed for maximum efficiency, offering customers a new level of convenience and service.

The business will ramp up quickly. Approximately 75 people will be employed by next spring and over 200 in 3 years. At the same time, the company also plans to accelerate growth by making strategic acquisitions.

MetalX will be run by a team of experienced industry veterans that include Danny Rifkin, his brothers Rick and Marty, John Marynowski, Jim Ustian, Paul Everett, Jeff Rynearson, David Stage, Steve King, Brian Brown, Shari Zink and Danny's oldest son, Neal.

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### Steelworkers ratify new labor agreement with Wise Alloys

Wise Alloys and the United Steelworkers of America, Local 200 have reached a new 5-year labor agreement. "Our new agreement benefits employees and the company by providing the ability to plan for the future over a longer period of time. Employees are assured of wage improvement and the company can better forecast costs," said Wes Oberholzer, executive vice president/COO.

Wise Metals Group moved its corporate headquarters to the Shoals area of Alabama in the fall of 2011.

### Nucor increases cash dividends

The board of directors of Nucor Corporation increased the regular quarterly cash dividend on Nucor's common stock to \$0.3675. This cash dividend is payable on February 11, 2013, to stockholders of record on December 31, 2012, and is Nucor's 159th consecutive quarterly cash dividend.

Nucor has increased its regular, or base, dividend for 40 consecutive years – every year since it first began paying dividends in 1973.



METALS

October steel imports decline 2 percent from September

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 2,540,000 net tons (NT) of steel in October, including 2,059,000 NT of finished steel (down 2 percent and up 3 percent, respectively, from September final data). Year-to-date (YTD) finished steel imports are up 18 percent vs. the same period in 2011. Finished steel import market share in October was an estimated 25 percent and is estimated at 24 percent YTD.

Key finished steel products with a significant import increase in October 2012 compared to September are heavy structural shapes (up 56 percent), tin plate (up 40 percent), line pipe (up 39 percent), reinforcing bars (up 27 per-

cent), hot rolled bars (up 16 percent) and sheets and strip galvanized hot dipped (up 12 percent). Major products with significant YTD import increases vs. the same period last year include reinforcing bar (up 50 percent), line pipe (up 39 percent), sheets & strip galvanized hot dipped (up 36 percent) and oil country goods (up 29 percent).

In October, the largest volumes of finished steel imports from offshore were all from Asia and Europe. They were South Korea (372,000 NT, up 16 percent), Japan (179,000 NT, up 8 percent), China (117,000 NT, up 14 percent), Germany (103,000 NT, down 8 percent) and The Netherlands (71,000 NT, up 85 percent). For the first 10 months of 2012, the largest offshore

| U.S. IMPORTS OF FINISHED STEEL MILL PRODUCTS<br>BY COUNTRY OF ORIGIN (Thousands of Net Tons) |             |             |                      |                |                                  |
|--|-------------|-------------|----------------------|----------------|----------------------------------|
|  | OCT<br>2012 | SEP<br>2012 | 2012<br>Annual (est) | 2011<br>Annual | % Change 2012<br>Annual vs. 2011 |
| SOUTH KOREA  | 372         | 321         | 3,817                | 2,837          | 34.6%                            |
| JAPAN  | 179         | 165         | 2,037                | 1,477          | 37.9%                            |
| CHINA  | 117         | 102         | 1,571                | 1,231          | 27.6%                            |
| TURKEY   | 70          | 43          | 1,423                | 733            | 94.0%                            |
| GERMANY  | 103         | 112         | 1,242                | 954            | 30.2%                            |
| NETHERLANDS  | 71          | 39          | 595                  | 570            | 4.3%                             |
| INDIA  | 70          | 50          | 778                  | 717            | 8.4%                             |
| All Others   | 1,076       | 1,171       | 14,864               | 13,314         | 11.6%                            |
| TOTAL  | 2,059       | 2,005       | 26,326               | 21,835         | 20.6%                            |

suppliers were South Korea (3,181,000 NT, up 30 percent), Japan (1,697,000 NT, up 38 percent), China (1,309,000 NT, up 23 percent), Turkey (1,185,000 NT, up 89 percent) and Germany (1,035,000 NT, up 29 percent).

2011 steel recycling sets record

The Steel Recycling Institute (SRI) declared that the recycling rate for the world's most recycled material – steel – is at an all-time high of 92 percent. More than 85 million tons of steel scrap was consumed by steelmaking furnaces in 2011 – an increase of nearly 10 million net tons versus 2010.

Each year, more steel is recycled than paper, aluminum, plastic and glass combined, maintaining steel's identity as North America's most recycled material. This is reflected through the recycling rates of the quality products commonly made with steel.

The recycling rate for steel packaging has also reached an all-time high of 70.8 percent – with more than 1.5 million net tons of steel recycled. Automobile recycling rates have regained balance at 94.5 percent. This figure came after several years in excess of 100 percent – meaning more old cars had

been coming off the road than new ones going back onto it. Appliance recycling remained stable at 90 percent with more than 2.9 million net tons of steel recycled. Construction rates also remained stable with a recycling rate of 98 percent for construction plates and beams along with a rate of 70 percent for construction rebar.

Recycling rates for steel are generally released up to 18 months following the end of the calendar year as they are based on data released from: American Iron and Steel Institute (AISI) Annual Statistical Reports, US Geological Survey, EPA Characterization of Municipal Solid Waste, National Automobile Dealers Association, Association of Home Appliance Manufacturers and the Institute of Scrap Recycling Industries.

SRI also provides resources to help consumers learn about how and where to recycle their steel products locally.

September steel shipments down

The American Iron and Steel Institute (AISI) reported that for the month of September 2012, U.S. steel mills shipped 7,233,375 net tons, a 13.7 percent decrease from the 8,377,162 net tons shipped in the previous month, August 2012, and a 9.0 percent decrease from the 7,947,262 net tons shipped in September 2011. Shipments year-to-date (YTD) in 2012 are 73,628,127, a 7.6 percent increase vs. 2011 shipments of 68,441,207 for nine months. 2012 shipments through September would annualize at 98 million tons.

Shipments in September were down 13 percent vs. the 2012 monthly average through August and were the lowest

monthly shipment total since February 2011. Raw Steel Capacity Utilization in September was 70.4 percent, the lowest monthly total in 2012. Raw Steel Production continues to be weak and recorded its lowest 2012 utilization figure during the week ended October 27 at 67.9 percent. The current Weekly Production utilization is 70.7 percent for the week ending November 10, 2012.

A comparison of September shipments to the previous month of August shows the following changes: cold rolled sheet, down 6 percent, hot dipped galvanized sheets and strip, down 11 percent and hot rolled sheet, down 22 percent.

AR Scrap Metals  
MarketWatch



| Commodity               |               | Zone 1   | Zone 2   | Zone 3   | Zone 4   | Zone 5   |
|-------------------------|---------------|----------|----------|----------|----------|----------|
| #1 Bushelings           | per gross ton | \$300.00 | \$339.00 | \$359.00 | \$376.00 | \$380.00 |
| #1 Bundles              | per gross ton | 318.00   | 345.00   | 365.00   | 380.00   | 389.00   |
| Plate and Structural    | per gross ton | 316.00   | 345.00   | 360.00   | 390.00   | 385.00   |
| #1 & 2 Mixed Steel      | per gross ton | 275.00   | 348.00   | 360.00   | 380.00   | 360.00   |
| Shredder Bundles (tin)  | per gross ton | 289.00   | 301.00   | 332.00   | 345.00   | 330.00   |
| Crushed Auto Bodies     | per gross ton | 289.00   | 301.00   | 332.00   | 345.00   | 330.00   |
| Steel Turnings          | per gross ton | 210.00   | 209.00   | 230.00   | 239.00   | 245.00   |
| #1 Copper               | per pound     | 3.09     | 3.05     | 3.40     | 3.50     | 3.38     |
| #2 Copper               | per pound     | 3.00     | 2.97     | 3.24     | 3.32     | 3.19     |
| Aluminum Cans           | per pound     | .56      | .58      | .78      | .78      | .80      |
| Auto Radiators          | per pound     | 2.08     | 1.91     | 2.15     | 2.05     | 2.19     |
| Aluminum Core Radiators | per pound     | .68      | .66      | .72      | .69      | .73      |
| Heater Cores            | per pound     | 1.50     | 1.52     | 1.60     | 1.75     | 1.89     |
| Stainless Steel         | per pound     | .65      | .65      | .78      | .74      | .89      |

All prices are expressed in USD. Printed as a reader service only.

