



# American Recycler

NewsVoice of Salvage, Waste and Recycling

AmericanRecycler.com

## FOCUS: SOLID WASTE

### Disasters debris goes mostly unrecycled



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# Energy industry works to recycle hydro-fracking waste water

by MARK HENRICKS

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Billions of gallons of fresh water are consumed annually by natural gas wells that employ hydraulic fracturing to force underground rock formations to yield up gas trapped within. Fracking, as it's known, is causing a boom in domestic energy exploration. It's also raising environmental concerns about, among other things, the way it takes in fresh water from lakes, rivers, aquifers and municipal drinking water systems, and puts out water so contaminated with salt, heavy metals and other pollutants that it can't be reused for drinking, irrigation, fracking or anything else and must be disposed of through deep injection wells.

Energy executives fear that without addressing environmental concerns, fracking could be headed for a rapid demise. "France and Belgium have permanently banned it," says Chris Faulkner, CEO of Breitling Oil & Gas, an independent exploration and production company located in Irving, Texas. "And it has everything to do with water."

Two major water issues concern critics. "One is the chemicals that go down the well and the fear that they will contaminate ground water," said Faulkner. "The other is the water that comes back up." To address the first, companies like Breitling are trying to come up with new formulations of fracking chemicals that won't pose the risk of harming the environment. Companies that treat water from fracking operations to make it reusable are now seeing their own boom, as energy producers try to reduce the costs and environmental impact of existing ways of handling water generated from fracking.

Recycling water from fracked wells makes sense on several levels, according to Warren Sumner, CEO of Omni Water Solutions, an Austin, Texas, company that has developed a system to recycle the water. "Today the practice of disposing of water typically involves trucking it to a disposal well," Sumner said. "There's a lot of cost and collateral damage from that trucking process."

The sheer volume of water a frack job consumes – about 5 to 10 million gallons per well – along with the usually remote locations of such wells, makes the challenge formidable. "We're



Treatment is effective enough that recycled frack water can be re-used over and over for future frack jobs.

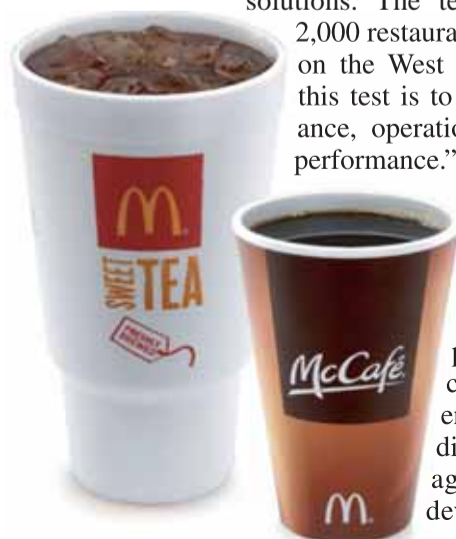
talking about 700 to over 1,000 truckloads just to carry away the water from a typical frack job," Sumner said. "So the volume of trucking is enormous and the wear and tear on the roads is large. Everyone would like to reduce that."

See **FRACKING WATER**, Page 4

# McDonald's to test foam cup replacements

In response to a 2011 shareholder resolution filed by shareholder advocacy organization As You Sow, McDonald's Corp. recently confirmed that it is taking a major step toward possible phase-out of polystyrene foam beverage cups.

The company recently notified As You Sow that: "McDonald's is currently testing a double-walled fiber hot cup, as the company continues to seek more environmentally sustainable solutions. The test is in approximately 2,000 restaurants in the U.S., primarily on the West Coast. The objective of this test is to assess customer acceptance, operational impact and overall performance."



Two thousand restaurants represent nearly 15 percent of McDonald's restaurants in the U.S. The shareholder proposal, which asked the company to assess the environmental impacts of different kinds of beverage containers and to develop packaging recy-

cling goals, received the support of nearly 30 percent of total company shares voted, a high result for an environmental issue proposal, and the highest vote to date for any As You Sow proposal on container recycling.

"This is a great first step for McDonald's and we hope it will lead to a permanent switch to paper cups in all of its restaurants," said Conrad MacKerron, As You Sow's senior program director. "Given the company's history of using high levels of recycled content in other food packaging, we hope that it follows suit with its cups, and also establishes a robust recycling program for post-consumer waste left in its restaurants."

In 1990 McDonald's began to phase out foam-based clamshell food containers amid concerns that petroleum-based food packaging persists in the environment for hundreds of years. Over the next decade, McDonald's eliminated more than 300 million pounds of packaging and reduced restaurant waste by 30 percent, saving an estimated \$6 million per year. However, the company continued to use billions of foam-based beverage cups.

Styrene, used to make polystyrene, has been listed as a possible carcinogen by both the International Agency for Research on Cancer and the National Institutes of Health's National Toxicology Program. Several epidemiologic studies

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## New shingle recycling pledge provides rewards

Owens Corning, through its Roofing and Asphalt business, is inviting homeowners to take the Shingle Recycling Pledge as a way to show their commitment to keep old roofs out of landfills by working with roofing contractors who practice sustainable building practices.

“According to the Northeast Recycling Center, up to 10 million tons of recyclable shingles are removed from the roofs of U.S. homes and buildings annually,” said Barry Hornbacher, Owens Corning Roofing and Asphalt Shingle Recycling Program manager.

To take the pledge in markets where recycling is available, homeowners simply visit their website at [www.roofing.owenscorning.com](http://www.roofing.owenscorning.com) and select “Recycle Now.”

In addition to connecting with local contractors committed to shingle recycling, everyone who takes the pledge will also receive a free reusable tote bag while supplies last. Homeowners who do not currently have shingle recycling available in their area can show their interest in shingle recycling by filling out a form on the website, which will help Owens Corning Roofing & Asphalt rally support from contractors in their local community.

Through Owens Corning Roofing & Asphalt’s website, homeowners can search for reputable contractors in their area that already participate in the program.

## Synagro to provide biosolids recycling solution for Florida municipalities

Synagro Technologies, Inc. has entered into a lease agreement with the Charlotte County Public Works – Solid Waste Division to develop a regional biosolids and green waste Bio-Recycling Center at the County’s Zemel Road landfill near Punta Gorda, Florida. Under a 20 year agreement, Synagro will design, finance, build and operate a covered windrow composting facility that will recycle approximately 50,000 tons of biosolids per year.

Biosolids management options for southwest Florida are limited as much of the area lies within the sensitive watersheds of the Okeechobee and Caloosahatchee rivers. Beginning in 2013, land application of Class B biosolids will be subject to more stringent nutrient management planning

requirements. As a result, many sites that have historically been fertilized with recycled biosolids may no longer be available.

This leaves distant land application sites and/or landfills located in excess of 150 miles from many of the region’s wastewater treatment plants as the only options for some municipalities, increasing costs and greenhouse gas emissions associated with transporting biosolids.

Synagro’s Bio-Recycling Center will substantially reduce the transportation of biosolids when compared to those landfills and land application sites, lowering fossil fuel consumption and impact on the environment. Additionally, the new facility will enable communities in southwest Florida to

meet state-wide recycling goals as the composting plant will receive and recycle green waste as well as biosolids. The Class AA compost produced by the facility can be used by public works agencies in the region for maintaining playing fields, golf courses, community plantings and repairing construction sites, potentially reducing budgetary impacts associated with grounds maintenance. Other economic benefits include the creation of new local jobs and a decrease in Charlotte County’s operating costs.

Construction of the new Bio-Recycling Center is expected to commence in mid-2012 with full commercial operation beginning by end of year, pending approvals from the Department of Environmental Protection.

## Massachusetts group reaches 500 members

Real Recycling for Massachusetts, an organization made up of businesses, individuals, trade organizations and unions who support increasing the state’s recycling rate and oppose a bottle bill expansion, has grown to include 500 members following their initial launch last August.

The 500 member coalition supports finding impactful and cost-effective ways to increase the state’s recycling rate, and holds that bottle bill expansion will be costly to consumers and merchants while having little environmental impact. The coalition is urging the Leg-

islature to reject a costly and ineffective bottle bill expansion.

“Expanding the bottle bill will cost grocers and consumers more money but it won’t work to reduce litter or improve recycling,” said Chris Flynn, president of the Massachusetts Food Association and member of Real Recycling for Massachusetts. “It is no wonder that when Massachusetts voters have the facts, almost 70 percent oppose bottle bill expansion.”

Proposals to expand the state’s bottle bill would add a \$.05 fee to bottled water, juices, iced tea and sports drinks,

in addition to the \$.05 fee already placed on beer and water. The legislation would also require grocers to act as redemption centers and collect empty bottles and cans at their stores. Real Recycling for Massachusetts members are concerned about the impact that overhead costs from redeeming bottles, as well as the new fees on beverages, could have on businesses, consumers and jobs.

Real Recycling for Massachusetts seeks to expand recycling by making it more accessible in public places, such as parks and arenas, and increasing access to recycling in the work place.

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# Fracking water

■Continued from Page 1

Natural gas is a relatively low-polluting fossil fuel that many see as critical to helping reduce America's reliance on oil and coal. It's also plentiful, with some estimates pegging domestic deposits as sufficient to supply U.S. energy needs for a century. It's hard to get to, however, because those deposits are deep and the gas is trapped in shale rock formations.

Fracking, which pumps a mixture of water, sand and chemicals, at enough pressure to shatter underground rock formations, has stirred up a variety of environmental concerns. Flammable methane gas has been found in drinking water supplies near gas fields, for instance. Also, earthquakes, in such unlikely places as Ohio, that may have been caused by the use of deep injection wells to dispose of water coming back out of fracked wells.

Of the 5 to 10 million gallons of fresh water consumed by the typical frack well, an average of about 20 percent flows back up to the surface, where it must be disposed of. The flowback water is contaminated with salt, heavy metals and other pollutants, making it unsuitable for disposal in freshwater lakes, rivers and aquifers.

To date, much of this flowback water, as well as additional water that is produced from underground reservoirs along with the natural gas, has been disposed of by injection into deep wells. These wells are common and widespread in some areas, such as Texas where the Eagle Ford Shale formation

has spurred one of the large fracking booms. They are uncommon in many areas such as the Northeast, where the Marcellus formation in Pennsylvania, New York and West Virginia is the nation's biggest such deposit.

Disposal wells have come under scrutiny in the wake of a number of unusual earthquakes in some regions near deep injection disposal wells. One injection well outside Youngstown, Ohio, was closed after a series of small earthquakes struck the area beginning in early 2011. Thus, in many areas of the country, the primary method of disposing of contaminated frack water is becoming less viable.

Recycling can help greatly with this problem, says Yves Pollart, vice president with Rettew Flowback Inc. (RFI), a Lancaster, Pennsylvania, company that treats frack water so that it can be reused for fracking. As is, upwards of 20 percent of water used for fracking is recycled, Pollart said. But much more could be.

Recyclers like RFI and Omni use trailer-mounted systems that apply several different treatment methods to contaminated flowback water, in order to return it to a state that is acceptable for reuse. The methods vary according to the contaminants in the water, which can be widely different depending on the underground environment, and on the needs of the fracking company. However, they include filtration and chemical treatment, along with computerized monitoring and management of the process.

The resulting water can be, in some cases, made as clean as drinking water. However, that's not usually the goal. In order to be re-used for fracking, the water can still be too briny to be discharged into the freshwater system.

"It's typically what we call clean brine," Sumner says. "It's devoid of objectionable materials like iron, magnesium, calcium, barium and strontium.

But it still has salts in it such as sodium chloride and potassium chloride. We find that many operators prefer to leave those salts in it because that's in their frack chemistry already. That way they don't have to repurchase those salts."

The treatment techniques are effective enough that recycled frack water can be re-used over and over again for future frack jobs. The savings in consumption of fresh water, potential pollution of underground water supplies, possible prevention of earthquakes caused by injection and financial benefits of treating water on-site so it doesn't have to be trucked in or out, make recycling a highly attractive proposition for energy companies, environmentalists, regulators and transportation authorities charged with maintaining roads.

Among the challenges to increased recycling are getting frack companies to standardize their requirements for the cleanliness of water used for their procedures, Pollart said. There's little doubt recycling is here to stay in the oil patch. The problem of dealing with contaminated flowback water will decline along with the number of active drilling rigs as the gas deposits are gradually tapped out. But it will be replaced by smaller but still significant amounts of similarly contaminated water naturally produced along with the gas from wells.

This "produced water," as it's known, will ultimately be dealt with by evaporating it and then disposing of the left over salt in landfills, Pollart said. But for the moment, the new techniques for recycling frack water appear to be effectively addressing some of the biggest concerns about fracking. Sumner said it will get better. He foresees a day when recycled flowback, treated produced water and more water taken from existing brine resources provides all the water frackers need. "We can get the industry to net zero withdrawals on fresh water," he said.



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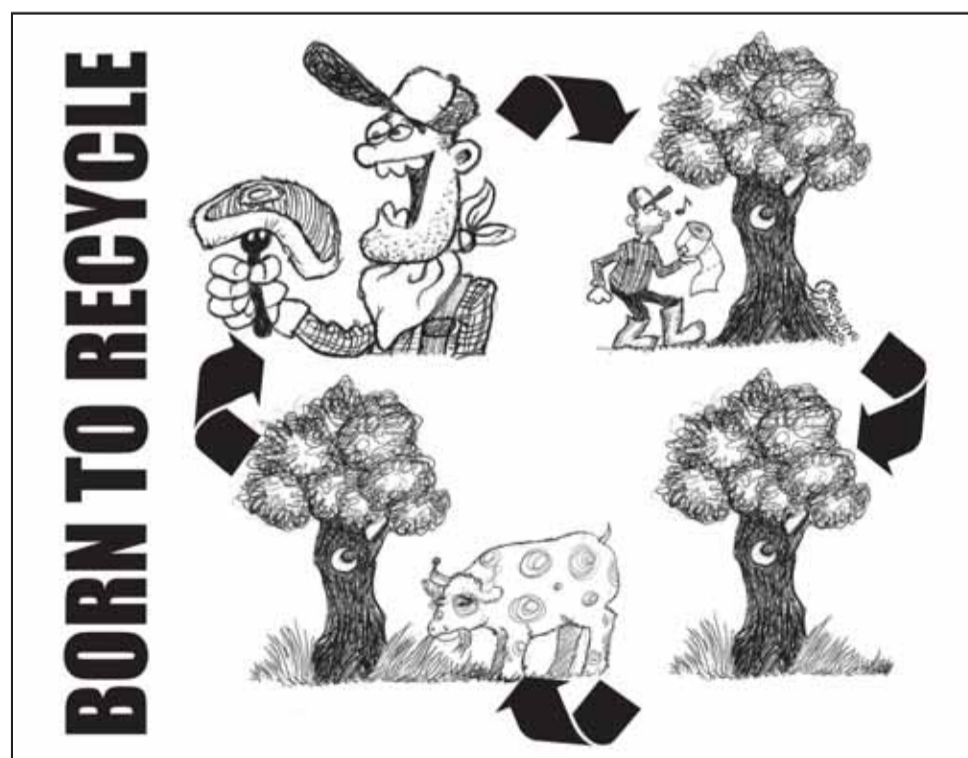
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## Revised settlement with Clean Harbors benefits Boston area citizens

Following public comment received on a proposed settlement to resolve hazardous waste violations by Clean Harbors of Braintree, Inc. of Massachusetts, EPA and Clean Harbors have entered into a revised settlement.

The revised settlement alters the Supplemental Environmental Project that was contained in the original settlement, which was agreed to in August, 2011, and provides that Clean Harbors will purchase or ensure the purchase of an aerial platform fire truck for the Town of Braintree, Massachusetts, where the original violations occurred. In addition, Clean Harbors will ensure the planting of approximately 800 trees in Environmental Justice areas in Boston. The original penalty of \$650,000 remains the same as in the original proposed settlement.

Under the revised agreement, Clean Harbors is expected to share the cost of a fire truck with Braintree. The fire truck is estimated to cost approximately \$900,000, of which Clean Harbors will pay at least \$450,000. The fire truck will be owned and operated by Braintree, but will also be available for emergency response activity in surrounding South Shore communities. Clean Harbors will also spend at least \$612,500 on a project, which will be implemented by the Boston Parks and Recreation Department, involving the planting of approximately 800 trees in targeted low-income, historically disadvantaged neighborhoods in Boston over a 2 year period.

EPA identified nearly 30 violations of both the Resource Conservation and Recovery Act (RCRA) and the Emergency Planning and Community Right-To-Know Act (EPCRA) at a site inspection of the Braintree Clean Harbors facility that took place in June 2007. Those violations included inadequate waste characterization, the failure to properly maintain its hazardous waste tanks, inadequate secondary containment and improper storage of incompatible wastes.

## McDonald's

Continued from Page 1

suggest an association between occupational styrene exposure and an increased risk of leukemia and lymphoma.

Polystyrene cups are not commonly recycled. Foam particles are among the most common items found by environmental groups leading beach clean ups. Carried through storm drains to the ocean, foam containers break down into small indigestible pellets which animals perceive as food, resulting in the death of birds and fish. Due to such concerns, more than 50 cities in California and 100 cities in the U.S. have banned or restricted the use of polystyrene food packaging.

Dunkin' Donuts, which also serves hot beverages in foam cups, announced last fall that it was also considering alternatives.

In July 2007, EPA issued an administrative order directing Clean Harbors to immediately address numerous conditions identified during the inspection that could have posed a danger to human health or the environment. Clean Harbors came into compliance with the 2007 order soon after it was issued.

Under the settlement, Clean Harbors also will comply with an enhanced waste analysis plan that goes beyond what is currently required in its hazardous waste permit. This plan will help to ensure that the hazardous waste Clean Harbors receives and generates will be properly characterized and managed. Further, Clean Harbors has installed and will maintain a vapor collection system for its tanks that will collect and treat volatile organic compound (VOC) emissions, which contribute to smog.

The Clean Harbors Braintree facility performs hazardous materials management and disposal services including drummed and bulk waste processing and consolidation, transformer decommissioning, PCB storage and processing, blending of waste used as supplemental fuel by cement kilns or industrial furnaces, and pretreatment of waste to stabilize it before it is sent to permitted landfills.

## San Francisco celebrates composting achievements

San Francisco reached a major environmental milestone last November having collected a million tons of compostable material through Recology's green bin program, and now, the millionth ton returns to San Francisco to be applied as nutrient-rich compost to fertilize gardens and grow healthy, organic foods.

San Francisco diverts 78 percent of all waste generated in the city away from landfill disposal through source reduction, reuse, and recycling and composting programs. By working together, the City, Recology and the San Francisco Department of Environment have been able to provide some of the most innovative and advanced waste reduction programs in the country. These programs have landed San Francisco the honor of being named the Greenest City in North America and a perfect score for resource recovery and recycling category in the 2011 Siemens Green City Index. The City's easy-to-use, readily

available programs such as the curbside green bin program are shaping the country's approach to waste.

"Residents and businesses have embraced the city's goal of zero waste and are actively composting their coffee grounds, food scraps and plant cuttings," said San Francisco environment director Melanie Nutter. "The compost program not only gets us one step closer to our goal of zero waste by 2020, it's also a critical component in reducing carbon emissions around the Bay Area."

The composting program alone has diverted one million tons of waste from landfill disposal.

Since its inception in 1996, the green bin composting program has converted city food scraps, plant trimmings and soiled paper into over 600,000 cubic yards of finished compost – a soil amendment that helps local farmers grow healthy, sustainable food.

## WM of Arizona opens organics facility

Waste Management of Arizona has opened the Maricopa Organics Recycling Facility located at its Sierra Estrella facility, developed in collaboration with Garick LLC. Garick LLC is a manufacturer, marketer and distributor of biomass fuel supply, organic lawn and garden products. Waste Management of Arizona will collect

green waste such as yard and clean wood waste recovered from the company's transfer stations, which Garick will process into biomass wood fuel, which will be sold primarily to Frito-Lay to run its Casa Grande, Arizona facility. In addition to biomass wood fuel, Garick will produce compost and mulch for local use.

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# TOMRA provides support to Oregon's BottleDrop Redemption Center

TOMRA of North America, Inc. has completed installation of advanced recycling technology at the Oregon Beverage Recycling Cooperative's (OBRC) new 7,000 sq.ft. redemption center in Salem, Oregon. TOMRA is providing the new facility – called the BottleDrop Redemption Center – with reverse vending machines (RVMs), pre-sorting equipment and an InstaDeem cash redemption kiosk.

The BottleDrop Redemption Center, operated and funded by OBRC in partnership with participating grocery retailers, is a new model for bottle redemption in Oregon. In a shift from the state's original "return to retailer" structure, participating retailers within 1.5 miles of

the center will no longer be required to accept deposit containers from customers.

The new facility will accept up to 300 containers per customer per day, at a speed of up to 1 container per second. Each T820 machine can accept glass, plastic and aluminum through one receptacle. Customers with only aluminum cans to recycle can use TOMRA's CanDo machines, which provide bulk collection of aluminum cans.

Customers can redeem their cash deposits at a TOMRA InstaDeem kiosk. The easy-to-use kiosk recognizes and verifies RVM receipts and disburses cash in bills and coins.

# Recology gives away over 200 yards of compost

Recology hosted the Great Compost Giveaway as a thank you to San Francisco residents for helping the city reach an environmental milestone earlier this year – the collection of the millionth ton of compostable material through Recology's green bin program.

The annual event, hosted by Recology in partnership with San Francisco Rec and Parks, the San Francisco Department of Environment and the Department of Public Works, encourages people to start their own home gardens and increase their participation in the city's composting program.

Over 3,000 participants collected five gallons of compost free from Recology – compost made from the very food scraps and plant matter that San Franciscans place in their green compost bins daily. Since its inception in 1996, the

green bin composting program has converted city food scraps, plant trimmings and soiled paper into over 600,000 cubic yards of finished compost – a soil amendment that helps local farms and vineyards grow healthy, sustainable food.

Recology employee volunteers handed out over 200 yards of compost. Participants lined up at giveaway sites around the City with buckets and boxes, eager to collect the "gourmet planting mix." The finished compost is used at more than 200 farms and vineyards throughout the Bay Area, and is one of the most nutrient-rich soil amendments in the country due to its very diverse feed stock – food scraps and plant material. Left over compost was donated to Alemany Farm, a local community farm.

# Covanta sharpens focus on organic growth

Covanta Holding Corporation made several management reassignments within its senior team in order to more sharply focus on organic growth, new technology and project development initiatives. Effective immediately, Seth Myones, John Klett and Matthew Mulcahy will take on the roles of executive vice president and chief operating officer, executive vice president and chief technology officer and senior vice president, head of corporate development, respectively.

As chief operating officer for the company, Myones will be responsible for all of Covanta's operations, includ-

ing safety, health and environmental programs, client relations, facility production and energy risk management. In addition, he will be responsible for the company's various organic growth initiatives including the expansion of the Covanta 4Recovery waste services business, enhanced metal recovery and innovative efficiency improvements. Myones has been with Covanta since 1989, most recently serving as president of the Americas.

In the newly created role of chief technology officer, Klett will focus on developing and commercializing new Energy-from-Waste technologies as

well as supporting technologies. He will also continue to oversee the company's research and development efforts which have successfully commercialized ash conditioning and Low NOx technologies among other achievements. Within this role, Klett will focus on improving and expanding service to existing customers and opening markets for new customers. He has over 40 years of hands-on experience in power plant operation, including 30 years in the energy-from-waste industry. He joined Covanta in 1986 and most recently served as chief operating officer.

In his role as senior vice president, head of corporate development, Mulcahy will be responsible for Covanta's strategy, development and mergers & acquisitions. In this capacity, he will lead the UK and Americas development teams and work closely with Klett to develop new technology. Mulcahy has been with Covanta since 1990, most recently as Covanta Energy's senior vice president, development for the Americas.

# AFBG negotiates to recycle salvaged boats

American Fiber Green Products, Inc. said that negotiations have advanced on a joint venture operation with Florida partners to facilitate the recycling of salvage boats from Florida rivers and tributaries, as well as the Gulf of Mexico.

Ken McCleave, chairman of American Fiber Green Products, Inc. board of directors, noted that in excess of 100 acres of land have been identified in West Central Florida to accommodate a fiberglass boat recycling operation. The property's owner has agreed to make the property available in conjunction with a third entity equipped with barges and other equipment required to raise the Coast Guard estimated 9,000 boats that lie in the shallow waters of the Gulf of Mexico. Florida, like many other states, struggles with the number of boats left abandoned both in the waterways and on land.

It is anticipated that a boat recycling depot can be operating in the next 90 to 120 days. States have funds earmarked specifically for abandoned boat programs.

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# Data shows types of trash in ocean and waterways

Found enough discarded clothing to outfit audience of the 2012 Summer Olympics Opening Ceremony

With the recent news of possible Japan tsunami debris spotted off the Canadian coast, Ocean Conservancy is releasing new data on the larger issue of marine debris. New numbers detail ocean trash found along coasts and waterways worldwide during the 2011 International Coastal Cleanup – the largest annual volunteer effort for the ocean.

“Our volunteers picked up enough food packaging for a person to get take-out for breakfast, lunch and dinner every day for the next 858 years,” said Vikki Spruill, Ocean Conservancy’s president and CEO. “Ocean trash is human-gener-

ated, preventable and one of the biggest threats to our ocean and waterways.”

This year, the scientific field of marine debris had an extra challenge with the aftermath of the Japan tsunami. While researchers are still working to learn more about what resulted from this unavoidable natural disaster, one thing is known: tsunami-related debris was unpreventable, but ocean trash is – when everyone is part of the solution.

The clean up is part of Ocean Conservancy’s vision of Trash Free Seas, and is one of the many ways the organization is helping find solutions on the issue of marine debris.

# Kneiss named as new CEO of EIA

Sharon H. Kneiss has been selected as the new president and CEO of the Environmental Industry Associations (EIA), following the retirement of Bruce Parker, who will be stepping down later this year after 30 years of service to the industry.

The selection of Kneiss follows an extensive executive search of candidates to lead the trade association that represents the private-sector solid waste services industry and its two sub-associations, the National Solid Waste Management Association and the Waste Equipment Technology Association.

Kneiss, who received a Bachelor of Science in Chemistry from the University of Scranton and a Master of Business Administration from the University of Pittsburgh, has more than 30 years of business, management and advocacy experience relating to environmental policy at the federal and state levels.

She served as vice president, products division with the American Chemistry Council (ACC). In this role, she managed a 50 person staff and was responsible for the division’s vision and strategy, product promotion, state and local advocacy, research and policy development and membership recruitment. She also served as a public spokesperson on critical issues before Congress and high-profile media.

Previously to ACC, Kneiss served in a management capacity at the American Forest & Paper Association, and policy advocacy roles at Chevron Corporation, Hercules Inc. and the American Petroleum Institute. Through that collective experience, she has spearheaded several environmental initiatives, ranging from plastic recycling to Superfund and Resource Conservation and Recovery Act regulatory issues to voluntary industry commitment to greenhouse gas reductions.

# Illegal dumper sentenced to three years in prison

The Environment Crime Task Force of Central Ohio (ECTF) said that Richard Fintak was sentenced to three years in prison by Franklin County Common Pleas Judge David Cain. Fintak had previously pleaded guilty to three counts: open dumping, operating an illegal solid waste facility and operating an illegal landfill/transfer station. Cain ordered a three year sentence on each count and ordered that the sentences run concurrently. He was also

ordered to pay restitution to the property owners in the amount of \$377,581.00.

Fintak had operated an illegal landfill located at 1388 Stimmel Rd. in Franklin Township since the fall of 2009; the landfill was forced to close in the spring of 2010 by the ECTF. He had accepted a plea bargain in late 2011 that required Fintak to clean up the site. In the months awaiting sentencing, the site was not cleaned up; in fact, it grew bigger to the point where it was 30 feet high

and covered nearly an acre of land, Assistant Franklin County Prosecutor Heather Robinson noted.

Solid Waste Authority of Central Ohio Executive Director Ron Mills said the sentence should serve as a warning to others that Franklin County officials will not tolerate illegal dumping.

The Environmental Crime Task Force will be working to have the site cleaned up.

# Container lines propose rate hike

Container shipping lines in the West-bound Transpacific Stabilization Agreement are recommending a further round of incremental rate increases.

The adjustments, scheduled to take effect on May 15, 2012, will raise dry commodity rate levels by \$50 per 40 foot container (FEU) from Pacific Southwest ports, and by \$100 per FEU for all other cargo, moving via all-water or intermodal service from Pacific Northwest ports, from inland U.S. points and from the U.S. East and Gulf Coasts.

*A psychiatrist is a fellow who asks you a lot of expensive questions that your wife asks for free.*

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## Hawaii's largest wind project is in the works



Groundbreaking ceremony at Kawaiiloa Wind in Hawaii.

First Wind, an independent U.S.-based wind energy company, celebrated the start of construction of its 69 megawatt (MW) Kawaiiloa Wind project on Kamehameha Schools' Kawaiiloa Plantation lands on Oahu's North Shore. Once complete, Kawaiiloa Wind will be the largest wind energy facility in Hawaii. The site's thirty 2.3 MW Siemens wind turbines will have the capacity to generate enough clean, renewable wind energy to power the equivalent of approximately 14,500 homes on the island, or as much as 5 percent of Oahu's annual electrical demand.

In December 2011, 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. Kawaiiloa Wind will significantly advance the state's progress toward these goals.

Working in concert with the Kamehameha Schools (KS) as part of their North Shore Plan, Kawaiiloa Wind reflects a genuine collaboration with the community. First Wind has been in discussions about the project with North Shore residents and community organizations for the past two years, while KS began community consultation in 2006, starting with area k puna (Hawaiian elders) to guide the process. First Wind also worked with federal, state and county agencies to obtain the necessary permits.

As with other projects on Maui and Oahu, First Wind developed a Habitat Conservation Plan (HCP) for Kawaiiloa Wind, working with the U.S. Fish and Wildlife Service and the Division of Forestry and Wildlife of the Hawaii's 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.

First Wind owns and operates two other wind energy projects in Hawaii, and is currently building another project on Maui.



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## ALTERNATIVE ENERGY

### Green EnviroTech Holdings sells permit to construct

Green EnviroTech Holdings Corp. has sold the Permit to Construct for the Riverbank, California proposed waste plastic to oil processing facility to WM Riverbank Recovery, LLC, Beaverton, Oregon.

The planned 50,000 sq.ft. facility will recycle difficult-to-recycle plastic waste starting with agricultural mulch film, fumigation film and irrigation drip tape (LDPE) into crude oil utilizing patented, proven and commercially viable technology from Agilyx. This will be the company's first facility in California and will utilize the Agilyx technology.

CEO Gary De Laurentiis stated, "The sale of the permit to Agilyx will allow GETH to focus on the two major projects at hand. First is our proposed plant for

waste plastic and tires to oil in Mississippi. This plant is planned to be funded by Ebbros I Investment Group, of Kansas City, Missouri. Second is our proposed plant in Wisconsin to process shredder residue to oil and compounded plastic.

The funding for this plant is planned to be with ACG Companies and the EB5 program. We have identified two locations in Wisconsin that meet the criteria for the EB5 program. We should have a definite location set within the next few weeks. Once the location is finalized the timeline to begin construction should be within six to eight months. Funding for both plants have Letters of Intent signed and negotiations are in the process to finalize the funding."

### Mini wind turbines to power SC Johnson's Arkansas office

SC Johnson has plans for a wind energy program at its Lowell, Arkansas sales office. Already known for its use of renewable energy at its manufacturing facilities, the 126 year old company is adding 3 mini wind turbines at its largest U.S. sales office outside of its Racine, Wisconsin global headquarters.

The 3 Swift turbines, manufactured by Cascade Engineering, Inc., will be

located on the office roof and will stand 10 to 12 feet above roof level. The turbines are expected to be fully functioning by May 1, 2012.