**DISCLAIMER:** American Recycler (AR) collects pricing and other information from experienced buyers, sellers and facilitators of scrap metal transactions throughout the industry. All figures are believed to be reliable and represent approximate pricing based on information obtained by AR (if applicable) prior to publication. Factors such as grades, quality, volumes and other considerations will invariably affect actual transaction prices. Figures shown may not be consistent with pricing for commodities associated with a futures market. While the objective is to provide credible information, there is always a chance for human error or unforeseen circumstances leading to error or omission. As such, AR is not responsible for the accuracy or completeness of the information provided, or for outcomes arising from use of this information. American Recycler disclaims any liability to any person or entity for loss or damage resulting from errors or omissions, including those resulting from negligence of AR, its employees, agents or other representatives.

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## AUTOMOTIVE

# KAR Auction Services makes first cash dividend

KAR Auction Services, Inc. stated that its board of directors has approved the initiation of a quarterly cash dividend on the company's common stock. The initial quarterly dividend of \$0.19 per share was paid on December 28, 2012 to stockholders of record at the close of business on December 19, 2012, representing an annualized dividend of \$0.76 per share. This is the first dividend paid to stockholders in the company's history.

The declaration and payment of any future dividend will be subject to the discretion of the board of directors and will depend on a variety of factors, including the company's financial condition and results of operations, contractual restrictions, including restrictive covenants contained in the company's credit agreement, Automotive Finance Corporation's securitization facilities

and the indenture governing the company's outstanding debt securities, capital requirements and other factors that the board of directors deems relevant. Therefore, no assurance can be given as to whether any future dividends will be declared by the board of directors or the amount thereof.

The Company also announced that it has entered into an amendment to its credit agreement. The amendment provides greater flexibility to the company, including modifications to increase the amount of restricted payments (which include, among other things, dividends, stock buybacks and other payments made in respect of the Company's equity securities) permitted to be paid under the terms of the credit agreement and modifications to a financial covenant to account for such greater flexibility.

# GE to purchase 2,000 Ford C-MAX hybrid vehicles

Ford Motor Company announced a collaboration with GE, in which the company will purchase 2,000 Ford C-MAX Energi plug-in hybrids for its fleet – Ford's largest-ever plug-in electrified vehicle fleet sale. Ford will also jointly market GE's alternative fuel infrastructure solutions.

For GE, the purchase of 2,000 Ford C-MAX Energi vehicles is another step in the company's initiative to convert half of its global fleet to alternative fuel vehicles as part of its commitment to eomagination. The addition of the Ford vehicles brings the number of alternative fuel vehicles in GE's fleet to more than 5,000 in its goal of 25,000 vehicles.

"Ford is launching six new electrified vehicles – a big bet that fuel prices will continue rising and lead to more demand for advanced fuel-efficient vehicles," said Ken Czuby, Ford vice president, U.S. marketing, sales and service.

The two companies will also work with researchers from Georgia Institute of Technology to study GE employee driving and charging habits, with the goal of improving all-electric driving and charging performance. Researchers

will use Ford's MyFord® Mobile app – with real-time battery charge status and value charging that automatically recharges at lower-cost, off-peak electricity rates.

Study findings will be shared with commercial customers to provide insights and help facilitate deployment of electric vehicles in their own fleets amid a growing electric vehicle infrastructure that now includes more than 10,000 public charging stations across the country.

The Ford C-MAX Energi is America's most fuel-efficient plug-in hybrid with an EPA estimated 108 miles-per-gallon equivalent (MPGe) city rating and 100 MPGe combined rating. C-MAX Energi is expected to be America's most affordable plug-in hybrid with a starting price of \$29,995, after federal tax credit and including destination and delivery costs.

Ford also will supply new alternative fuel vehicles for use at GE's Vehicle Innovation Center at the headquarters of GE's fleet management business in Eden Prairie, Minnesota.

## Salvaging Millions

by Ron Sturgeon  
Autosalvageconsultant.com

### Pay for performance-what are you waiting for?

You have sat in class after class, talked to other yard owners about switching over to paying employees for performance, and you are still paying them hourly or salary, and or a small commission plus base (which doesn't motivate them, though they count on it), thinking all your employees will walk out or might cause chaos in the business.

Yes, just like you I was slow to change to pay for performance. I had all the excuses you are making, all the reasons why I should not disrupt my employees, because they were giving me all they had, but was I wrong! I still remember the day I changed to a pay for performance system for our employees in 1989.

In sales, our volume doubled in three months, with two fewer sellers, dismantling production and deliveries doubled with the same number of persons. New people hired thought it was great, as they didn't have the "baggage" of the former employee. Yes, it was hard, and some people left, especially the underperformers. Imagine if your competitor changed to pay for performance, say five years ago, the advantages in production and cost structure he has had over you for that period of time. It's hard to believe I did it over 20 years ago, and the majority of the industry by number of operators has not converted. But, the percentages of yards that have changed based on

large sales volumes, say over \$2m annually, and are a majority of those yards. Yet the small operators continue to watch the big guys get bigger. They learned the advantages years ago, and in many if not most cases use the money they save to buy more cars.

So why risk the change? As owners we have faith in our employees. We do not follow them around to see if they are spending their time efficiently or wasting our money. Instead of monitoring their work, we give them raises and hire more employees because, "they just can't get it done." If you are paying your employees hourly, take a day and just follow them around you will be surprised at how much they don't do.

The benefits of pay for performance will increase your bottom line. How? It reduces the number of employees while increasing productivity. Pay for performance will weed out the underperformers, and will amaze you with what your strong employees are capable of handling.

I have helped many yards with pay for performance, including dismantlers, parts pullers, drivers and salespersons. In fact, it's one of the most rewarding items I teach owners, over and over, site by site. It's not unusual to see clients get the costs back in a week or less with the changes they implement.

**Remember, only you can make BUSINESS GREAT!**

*This article was provided by autosalvageconsultant.com, which was formed in 2001 by recyclers for recyclers, to help them improve their businesses.*

## Kenneth Turner receives APRA award

Kenneth Turner, president of C.C. Battery Company, Inc. in Corpus Christi, Texas, was presented with the Automotive Parts Remanufacturers Association's Distinguished Service Award. The award honors Turner for "Distinguished Business Statesmanship and Dedicated Service Rendered to the Entire Industry of Automotive Parts Remanufacturing."

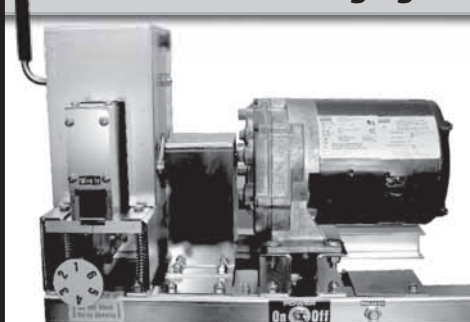
Being located in the extreme southern end of Texas, many parts were unavailable

to C. C. Battery so they manufactured many of their own. Turner became friendly with men like Barney Kaplan and the salesmen from IPM and other companies where he got a lot of information. These resources led him to expand into the role of supplier when other rebuilders began coming to him for parts. Turner eventually expanded the territory he served to include export to Chile, Peru, Mexico, Canada and other countries.

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## RUBBER

# NCAT study shows ground tire rubber good alternative

The National Center for Asphalt Technology (NCAT) revealed the results of a study evaluating the role of ground tire rubber powder in asphalt mixture performance. Debunking a common industry belief, the study indicates that the asphalt manufacturing process, whether cryogenic or ambient, does not impact the performance of the rubber material or, ultimately, the asphalt.

"We are optimistic that the study findings will accelerate the use of sustainable material in highway construction," said Richard Willis, NCAT's assistant research professor. "By increasing the use of ground tire rubber, asphalt producers will benefit from price stability as compared to more volatile oil prices which impact the cost of traditional, oil-based polymers. Importantly, ground tire rubber produced cryogenically or ambiently provides high performance and cost benefits in asphalt."

Ground tire rubber (GTR) can be blended with asphalt to beneficially modify the properties of the asphalt for highway construction. According to the EPA, benefits of using tire rubber in asphalt include:

- Longer lasting road surfaces;
- Reduced road maintenance;
- Cost effectiveness;
- Lower road noise; and,
- Shorter breaking distances.

In recent years, as oil prices have risen, the number of states reassessing the potential of GTR mixtures has begun to increase; however, little research has been published which characterizes the influence of particle size, grinding technique and blending methodology.

The NCAT study addressed these needs and indicates that surface area and particle size of the rubbers had the most influence on the modified asphalt binder – smaller particle size, which equates to larger surface area, provides better performance. Based on the study results, researchers also recommend:

- Ground tire rubber should be considered an appropriate asphalt binder modifier to achieve critical high temperature performance in mixtures.

• Ambient and cryogenic GTR performed equally in terms of binder modification and separation. Specifications should not distinguish between the two types of materials when the GTR is 30 mesh or smaller.

• Ten percent rubber is an appropriate level of loading for asphalt binders.

According to the Rubberized Asphalt Foundation (RAF), 70 percent of state transportation agencies, including California, Arizona, Florida, Georgia and Texas, have reaped the financial benefits of using rubber-modified asphalt on their highways. The RAF states that rubberized asphalt can save between \$2 and \$5 per ton compared to conventional polymer-based asphalt. Recently, the Georgia Department of Transportation (GDOT) amended the state's road construction specifications to include recycled rubber as an alternative to oil-derived polymers.

Rubber particulate modification of binders has been performing in the market for over 30 years and this research will support the understanding of how to use tire rubber to make performance graded asphalt. The study's findings, along with phase two work with asphalt mixtures and slight modifications to the Performance Grade specifications, will allow states the means to capture the high performance characteristics of tire rubber in asphalt systems.

"Ground tire rubber is a product that provides long-term supply and is a cost-effective and competitive way to increase the robustness of asphalt, while also serving as a productive outlet for end-of-life tires," said Peter Wu, P.E., Ph.D. from the office of materials and research at the GDOT. "The department is always looking for ways to provide taxpayers with a greater value and the use of rubber-modified asphalt can do that while also contributing to the state's sustainability efforts."

The study was conducted at NCAT's facility in Auburn, Alabama, with the assistance of partners Blacklidge Emulsions, Lehigh Technologies and Liberty Tire Recycling.

## Liberty Tire Recycling recognized for recycling illegally dumped tires

Pittsburgh-based Liberty Tire Recycling recently received recognition for the donation of its tire collection and reclamation services to The Arts Exchange, an Atlanta-area community center. The center gave Liberty Tire Recycling top honors at its first volunteer appreciation awards ceremony. In 2011, Liberty Tire Recycling voluntarily removed more than 1,000 scrap tires that had been illegally dumped on the center's property.

Liberty Tire Recycling has engaged in ongoing efforts to collect and reclaim

scrap tires as a result of illegal tire dumping across the Atlanta area, which has become a growing problem following the recent reduction in funding for a statewide scrap tire management program. Liberty Tire Recycling collaborated with the City of Atlanta and Keep Atlanta Beautiful to stage a city-wide tire cleanup event. Volunteers gathered throughout the city and collected 25,000 scrap tires in one day. Tires from the event were transported to Liberty's facility near Atlanta, where they were recycled.

## PAPER

# October 2012 paper reports

The American Forest & Paper Association released its October 2012 U.S. paper reports.

### Containerboard

Containerboard production rose 2.6 percent over September 2012 and 0.5 percent compared to the same month last year. The month-over-month average daily production decreased 0.7 percent. The containerboard operating rate for October 2012 gained 0.1 points over September 2012, increasing from 96 percent to 96.1 percent.

### Boxboard

Total boxboard production increased by 2.6 percent compared to October 2011 and increased 0.5 percent from last month. Unbleached Kraft Boxboard production decreased over the same month last year and decreased compared to last month. Total Solid Bleached Boxboard & Liner production increased compared to October 2011 and increased compared to last month. The production of Recycled Boxboard increased compared to October 2011 and increased when compared to last month.

### Recovered Fiber

Total U.S. industry consumption of recovered paper in October was 2.49 million tons, 6 percent higher than in September 2012. Consumption was up across all grades except for Newspapers, which remained at its September low and was 25 percent lower than in October 2011. Year-to-date total consumption in 2012 is 4 percent lower than during the same period last year.

U.S. exports of recovered paper remained approximately flat, dropping 1 percent in September compared to August. Average export \$/Ton figures were lower across all grades when compared to the prior month. Year-to-date exports of recovered paper in 2012 are 7 percent lower than during the same period in 2011.

### Printing-writing paper

According to the report, total printing-writing paper shipments decreased two percent in October compared to October 2011, primarily driven by declines in uncoated mechanical shipments.

### Additional key findings include:

• October shipments of coated free sheet papers increased year-over-year for the 5th time in the past 12 months, reaching the highest level since September 2010.

• Shipments of uncoated free sheet paper in October increased two percent over the same period in 2011, with mill inventories at the lowest level since July 1995.

• October uncoated mechanical paper shipments decreased 23 percent compared to October 2011, with YTD shipments down 16 percent relative to the previous year.

### Kraft Paper

Total Kraft paper shipments were 128.3 thousand tons, a decrease of 5 percent compared to the prior month. Total inventory was 72.9 thousand tons this month. Both unbleached and bleached Kraft shipments decreased year over year.



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## BUSINESS BRIEFS

### Elizabeth Bartheld joins AF&PA as vice president

■ The American Forest & Paper Association (AF&PA) announced that Elizabeth Bartheld, has accepted the position of vice president, government affairs for the association.

Bartheld joins AF&PA from Congressman John Sullivan's (OK-1) office where she served as chief of staff for nearly a decade; prior to that position, she served as legislative director for both Sullivan and Congressman Wes Watkins (OK-3). In her new role, Bartheld oversees all AF&PA federal and state government affairs, the political action committee, and grassroots activities.

Bartheld holds a bachelor's degree in psychology and political science from Baylor University and a master's in business administration from the University of Maryland.

### Alcoa finalizes sale of hydroelectric project

■ Alcoa has finalized the sale of its 378 MW Tapoco Hydroelectric Project to Brookfield Renewable Energy Partners.

Tapoco is a four-station hydroelectric project located on the Little Tennessee and Cheoah Rivers in eastern Tennessee and western North Carolina. The transaction included the 4 generating stations and dams, 86 miles of transmission line, and about 14,500 acres of land associated with and surrounding Tapoco.

Alcoa received proceeds of approximately \$600 million from the sale.

### Bandit Industries adds new dealers nationwide

■ Bandit Industries has added several new dealers, serving customers in the south, northeast, and midwest. These dealers join the Bandit North American dealer network to help meet the rapidly increasing demand for Bandit equipment and Zenith knives.

Miner's Equipment and Truck Repair is centrally located in Oklahoma City to serve customers throughout Oklahoma in a quick, efficient manner. The staff is highly experienced in equipment maintenance and repair, servicing a wide range of machinery but specializing in arborist equipment. In addition to in-depth maintenance, Miner's Equipment and Truck Repair will stock and sell new Bandit chippers and stump grinders, and they will also stock a full range of Zenith knives.

Bobcat of Bowling Green is located on the outskirts of Bowling Green, Kentucky. Already a dealer for numerous brands including Bobcat, Husqvarna, Wacker Neuson and more, the staff will now offer sales and service for Bandit hand-fed chippers and stump grinders. They will also stock and sell a variety of Zenith chipper knives for numerous chipper makes and models, and they will take care of Bandit customers throughout south-central Kentucky.

Huntsville Tractor and Equipment first opened 40 years ago in Northern Alabama. Huntsville Tractor and Equipment will stock and sell Bandit products. The parts and service department is equipped to handle any maintenance needs, including replacement Zenith knives for most chipper brands.

### Dwoskin receives APRA's Distinguished Service Award

■ Steve Dwoskin, executive vice president of Sourcing for WAIglobal, in Exton, Pennsylvania, was presented with the Automotive Parts Remanufacturers Association's Distinguished Service Award. The award honors Dwoskin for "Distinguished Business Statesmanship and Dedicated Service Rendered to the Entire Industry of Automotive Parts Remanufacturing."

When Dwoskin was in college he went to work for a generator shop in Miami. When the owner died four months later Dwoskin bought the business and quickly learned that one of his biggest problems was obtaining parts. To enable himself to purchase larger quantities of components in order to get the price he needed, Dwoskin started selling to other rebuilders in his area. This eventually led to his company, Auto Electric Suppliers, shipping from their South Florida location, where they also manufactured cleaning equipment to sell to the trade.

Auto Electric Suppliers became one of the most successful rebuilder suppliers in the world servicing over 3,000 regular customers in 76 countries. In 2007, AES merged with WAIglobal where Dwoskin serves as executive vice president in charge of sourcing.

### Progressive Waste Solutions completes acquisition

■ Progressive Waste Solutions Ltd. has acquired, through its wholly owned subsidiary Waste Services of Florida, Inc., Choice Environmental Services, Inc. for cash consideration of \$123.25 million.

Choice Environmental is a solid waste services company based in Fort Lauderdale, Florida, and a wholly owned subsidiary of Swisher Hygiene.

### Product stewardship council expands board

■ Johnnie Perkins, western region director of municipal services at Republic Services, and Nancy Parris, director of epidemiology at Providence Saint Joseph Medical Center, have joined the California Product Stewardship Council (CPSC) board of directors.