Once fully operational, the turbines will be connected to the site's electrical distribution system and will be capable of generating as much as 3,600 kWh of electricity annually.

### Solar Irrigation Systems provides water for Arizona farming

Synchronys has reached an agreement with Earth Pure Foods LLC to install a solar irrigation system to provide water for their farming operations near Phoenix, Arizona.

The 55kW solar array will provide the primary power for the well pump using 360 thin film solar panels that were specifically selected to provide reliable service in the hot, dry, windy Arizona climate.

When irrigation is not required, Earth Pure Foods LLC will sell the surplus electricity to the local power cooperative. The solar irrigation system was designed to operate effectively with or without a grid-tie, to be easy to install and operate, and to provide a dependable water source anywhere in the world.

*Statistics show that at the age of seventy, there are five women to every man. Isn't that an ironic time for a guy to get those odds?*

### Ameresco celebrates opening of new biomass cogeneration facility

Under Secretary of Energy Thomas D'Agostino joined U.S. Representative Joe Wilson (R-SC) and other senior officials from the Department of Energy (DOE) and Ameresco, Inc., to mark the operational startup of a new \$795 million renewable energy fueled facility at the Savannah River Site (SRS).

The 34 acre SRS Biomass Cogeneration Facility is the culmination of 30 months and more than 600,000 hours of labor. This project is also the single largest renewable Energy Savings Performance Contract (ESPC) in the nation's history. The project sustained and created an estimated 800 jobs, spanning the mechanical, construction, engineering and supplier sectors. Fully operational, the plant will employ 25 full time jobs on-site and support the local logging community.

Acting assistant secretary for environmental management David Huizenga, DOE Savannah River manager Dave Moody, and George Sakellaris, Ameresco president and chief executive officer, joined Under Secretary D'Agostino and Rep. Wilson for the ceremonial ribbon cutting.

The SRS Biomass Cogeneration Facility replaced a deteriorating and

inefficient 1950s era coal powerhouse and oil-fired boilers, and will generate an estimated \$944 million in savings in energy, operation and maintenance costs over the duration of the contract.


Clean biomass, consisting of local forest residue and wood chips, and bio-derived fuels will be the primary fuel source for the renewable energy facility, which has the capacity to combust 385,000 tons of forest residue into 20 megawatts of clean power annually.

Energy savings result from replacing the inefficient D Area Powerhouse with the biomass facility, switching from coal to biomass fuel and improving the efficiency of the operations with new equipment that better matches SRS's load requirements. Surrounding communities also receive added health and environmental benefits tied to air emission reductions, including avoiding 100,000 tons of greenhouse gas emissions per year.

DOE signed onto an ESPC with Ameresco in 2009 to finance, design, construct, operate, maintain and fuel the new biomass facility under a 20 year fixed price contract valued at \$795 million.

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# PAPER

## Paper shredding record set



PHOTO COURTESY OF PRNEWSFOTO/COMERICA BANK

Representatives from Comerica Bank and Iron Mountain accept the Guinness World Records® certificate at "Shred Day DFW" after breaking the record for the most paper collected in a 24 hour period.

Comerica Bank and information management services firm Iron Mountain Incorporated set a world record, earning a Guinness World Records honor for "Most Paper Collected in a 24-Hour Period" at Shred Day DFW, a free community shredding event held at Comerica Bank's Mockingbird Service Center in Dallas on Saturday, April 14. The public event, designed to raise awareness of identity theft protection and sustainability, resulted in the collec-

tion of 111,920 lbs. of paper in a single day, which surpassed the previous record (87,360 lbs., set in 2011) by more than 12 tons. All 111,920 lbs. of paper collected is being securely destroyed and recycled by Iron Mountain.

An official adjudicator from Guinness World Records attended the event to observe the attempt, certify the results and present Comerica Bank and Iron Mountain with the Guinness World Records certificate.

As a new charitable component to this year's Shred Day event, participants were encouraged to bring a suggested donation of two nonperishable food items to help support the North Texas Food Bank. As a result, the event generated approximately 4,546 lbs. of food and monetary donations equivalent to roughly 13,588 meals that will help feed hungry families, seniors and children in 13 North Texas counties.

## Database tracks pulp and paper mills and projects

RISI, an information provider for the global forest products industry, has announced the release of its new Mill Asset Database. The database combines new pulp and paper mill data with information previously available from five separate RISI services: the Lockwood-Post Online Directory of Pulp & Paper Mills, the Global Mill Projects Database, the Mill Investment History Database, Pulp & Paper Company Profiles and elements from its cost benchmarking service, Analytical Cornerstone 4.0.

"Over the last two years, my team and I have been working – in partnership with clients and colleagues in the pulp and paper industry – to develop a tool that provides accurate and relevant information on pulp and paper mills around the world," said Surya P. Raina, vice president of Mill Intelligence at RISI. "These aggregated data along with intuitive, new tools will make it easy for our clients to search, analyze, customize and download information about pulp and paper mills."

The Mill Asset Database allows users to create custom reports on 3,800 mills and 13,000 mill projects world-

wide. Some of the features available include the following:

- Search and filter results by grade, region, capacity, equipment, input consumption, investments, status, developer, investment cost and over 100 other filtering options.

- Download data to excel, word and other applications.

- Map mills within search results using Google mapping technology.

- View mill process flow sheets that provide a birds-eye view of mill operations.

- Generate consumption reports by mill, for furnish and energy.

RISI employs a global team of news editors, economists, analysts and process engineers who collect and update mill data from the regions in which they are based. This information is fed into the Mill Asset Database as it becomes available. Analysts and engineers also conduct quarterly audits of mills in the database with information collected from site visits and surveys.

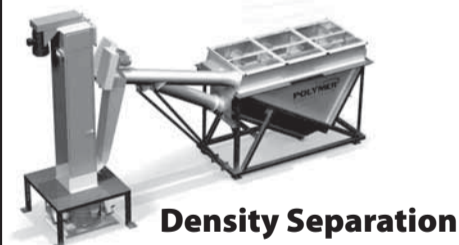
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## Three million pounds of waste saved with catalog program

Catalog Choice, a mail preference service dedicated to eliminating

unwanted mail, has announced the environmental benefits of its municipal partnership program, which launched one year ago. Catalog Choice for Communities is a customized service designed to reduce waste, save money and rid consumers of junk mail by stopping it at the source. Seattle, Chicago, Boulder, Berkeley, San Jose and Santa Fe are among those participating in the nationwide program.

Since March 2011, more than 530,000 opt-out requests have been processed through Catalog Choice for Communities, which translates to 3,000,000 lbs. of solid waste saved.

Created by the Berkeley-based nonprofit, Catalog Choice for Communities is a zero-waste program for unwanted mail and phone books. Catalog Choice provides each municipal partner with a tailored website hosted on [catalog-choice.org](http://catalog-choice.org), where residents can opt-out of unwanted mail.

Summary reports by zip code are shared by Catalog Choice on citizen participation, solid waste diversion, CO2 reductions and other environmental benefits. Communities that work with Catalog Choice stop five times more unsolicited mail at the source than others in the U.S.

Americans receive more than 100 billion pieces of unsolicited mail each year, and 62 percent of it is not recycled.

*Hard work spotlights the character of people; some turn up their sleeves, some turn up their noses, and some don't turn up at all!*

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## PLASTICS

# Chairs molded from recycled PET a top winner in plastics competition

The award winners in the 2nd International Plastics Design Competition (IPDC) sponsored by SPI: The Plastics Industry Trade Association, span a wide range of applications, and many of them embody innovative use of technologies in support of sustainability goals.

The competition attracted 32 product entries whose details and images were posted online. An international panel of nine judges evaluated the entries in advance of NPE2012 and in a special exhibit at the show itself. In addition to awards presented by the judges, there was a "Peoples' Choice" award based on online and at-show voting open to anyone in the industry.

The awards presented were:

**Best in Show:** The 111 Navy Chair, designed by Emeco and gas-assist injection molded from recycled PET supplied by BASF. The product also won the Buildings & Furnishings award and the Sustainable Consumer Product award.

**Peoples' Choice:** The Zip Zester, for removing zest from citrus fruits; designed by Grass Roots Industries for brand owner Zip Zester; molded by Cashmere Molding using Battenfeld equipment, materials from EMS Grivory and tooling by Questech Unlimited and China Monicom.

**Automotive & Transportation:** The all-plastics Tigris airline catering trolley, designed by ProMolding,

molded by Bemis Manufacturing using tooling from VinylTech International, machinery from Milacron, and resin from Solvay Advanced Polymers. The product also received the Innovations in Plastics award and the Project award.

**Consumer Products:** The Purist Hydroflo Water Bottle, designed by Harbor Fluid Products for brand owner Specialized Bicycle Components.

**Medical & Scientific:** Mobilegs, an alternative to the traditional crutch for disabled people, designed by Studio + Weber for brand owner Mobi. BASF supplied the resin, and Illinois Tool Works did the toolmaking and molding.

**Packaging:** The 1-Seal container and lid product molded by Arta Plast from material supplied by Spartech Corp., for brand owner The Better Bean Company. Machinery for the project was supplied by Packline West.

**Emerging Technology:** 3D IML with MuCell, a 3D in-mold labeled packaging tub injection molded of expanded PP through use of the MuCell process. Brand owner, designer, and molder was PACCOR Packaging Deutschland. Netstal supplied the machinery and Plastisud the tooling.

**Single Part:** An injection molded component for a water outlet assembly, designed by MPC for brand owner Nissan, using material from Solvay, machinery from Demag, and tooling from Industrial Molds.



BASF received four awards in the International Plastics Design Competition (IPDC), including the Best in Show Award for the 111 Navy Chair. Accepting for BASF was Susan Jackson, shown here with IPDC chairman Robert Janeczko.

**Sustainable Part:** The Genesys Fluid Pump, designed by Millennium Mold Design for brand owner Multi-Duti Manufacturing, molded by Ci-Dell Plastics with material from Bulk Molding Compounds and tooling from Moldcraft.

**Sustainable Process:** Poly-Lactic Foam Article by brand owner and designer Sekisui Plastics, which was also responsible for materials, machinery, tooling and molding.

**Judges' Awards:** There were two winners: 1) Calibowl foodware by brand owner and designer Simplewave, with materials, molding, and tooling supplied by Jatco and machinery from Toyo Injection Molding Machines; 2) IML Syringe Barrel, designed by Tech Mold, CBW Automation, and Moldmasters, with machinery from Milacron and materials from PolyOne.

## Study shows most Americans can recycle plastic bags and wraps locally

A new study provides encouraging news about the state of plastics recycling in the U.S. More than 91 percent of the U.S. population can recycle their plastic bags locally, and additionally, nearly 75 percent of people living in the U.S. can recycle other types of flexible plastic wraps in their own communities.

The study, which looked at flexible polyethylene film – a category that includes flexible plastic bags, sacks and many product wraps – identified over 15,000 drop-off locations that collect these items for recycling. The majority of collection centers are conveniently located in stores, frequently major grocery chains or retailers like Target and Lowe's home improvement stores.

"Plastic Film and Bag Recycling Collection: National Reach Study," conducted by Moore Recycling Associates Inc., is believed to be the first study to examine consumers' access to recycle flexible plastic packaging.

The National Reach Study also found that despite the prevalence of access to flexible plastic recycling programs, consumers are not yet using this infrastructure to its full potential.

The flexible plastics value chain recently came together to form the Flexible Film Recycling Group (FFRG), which

is applying industry resources to boost consumer education.

To help increase awareness, the FFRG is working with the Sustainable Packaging Coalition to develop a Store Drop-off label specifically for flexible plastic packaging.

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## ELECTRONICS

### Gazelle CEO wins "Best Green Practices Award"

Gazelle, a company specializing in high-end consumer electronics trade-ins, announced its co-founder and CEO Israel Ganot has been selected as the winner of the Emerging Leader Award of the Boston Business Journal's 2012 Best Green Practices Awards. These awards honor companies and individuals who have worked to bring greater environmental sustainability to the workplace, their customers and communities. Ganot is the first recipient of the Emerging Leader award, which is the newest Best Green Practices Award, and will be honored at the 5th annual Green Business Summit in Boston on May 9.

Ganot said, "When we launched Gazelle, there weren't many options for responsibly disposing of your electronic gadgets beyond simply recycling, and even that wasn't happening as much as it should. Our reCommerce service was a new option and has become a key component of many consumers' purchase process. In Q4 2011 alone, more than 150,000 iPhones were traded in at Gazelle, enabling our customers to subsidize their upgrades and ensure their old iPhones stayed in use. This award is a testament to the value of and need for reCommerce."

Gazelle offers an easy way for people to trade in their gently-used smartphones and other high-end electronics for cash. Gazelle rewards people for giving the gadgets they no longer need a new life. To date, Gazelle has facilitated more than 900,000 gadget trade-ins.

### Youchange's electronic collection challenge a success in Arizona schools

YouChange Holdings Corp, a community for electronics collection, e-waste tracking and re-commerce, successfully closed its enrollment for the Earth Day Electronic Collection Challenge for Arizona Schools.

On February 1st, youchange launched its Electronic Collection Challenge in Arizona, with the goal of getting 30 schools to participate in its inaugural event centered on Earth Day 2012. This challenge was designed to help promote the proper disposal of unwanted electronics through the proprietary youchange Recycling Platform. Participating schools are competing for a \$2,500 grand prize in addition to the funds raised for the collection of unwanted electronics through youchange. The enrollment period for schools was February 1st through April 20th, but due to an overwhelming demand the enrollment period had to be closed on March 1st.

Youchange executive vice president, Derrick Mains said, "We had an assortment of public, private and charter schools representing more than 13,000 students from all over the Valley. There was so much interest that we literally had to close enrollment early to fulfill the demand. As a result of the program's

success, we have decided to make this collection drive an annual event. We are currently signing up schools for our Back to School contest that will run in the fall of 2012."

The youchange electronics collection program is designed to work within schools to help educate students on the challenges of electronic waste, all while helping schools raise needed funds. Youchange presents during a school assembly and delivers its e-waste message with the help of "Roger the Robot," the company's break dancing mascot.

Students are invited to help their school and the environment by collecting unwanted electronic gadgets from their own closets, and from family and friends. Each school collection drive runs for two weeks and includes a prize for the top class in addition to the grand prize. Items that are collected are processed through the youchange proprietary platform which focuses on the re-commerce, reuse and recycling of electronics. All personal information is removed and the items are either refurbished for resale, or if non-working, they are sent to a youchange certified recycling partner. The schools are paid by youchange whether the items sell or not.

*If you are not big enough to lose you are too small to win.*

### New policy in effect for federal government

Martha Johnson, a U.S. General Services Administrator (GSA), announced new guidelines banning all federal agencies from disposing of electronic waste in landfills. The policy will ensure that the federal government is leading by example and that all of its electronics are managed effectively in the disposal process. The policy will also direct electronics to certified recyclers, creating more opportunities for the e-waste industry.

The new policy directs federal agencies to reuse electronics to the maximum extent possible and then direct non-functioning products to certified e-waste recyclers. As electronics reach the end of their utility, asset managers will offer these products to be reused, or offer them for sale. Federal agencies are being banned from disposing of these materials in landfills or incinerators, and instead they will now send them to third-party certified e-waste recyclers – under R2 or eStewards – when reuse is not an option. Additionally, recipients of used government electronics are being encouraged to follow the same reuse and certified recycling standards.

The policy also incorporates transparency and accountability into this process by requiring federal agencies to track the volume and destination of electronics they send out for reuse and recycling and report that data online annually, which GSA will make available to the public on Data.gov.

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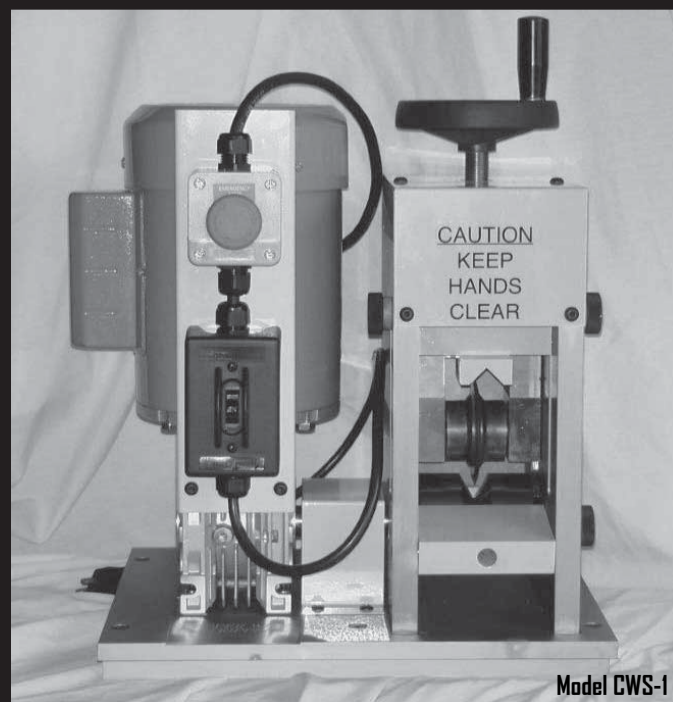
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## AUTOMOTIVE

# Novelis' first plant to be built in China

Novelis Inc. signed an agreement with the Changzhou National Hi-Tech District to build the company's first automotive sheet manufacturing facility in China. The agreement, which includes land use rights to more than 160 acres, was signed at a formal ceremony in Changzhou City in the Jiangsu Province of China.

Novelis is a producer of rolled aluminum for the global automotive market and a provider of aluminum sheet to the rapidly expanding Chinese automobile industry. The wholly owned, \$100 million plant will have a capacity of 120,000 metric tons per year and is expected to be commissioned for operation in late 2014.

Novelis expects demand for aluminum in the global automotive sector to grow at a compound annual rate of 25 percent over the next 5 years as auto manufacturers look for ways to make their vehicles more fuel efficient. The move into China will position Novelis as the only aluminum sheet supplier capable of serving automotive customers in all major markets of the world.

Novelis is an automotive sheet supplier in Europe where light-weight aluminum has become a popular alternative to steel for vehicle makers. To meet growing demand in North America, the company is expanding its footprint there with a \$200 million project to increase automotive sheet capacity by 200,000 tons per year.

Located in the heart of the Changzhou National Hi-Tech District, the new site is 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. Current Novelis auto sheet customers include Audi, BMW, Chrysler, Ferrari, Ford, GM, Hyundai, Jaguar, Land Rover, Mercedes-Benz, Porsche and Volvo, among others.

*At a planning meeting at my college, I congratulated a colleague on producing some superb student-guidance notes explaining how to combat plagiarism.*

*"How long did it take you to write them?" I asked.*

*"Not long," he said. "I copied them from another university's website."*



## "We're buying our 8th piece of Al-jon equipment to help us keep up with growth."

"After working with one 580CL for a year, we learned that having customers set up for a baler increased our production substantially," reports Don.

"Customer demand led to our purchase of a second 580. Even with the efficiency of one machine, we couldn't keep up with requests from new customers. When they discovered how efficient we were, they kept giving us more business. That's why we're buying a third 580," says Don.

"We tried another brand once," explains Lynn. "It cost a fortune for parts. Their service department was horrible and no one was helpful or cared about anything. Needless to say, we gathered our wits, embraced our Al-jon tradition and never looked back."

Over the past 16 years, Cascade has purchased eight Al-jon machines, which helped grow the business. "We never thought we would achieve what we have," states Lynn. "They have always gone over and above to make sure we had what we needed. If we have achieved some measure of success it was, in part, because of our relationship with the folks at Al-jon."

### Lynn & Don Roemer

Owners,  
Cascade Metal Recycling  
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**2002 OVERBUILT MODEL 10-HS**

Portable car crusher. Gas GM 5.7L, 14,000 hours in great shape. \$102,000



**2002 FUCHS MHL 360**

Good condition. Fresh motor and main pump. \$155,000  
 REDUCED! \$105,000



**2009 JOHN DEERE 644K**

Excellent condition, solid tires, 1,000 hours, car forks. \$195,000



**1998 MAC CRUSHER**

With automation. BIG 24' opening. In great condition \$95,000



**72 X 104 AUTO SHREDDER**

New spare rotor and extensive spare parts and two 4,000 HP motors. All electrical controls and control house. Steal it for \$1,950,000.



**1997 SIERRA 700-TON S/L/B**

17,000 hours, electric power. Runs well. \$440,000



**2006 MAC CRUSHER**

Excellent condition with 2,695 hours. \$119,000



**2004 MAC CRUSHER**

One owner. Immaculate, loaded. Low hours 4,400. \$110,000



**2008 E-Z METAL BALER**

In great condition with ONLY 2,800 hours. Very nice. \$128,000



**2002 AL-JON IMPACT V AUTO CRUSHER**

Immediately available. Great condition and very sharp, runs well. Only 6,000 hours. \$85,000



**1989 PETERBUILT 357 WITH 3306 CAT**

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# METALS

## Steel imports decline by 5 percent in February

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 2,689,000 net tons (NT) of steel in February, including 2,051,000 NT of finished steel (down 5 percent and 7 percent, respectively, from January final data).

Finished steel import market share in February was an estimated 23 percent. Import market share thru 2 months of this year is 23 percent, up from the 22 percent for full year 2012.

Key finished steel products with significant import increases in February 2012 compared to January are wire rods (up 77 percent), sheets and strip galvanized hot dipped (up 39 percent),

plates in coils (up 15 percent) and hot rolled bars (up 11 percent).

Major products with significant YTD import increases vs. the same period last year include plates in coils (up 85 percent), reinforcing bar (up 79 percent), sheet and strip all other metallic coated (up 81 percent), heavy structural shapes (up 65 percent) and sheet and strip galvanized hot dipped (up 65 percent).

In February, the largest volumes of finished steel imports from offshore were from South Korea (298,000, down 15 percent), Japan (162,000 NT, up 11 percent), Turkey (160,000 down 5 percent), India (109,000 NT, up 182 percent) and China (87,000, down 15 percent). For the first 2 months of 2012,

U.S. IMPORTS OF FINISHED STEEL MILL PRODUCTS BY COUNTRY OF ORIGIN (Thousands of Net Tons)					
	FEB 2012	JAN 2012	2012 Annual (est)	2011 Annual	% Change 2012 Annual vs. 2011
SOUTH KOREA	298	350	3,887	2,837	37.0%
JAPAN	162	146	1,846	1,477	25.0%
TURKEY	160	168	1,967	733	168.2%
INDIA	109	39	884	717	23.3%
CHINA	87	102	1,132	1,231	-8.1%
GERMANY	72	108	1,077	954	13.0%
TAIWAN	61	76	826	647	27.7%
All Others	1,103	1,216	13,909	13,237	5.1%
<b>TOTAL</b>	<b>2,051</b>	<b>2,204</b>	<b>25,529</b>	<b>21,835</b>	<b>16.9%</b>

the largest offshore suppliers were South Korea (648,000, up 62 percent), Turkey (328,000 NT, up 211 percent) and Japan (308,000 NT, up 19 percent).

## FeMET Initiative currently accepting proposals for Design and Curriculum Development Grants

The American Iron and Steel Institute (AISI) and the Association for Iron & Steel Technology (AIST) Foundation's "Ferrous Metallurgy Education Today," or FeMET Initiative, which is aimed at attracting top scholastic talent to the North American steel industry, is now accepting Design and Curriculum Development grant proposals for the 2012-2013 school year.

The FeMET Design Grant Program seeks innovative designs and solutions for industry-related issues. Student-professor teams are asked to address an

important industry concern or "challenge" by working collaboratively. Proposals must include the team's approach/methodology, including a budget and schedule. Proposals will be judged based on: technical approach and relation to the theme, probability of success and its potential benefits and team qualifications. The program may award a grant of up to \$50,000.

The theme for 2012 is "steel uses in renewable energy infrastructure." Teams should quantify the benefits arising out of the proposed technique(s) and the study.

Teams may propose to perform one or more comparative studies, as long as they remain within the budget parameters outlined in the proposal instructions.

Completed proposals must be submitted electronically, via PDF, to manufacturing@steel.org by May 28, 2012. Awardees will be announced July 28, 2012.

FeMET Curriculum Development Grant proposals are being solicited from professors of ferrous metallurgy or materials science at North American universities for funding of a curriculum development assistant to enhance or update industry curriculum in ferrous metallurgy programs. The program objective is to utilize students to assist in the editing and updating of textbooks and/or other course materials for use in ferrous metallurgy education, with an underlying objective to increase industry awareness within the academic community. The proposals must indicate how the professor will approach the task, including budget and schedule requirements.

Up to 5 university professors will be awarded \$5,000 per year to fund initiatives designed to enhance or update industry curriculum in ferrous metallurgy programs. The maximum allowable time for a Curriculum Development Grant is 5 years, beginning in the fall of 2012, for a total of \$25,000 per grant. The number of awards depends on funding availability.

Proposals will be evaluated according to the following criteria: direct benefits to the iron and steel industry and the ferrous metallurgy/materials science programs in North America, the plan's potential to increase the number of students studying metallurgy and materials science in North America and the expertise and capabilities of the professor to fulfill the program objective.

Completed proposals must be submitted electronically, via PDF, to lwharrey@aist.org by May 28, 2012. Awardees will be announced July 28, 2012.

*I ask people why they have deer heads on their walls. They always say because it's such a beautiful animal. There you go. I think my mother is attractive, but I have photographs of her.*

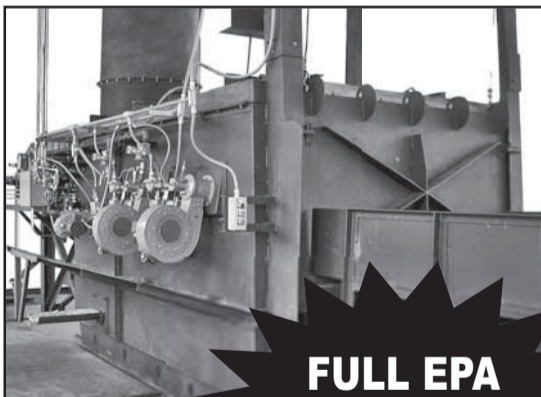
—Ellen Degeneres

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# METALS

## SCRAP metal recycling: Expanding in a recovering environment

Contributed by: **Doug Usifer, Managing Director, Headwaters MB**

Valued at over \$60 billion, the United States ferrous and nonferrous scrap metal recycling industry continues to grow, driven by a recovering U.S. economy, a growing Asian economy, and the growing demand for products manufactured with recycled materials. M&A has continued among the major players, including PSC Metals, Metalico, Nucor, Schnitzer and SIMS Metal Management.

Despite the volatile economic activity across the global markets, the outlook for the sector remains positive as the demand for scrap metal grows among both domestic and global consumers.

Steel is the most recycled material worldwide. In 2010 in the U.S., 74 million metric tons of scrap steel were processed by the scrap recycling industry, representing a U.S. ferrous scrap market value of over \$22 billion. The U.S. is the largest exporter in the world, shipping ferrous scrap to over 90 countries around the world including China, South Korea, Turkey, Taiwan and India, with Turkey being the largest importer of scrap steel.

Besides growth in steel demand, a large contributor to demand for steel scrap involves the rate at which producers use scrap steel to produce steel. China, now the world's largest steel producer, has contributed to the reduction in the global percentage of scrap steel used to produce steel, from 43.9 percent in 2000 to 37.5 percent in 2010.

However, China's scrap steel usage is expected to increase significantly by 2015 according to the country's five year plan.

Scrap steel is processed into a commodity grade material and used to produce over 75 percent of raw steel in the U.S. Some of this steel gets recycled again, further extending the economic and environmental benefits.

With the use of scrap steel, CO2 emissions are reduced by 58 percent versus steel produced from raw ore. Furthermore, manufacturing steel using scrap steel requires 60 percent less energy than producing it from iron ore.

Nonferrous metals do not lose their chemical or physical properties in the recycling process, allowing these metals to be recycled an infinite amount of times. In the U.S. alone, the value of the nonferrous scrap industry rose to almost \$40 billion, which is a 28 percent increase from 2008 to 2010.

The scrap recycling industry remains highly fragmented, with the top 20 companies controlling about 35 percent of the sector. In the U.S. there are well over 500 independent recyclers with more than 1,000 operating locations, and many of these are family operated.

The industry is characterized by high barriers to entry due to strict government regulations, the high price of capital equipment and the value and scarcity of land required to process scrap in some regions.

Larger recyclers are expanding, and consolidation is expected to con-

tinue in this fragmented setting. For example, SIMS Metal Management was particularly active globally in 2011, closing a total of eight acquisitions in various global locations. In April of 2011, Schnitzer purchased American Metal Group of Los Angeles, California. This acquisition enhanced Schnitzer's supply network in Northern California and expanded metal recycling operations in that region.

On November 28, 2011, PSC Metals (owned by Icahn Enterprises) put in a bid to acquire the remaining 90 percent it did not own of Commercial Metals, offering \$1.73 billion (total enterprise value \$2.91 billion). The offer price of \$15 per share from Icahn Enterprises LP represented a premium of 31 percent. This offer valued the equity at 7.0x LTM EBITDA. This offer has recently been formally withdrawn by Icahn after failing to win the level of support they had sought from other shareholders.

Improving economic conditions and demand from developing countries will continue to drive the growth in the scrap metal sector. Mergers and acquisitions will continue as producers seek to build scale and drive profitability. These trends are important to consider in maximizing the value of a business in this sector.

## Sting operation results in metal recycler's arrest

Sacramento, California police reported that after a three month undercover investigation into metal thefts in the city, six Sacramento recycling plant employees were arrested.

Sacramento police officers sold copper wire and other metals to several recycling centers in the area. California law requires recyclers must record a seller's name, driver's license number, obtain a photo and thumbprint as well as take photos of the metals being sold. The metals must be paid for three days after the sale.

"Over the three month period, the undercover police detectives observed a variety of violations," said police spokesperson Justin Eklund. "Everything from being paid cash immediately for metals and not accepting identification or accepting identification that was not the seller of the metal."

Eklund said some of the recyclers also used the ID numbers of seller who were not present at the transactions.

The alleged violations resulted in the arrest of Roman Michael Rudy, Bryan Drew Wilson, Luis Caro, Michael J. Wright, Gyan Kalwani and Shaun Kalwani.

Metal thieves in Sacramento have been stealing copper wire out of streetlights, blacking out up to 15 percent of the city's streetlights.

Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$353.00	\$343.00	\$366.00	\$387.00	\$436.00
#1 Bundles	per gross ton	354.00	347.00	362.00	388.00	420.00
Plate and Structural	per gross ton	375.00	358.00	361.00	392.00	436.00
#1 & 2 Mixed Steel	per gross ton	368.00	355.00	361.00	376.00	392.00
Shredder Bundles (tin)	per gross ton	314.00	286.00	292.00	318.00	332.00
Crushed Auto Bodies	per gross ton	307.00	284.00	279.00	321.00	333.00
Steel Turnings	per pound	216.00	153.00	214.00	198.00	294.00
#1 Copper	per pound	3.06	3.25	3.37	3.48	3.59
#2 Copper	per pound	3.07	3.07	3.22	3.37	3.47
Aluminum Cans	per pound	.56	.63	.77	.79	.79
Auto Radiators	per pound	1.78	1.84	2.13	2.18	2.23
Aluminum Core Radiators	per pound	.61	.60	.66	.73	.75
Heater Cores	per pound	1.67	1.72	1.78	1.70	1.84
Stainless Steel	per pound	.63	.65	.81	.83	.86

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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## METALS

### Covanta partners with Steinert for nonferrous recovery

Covanta Energy Corporation has formed a strategic alliance with Steinert US, Inc. for nonferrous metal recovery systems. Steinert will help provide equipment, spare parts, application engineering and planning support, and maintenance to the nonferrous recovery systems at Covanta's energy-from-waste (EfW) facilities in North America.