CPSC promotes public policy known as extended producer responsibility, or product stewardship, which shifts physical and financial responsibility for recycling products and packaging away from government to the parties that design them – manufacturers. The primary goal is incentivizing better design for the environment by internalizing the costs of capturing, reusing and recycling materials that were formerly headed to landfills and waste incinerators. Some products must be redesigned to achieve zero waste goals.

Since 2009, Republic Services has been a platinum level sponsor of CPSC. Perkins has served as a key member of two California gubernatorial staffs, a California attorney general, vice president George Bush and local elected officials. Moreover, Perkins has managed and directed Republic Services' Sacramento lobbyist to support key legislation supported by CPSC.

The most recent addition to the board is Parris who has worked in healthcare for over 35 years, mostly in epidemiology and infection prevention. Her responsibilities have included ensuring proper handling and disposal of medical and biohazardous waste in the hospital. She also has expertise in healthcare worker exposures to bloodborne pathogens. Parris has also served on the local and state boards of the Association for Professionals in Infection Control and Epidemiology.

CPSC has led the statewide discussion on the need for producer responsibility for sharps to maintain public health and safety especially to recycling workers; Parris' expertise will bring a health care perspective to the discussion. Parris is working to establish needle collection from the public at Providence St. Joseph Medical Center in Burbank and hopefully to the other health facilities owned by the Providence chain.

## Events Calendar

**January 16th-18th, 2013**

**12th International Electronics Recycling Congress IERC 2013.** Salzburg, Austria.  
www.icm.ch

**January 28th-31st**

**USCC 21st Annual Conference & Tradeshow.** Buena Vista Palace Hotel & Spa. Lake Buena Vista, Florida.  
301-897-2715 • www.compostingcouncil.org

**March 10th-13th**

**The 26th Southeast Recycling Conference & Trade Show.** Hilton Sandestin Beach Golf Resort & Spa, Destin, Florida.  
800-441-7949 • www.southeastrecycling.com

**March 13th-15th**

**13th International Automobile Recycling Congress IARC 2013.** Brussels, Belgium.  
41 62 785 10 00 • www.icm.ch

**March 20th-21st**

**Spring 2013 Association of Postconsumer Plastic Recyclers Meeting.** Sheraton New Orleans, New Orleans, Louisiana.  
202-316-3046 • www.plasticsrecycling.org

**March 20th-22nd**

**Global Plastics Environmental Conference.** Sheraton New Orleans, New Orleans, Louisiana.  
810-223-1949 • www.sperecycling.org

## Auction Calendar

**January 23, 10:00 am**

**1430 Sparrows Point Blvd. Sparrows Point MD:** Mobile, construction, material handling and support equipment, spare parts and much more. Hilco Industrial.  
419-344-4435 • www.hilcoind.com

**January 24, 8:00 am**

**Highway 431 N, Dothan, AL:** 16th Annual January Farm & Construction Equipment Public Auction. Deanco Auction.  
877-898-5905 • www.deancoauction.com

**February 8, 8:00 am**

**10500 Clark Petersen Blvd., Las Vegas, NV:** Material handlers and other heavy equipment. Ritchie Bros. Auctioneers.  
800-211-3983 • www.rbuction.com

**February 11, 8:00 am**

**651 W. Southport Road, Kissimmee, FL:** 39th Annual 7 Day Winter Auction. Yoder & Frey Auctioneers, Inc. 800-842-6221  
www.yoderandfreyauctioneers.com

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BUSINESS BRIEFS

Covanta Energy's Meg Morris named VP

■ Covanta Energy Corporation promoted Meg Morris to vice president of materials management, a new position at the company. The materials management division identifies the best approach in using and reusing resources most productively and sustainably throughout their life cycles.

In her new position, Morris will be tasked with developing and implementing programs that address sustainable waste management needs. This includes assisting existing and prospective clients with waste reduction, reuse and recycling programs, coordinating community outreach and education programs.

Previously, Morris was the director of environmental science and community affairs at Covanta. In that position, she participated in the rollout and implementation of Covanta's Clean World Initiative, working on the company's community outreach and mercury reduction programs. She also serves as Covanta's spokesperson for the award-winning Fishing for Energy program, a public-private partnership aimed at reducing the effects of derelict fishing gear in coastal waters. Prior to joining Covanta, Morris was vice president, governmental programs at EAC Operations, Inc.

Morris is a member of many industry coalitions and organizations and currently serves on the board of directors for the PA Recycling Markets Center, the National Recycling Coalition, the Go Green Initiative, Inc., the Federation of NY Solid Waste Associations and is the president of MassRecycle.

Balcones names Sara Koeninger as senior VP

■ Balcones Resources, Inc. has promoted Sara Koeninger to senior vice president of corporate services. As senior vice president, Koeninger will sit on the company's executive leadership committee. Koeninger manages special projects for Balcones, including the company's safety programs and provides oversight for equipment installations and start-ups.

Bain recognized with APRA Honorary Member Award

■ The Automotive Parts Remanufacturers Association (APRA) recognized Peter Bain with their Honorary Member Award during their annual International BIG R Show in Las Vegas, Nevada.

Bain, president of Rand Premium Electronics in Florida, was acknowledged for serving as APRA's chairman in 2008 and for his many years of service.

Sennebogen adds Rish Equipment to network

■ Rish Equipment Company was recently introduced by Constantino Lannes, president of Sennebogen LLC, as the manufacturer's authorized dealer for West Virginia.

Rish Equipment began operations as Bluefield Supply in 1934, led by Lon Rish. Rish became the regional Komatsu dealer in 1983 now operates 12 locations.

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## NEW PRODUCT SHOWCASE



### NEW MOGENSEN OPTICAL SORTER FROM ALMO

The new addition to the Mogensen optical sorter product line is the result of more than 15 years of development experience. The new Msort was designed to reduce "oversorting" error by two-thirds. Products with a grain size of just 1mm can be optically sorted at a feed rate of 10 TPH. Easy access panels to Msort internals improve maintenance efficiency to reduce downtime. Remote maintenance assistance is also available. The new Msort was designed to meet new requirements from the market to improve sorting quality, ease of maintenance and operation.

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www.almoprocess.com



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**Bandit Industries, Inc.**  
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888-322-6348  
www.banditchippers.com



### IROCK CRUSHERS NEW TS-409 TRACK SCREENING PLANT

IROCK Crushers introduces the TS-409 track screening plant. It is designed for small- to mid-size producers who need a more economical, more compact screening plant.

The TS-409 is suitable for materials such as topsoil, mulch, sand and gravel, asphalt, coal, limestone and demolition debris. It is powered by a 66.2 horsepower Deutz engine and is capable of processing materials at a rate of up to 300 TPH. The equipment can be loaded onto a trailer to move from site to site, and has a set-up time of 10 minutes or less.

**IROCK Crushers**  
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Valley View, OH 44125  
866-240-0201  
www.irockcrushers.com



### METTLER TOLEDO'S NEW 100 TON PINMOUNT SCALES

Mettler Toledo debuted their 100 Ton PinMount™ weigh module that offers manufacturers an opportunity to safely convert such structures into high-capacity scales. The models in the PinMount weigh module family weigh from 7.5 to 100 tons. PinMount weigh modules are easy to integrate onto existing structures and provide important SafeLock™ safety features. Those features simplify installation of tank, silo and conveyor scales, and can prevent accidents and ensure efficient installation. Installing these weigh modules right the first time means more uptime and therefore greater profit.

**Mettler-Toledo, LLC**  
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- (3) 2007-09 A934C** (Rubber) 52' Reach, Hyd Cab, 20KW Gen, Grapple
- (3) 2004-06 A934B** (Rubber) 48' Reach, Hyd Cab, 20KW Gen, Grapple
- 2005 R944B HD** (Crawler) 49' Reach, Hyd Cab, 20KW Gen, Grapple
- 2001 R934B** (Crawler) 47' Reach, Hyd Cab, 20KW Gen, Grapple
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- (2) 2008 850M** (Rubber) 62' Reach, Hyd Cab, 25KW Gen, Grapple
- 2008 835R** (Crawler) 55' Reach, Hyd Cab, 20KW Gen, Grapple
- 2008 840R** (Crawler) 62' Reach, Hyd Cab, 25KW Gen, Grapple

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- 2005 MHL350** (Rubber) 49' Reach, Hyd Cab, 20KW Gen, Grapple
- 2008 MHL350D** (Rubber) 52' Reach, Hyd Cab, 13KW Gen, Grapple
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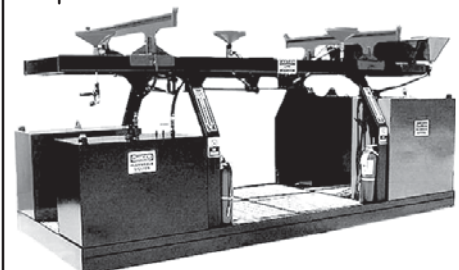
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# ALTERNATIVE ENERGY

SECTION B

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JANUARY 2013

## Bull Hill wind power project completed

First Wind, an independent U.S.-based wind energy company, has completed construction of its 34 megawatt (MW) Bull Hill Wind project and commercial operations have begun. Located on the ridges of Bull Hill and Heifer Hill in Hancock County, Maine, the project features 19 1.8-MW wind turbines that have the capacity to generate enough clean energy to power nearly 18,000 homes.

Now that the project has started operations, Hancock County and Eastbrook will receive an average aggregate tax payment of approximately \$100,000 annually for the next 20 years and an additional \$240,000 annually in community benefit payments – more than \$7 million in total. In addition, First Wind is providing a public safety communication tower to Hancock County for improved communications for the safety and rescue departments in the county.

The cost-competitive clean electricity generated by the Bull Hill Wind project will be sold to NSTAR under a long-term power purchase agreement, which First Wind won in a competitive solicitation by NSTAR as they were seeking a low cost source of energy. In August of 2011, NSTAR and First Wind entered into a 15-year fixed-price contract for the output from the project. The cost savings due to the fixed-price contract are expected to save NSTAR ratepayers about \$57 million over the life of the contract.

“The power from Bull Hill Wind is part of a diverse, responsible energy portfolio that includes renewable resources generated right here in New England,” said James Daly, vice president of Energy Supply at Northeast Utilities, parent company of NSTAR. “The Bull Hill project will help NSTAR meet our goal of providing renewable energy to homes and

See BULL HILL WIND, Page 7

## Food waste drawing industry attention

by MARK HENRICKS

mhenricks@americanrecycler.com

Food residuals may represent one of the recycling world's biggest opportunities, as food waste has continued to pile up in landfills while other components of the materials stream are increasingly being recycled. Composting plays a primary role in turning food residuals into useful products, but so far the food waste stream has hardly been touched by composting efforts.

The opportunity is significant. Food waste is the single largest component of solid waste in U.S. landfills, according to a recent report from the Natural Resources Defense Council (NRDC). Forty percent of all food generated ends up as waste, according to the report, and the amount of food waste from homes, restaurants and other sources has grown 50 percent since the 1970s.

“Currently over 34 million tons of food waste is being generated in the U.S. and 97 percent plus is going to landfill,” said Michael Virga, executive director of the U.S. Composting Council in Bethesda, Maryland. “This is an enormous potential feedstock for the composting and anaerobic digestion industries.”

“As a country, we're essentially tossing every other piece of food that crosses our path – that's money and precious resources down the drain,” said Dana Gunders, a scientist with the NRDC who authored the recent report. Gunders said producing food that is never eaten accounts for 25 percent of freshwater consumption, as well as 4 percent of oil consumption. “Moreover, uneaten food accounts for 23 percent of all methane emissions in the U.S. – a potent climate change pollutant,” she said.

Recycling has scored significant successes in other portions of the waste stream, including other organics such as yard clippings. “In 1960 24 percent of yard waste went into landfill,” noted Darby Hoover, a senior resource specialist at NRDC. “Now it's 8.6 percent.”



PHOTO COURTESY OF NRDC

The vast majority of the food waste being landfilled could be recycled. Why isn't it? “The barriers to more food waste being recovered and collected are numer-

ous,” Virga said. “The perception of food waste and the “yuck” factor are difficult to get over for most consumers.”

See FOOD WASTE, Page 7

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## A Letter from the Editor

Readers,

The staff here at American Recycler would like to extend our deepest sympathies and condolences to the victims and families of the Sandy Hook Elementary School tragedy.

I believe that it is important to stand in solidarity with the victims, but I also believe that it is important to avoid focusing on the perpetrator of the atrocity. Nothing can justify their actions, and frankly, I'm not interested in 'why' this person did what they did.

Instead, I would like to reflect on how much blame we, as a society, should shoulder for the actions of mentally unstable or deranged individuals. I do not blame violent videogames. I do not blame our partisan politicians. I do not blame our sensationalist and liberally biased mainstream media. I do not blame our firearms laws, or our attitudes towards gun ownership.

I blame the shooter. I blame the dearth of readily available mental healthcare for the majority of our populace. I blame lax school security policies, and the failure to implement emergency measures. But these are not necessarily moral or societal failings. Despite our best efforts, our best laws, our best bureaucratic oversight, individuals will continue to commit crimes – some of them atrocious – and the blame will fall squarely on their shoulders, not ours.

That doesn't mean that our politicians are entirely off the hook. I do blame Washington for the incredibly expensive administrative bureaucracy that they've built and forced upon us. As they debate the fiscal cliff prior to this issue's submission to the printer, both sides refuse to address the real underlying issues: entitlement spending, government bloat and a broken taxation system.

But that's another column entirely. Disasters humanitarian and fiscal aside, I hope that 2013 calms down for everyone. I hope that the Sandy Hook victims find some semblance of peace, and that you all find yourselves some booming business.

If you're reading this, the Mayans were wrong, and we all have another year ahead of us in which to work, to play, and to be with those we love. I hope that all of our readers have a happy, healthy and prosperous year.

Until next month,



Dave Fournier  
Focus Section Editor  
david@americanrecycler.com

## PG&E grants support solar job training

Courtney Dittmar was thrust into a tough Bay Area job market in 2009 when she lost her job of nine years at a university library. After two years of unemployment, a friend connected her with the nonprofit GRID Alternatives, which runs a Solar Intern Program funded by a \$120,000 grant from Pacific Gas and Electric Company (PG&E).

Now, Dittmar is a graduate of the program and recently led a team of volunteers from PG&E and GRID Alternatives in completing a rooftop-solar installation on an Oakland home. The 1.6-kilowatt system, made possible through GRID Alternatives' Solar Affordable Housing Program, will save the homeowner an estimated \$15,000 in energy costs over the system's 30 year expected lifetime.

Dittmar said her internship has opened a wealth of career opportunities at just the right time. "The internship has given me a whole new skill set, and as someone changing careers in mid-life, that's really handy," said Dittmar. "I definitely have more options now!"

The Solar Intern Program is a three-month paid internship that provides job training for people seeking careers in the

solar industry. PG&E's grant funds the program for four highly qualified trainees, who will receive job placement support from GRID Alternatives and PG&E after graduation. The other three internships will be in Fresno, Chico and Atascadero in 2013.

Before being selected as the first PG&E solar intern, Dittmar completed nearly 300 volunteer hours with GRID Alternatives, commuting by bus, train and bicycle from her home in Mountain View to solar installations throughout the Bay Area. Dittmar is also taking free classes at PG&E's Pacific Energy Center in San Francisco to supplement her field experience. She has applied for a few solar jobs recently and said she is convinced the training is making her more competitive.

Since 2006, PG&E has contributed more than \$520,000 to GRID Alternatives' Solar Affordable Housing Program to support green job training, financial benefits for income-qualified families and a reduction in carbon for the broader community. In addition, GRID Alternatives has installed nearly all of the solar electric systems funded under the PG&E Solar Habitat program,

a partnership between the utility and Habitat for Humanity.

Ezra Garrett, vice president of community relations and chief sustainability officer for PG&E, said, "Not only does GRID Alternatives provide career development in the critical solar energy sector, it also makes solar possible for members of our communities who otherwise wouldn't have access to this environmentally friendly, money-saving technology."

GRID Alternatives is a nonprofit organization that brings the benefits of solar technology to low-income communities. Using a barn-raising model, GRID Alternatives leads teams of volunteers and job trainees to install solar power on qualifying homes – providing savings for families struggling to make ends meet, preparing workers for jobs in the fast-growing solar industry, and cleaning the air. More than 2,800 California families have benefitted from the program, saving an estimated \$77 million in lifetime electricity costs. More than 11,000 people have received hands-on solar installation experience.

## EPA works with schools to reduce food waste

The U.S. Environmental Agency (EPA) will partner with universities in Arkansas, Louisiana, New Mexico, Oklahoma, and Texas to reduce food waste as part of the EPA's national Food Recovery Challenge.

The goals of this voluntary program are to limit the 34 million tons of food wasted nationwide annually by reducing unnecessary consumption and increasing composting and donations to charity. By joining the Food Recovery Challenge, participating schools pledge to reduce food waste by five percent in one year.

Food accounts for 25 percent of all waste sent to landfills nationwide – more than any other single material. In addition to

using landfill space and the energy needed for transport, food waste becomes a significant source of greenhouse gas by giving off methane as it decomposes.

In addition to higher education institutions, the EPA is also working with grocery stores, entertainment venues, hotels, restaurants, hospitals, convention centers and federal facilities to reduce food waste. Every university and college is invited to join the Food Recovery Challenge, with several institutions already participating.