The new agreement will support Covanta's organic growth initiatives and sustainability efforts to increase the amount of metals that are recycled from its EfW facilities. In 2011, Covanta's 41

EfW facilities in North America recycled over 400,000 tons of ferrous and over 15,000 tons of nonferrous metal. That's the equivalent amount of steel that would be used to build five Golden Gate Bridges and in the production of over one billion aluminum beverage cans.

The agreement will support the implementation of new nonferrous systems at many Covanta facilities that currently do not have them and enhance systems that are already in place.

### Universal Stainless achieves AS 9100 Certification for North Jackson

Universal Stainless & Alloy Products, Inc. has achieved AS 9100 certification at its recently acquired North Jackson, Ohio facility. The location recently completed the AS 9100 Certifi-

cation audit, successfully meeting all requirements.

The company's Bridgeville, Dunkirk and Titusville facilities already hold the AS 9100 certification.

## SALVAGING Millions

by Ron Sturgeon  
Autosalvageconsultant.com

### Using the internet to build your business

**Is expanding your web presence too expensive?**

Most everyone I talk to doesn't want to spend much money to expand their web presence. I don't get it. If you opened a new trade area, you would buy a new delivery truck and hire an employee, right? If you opened a new location, you would spend thousands of dollars to get it up and going. Maybe even hundreds of thousands of dollars, depending on the market, right?

How is expanding your web presence any different?

It isn't. Your web presence is expanding your trade area globally. And expanding a web presence properly is one of most cost-effective ways to grow.

**Keeping the right mindset about your web presence**

Don't think of your web presence as an operating expense. Think of it as an investment in capturing a new segment of business. Investing in your web presence is not different from buying a second delivery truck or opening a new location.

Done right, the web presence will continue to bring you new revenue and new customers for years, so long as you continue to invest in it.

**What should a good website cost to develop and maintain?**

A well done website that is built to be search engine friendly will cost

at least \$3k but can easily run to \$6k.

Doing the initial SEO work to make the website easy for visitors to find – building basic backlinks, listing in directories, getting placement in local search, issuing press releases and many other items – will cost between \$5k and \$10k.

I can give you a free checklist of SEO items that should be part of the initial SEO.

Keeping the website up means adding new content based on analyzing traffic, issuing press releases, blogging, and building backlinks to your site, etc. Figure \$1k per month minimum, though it can be done in house for much less in only a few hours a day.

**Do your website wrong**

Design your business website without considering SEO and neglect the work to launch it properly and keep it up, and you will get average (or poor) results. You will conclude that the web doesn't produce revenue for small businesses like yours.

Do your website right, feed it, care for it, and you will find your website is better than your best salesperson and stays on the job 24-7.

If your website isn't getting results, email me your site's address and I will be glad to send you a free SEO score and some specific ways to make your site contribute more to your bottom line.

**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.*

### Memorial Fund accepts proposals for industry safety and health

The Steel Manufacturers Association (SMA) and the Association for Iron & Steel Technology (AIST) Foundation have partnered to commemorate the life and industry service of Don B. Daily by establishing the Don B. Daily Memorial Fund.

Daily was a compassionate man who truly cared about the safety of all employees working in the steel industry. His enduring mark on the steel industry of North America has been the establishment of numerous safety and health initiatives that have significantly improved the workplace.

Daily was the president of Gallatin Steel when he passed away unexpectedly in 2009. He was an ardent safety activist for the steel industry, and was an active participant in both AIST and the SMA, most recently serving as SMA chairman from 2006 to 2008.

The Don B. Daily Memorial Fund challenges North American university teams (students and professors) to submit proposals for grant funding in the theme area of safety and health aware-

ness within the steel manufacturing industry. The dual objective of the fund is to promote a safe workplace for the steel manufacturing industry, and to increase the number of students studying health and safety awareness relative to the manufacturing environment.

Richard Teets, president and COO – steel operations for Steel Dynamics Inc. and current chair of the Don B. Daily Memorial Fund Committee and SMA board member, stated, "We will never stop looking to improve the health and safety of our workforce in the steel industry, and this grant represents an opportunity for university professors and students to work directly with steel companies to find better solutions. The grant recipients from our 2011 inaugural year will present their safety projects at upcoming AIST and SMA events this year, and we anticipate more qualified proposals from academia as awareness of the funding opportunity increases."

Completed proposals must be submitted electronically, via e-mailed PDF to lwharrey@aist.org by June 30, 2012.

### Wise Metals builds new, expanded recycling facility

At a ceremony attended by Alabama Governor Robert Bentley, Retirement Systems of Alabama director Dr. David Bronner, and a host of local mayors, politicians and business leaders, Wise Metals Group cut the ribbon and dedicated a 74-acre recycling complex named "Element 13" – the largest single used beverage can melting facility in the world.

According to David D'Addario, Wise's chairman of the board, the new facility contains a furnace that will process 250,000 lbs. of aluminum, a delacquering kiln and a can shredding system that will shred 80,000 lbs. per hour. It increases Wise's overall melting capacity by 27 percent, and used beverage can melting capacity by 55 percent.

"To build this facility, we issued contracts to more than 92 separate contractors, 95 percent of which were Alabama companies," said D'Addario. "It took 250,000 man-hours to complete, and employed 228 local construction workers – all of it done with no lost time accidents or recordable injuries."

Even better, according to D'Addario, is that the facility has already added 43 new jobs.

Alabama Reclamation Operations, a division of Wise Metals Group, has been renamed "Element 13," for aluminum, the 13th element in the periodic chart of the elements. As part of one of the largest recycling companies in the world, this division reclaims used beverage containers and remelts them for use by Wise Alloys in the production of new aluminum sheet stock. That sheet stock is sold to beverage and food companies for use in the production of new aluminum cans and containers.

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## WASTE

### Idaho waste disposal site failed to disclose chemical releases

US Ecology Idaho, Inc., a hazardous waste disposal site in Grand View, Idaho, failed to report the on-site disposal of thousands of pounds of chemicals at its facility, according to a settlement with the U.S. Environmental Protection Agency (EPA). The company has corrected the violations of the Toxics Release Inventory Program and will pay a fine.

US Ecology Idaho, Inc. failed to report the on-site disposal of 20 chemicals and chemical categories during 2009.

As part of its hazardous waste disposal operations, the company disposed of more than 10,000 lbs. each of aluminum, arsenic, barium, cadmium, chromium, cobalt, copper and copper compounds, diethanolamine, ethylene glycol, manganese, methyl isobutyl

ketone, nickel, nitric acid, selenium, silver, thallium and zinc.

In addition, the company disposed of more than 100 lbs. of lead and lead compounds and more than 10 lbs. each of mercury and polychlorinated biphenyls.

Many of the chemicals disposed of at the facility have dangerous human health impacts and risks associated with them.

The company has submitted the required reports to the EPA and the State of Idaho to resolve the violations and agreed to pay a penalty of \$184,400.

Under the federal Toxics Release Inventory Program, companies that use certain toxic chemicals are required to report annually about releases, transfers and waste management activities involving toxic chemicals at their facilities.

### Veolia Environmental named partner in national clean fleets program

Veolia Environmental Services North America Corp. has joined the U.S. Department of Energy's (DOE) Clean Cities National Clean Fleets Partnership program. The objective of the partnership is to engage companies that operate large fleets to reduce overall petroleum consumption.

The initiative provides fleets with specialized resources so they can successfully incorporate alternative fuels and fuel-saving measures into their operations. The National Clean Fleets Partnership was

developed with input from fleet managers, industry representatives and the DOE's Clean Cities coordinators.

Veolia Environmental Services North America maintains a fleet of more than 5,000 trucks, heavy equipment and support vehicles across 28 states. As of 2012, Veolia operates 4 CNG fueling stations and over 100 compressed natural gas-powered refuse collection and support vehicles.

### Florida Legislature passes key solid waste legislation

The Florida Chapter of the National Solid Wastes Management Association (NSWMA) applauded the passage of two pieces of key solid waste legislation by the Florida Senate and House of Representatives during the 2012 legislative session. NSWMA is hopeful that the bills will be signed into law by Florida Governor Rick Scott.

The first bill supported by the NSWMA was H.B. 503 by Rep. Jimmy Patronis (R-Panama City). This bill is a major rewrite of the environmental permitting laws that includes language that will double the term of permit extensions for solid waste management facilities with leachate collection systems

from 10 to 20 years. Those facilities without leachate collection systems would be able to extend their permit terms from 5 to 10 years.

The other passed legislation on the Chapter's Session Priority list was HB 7003 by Rep. Steve Crisafulli (R-Merritt Island). This bill creates a statewide Environmental Resource Permitting system. This legislation will give consistency to the five DEP districts when it comes to the permitting process.

Each bill is consistent with legislative intent to require regulations to be effective in protecting the environment, not just burdensome to industry.

### SWACO accepts grant applications

It's time to start planting ideas for green projects in Franklin County. The Solid Waste Authority of Central Ohio (SWACO) is now accepting applications for the Authority's annual grant program. The deadline for applying is May 18.

Local governments, schools and school districts, as well as non-profits are eligible to submit their proposals. SWACO green grants are designed to assist projects that further SWACO's mission of reducing waste, increasing recycling and the growing of reuse efforts. The grants can range from several hundred dollars to several thousand. Recipients are required to provide a 25 percent match of cash or in-kind services.

"We annually see many innovative ideas from groups of all sizes across Franklin County," said SWACO Kristi Higginbotham. "We know that budgets are tight right now, so we are thrilled to be able to provide a little boost where we can."

Last year's grant recipients included The Ohio State University for recycling collection containers; The Furniture Bank of Central Ohio for a community awareness and educational program; and Westerville City Schools for a district-wide recycling program.

For a direct link to the grant page, view this article on [www.AmericanRecycler.com](http://www.AmericanRecycler.com).

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## WASTE

### Lockheed Martin achieves goals earlier than planned

Lockheed Martin announced that it has achieved a set of aggressive five-year global environmental goals a year ahead of schedule, as part of the company's Go Green commitment made in 2008.

The company met or exceeded its goals of reducing water use, waste-to-landfill and carbon emissions by 25 percent each since 2007 levels, while revenues rose 12 percent in the same period.

According to publicly available company data and the Carbon Disclosure Project, Lockheed Martin is leading major aerospace and defense companies, and many other large industrial manufacturers, in hitting these environmental performance targets.

•The company slashed water use by 25 percent, saving more than 1.5 billion gallons of water. This is equivalent to water consumed by 3.9 million average U.S. households every day. Contributing factors included upgrading

heating and cooling equipment, installing low-flow fixtures and forward-thinking facilities projects such as landscaping in Denver, Colorado in ways that reduce or eliminate the need for supplemental water from irrigation.

•The company cut its amount of waste-to-landfill by 39 percent, or 35 million lbs., compared to 2007, its baseline year. Examples of contributing efforts included comprehensive recycling programs at multiple U.S. facilities, efforts in Marietta, Georgia, that cut the amount of packaging required for major parts, and reducing cafeteria food waste at several facilities.

The company sliced carbon emissions by 30 percent through energy efficiency efforts with lighting and HVAC systems, the purchase of renewable solar and wind energy and innovations such as using wood waste to power its 1.6 million sq. ft. plant in Owego, New York. The total carbon reduction equals the annual greenhouse emissions from more than 85,000 passenger cars.

Additionally, as of the first quarter of 2012, 61 percent of the company's 150 energy savings projects identified in 2010 and 2011 are partially or fully implemented. Together these projects offer potential carbon emissions avoidance of nearly 100,000 metric tons over the next year.

### Eielson Air Force Base cited for mismanaged hazardous waste

Eielson Air Force Base in Fairbanks mismanaged hazardous waste at its facilities and failed to ensure that personnel handling hazardous waste had proper training, according to a settlement with the U.S. Environmental Protection Agency (EPA). The base agreed to pay a penalty for alleged violations of federal hazardous waste management laws, correct the violations and improve its waste management and training practices.

Eielson Air Force Base generates and stores thousands of pounds of hazardous waste each year from vehicle maintenance, aircraft maintenance and other industrial activities. The wastes included coatings containing chromium, a toxic chemical that can be carcinogenic; toxic and highly flammable paint solvents; and fluorescent light tubes containing mercury.

EPA inspectors found a series of hazardous waste violations at Eielson Air

Force Base during an inspection in 2010. The alleged violations include:

- Failure to determine if a waste was hazardous.
- Failure to have adequate training plan in place for facility workers handling hazardous waste.
- Improper labeling to clearly identify hazardous waste.
- Failure to conduct regular inspections of hazardous waste containers.
- Improper management of fluorescent lamps containing mercury.

The settlement requires the base to pay a penalty of \$45,700 and make improvements to its standard operating procedures and management controls in order to comply with federal hazardous waste laws.

The violations occurred under the Resource Conservation and Recovery Act.

### Pennsylvania DEP begins clean up of closed landfill in Erie County

The Department of Environmental Protection began remediation work at a former Currie Landfill site in Millcreek Township in Erie County, Pennsylvania.

Household and industrial waste that was disposed at the former landfill, some of which has settled in nearby Cascade Creek, will be consolidated and capped underground. The project will restore and

re-vegetate 600' of the creek, improving water quality and restoring lost habitat to the watershed that was contaminated by the waste.

"This once blighted property will soon be restored for the community to use again," DEP northwest regional director Kelly Burch said. "Local groups have leveraged more than \$870,000 in federal funds over the last 2 years to rehabilitate Cascade Creek, which runs through Frontier Park and into the Bay. This project supports those efforts and helps improve the health of the watershed."

Once the site is fully restored, 4 acres will be available for light industrial activity. Another 11 acres will be used for recreation.

The \$4.1 million clean up contract was awarded after a competitive bidding process to Berner Construction Inc. of Lancaster County. Remediation work is expected to be complete by June 2013. The project is funded by a portion of the Capital Stock and Franchise Tax.

*A young man saw an elderly couple sitting down to lunch at McDonald's. He noticed they had one meal and an extra drink cup. As he watched, the man carefully divided the hamburger in half, then counted out the fries until each had half. Then he poured half of the soft drink into the extra cup. The old man then began to eat, and his wife sat patiently watching.*

*The young man decided to ask if they would allow him to purchase another meal for them so that they didn't have to split theirs.*

*The old gentleman said, "Oh, no. We've been married 50 years and everything has always been and will always be shared, 50/50."*

*The young man then asked the wife if she was going to eat, and she replied, "It's his turn to be first with the teeth."*



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## INTERNATIONAL

## Canadian companies earn honors as environmental employers of the year

Canada's 2012 Environmental Employers of the Year (EEYA) have been named, with companies from across the country winning the top honors.

**The five winners are:**

- EDI Environmental Dynamics
- Langley Environmental Partners Society
- Inside Education
- Transfert Environment
- SIMS Recycling Solutions

The awards, presented by Environmental Careers Organization (ECO) Canada, recognize excellence in human resource practices from employers who

operate within Canada's environment industry. The awards showcase innovation in employee engagement that contributes to overall organizational success within an ever-growing industry.

The top honors are based on the results of a company employee satisfaction survey that is administered and analyzed by ECO Canada. A committee of human resource professionals from across Canada then evaluates both the organization's human resource practices and employee satisfaction results to distinguish the winners.

## Enbridge Acquires Nevada solar project from First Solar, Inc.

Enbridge Inc. has acquired a 100 percent interest in the 50 megawatt (MW) Silver State North photovoltaic project that First Solar has developed and constructed in Clark County, Nevada, near the community of Primm. Terms of the transaction were not disclosed.

Located 40 miles south of Las Vegas, Nevada, Silver State North was constructed under a fixed-price engineering, procurement and construction agreement with First Solar, and is expected to begin commercial operation by May 2012. First

Solar will provide operations and maintenance services to Enbridge under a long-term contract. NV Energy will purchase the energy output under a 25-year power purchase agreement approved in 2010 by the Public Utilities Commission of Nevada.

Silver State North, which will use First Solar's advanced thin film PV modules, will generate enough clean solar energy to serve the needs of about 9,000 average Nevada homes per year.

## BUSINESS BRIEFS

### Routeware hires Malone as new president and CEO

■ The board of directors of Routeware, Inc. has selected Tom Malone as the new president and chief executive officer (CEO) of the company.

Malone comes to Routeware with more than 27 years of technology executive experience in telecom and software companies, including Accero Inc., SRC Software, GST Telecom, and Cable and Wireless USA. Prior to joining Routeware, Malone has served as a management consultant to public and private companies in a variety of acquisition and leadership capacities.

According to Routeware chairman Pat Terrell, Malone will replace Robert DeKoning, who served the company for more than five years.

### Skelly joins Roll-Rite as transfer trailer specialist

■ John Skelly has joined Roll-Rite, LLC, as regional sales manager, transfer trailer market specialist.

Skelly will be responsible for Roll-Rite's automated tarp system sales for transfer trailers, plus regional sales in Ohio, Indiana, Illinois and Wisconsin. His assignment includes assisting distributors with sales and training, building relationships with current customers and creating new opportunities.

Skelly has over 21 years of experience throughout the U.S. and Canada with transfer and dump trailers, having served in sales management for four trailer manufacturers, and as a sales rep for a trailer distributor.

### Riverside Products appoints new president

■ Riverside Products has appointed Larry Hotaling the new president of the company.

Hotaling holds 25 years of executive level experience managing manufacturing companies on an international level to include serving as executive vice president of Flextronics Enclosure Systems, a \$30 billion company, division CEO and officer of Scotsman Industries, and executive vice president of international operations for Foster Refrigerator, as well as the division president of the Australian and Canadian Operations.

### Dirksen joins Vecoplan as senior engineer

■ Vecoplan LLC announced a major ramp-up of manufacturing capabilities at their High Point, North Carolina facility. As part of the initial stage of this process, Eduard Dirksen has joined Vecoplan LLC as a senior manufacturing engineer.

Transferred from Vecoplan AG, in Bad Marienberg Germany, Dirksen's new responsibilities will include overseeing the manufacturing cycle of products, serving as an interface between the production and procurement departments with respect to the purchase of materials and manufacturing schedules, auditing manufacturing capacities and overseeing product specifications. He will also supervise the installation and start up of new machinery and lean production cells being added to Vecoplan LLC's facility.



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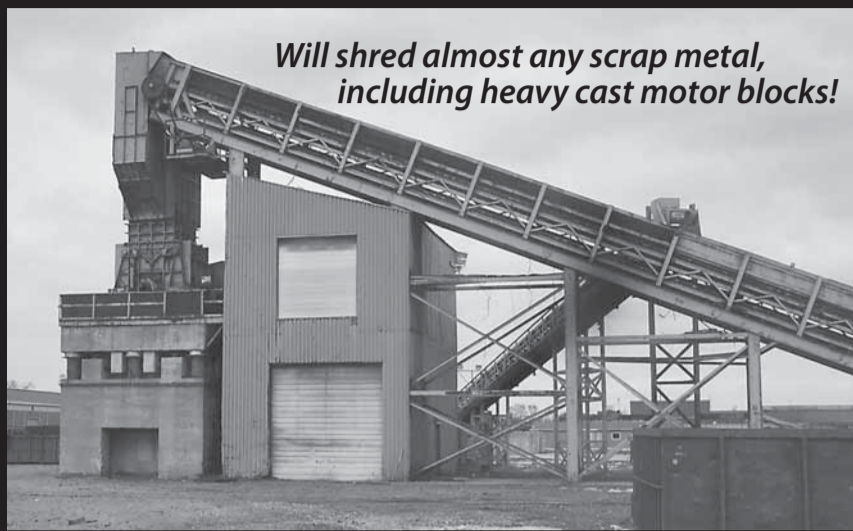


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## BUSINESS BRIEFS

### Water Rescue Services set for mobile recycling

■ Water Rescue Services Holdings, LLC, a Fort Worth, Texas-based provider of water treatment and recycling technology to the oil and gas industry, has received approval from the Railroad Commission of Texas to operate a mobile recycling system for the purpose of recycling produced and flow-back water created through hydraulic fracturing process during oil and gas operations.

“We believe our customers with active Texas drilling operations will enjoy a significant market advantage when utilizing Water Rescue’s mobile treatment technology to recycle water on site, thus lowering costs and saving time through this recycling process,” said Williams.

### ARCA names new VP of accounting and finance

■ Appliance Recycling Centers of America, Inc. reported that the company has promoted Jeffrey Cammerrer to the position of vice president of accounting and finance. Cammerrer had served as ARCA’s corporate controller since June 2008. In his new position, Cammerrer is responsible for the company’s accounting and financial operations, as well as corporate compliance.

Prior to joining ARCA, Cammerrer held the position of director of finance for Milestone AV Technologies. He has also held several accounting management positions, including vice president of accounting at Eschelon Telecom, Inc.

### E-Waste Systems completes acquisition

■ E-Waste Systems, Inc. has reached agreement with the stockholders of Tech Disposal, Inc. on the final earnout payment due in connection with EWSI’s acquisition of Tech Disposal, Inc., an electronic waste recycler and asset recovery specialist based in Columbus, Ohio, now named E-Waste Systems (Ohio), Inc.

The agreement includes a finalization of the amount of earnout payment and an agreement to convert the shares of preferred stock issued at the closing into common stock and a termination of the consulting agreement executed at the closing.

### Liberal becomes new transportation manager

■ Marco Liberal, former transportation manager for Sims Metal Management, has been named transportation manager of Upstate Shredding – Ben Weitsman, headquartered in Owego, New York.

As transportation manager of the company, he will manage all inbound and outbound scrap loads, fleet and fleet maintenance, and DOT regulations for all 11 locations.

A New Jersey native, Liberal began his scrap metal career with Sims in 2001 as a weigh master in Newark, New Jersey. In March 2006, Liberal became transportation manager for Sims. Over his 6 years in that position, he has been responsible for inbound and outbound truck freight from 14 intercompany locations in New York, New Jersey and Pennsylvania.

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## BUSINESS BRIEFS

### New Holland celebrates 40 years of skid steer business

■ New Holland Construction is celebrating 40 years of manufacturing skid steer loaders. The company's leadership in the skid steer loader category began in 1972.

Today, New Holland skid steer loaders are sold in 120 countries around the world through New Holland Construction and New Holland Agriculture dealer channels.

Since the introduction of the L35, New Holland Construction has produced more than 200,000 skid steer loaders for customers in the construction, landscaping and agricultural markets.

A special 40th anniversary logo has been created to commemorate this industry milestone. The logo will be prominently displayed at industry events in which New Holland Construction is participating this year.

### Franz Sunkler joins Untha as applications engineer

■ Untha shredding technology America, Inc. promoted Franz Sunkler to be the company's application engineer and customer service manager, working from their United States' offices in Hampton, New Hampshire. Untha America is a division of the Austrian-based Untha shredding technology GmbH.

Sunkler, who joined Untha in 2008, previously held the position of customer service manager at their corporate headquarters. He holds degrees in mechanical engineering and business, and has extensive experience providing customer service to clients around the globe, including Europe, Australia, Asia and Africa.

In his U.S. position, Sunkler will continue to provide maintenance support, technical support and assistance with upgrades and servicing, but as applications engineer, will also work closely with the sales team.

### SMART elects new leadership at conference

■ Lou Buty is the newly elected president of the Secondary Materials and Recycled Textiles Association (SMART). Buty and the other officers of the Association were elected to one year terms at SMART's annual member's conference held recently in San Diego, California.

Newly elected as SMART's vice president for 2012 is Jeff Pearl; Eric Stubin will serve as second vice president and Elliot Sheftel is the association's treasurer.

Newly elected members of the board of directors serving two year terms are Sandy Woyke, Joy Fenton and Elaine Birks-Mitchell. Larry Groipen remains on the board as immediate past president.

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## Events Calendar

### April 30th-May 3rd

**WasteExpo 2012.** Las Vegas Convention Center, Las Vegas, Nevada. 800-927-5007 • [www.wasteexpo.com](http://www.wasteexpo.com)

### May 7th-10th

**AISTech 2012, The Iron & Steel Technology Conference and Exposition.** Georgia World Congress Center, Atlanta, Georgia. 724-814-3000 • [www.aist.org](http://www.aist.org)

### May 20th-23rd

**Solid Waste & Recycling Conference with Trade Show.** The Sagamore, Bolton Landing, New York. 518-813-5126 • [www.nyfederation.org](http://www.nyfederation.org)

### June 4th-5th

**The 31st Annual Northeast Recycling Conference & Expo.** Radisson Hotel, Manchester, New Hampshire. 800-223-0150 • [www.nrta.net](http://www.nrta.net)

### June 19th-22nd

**Air & Waste Management Conference.** Henry B. Gonzalez Convention Center, San Antonio, Texas. 412-904-6003 • [www.awma.org](http://www.awma.org)

### August 14th-16th

**WASTECON.** Gaylord National Resort & Convention Center, Washington, DC. 240-494-2256 • [www.wastecon.org](http://www.wastecon.org)

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### ATLAS COPCO INTRODUCES HB 4100 HEAVY BREAKER

Atlas Copco's addition to its heavy hydraulic breaker line, the HB 4100, provides better performance and higher efficiency than the preceding model and weighs less. It has a service weight of 9,039 lbs., but is as powerful as heavier breakers.

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### BOMAG MILLING MACHINES FEATURE NEW ROTOR GEOMETRY

Bomag introduced new models of milling machines, the BM500/15 and the BM600/15, both featuring innovative rotor geometry to reduce vibration, increase service life and greatly simplify drum replacement. The new rotor geometry features optimally arranged teeth for uniform, low-vibration and precise cutting. Drum replacement has been simplified. The cutting width of the machines can be adjusted with the removal of just a few bolts. Whereas rotor replacement on other models typically takes 4 hours, the unique design of the BM500/15 and BM600/15 shortens the job to 30 minutes or less.



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### HACH DEBUTS FH950 PORTABLE VELOCITY FLOW METER

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### NORTHSHORE DEBUTS LARGEST ELECTRIC MATERIAL HANDLER

Northshore Manufacturing has released the Builtrite Model 6500-SE. Weighing 103,000 lbs., this handler is designed for industrial, heavy-duty cycle applications like scrap handling, solid waste handling, dock side handling of coal/grain/aggregate and high volume pulpwood applications.

Key features include: 67' horizontal reach, fabricated boom using high tensile steel; high pressure hydraulics and high flow for greater lift capacity and fast cycle times; 350 hp TEFC, 460 volt, three phase electric motor with soft start controller; and, 360° continuous rotation on a large pedestal base.



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### RMT EQUIPMENT INTRODUCES HELPER7-2 LOADER SCALE

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- (5) 2008-09 M322D MH (Rubber) 38' Reach, Hyd Cab, 12.5KW Gen, Grapple
- 2004 M322C MH (Rubber) 38' Reach, Hyd Cab, 15KW Gen, Grapple
- 2008 M325D LMH (Rubber) 51' Reach, Hyd Cab, 20KW Gen, Grapple
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- 2006 M325C MH (Rubber) 47' Reach, Hyd Cab, 15KW Gen, Grapple
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- 2001 A904C (Rubber) 38' Reach, Hyd Cab, 15KW Gen, Grapple
- (4) 2005-06 A924B (Rubber) 42' Reach, Hyd Cab, 15KW Gen, Grapple
- 2002 A924B (Rubber) 42' Reach, Hyd Cab, 15KW Gen, Grapple
- 2008 A934C HD (Rubber) 58' Reach, Hyd Cab, 20KW Gen, Grapple
- 2007 A934C (Rubber) 58' Reach, Hyd Cab, 20KW Gen, Grapple
- 2004 A934B (Rubber) 48' Reach, Hyd Cab, 20KW Gen, Grapple
- 2001 A934B (Rubber) 48' Reach, Hyd Cab, 20KW Gen, Grapple
- 1998 A932 (Rubber) 48' Reach, Hyd Cab, 17.5KW Gen, Grapple
- 2003 A954B HD (Rubber) 60' Reach, Hyd Cab, 30KW Gen, Grapple
- 1997 R964B EW (Crawler) 60' Reach, 56" Elev Cab, 15KW Gen, Grapple
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## EPA fines U.S. Virgin Islands health dept.

The United States Environmental Protection Agency (EPA) has found that the U.S. Virgin Islands (USVI) Department of Health violated federal law governing the handling and storage of hazardous waste at 2 of its facilities and has fined the agency \$68,000 for the violations.

EPA inspections at the facilities, the Old Municipal Facility in Charlotte Amalie, St. Thomas and 3500 Estate Richmond, Christiansted in St. Croix, found unlabeled and decaying containers of chemicals and pesticides on the properties. Many of the containers spilled and the USVI Department of Health failed to properly identify what types of waste were being stored.

In some instances, the hazardous chemicals had been kept on-site for over ten years in a state of neglect and decay. Among the hundreds of hazardous chemicals on-site were pyrethrin (a neurotoxin), chlorpyrifos (an insecticide) and calcium hypochlorite (a bleach) – all of which are toxic. Federal environmental law requires hazardous chemicals to be stored, handled and disposed of properly to safeguard public health and the environment.

“Pesticides are chemicals that must be handled and stored carefully and properly to protect the health of workers and the people who live near the facilities,” said Judith A. Enck, EPA Regional Administrator. “In this case, the U.S. Virgin Islands Department of Health repeatedly violated federal hazardous waste laws. Government, especially a health agency, should lead by example and ensure that pesticides and chemicals are properly handled.”

The Department of Health stores pesticide products to be used in the event of an outbreak of infectious disease. Among the violations, the Department of Health failed to determine which substances should be considered hazardous waste, as required by law, to

See ISLANDS FINED, Page 5

## Analysis of recent disasters shows vast majority of debris unrecycled

by MARK HENRICKS

mhenricks@americanrecycler.com

When a disaster such as a hurricane, fire, flood or tornado strikes, a community may be confronted with well over a year’s worth of debris to manage in a matter of hours. At the time the Northridge earthquake hit Los Angeles in 1994, for example, the Environmental Protection Agency (EPA) said a single local company processed 150 tons of construction and demolition (C&D) materials daily. After the earthquake, the city picked up as much as 10,000 tons of C&D materials per day. Ultimately, the disaster generated 7 million cu. yds. of debris.

Other disasters keep pace. The EPA said Hurricane Iniki in September 1992 created 5 million cu. yds. of debris in Kauai, Hawaii. Mecklenburg County, North Carolina, faced 2 million cu. yds. of green materials after Hurricane Hugo in September 1989. In 1991 in Florida, Hurricane Andrew generated 43 million cu. yds. of disaster debris just in Metro-Dade County. Hurricane Katrina in 2005 reportedly churned out 50 million tons wood debris alone.

Recycling debris offers potential benefits, from saving money and space compared to landfill disposal to generating energy and reducing pollution compared to open burning, which are the usual methods. The EPA noted that green materials such as trees and shrubs can be recycled into compost or mulch, concrete and asphalt can be crushed and used for road building, metal can be recycled by scrap metal dealers, brick can be sold intact for reuse or ground for landscaping applications and dirt left as sediment can be used in agriculture or as landfill cover.

The scale of the debris generated by major disasters makes this a major opportunity as well as a major problem. For instance, one estimate said the 50 million tons of Katrina debris could have provided enough wood to make a 10 percent mix with the fuel for every



Volunteers help clean up after tornados hit the Saint Louis area in 2011. Some tornados can generate over a year’s worth of waste and debris in a few terrible, destructive moments.

U.S. coal-fired power plant for a full year.

Unfortunately, the vast majority of the Katrina debris, as well as debris from other disasters, is not recycled despite decades of recyclers urging emergency management authorities to encourage and prepare for recycling instead of landfilling or burning wreck-

age left behind by storms, earthquakes, fires and other disasters.

“It’s an important topic and one we haven’t addressed very effectively,” said Kristiina Vogt, professor of Ecosystem Management at the University of Washington. “Most of the time, it just sits there.”

See DISASTERS, Page 7

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## A Letter from the Editor

Readers,

Welcome to the May 2012 edition of American Recycler. With WasteExpo taking place in Las Vegas this month, we thought it was time to turn our monthly Focus back to the wide world of waste disposal and management.