The committed university partners include:

- University of Texas at Arlington
- University of Arkansas, Fayetteville

•Baylor University – Waco, Texas

•University of Houston

•University of Texas at Austin

•Rice University – Houston, Texas

•New Mexico State University, Las Cruces

The Food Recovery Challenge is part of the EPA's Sustainable Materials Management Program, which seeks to reduce the environmental impact of food and other widely-used everyday items through their entire life cycle, including how they are extracted, manufactured, distributed, used, reused, recycled and disposed.

## Dominion to develop fuel cell power project

Dominion, one of the nation's largest energy companies, plans to grow its clean energy portfolio by developing a fuel cell power generating facility in Bridgeport, Connecticut. Dominion acquired this development from FuelCell Energy Inc. of Danbury, Connecticut.

The facility will produce 14.9 MW of electricity – enough to power approximately 15,000 homes – using a reactive process that converts natural gas into electricity.

The Dominion Bridgeport Fuel Cell facility is part of Project 150, a program sponsored by the state and supported by the Clean Energy Finance and Investment Authority (CEFIA) to increase renewable and clean energy projects in Connecticut

by 150 MW. CEFIA is the nation's first full-scale clean energy finance authority that leverages public and private funds to drive investment and scale up clean energy deployment in Connecticut. This project was supported by the City of Bridgeport, which provides a tax incentive development agreement that will be in place for the life of the project.

Dominion Bridgeport Fuel Cell, LLC has contracted with FuelCell Energy, Inc. (FCE) to build, operate, and maintain the facility. FCE will supply five proprietary Direct FuelCell® stationary fuel cell systems and an organic rankine turbine that will use waste heat from the fuel cells to generate a total of almost 15 MW of electricity.

**UPCOMING**  
Section B editorial  
FOCUS TOPICS

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| ISSUE | TOPIC          | CLOSE |
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| FEB   | PAPER/PLASTICS | 01/18 |
| MAR   | C&D            | 02/15 |
| APR   | METALS         | 03/18 |
| MAY   | WASTE          | 04/17 |



# First Wind starts operations for its Kawaihoa project

PHOTO COURTESY OF FIRST WIND

First Wind, an independent U.S.-based wind energy company, has completed construction of its Kawaihoa Wind project and commercial operations have begun.

Located on Kamehameha Schools' Kawaihoa Plantation lands on Oahu's North Shore, the 69 megawatt (MW) wind project will be able to generate enough clean and cost-competitive wind energy to power the equivalent of approximately 14,500 homes on the island. At full output, it has the potential to meet as much as 5 to 10 percent of Oahu's annual electrical demand and avoid the burning of about 300,000 barrels of oil per year.

"This is, by far, the single largest wind energy project in Hawaii's history," said Lt. Governor Brian Schatz. The Kawaihoa project is First Wind's second project on Oahu and fourth in the Hawaiian islands.

Paul Gaynor, CEO of First Wind, said, "Now with our Kawaihoa project online, First Wind's combined projects on Oahu and Maui have the capacity to generate enough clean energy to serve over 40,000 businesses and homes in local communities throughout Hawaii."

Late last year, the Hawaii Public Utilities Commission approved a power purchase agreement between First Wind and the Hawaiian Electric Company (HECO), which serves more than 400,000 Hawaii customers. Hawaii state law mandates 70 percent clean energy for electricity and surface transportation by 2030, with 40 percent coming from local renewable sources. Kawaihoa Wind will significantly advance the state's progress toward these goals.

"Wind power is an important clean energy resource for Hawaii and one of the keys to breaking our dependence on imported oil. Kawaihoa Wind will pro-



Thirty Siemens turbines were installed on the project site. They will generate 69 MWs, enough to power 14,500 homes on the island.

vide the people of Oahu with clean, locally-produced energy for decades to come," said Dick Rosenblum, Hawaiian Electric Company president and CEO.

Developed in concert with Kamehameha Schools (KS) as part of their North Shore Plan, Kawaihoa Wind reflects a genuine collaboration with the community. The plan was completed in 2008 after nearly two years of extensive community consultation. First Wind has been discussing the project with North Shore residents and community organizations for the past three years and worked with federal, state and county agencies to obtain the necessary permits.

Kamehameha Schools senior asset manager Kapu Smith, who oversees all agricultural activities on Kamehameha's

6,000 acres of Kawaihoa farm lands, added that Kawaihoa Wind provides important support to agriculture on the North Shore. "Lease rent from this project will help offset the cost of ongoing infrastructure improvements and maintenance – like water systems, roadways, fences and so forth – and enable the continuation of reasonable agricultural rent levels for existing and future tenants. These things are critical to keeping these lands available for farming."

RMT Inc. oversaw the installation of 30 state-of-the-art Siemens turbines on the Kawaihoa Wind project site. Work on the project started in December 2011 and created an average of 108 construction-related jobs while generating significant revenue for the surrounding com-

munity. The project drove nearly 220,000 on-site labor hours during construction, and dozens of Hawaii businesses were involved through development and construction supply chains.

As with its other projects on Maui and Oahu, First Wind developed a Habitat Conservation Plan (HCP) for Kawaihoa Wind, working with the U.S. Fish and Wildlife Service and the Division of Forestry and Wildlife of the Hawaii Department of Land and Natural Resources. The HCP is a wildlife conservation effort that includes research funding and actions to protect and minimize incidental harm to federally listed species in the vicinity of the wind energy project.

## McGill Environmental to open organics recycling facility in South Carolina

McGill Environmental Systems of N.C. Inc. plans to open its seventh organics recycling facility by the end of 2013, locating it in Berkeley County, South Carolina. The company expects to hire up to 25 people to staff the facility.

The state-of-the-art, indoor compost manufacturing plant will be constructed on the site of Berkeley County Water and Sanitation's (BCWS) current yard waste operation.

The project, a public-private collaboration between BCWS and McGill, represents the culmination of

two years of planning for the industrial-scale, regional facility. The facility will be built on county land but owned and operated by McGill. The company will accept and process a wide variety of biodegradable materials from municipal, commercial and industrial generators for use as feedstocks in the production of its line of premium compost products for the professional sports turf, landscaping and stormwater/erosion control markets. It also sells bulk and bagged products through retail lawn and garden centers.

McGill-Berkeley will be a fully-enclosed processing facility utilizing a scientifically-enhanced composting process based on an aerated static pile method developed by Rutgers University, augmented with computerized controls and a biofiltration system.

When complete, the Berkeley operation will give McGill a combined annual processing capacity of about 500,000 tons from all facilities, including its existing regional operations in North Carolina, Virginia and Ireland.

### AR EQUIPMENT SPOTLIGHT

To be included in the spotlight, you must manufacture the equipment featured. We require a company name, contact person, telephone number and, if applicable, a website address.

To be listed in the appropriate spotlight, please call 877-777-0737.

#### UPCOMING TOPICS

|       |                             |
|-------|-----------------------------|
| 02/13 | Shredders                   |
| 03/13 | Asphalt Recycling Equipment |
| 04/13 | Magnets                     |
| 05/13 | Truck Scales                |

American Recycler is not responsible for non-inclusion of manufacturers and their equipment. Manufacturers are to contact American Recycler to ensure their company is listed in the Equipment Spotlight.

*What do you get when you cross an elephant and a rhino? An "el-if-i-no."*



# EQUIPMENT SPOTLIGHT

## Waste-to-Fuel Equipment

by MARY M. COX

maryc@americanrecycler.com

Mainstream fuel options continue to be as costly and untenable as ever, and so growth in waste-to-energy (WTE) market sectors may come as no surprise to most.

Kagi Heating Supplies and Manufacturing, Inc. manufactures, distributes and services Kagi multi-fuel waste oil burners. The Kagi product burns waste motor oil, hydraulic oil, crank case oil, light gear oils (up to 50 weight), waste vegetable oil and stove oil to name a few. "Our product is used primarily with forced air heaters and boilers used to heat commercial buildings, small shops, garages, greenhouses, swimming pools, saunas and many more applications," explained Tom Kagi, Jr., vice president. Kagi burners have been in production in one form or another for nearly 30 years. The current models have been produced for more than 18 years. "Even though we could buy them from China for less, our burners and components are made in the U.S.," Kagi noted.

Kagi offers two products: the burners in each product have different heat ranges (Btu output). The 250 Series burner Btu range is from 100,000 to 350,000 Btu and the 500 Series burner has a range of 350,000 to 700,000 Btu. There are various burner options available when atypical applications are involved; for

"Allowable by the EPA for small generators of waste oil, this is a positive and economical way to safely dispose of waste oils. Our product is unique because the burner is more field-service friendly than others since we do not use many proprietary parts. Also, clients frequently tell us that they are unhappy with competitor products and the high price of replacement parts when those burners no longer function. Users love the Kagi burner because it is very easy to set up and use, and customers can learn how to service the product themselves. We offer classes to anyone who'd like to learn how to assemble and service their burner," Kagi said.