With the recent spate of natural disasters at home and abroad, author Mark Henricks explores the management of debris generated by destructive acts of nature. As things stand now, most of the debris generated by severe weather, fires, etc. goes unrecycled. This makes sense, considering that the main priority after such an event is to restore a semblance of normalcy to an otherwise terrible situation.

In some cases, over a year's worth of debris may be generated in a few powerful moments, and most of that is subsequently landfilled. Analysis of the material disposed of reveals that much of it could have great reuse/resale value if only someone would take the time to process it properly.

There are many barriers to effective storm debris recycling, though. Whoever manages to overcome those difficulties could tap into the unrealized value of that wasted debris, and preserve valuable space in landfills. A portable system could be used at disaster sites across the nation to help responsibly, and profitably clean up after Mother Nature's tantrums.

For those of you reading this at the Expo, be sure to swing by our booth (#12245). We'll have several drawings for free subscriptions, free ads and other valuable discounts. So don't be shy – we'd love to meet our readers and hear what you have to say about the paper, and what you hope to accomplish at the Expo.

Stop by and let us know what your company is up to. Who knows? If you have something interesting going on, perhaps we'll feature you in a future article!

Thanks for reading. Hopefully our paths cross in Las Vegas, but if not, we always welcome reader calls, e-mails and snail mail.

Until next month,



Dave Fournier  
Focus Section Editor  
david@americanrecycler.com

# San Joaquin Valley landfill to spend \$3.8 million to resolve CAA violations

The United States Attorney's Office for the Eastern District of California and the U.S. Environmental Protection Agency (EPA) announced that Forward Inc., of Manteca, has agreed to a settlement to resolve alleged violations of air pollution laws at its landfill in Manteca, California. The settlement requires Forward to spend approximately \$3.8 million to improve the landfill's gas collection and control system and to replace trucks in the landfill's fleet with less polluting vehicles. Forward has also agreed to pay a civil penalty of \$200,000, to be shared with the San Joaquin Valley Unified Air Pollution Control District, a co-plaintiff in the enforcement action against Forward.

"Landfill fires that deteriorate the air quality in San Joaquin Valley are unacceptable," said Jared Blumenfeld, EPA's regional administrator for the Pacific Southwest. "Our federal enforcement action requires the landfill to spend \$3.8 million to eliminate the risk of polluting fires and replace old diesel trucks with cleaner burning vehicles."

The settlement resolves allegations that Forward violated the Clean Air Act (CAA) by operating gas extraction

wells in the landfill's gas system in violation of the permit it had received from the District, and that Forward did not obtain permits required for equipment at the landfill. Federal law requires large landfills that are significant emitters of air pollution to install and operate systems that will collect gasses, such as air toxins, organic compounds and methane, out of the decomposing refuse and destroy them, rather than allowing them to escape into the atmosphere. Methane is a potent greenhouse gas. These systems are to be operated so that they draw and collect as much gas as possible without pulling air into the landfill that can start fires in the decomposing waste. The complaint alleged that Forward operated its gas system such that it caused multiple fires at the Manteca landfill.

The settlement requires Forward to overhaul the landfill's gas system by November 2012 to improve gas control and collection and to bring the facility back into compliance with CAA regulations governing landfills, which will require an investment of approximately \$1.7 million. The settlement also requires Forward to implement specific operations and maintenance actions to

minimize air intrusion and the likelihood of subsurface fires at the landfill.

The settlement will also benefit the San Joaquin Valley's air and its communities by reducing emissions of particulate matter (PM) and nitrogen oxide (NOx), which can cause and exacerbate health problems, haze, and smog. PM is a pollutant commonly associated with landfill fires, and Forward will reduce its PM emissions by replacing 19 diesel trucks it currently owns with cleaner burning vehicles by the end of 2013, at an estimated cost of \$2.1 million. This will directly reduce PM by 3.4 tons and NOx by 83.2 tons, and will result in further indirect reductions of PM, as NOx is a precursor of PM. The NOx reductions yield a double benefit, as NOx is also a precursor for ozone, and the San Joaquin Valley is an extreme non-attainment area for ozone, another pollutant linked to health problems and smog.

The consent decree, lodged in the U.S. District Court for the Eastern District of California, is subject to a 30-day public comment period and court approval and may be viewed at [www.justice.gov/enrd/Consent\\_Decrees.html](http://www.justice.gov/enrd/Consent_Decrees.html).

## Stericycle wins waste reduction award

Stericycle has received the 2011 Waste Reduction Award from the California Department of Resource Recycling and Recovery (CalRecycle).

The award recognizes Stericycle for meeting waste diversion goals. This activity assists the state in further reducing landfill waste volume,

and driving California toward zero-waste.

Stericycle leads the way in diminishing environmental impact internally and to hospitals utilizing its Sustainable Solutions® green services offered to hospitals. These services include the Sharps Management service using Bio Systems reusable containers and the Pharmaceutical Waste Compliance service.

California leads the nation with a 65 percent recycling rate for all materials. Recycling creates more than 140,000 of the state's green jobs. As California's leading authority on recycling, waste reduction and product reuse, CalRecycle's vision is to inspire and to challenge Californians to achieve the highest rates in the nation.

The long-term results are positive for everyone according to CalRecycle. The amount of waste sent to landfills is reduced, resources are conserved, and greenhouse gas emissions are reduced. As Waste Reduction Award winning businesses like Stericycle grow, tax revenue is generated and California jobs are created and sustained, according to CalRecycle.

State legislation is being drafted to require many businesses to implement recycling programs. At 13 Stericycle sites in 2011, nearly 1 million lbs. of waste material were reduced including: 408,000 lbs. of reusable plastic sharps containers; 84,000 lbs. of pallets; 16,000 lbs. of cardboard boxes; 43,000 pounds of corrugated cardboard; 429,000 lbs. of white paper; and more.

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## Nevada landfill to produce 3.2 megawatts of electricity

With the nation's need for renewable energy increasing, Waste Management (WM) opened northern Nevada's first and only gas-to-energy power plant at its Lockwood Landfill, which will use landfill gas produced onsite to generate electricity. The project will create enough renewable energy to power more than 1,800 homes. To commemorate the event, WM hosted a ribbon-cutting ceremony featuring Nevada Governor Brian Sandoval.

When organic materials, like food and yard waste, decompose, they create a gas comprised of about 55 percent methane. Collection wells placed all over the site collect this gas and then pipe it to the power plant, where it is used as a fuel to run two generators. The project, which went online in March, will offset the use of about 700 railcars' worth of coal.

When compared to fossil fuels, as with all other renewable sources of energy, including wind and solar, landfill gas has several benefits:

- It's endorsed by the Environmental Protection Agency (EPA).
- It's not dependent on other environmental factors, like wind or sunlight.
- It's reliable during peak energy hours.
- It's an economical alternative to other fuel sources, like natural gas.

In total, WM owns or operates 131 landfill gas-to-energy facilities across North America, producing enough electricity to power nearly 475,000 homes. Combined with the company's other renewable energy projects, Waste Management produces over 9 million megawatt hours of electricity per year, or enough for more than 1.1 million homes. Solar energy, according to 2009 trade association data, generates approximately 5 million megawatt hours annually.

"The Gas-To-Energy Facility at the Lockwood Landfill ensures that not even garbage will go to waste," said Justin Caporusso, Waste Management spokesperson. "By investing in landfill gas-to-energy, we are powering homes using the same waste that is left at the curb."

"Waste Management has been developing landfill gas-to-energy technology for over two decades, and we operate more of these facilities than any other company in the United States," said Paul Pabor, vice president of renewable energy for Waste Management. "We understand how landfills operate and how to use technology to extract the most value from the waste stream."

For additional information, view this article on [www.AmericanRecycler.com](http://www.AmericanRecycler.com).

## Veolia debuts new fleet of CNG powered trucks

Veolia ES Solid Waste, Inc., the solid waste division of Veolia Environmental Services North America (VESNA), announced the introduction of Indiana's first fleet of compressed natural gas (CNG) powered refuse trucks to its Evansville, Indiana service area. A ceremony attended by Mayor Lloyd Winnecke, Veolia executives and members of the Evansville community was held at the Veolia ES Solid Waste – Evansville location to celebrate the company's new fleet and CNG fueling station.

Indiana-based manufacturer Auto-car built the chassis for 20 of the trucks and Kenworth manufactured eight roll-off trucks for Veolia's new fleet. All will service over 24,000 residential and commercial customers across Vanderburgh, Warrick, Gibson, Posey, Spencer and Henderson counties in the greater Evansville area. Customers will notice the new trucks run approximately 15 percent (8 to 10 decibels) quieter than trucks powered with diesel engines. The trucks also come equipped with automated collection systems that increase efficiency, protect the health and safety of drivers, prolong the life of the truck and further reduce emissions.

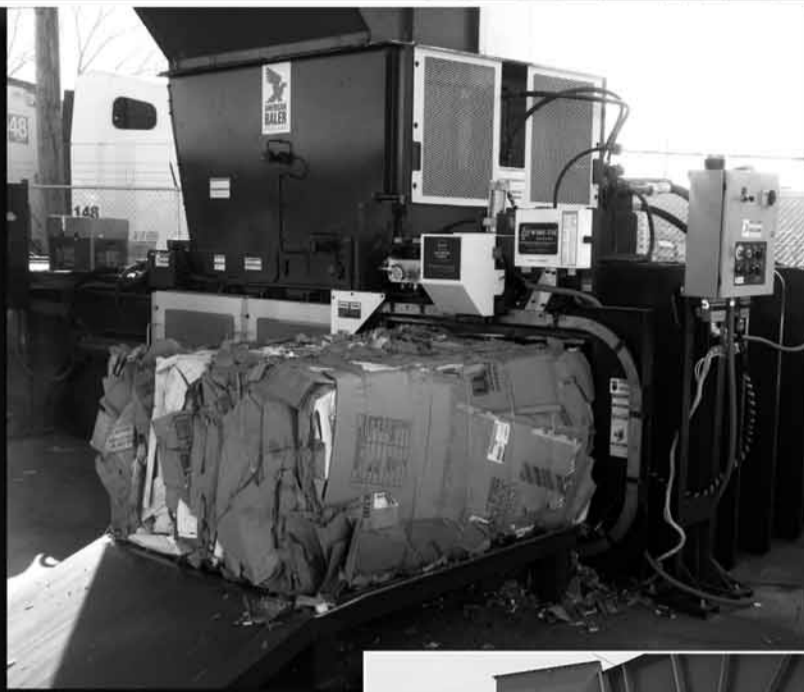
The CNG fueling station in Evansville utilizes time-fill fueling technology

that allows drivers to fuel their trucks during overnight hours, minimizing administrative and operational downtime. In addition, Veolia recently received a \$500,000 Clean Cities grant to support its investment in a new CNG fleet. The grant is supported by federal funds through the Indiana Office of Energy Development in support of the Alternative Fuel Vehicles (AFV) program.

CNG is one of the cleanest and most socially responsible alternative fuels available today, making the benefits of CNG from both an environmental and economic standpoint hard to ignore. Over 98 percent of CNG fuel resources are located in North America, which means there is a reduced carbon footprint associated with mining the resources and transporting the fuel to domestic locations as compared to foreign oil and offshore drilling. CNG also produces 29 percent less carbon dioxide than oil and is 90 percent cleaner than diesel in its natural state, thus reducing the trucks' overall operating impact on the environment.

As of 2012, Veolia operates 4 CNG fueling stations and over 100 CNG-powered refuse collection and support vehicles in North America.

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# EQUIPMENT SPOTLIGHT

## Waste Compactors

by MARY M. COX

maryc@americanrecycler.com

Compaction is the process of joining loose material by compression. When that material happens to be solid waste, there are many options available for those in the market for waste compaction solutions.



Cram-A-Lot

Cram-A-Lot offers a complete range of waste compactors to accommodate various waste types and volumes. Jason Lind, sales director, said, "We manufacture, deliver and install hundreds of compactors annually. We have over 70 models of compactors to choose from, including the stationary, self-contained, pre-crusher, vertical, apartment and special, space-saver compactor varieties. Our compactor charge chambers range in size from .5 cu. yd. to 15 cu. yds."

Lind said the two main reasons to use a compactor instead of a standard garbage container are to reduce the volume of the waste, which results in fewer hauls or pickups, and to prevent unauthorized access to waste, which discourages scavenging. "Our customers include recycling facilities, industrial manufacturing facilities, waste transfer stations, grocery stores, department stores, restaurants, hospitals and schools. When we're working with a customer to determine the compactor that is the best suited for their application, we first consider the waste type – is it dry or wet waste? Is it industrial waste, restaurant waste or municipal waste?"

"The type of waste will determine the style of compactor to be used. It is also important to understand the size and volume of waste generated by the user. Higher waste volume or bulky waste requires a larger compactor, which may need to be serviced by a

roll-off truck instead of a front-load or rear-load truck."

Cram-A-Lot's most popular compactor for industrial applications is their CC-02 stationary compactor. It features a 2 cubic yard charge chamber and an internal power unit with a 10 hp motor and 6" cylinder. Along with a variety of hoppers and electrical and hydraulic options, the CC-02 can be equipped with options such as a full enclosure, drive-on deck and walk-on deck. "Compactors are exposed to some of the harshest environments you can imagine, so it's important to select a product that is both reliable and durable. Cram-A-Lot compactors stand out from the crowd in this respect," said Lind.

According to sales vice president Phil Allen, "K-PAC is a leading U.S. manufacturer of trash compactors, focused on providing solutions to a difficult but essential service – high volume trash collection. Our goal is to make quality compactors and we're known as an innovator in design and quality features."

Allen said that K-PAC products offer the following benefits: the highest ram penetration in the industry, which includes excellent compaction ratios; the largest clear top openings on charge chambers in the industry; high definition manufacturing processes to ensure critical tolerances and longevity equipment and K-PAC is the only compactor manufacturer to use baked-on DuPont™ Imron® Elite paint.

Allen described some of K-PAC's most innovative and popular models:

The KP03 "Mini Series" apartment compactor is standard in the industry for chute-fed, high-rise buildings.

The Versa Pac is the most operator-friendly, vertical compactor available with a low loading height of only 42".

The KP2 "Stubby" offers true 2 cu. yd. compactor performance when space is at a premium.

The KP2SC is a self-contained, 2 cu. yd. compactor that is the envy of the industry.

The KP2HT is the best of K-PAC's KP2SC, made better by replacement of

the rear door with a hydraulic dumping compactor end.

K-PAC also provides a number of chute-fed and dock-feed options to make installations simpler, faster and more economical. K-PAC is sister company to New Way, one of the fastest growing refuse truck body manufacturers in the country. As a result, K-PAC benefits from over 30 years of refuse equipment manufacturing expertise and a distributor network of over 50 dealers across the nation. K-PAC is represented on the WASTE board, which develops industry safety standards on compactors and also contributes expertise to the development of the American National Safety Institute standards.

"The compactor industry has been affected by the struggling U.S. economy and we need to see improvement in the retail, manufacturing and construction sectors to see an improvement the compactor market. Another industry challenge is related to the growth of organics collection and how some big box stores have dumped a large number of used compactors on the market," Allen noted.

Dave Miller is project engineer at SSI Compaction Systems (dba SSI



K-PAC

Shredding Systems, Inc.). The company specializes in producing only pre-load waste compactors. "Our pre-load compactor is designed to compact waste within a bale chamber part of the compactor. The machine then ejects the compacted bale into a trailer or container for transport to the landfill. To see how the system works, a video at our website depicts the 'waste by rail' process," stated Miller.