Kagi burners are used with forced air heaters and boilers. Individual installation depends on the heater or boiler manufacturer's guidelines and local building and fire codes. Users need a compressed air supply and storage and containment for the fuel supply. The customer must settle and filter the fuel before use.

Kagi has received customer service awards and clients often report that the product manual is informative and that they appreciate Kagi's troubleshooting assistance via the telephone. "We want clients to be happy with our product and we strive to offer quality burners and customer service. Our burner loaner program is available at no cost so our customers never have to be without heat. A burner can be shipped to us for service or repair and they can use one of our burners until we return the other one. No one else in the industry does that," explained Kagi.

"The perfect solution for waste-to-energy needs is Untha's XR/TR combination," stated Bernhard Mueggler, CEO of Untha America. Together, the XR pre-shredder and the TR secondary shredder convert household and industrial waste into secondary fuel. "Reducing waste volume, creating consistency, and stabilizing the organic substances within are the first



Untha Shredding Technology

steps in the waste-to-energy process. First, the waste undergoes pre-shredding with the XR, producing coarse and medium-sized particles. Through separation technology, ferrous and nonferrous, inert, PVC and heavy fraction material are then removed. Then, the waste can be processed through the TR, yielding fine particles which can be burned as fuel, producing heat," Mueggler explained.

The shredding provided by the XR and TR models converts waste into a consistent and repeatable fuel. With uniform fuel, the combustion system can be geared toward that particular fuel, thus creating an efficient process resulting in less ash and higher energy output. Waste-to-energy facilities encounter trash ranging from mattresses to newspapers, so their equipment must shred a wide range of material.

According to Mueggler, "The XR/TR combination easily processes these materials and there's no need to use the machines with mass incinerators. They can be used in conjunction with the latest gasification technology, which is clean and efficient. The XR has been operating worldwide for decades, while the recently debuted TR is already drawing accolades. The patented shredding chamber of the TR provides continuous output without a ram. Eliminating the ram reduces maintenance and increases capacity. The cutting system can be changed in less than an hour, giving the operator an extra three weeks per year of operating time."

The Untha system can be used as a stand-alone system creating refuse-derived fuel (RDF) as the end product. "We have some units installed in WTE facilities, but a large percentage is in RDF production facilities that sell the fuel to other companies," Mueggler reported. He added, "In the RDF market, it seems there are challenges in getting plants permitted & financed and WTE plants also struggle due to environmental concerns. Gasification to create ethanol or diesel seems to be the quickest route to EPA acceptance."

See SPOTLIGHT, Page 5

### Manufacturer List

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# Spotlight

■Continued from Page 4

Randy Baerg is president of Warren & Baerg Manufacturing, Inc. (W&B). He said, "We manufacture individual components and full systems to process waste materials into a clean fuel that is easily added to a company's major fuel flow. Cleaned, sorted and prepared waste materials can produce a fuel that produces fewer emissions and waste than most of the other mainstream fossil fuels, and those being used to generate steam and or electricity."

Baerg noted that this realization is spreading in the U.S. as clear guidelines and regulations are put in place and history shows that if a facility is properly set up for their existing fuels, alternative fuels such as those produced by W&B equipment, are easily handled with the facility's existing scrubbing systems.

"The key machine in our systems is the Model 250 or Model 300 cuber, which takes dry, sorted and ground paper, cardboard wastes, film plastics or wood materials and compresses them into a dense 1.25" cube that is much like a pellet only larger. Each cuber produces four to eight tons of cubes per hour. The cuber offers several benefits over other densification machines: the larger, densified product requires less grinding than others and is more forgiving of large materials that may find their way through the system and into the cuber," Baerg said. W&B also manufactures conveyors – drag chain and belt type – augers, surge bins, metering bins and other equipment utilized in the system or independently.

Baerg reports that most systems in operation are smaller with 1 or 2 cubers operating between 8 to 24



Warren & Baerg Manufacturing

hours per day, producing 4 to 8 tons per hour. If waste flow supply is from a manufacturer's regular waste from production lines, a small, simple system can be set up within 60 to 90 days, from order to start-up. Larger facilities typically operate between two to six cubers. There are larger facilities in Europe and Asia, set up to process 1,000 to 1,500 tons per day, requiring up to 10 to 20 cubers per system.

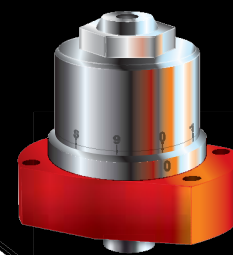
"The domestic waste-to-fuel industry seems to be growing regionally, and even higher growth is seen in Europe and Asia. More companies are learning they have all of the items in place for cuber systems to work well and save money. With excess clean waste materials, high landfill costs, high fuel costs and shortage of good fuels, companies increasingly prefer to recycle or turn their waste to fuel, depending on which market is better. We see growth, domestically and overseas, in manufacturing wastes such as paper, cardboards, separated MSW and film plastics, mixed in with other materials or alone, up to 95 percent film plastics. Processing, cleaning, grinding and cubing this waste into fuel are some of the excellent choices available to reduce waste and utilize a clean fuel," explained Baerg.

*A little old man shuffled slowly into an ice cream parlor and pulled himself slowly, painfully, up onto a stool. After catching his breath he ordered a banana split. The waitress asked kindly, "Crushed nuts?"*  
*"No," he replied. "Arthritis."*

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## A Closer Look

by Donna Currie

### Logan Oil

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In 2004, Chris Kightly saw an opportunity, changed careers, and founded Logan Oil. The company collects reclaimed gasoline from auto dismantlers, auto shredders and other recyclers in 150 cities across the country.

Kightly said he saw the business as a way to do something "green and profitable," and also as a way to create employment for people.

The dismantlers or recyclers remove the gasoline from the cars and store it in tanks awaiting pickup. To make sure the gasoline in the tanks is clean and useable, the Logan Oil employees test it before they remove it from the tanks, and they reject any gasoline that might have been contaminated during the reclamation process.

The gasoline is then filtered to remove water or sediment that might have been in the cars' gas tanks. That filtering is done on the trucks that pick up the gasoline, as it goes into the trucks. The clean, filtered gasoline is sold to local non-branded gas stations, to gasoline distributors and companies that can use the gasoline themselves.

Since Kightly's company operates nationally, he said he has to deal with government regulations on a state-by-state basis. One issue he runs into quite often is the states' attempts to tax the sale of the fuel he collects and sells.

Kightly said that the fuel is not actually "used" when he acquires it, so it shouldn't be subject to taxes. He said that once fuel is used in a car, it is burned up and gone, and the fuel taken from the scrapped cars is the same product that came from the gas pumps. Since taxes were paid at the pump, Kightly said there should be no additional taxes paid when he sells that gas to his customers.

So far he has been successful in arguing with the government agencies, which is good for the companies he buys the gasoline from. "We pay good money for the gas," Kightly said. Not that long ago, those auto dismantlers were paying to have the gasoline picked up.

Kightly said that right now, there are very few companies doing what he does, and that as government regulations become stricter as time goes on, it will become more difficult for new companies to comply with the regulations and get into the business.

However, there is plenty of potential to pick up more gasoline. He said that there are about 14 million cars scrapped each year. On average, those cars have about four gallons of fuel remaining in the gas tank. That means there is a potential 50 million gallons of gasoline that could be reclaimed each year. Right now, Kightly and one other company are picking up about 4 million gallons of gasoline per year.

Some of the remaining fuel is reclaimed for other purposes, but Kightly said that unfortunately "a lot of that gas goes into the ground." One of the challenges of the business is in "educating the dismantlers" so the gasoline is reclaimed properly and kept clean enough so it can be sold for use in cars, which garners the best price for the dismantlers and puts more gas into cars at better prices for consumers.

Kightly said that he has attended a lot of forums and conferences worldwide, and that in other countries recycling is not an option – it is mandatory. While he wouldn't like to see the same government regulations in the U.S., he does appreciate the higher level of recycling in those parts of the world.

Meanwhile, Kightly enjoys his role in being inventive when dealing with the municipalities and the government agencies he works with. He also enjoys the challenges of dealing with the transportation issues involved in picking up gasoline all over country and delivering it to customers.

He said that sometimes he thinks of himself of being in the trucking business, and he just happens to be transporting gasoline. Kightly said that an important part of his business is making sure that his trucks arrive at customer locations before their gasoline storage tanks are full.

He explained that once those tanks reach capacity, the dismantlers can't process any more cars, and that impacts their bottom line. "They don't have to worry about us being there," he said, because service is always a priority for his company.

## Navy, DoD enter into wind farm agreement in Texas

Officials from the Department of Defense (DoD), the Department of the Navy, E.ON Climate & Renewables North America, LLC (ECRNA), and Petronila Wind Farm, LLC, owned by ECRNA, disclosed a memorandum of agreement (MOA) to allow the developer to build and operate new wind turbines in Nueces County, Texas while working to protect the Navy's ability to continue its training mission at NAS Kingsville and NAS Corpus Christi. Representatives from each organization participated in a ceremony and base tour to commemorate the agreement.

Signatories to the agreement include John Conger, Acting Deputy Under Secretary of Defense for Installations and Environment; Joseph Ludovici, Principal Deputy (Acting) Assistant Secretary of the Navy for Energy, Installations and Environment; John Quinn, Deputy Director, Chief of Naval Operations Energy and Environmental Readiness Division; VADM William French, Commander, Navy Installations Command; Rear Adm. Jack Scorby, Commander, Navy Region Southeast; Capt. David Edgecomb, Commanding Officer, NAS Corpus Christi; Capt. Mark McLaughlin, Commanding Officer, NAS Kingsville; Paul Bowman, vice president of Petronila Wind; and Steve Trenholm, chief executive officer, ECRNA.

Under the MOA, ECRNA will install and operate up to 100 wind turbines at the Petronila Wind Farm site.

"The Navy is at the forefront of alternative energy use and production, and the Navy supports such projects when they are compatible with our mission," said Rear

Adm. Scorby. "The agreement will enable this wind turbine project to move forward while putting measures in place that work to preserve vital pilot training capability at NAS Kingsville and NAS Corpus Christi."

Under the agreement, ECRNA will provide \$750,000 in funding to DoD for researching, testing and implementing solutions to mitigate potential impacts. Mitigation efforts could include upgrades that allow the Navy radars to more accurately detect aircraft; optimizing radars to "ignore" signals received from wind turbines, incorporating new systems that fill in radar gaps and other technical modifications. To reduce the potential of radar interference, the new turbines will be limited to 500' in height and will be confined to one 5x7 mile site within the existing Petronila Wind Farm project boundary.

The agreement establishes a specific set of procedures the Navy and ECRNA will use to safely curtail wind turbines when and if needed, and to document and address emerging concerns. In addition, Navy, DoD and Petronilla Wind will form a joint working group to study the effectiveness of the mitigation measures implemented.

"This agreement is a collaborative effort that proves the military and the wind industry can find solutions that protect bases and still allow responsible development," said Steve Trenholm, CEO, ECRNA.

The Navy and the Department of Defense will continue working closely with renewable energy developers and local communities in South Texas to ensure local wind turbine projects can coexist with the Navy mission.

## Biogas market movement: German market may slump

Throughout the world, there are more than 10,000 operational biogas plants with an installed capacity of about 5,000 MW. Almost two-thirds of the facilities are located in Germany. The worldwide installed capacity in biogas plants will further increase by 2,700 MW from 2012 until 2016 and the number of plants will grow by another 3,800. However, the focus of this growth will shift away from Germany, where it has mainly happened over the past five years. The German share of newly worldwide constructed plants for instance will decrease to about a third.

Due to their favorable subsidization schemes, the already established biogas markets in Italy, the United Kingdom, the Czech Republic and the Netherlands will continue to be among the most important markets in the next five years. France is one of the new strong European growth markets. The country introduced a feed-in tariff in 2011 and simplified the approval procedures for the construction of biogas plants. Further emerging markets can be found in Eastern Europe. Poland has, for instance, announced a feed-in tariff in early 2013.

The most important non-European markets of the years to come will be the

North American and Asian ones. Most biogas plants will be constructed in the U.S., Canada, China, India and Japan. The growth in the U.S. will especially accelerate, as the country's current project pipeline is one of the largest throughout the world. Standards in India and China will reach western levels in the years to come and the countries will significantly develop their biogas markets thanks to their huge biomass potentials. Japan introduced the world's highest feed-in tariff for biogas in mid-2012, which will trigger considerable dynamics in this market.

Compared to these growth markets, the world's largest biogas market in Germany has slumped dramatically since early 2012. This is mainly due to the amended Renewable Energy Act. Compensation rates for biogas were in some cases reduced significantly and legal conditions were tightened (for instance, plants now have to use at least 60 percent of their waste heat). This is why in Germany the number of newly constructed biogas plants per year will decrease from about 1,300 in 2011 to 300 plants in 2012. In the long term, the German market will stabilize on this lower level.



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# Food waste

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Other problems include logistics. It isn't generally cost-effective to truck food residuals long distances, yet there aren't yet enough composting facilities close to major sources of food residuals. Safety of collection and composting workers is also an issue, since food residuals can harbor illness-causing microorganisms and attract rodents and other animals. Finally, markets for the products of composted food residuals require additional development.

The Composting Council is teaming with the Washington-based National Restaurant Association to address these issues by, among things, raising awareness about composting food waste. Scott DeFife, executive vice president of policy and government affairs for the restaurant trade group, said restaurateurs are very interested in finding ways to address food waste, including through recycling and composting.

Consumers are becoming more concerned about food waste and starting to examine sustainable practices in the restaurants they frequent, DeFife said. Government officials are increasingly looking at restaurants as a large source of food residuals that contribute to landfill use, he said. And restaurant owners are beginning to regard food waste as a potentially valuable commodity that they need to utilize.

"There is a very strong business case for restaurant operators in the energy, environment and sustainable practices field to get a greater return on investment and lower costs or get a return on things that otherwise are thought of as waste," DeFife said.

On the collections side, some of the techniques for improving consumer cooperation with composting initiatives include making it easier for consumers to separate food from other components of the stream. For instance, in San Francisco, consumers can put food residuals into the same green bin they



The consumer "yuck" factor is one of the barriers that composting and organic recyclers must overcome.

put food-soiled paper and similar organics. Other initiatives employ compostable bags that make it easier, neater and cleaner for consumers to prepare food residuals for composting.

With regard to safety and hygiene, more frequent collections of food residuals for composting offer some promise. Going to weekly collections instead of bi-weekly collections, for instance, reduces the amount of food residuals collected each trip and the length of time material has to sit by the curb. When food residuals are removed from garbage and collected weekly, Hoover noted, cities like Portland have found that frequency of garbage collection can be reduced to every other week.

"Reed & Reed and our team of local subcontractors have worked on all of First Wind's projects here in Maine," said Jack Parker, president and CEO of Reed & Reed, a heavy construction firm based in Woolwich. "We have seen time and time again how First Wind projects like Bull Hill positively impact the community and state. Along with the generation of clean, local energy, these projects have been among the most notable when it comes to economic development. Maine's wind power projects have created hundreds of jobs, provided millions of dollars for important community projects and they have directly lowered property taxes in a number of host communities. Bull Hill is an excellent example of how a project can support Maine people and local businesses."

## Bull Hill wind

■Continued from Page 1

businesses as outlined by the Massachusetts Green Communities Act."

Construction on the Bull Hill Wind project started in 2012, and created an average of 200 construction-related jobs while generating significant revenue for the surrounding communities. Maine-based contractor Reed & Reed led the construction process and hired mostly Maine-based businesses and subcontractors to work on the project. In addition, First Wind worked with its turbine supplier to ensure that the turbine shipments, including towers, blades and other equipment, went through nearby Searsport to maximize the economic benefits for the local community.

*I met someone at the office who was drinking coffee and complaining about how it made him nervous. I asked why he didn't quit drinking coffee if it made him ill. He replied, "Because if I didn't have the shakes I wouldn't get any exercise at all."*

Restaurants are also an important part, but many are small, independent operations, DeFife said. They have smaller amounts of food residuals than large institutions, and they may be located further from composting facilities, increasing the logistical and financial challenges of composting food residuals. He said, it's particularly important to educate these operators about the opportunities composting food residuals provides to improve their businesses' sustainability, cooperate more effectively with local governments and boost financial returns.

One key factor in making composting food residuals economically sustainable is the difference between local landfill tipping fees and fees composters charge to remove food residuals. If composting fees are competitive with landfills, composting is more financially appealing to generators of food residuals.

Technology may also play a role. Anaerobic digesters can be placed on the premises of individual restaurants, reducing transportation costs and providing restaurant operators with saleable soil amendments and even energy generated through the digesting process. "If you can create energy and a soil amendment, that's the best of both worlds," Hoover said.

Composting has many challenges in front of it, including expanding the network of composting facilities and expanding the markets for compost products. "We're only barely touching the surface," said the National Restaurant Association's DeFife. "There's so much more that can be done if there was more education, coordination and opportunity on the business side. We think we can dramatically increase it."

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