SSI's larger models of pre-load compactors are designed to operate in transfer station operations of 1,000 tons per day or more. Miller explained that in most large transfer stations, 2 or

See SPOTLIGHT, Page 5

### Manufacturer List

#### Automated Equipment Mark Munson

800-309-5431  
www.autoequipllc.com

#### Baler and Compaction Equipment Drew Sigmund, Sr.

704-394-2230  
www.bacecorp.com

#### Cram-A-Lot

Jason Lind  
800-678-7320  
www.cram-a-lot.com

#### Harmony Enterprises, Inc.

Brenda Hoag  
800-658-2320  
www.harmony1.com

#### KenBay

Tom Meis  
973-543-3200  
www.kenbay.com

#### Komar Industries, Inc.

Mandy Howenstine  
614-836-2366  
www.komarindustries.com

#### K-PAC

Phil Allen  
712-652-3396  
www.newwaytrucks.com

#### Nedland Industries

Dave Nedland  
800-447-4925  
www.nedland.com

#### Sebright Products, Inc.

Jeannie Bolt  
800-253-0532  
www.sebrightproducts.com

#### SSI Compaction Systems

David Miller  
503-682-3633  
www.ssicompactors.com



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## Website helps find facilities

The Southern Waste Information eXchange, Inc. (SWIX) WasteMap website ([www.wastemap.org](http://www.wastemap.org)) gives Florida residents, and businesses across the state the opportunity to answer an ever-annoying question with regard to managing waste materials: "What can I do with this?" WasteMap Florida is actively compiling a list of facilities, ranging from recycling centers to household hazardous waste disposal facilities and everything in between. It's designed to make getting materials properly managed a whole lot more convenient.

With more than 700 facilities already on the website, users simply enter their zip code or address and a range of solid waste and recycling facilities within 25 miles are immediately displayed on an interactive map. Recycling centers are coded with a recycling symbol while yard waste and composting facilities feature a leaf. All the other facility types have their respective icons that can be toggled on and off depending on which type of facility the user is looking for.

The SWIX WasteMap Florida website is a useful tool to find up-to-date information on local facilities to recycle, dispose of, or even compost everyday materials. Residents who don't have curbside recycling or yard waste collection can use this website to find nearby facilities to serve them, including household hazardous waste materials like solvents and paint.

This one-stop website is continuously updated with detailed information and directions to all of the facilities.

For additional information, view this article on [www.AmericanRecycler.com](http://www.AmericanRecycler.com).

## EQ 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

06/12 Natural Gas Converters

07/12 Metal Shredders

08/12 Fleet Management Software

09/12 Size Reduction Equipment

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.

## Spotlight

■Continued from Page 4

more of these machines are used to ship up to 5 or 6 trailer loads per hour each, moving up to 150 tons of waste per hour. These products are designed to operate automatically or by radio controls located in the cab of the loading machine. The compactors are used in transfer station operations due to their ability to maximize payloads and minimize transportation costs. By building a bale of waste in the bale chamber, the trailers or containers used to transport the waste are made as light as possible as they aren't required to resist the forces of other waste compactors compacting directly into the trailers or containers. The pre-load compactors are also set on scales, so they are able to weigh the waste added to the compactor and build a bale to the exact weight allowed by the equipment to transport the waste. This maximizes the payload for each trailer or container and so reduces operational costs. This pays for the capital expense in the short term and saves transportation costs over the long term.

The machines are used worldwide, especially when long distances are required to transport waste. Miller said that units are operating in Canada, Hong Kong, Australia, Russia and the United States. In the U.S., they are primarily



SSI Compaction Systems

used with rail haul and long distance trucking, as required in the western part of the country.

"Over the years, we have developed our products for light scrap metal and mobile applications. In the last year, we have produced ten of these units for the waste industry on the west coast with installations from Northern Washington State to Los Angeles County Sanitary Districts. These custom compactors are self-contained and operate via electrical-

ly-driven hydraulic power units. Transportation is provided by specialized heavy equipment and to install and initiate operation usually takes about two to three weeks. Our pre-load compactors are at the top of the waste compactor food chain. They have proven to be the most efficient means of loading waste from transfer station operations and in minimizing transportation costs in a world with ever-increasing energy and manpower costs," Miller stated.

## Islands fined

■Continued from Page 1

ensure that they are managed properly. Correctly determining whether a waste meets the definition of hazardous waste is essential to determining how the waste must be managed. The Department of Health also failed to maintain and operate its facilities in a manner that minimized the possibility of a fire, explosion or accidental release of chemicals.

In 1998, the Department of Health asked the EPA for help in removing and properly disposing of outdated chemical products stored in one of its chemical storage buildings at the Old Municipal Facility in Charlotte Amalie, St. Thomas. The EPA responded, removed and properly disposed of the outdated chemicals and pesticides. Over 850 gallons of liquid pesticides and over 1,700 lbs. of solid pesticides were removed by the EPA. Subsequently, the EPA strongly recommended that the Department of Health develop and follow pesticide storage and handling regulations to avoid a repeat of the environmental hazard.

In 2008, the EPA conducted an inspection of the St. Thomas facility and also visited 3500 Estate Richmond in St. Croix. Once again, the EPA observed conditions of neglect and sloppy practices. Pesticide products were abandoned and had spilled throughout the facilities. The EPA reiterated the need for the development of and adherence to a pesticide storage and handling program.

On September 30, 2010, the EPA ordered the Department of Health to institute a program to properly manage

and dispose of pesticide products. Since the initial order, the department has properly removed all outdated chemicals, conducted an inventory of the remaining chemicals, properly stored them and created a pesticide storage and handling program. The

EPA conducted follow-up inspections in 2011 and confirmed that the remaining chemicals were properly stored. In March 2012, the EPA issued its final order in this case, requiring the Department of Health to pay a \$68,000 penalty.



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GO WITH THE LEADER.

## A Closer Look

by Donna Currie

### Sebright Products

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Before Sebright Products was born, the company existed as a service company that built power units for compactors. In 1984, the company started selling its own 2-yard compactors.

But compactors were a common enough product, so about five years later, Sebright developed and patented a machine for paper mills that could “de-liquify liquid” from the mill to bring it up to 50 percent solid content so it could be used for manufacturing cardboard.

In 2000, the company started selling a belt filter press made from stainless steel. Sebright said that the existing belt filter presses at that time were made from mild steel, but they were being used in wet and corrosive environments. A stainless steel unit was more durable. Another new product was the Xtractor – a machine that “de-liquified” cans and plastic containers. Sebright explained that in the beverage and dairy industries, products that were past their expiration date were returned to the manufacturer for disposal. Full containers couldn’t be recycled, so they needed to be emptied in order to reclaim the aluminum or plastic. The Xtractor removes and contains the liquid, leaving the solids clean enough to be recycled.

Another product is the densifier, which compacts polystyrene. Sebright said that the densification isn’t about recycling, but is about making shipping to the recycler less expensive. A truckload of polystyrene that might weigh 4,000 lbs. in its original state could weigh 40,000 lbs. after compacting.

Some of the large machines the company builds can take 400 to 500 hours to build – it’s not a fast process. And it’s not repetitive – the company designs and builds custom machinery to fit customers’ needs.

Sometimes those needs mean that machines need to be designed to fit into existing space inside a building. “You have to fit the cubby hole they give you,” Sebright said.

To help the company build the machines and to help customers visualize the machine in their facility, Sebright is working with 3-D software, but it is a long process. “You can’t scan a 2-D drawing and make it 3-D,” he said. “You have to draw it.” They’ve been working on making all their products available in the 3-D software for the past seven years, but Sebright feels that it’s worth it – both for the company and for its customers. “When they see a picture and recognize their building, it becomes real to them,” he said.

Since the company builds custom machinery, their customer base is very diversified, from paper mills to dairies to beverage companies to department stores. One interesting machine was built for use in the hazardous waste industry and had to be explosion-proof.

Another specialized machine was built for a baby food company – this time not for recycling, but to empty large bladder bags filled with mashed potatoes. The machine was more efficient at squeezing out all of the potatoes, and reduced the food waste by a significant percentage.

Sebright explained that there are actually two different companies in the Sebright family. Sebright Products manufactures compactors and densifiers, while Bright Technologies focuses on the manufacture of most of the stainless steel product lines. Sebright’s brother, Stuart, runs Bright Technologies.

The company employs 73 people, some of whom have worked there for their entire working lives. He said, “Our middle management has never worked anywhere else.” Many of those employees started working for the company right after high school and have been with the company ever since.

The company’s executive vice president, Lee Murray, has been with the company for 30 years. Another key player in the company is Sebright’s brother, Dave, who is the general manager and chief financial officer and has been with the company since 1983.

Sebright said that when he talks to a customer about what needs to be done, he’ll bring the concept to his team and ask them, “Could you build a machine like this?” and “ninety-nine and nine-tenths of the time” they come up with a way to build the machine the customer needs.

“That’s our best asset,” he said. “We’ve got some great people.”

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## Casella Waste Systems releases third quarter results

Casella Waste Systems, Inc., a regional vertically-integrated solid waste, recycling and resource management services company, reported financial results for its third quarter fiscal year 2012, and provided updated guidance for its 2012 fiscal year.

Highlights for the quarter included:

- Revenue growth of 2.6 percent over the same quarter last year.

- Overall solid waste pricing growth of 0.8 percent was primarily driven by collection pricing growth of 2.1 percent as a percentage of collection revenues.

- Adjusted EBITDA was \$22.2 million for the quarter, down \$0.2 million from same quarter last year.

For the quarter ended January 31, 2012, revenues were \$114.6 million, up \$3.0 million or 2.6 percent from the same quarter last year. Operating income was \$4.4 million for the quarter, down \$1.9 million from the same quarter last year. The company’s net loss attributable to common shareholders was (\$24.6) million, or (\$0.92) per common share for the quarter, compared to a net loss of (\$6.4) million, or (\$0.24) per share for the same quarter last year.

US GreenFiber LLC incurred a (\$10.2) million non-cash goodwill impairment charge during the quarter. The company’s 50 percent share of this charge was recorded as a (\$5.1) million pre-tax charge to loss from equity method investments. The company also recognized a (\$10.7) million

non-cash impairment of equity method investment charge during the quarter to write down the book value of its investment in US GreenFiber.

“Most of the core fundamentals of the business were positive in the quarter, with higher collection pricing, improving landfill volumes, and continued customer adoption of Zero-Sort® Recycling services driving higher recycling volumes,” said John W. Casella, chairman and CEO of Casella Waste Systems. “However, lower energy prices and weaker recycling commodity prices were a significant offset to our fundamental strengths.”

“As a result of the sharp drop in natural gas prices in the late fall, energy prices fell over \$30 per megawatt hour at our waste-to-energy facility, leading to a \$1.4 million decline in operating income year-over-year,” Casella said. “Recycling commodity prices also declined last quarter, with commodity prices down 13 percent year-over-year and down 25 percent from our second quarter to third quarter. While our hedging strategies worked as expected and absorbed much of the pricing pressure, the lower prices negatively impacted operating income by \$0.7 million year-over-year. Commodity prices have rebounded from the December lows, but we still expect pricing comparisons to remain negative for the next 2 to 3 quarters.”

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# EPA reaches agreement on NY landfill

The U.S. Environmental Protection Agency (EPA) has entered into an agreement with the General Electric Company and SI Group, Inc. (formerly Schenectady Chemical) to collect and properly dispose of contaminated ground water and liquid leaching from the Dewey Loeffel landfill in Nassau, New York that is threatening several nearby drinking water wells. The liquid seeping from the landfill, called leachate, and the ground water are contaminated with volatile organic compounds.

The EPA is currently collecting the contaminated liquid waste and sending it off-site for disposal. Under the agreement, General Electric and SI will take on the collection and removal of the waste and the construction of a treatment plant adjacent to the landfill, all with EPA oversight. The waste will continue to be sent off-site until the construction of the treatment plant is completed. Treated water from the new system will be discharged to surface water only after the EPA verifies that sampling data shows that the treatment system is working effectively and is capable of meeting stringent state discharge limits. GE and SI Group have agreed to reimburse EPA for certain costs, including an upfront payment of \$800,000.

The treatment system to be constructed will address potential threats from the contaminated ground water and leachate and community concerns about trucking the contaminated liquid off-site. A comprehensive long-term study is underway, which will identify permanent clean up options, called remedial actions, for the contaminated ground water, surface water and sediment associated with the site. The permanent clean up plan may include changes to the leachate collection, ground water extraction and treatment systems.

From 1952 until 1968, the site was used for the disposal of an estimated 46,000 tons of waste materials generated by several Capital District companies. The waste included industrial solvents, waste oils, polychlorinated biphenyls, scrap materials, sludge and solids. Volatile organic compounds and other hazardous substances have seeped out of the landfill and contaminated the ground water. PCBs have also moved downstream, causing contamination of sediment and several species of fish in and near Nassau Lake.

From 1980 until the site was added to the federal Superfund list in May 2011, numerous investigations and clean up actions were performed at the site under the New York State Department of Environmental Conservation's Superfund program. In the fall of 2011, the EPA took responsibility for operating ground water and leachate collection systems that had been installed by the state.

*Two small boys, not yet old enough to be in school, were talking at the zoo one day. "My name is Billy. What's yours?" asked the first boy. "Tommy," replied the second. "My daddy's an accountant. What does your daddy do for a living?" asked Billy. Tommy replied, "My daddy's a lawyer." "Honest?" asked Billy. "No, just the regular kind," replied Tommy.*

## Disasters

■Continued from Page 1

Numerous problems confound efforts to recycle disaster debris. The recyclables are usually heavily commingled, with trees and construction debris mixed in with appliances and sediment, including a sizable component of hazardous materials. Disasters are hard to predict, making it hard to plan in advance by, for instance, siting large recycling facilities where they're needed.

Post-disaster relief is often focused on simply clearing roads and rescuing inhabitants. "When disaster strikes," Vogt noted, "you just deal with the people." There is also a lack of good technology, such as self-contained portable systems for such jobs as gasifying woody debris or removing the paper from wallboard so it can be recycled as gypsum.

Some of this is starting to change. The EPA and Federal Emergency Management Association (FEMA) both provide direction about how to recycle debris to communities preparing for possible disasters. For instance, FEMA advises planners to create lists of recyclable materials as part of their post-disaster debris management plans. The agency emphasizes focusing on end-user markets that can employ recycled disaster debris, including identifying recyclable product buyers and even securing sales of recyclable materials prior to a disaster striking.

Vogt is working with the University of North Dakota on a portable system for turning woody and vegetative debris into methanol and diesel fuel. The liquid fuels are easier to burn for energy generation and other uses, and are more energy-dense than wood or similar materials, so they are more economical to ship by truck. Other developers are working on similarly portable gasification systems to transform organic debris into fuel for generating electricity.

None of these technologies is in full production yet, however. Vogt said that funding is the problem, and that it's hard to get investors to support a product that will only be used in the event of a sizable disaster. Still, however, on a national scale, disasters happen regularly. The March 2012 tornadoes in Indiana and Kentucky and the forest fires in Texas in 2011, while not on the scale of a hurricane or earthquake, all created sizable amounts of debris, especially compared to the normal quantities of materials generated in the smaller communities where these disasters struck.

Large or small, few communities can manage an effective recycling response when hit with a large disaster. What Vogt would like to see is some sort of federal initiative to help communities recycle what is left over after fire, flood, storm or earthquake. "We need to have a better national program," she said. "Instead of just putting money into giv-



The tornadoes in Joplin, Missouri were particularly devastating and created an enormous amount of unrecycled debris.

ing people trailers to live in, we should try to use that debris."

Some experiences indicate that disaster debris can effectively be recycled. The city of Los Angeles, for example, worked to recycle the Northridge earthquake debris because of its overriding recycling goals. After two months of negotiating with the city, FEMA, which was overseeing post-disaster debris management, allowed the city to recycle debris. Contractors began separate collections of wood, metal, dirt, concrete and asphalt and other recyclables.

Concrete and asphalt were crushed, mixed with dirt and sold for road-building sub-base. Dirt was used as landfill cover and soil amendment. Fine pieces of wood sold by the cubic yard for landscaping, while coarse pieces were used for cogeneration fuel or compost.

Ground up brick went to baseball infields or landscaping. Scrap metal dealers recycled metal materials.

The city's pilot test suggested a potential 82 percent recycling rate. Eventually almost 56 percent of all materials collected since the earthquake were recycled for less than disposal would have cost. With more recycling capacity, the city estimated, a recycling rate of over 86 percent was achievable.

While the Northridge earthquake happened 18 years ago, similar successes in recycling disaster debris since have been scarce. But with greater interest in recycling, it may be time for disasters to begin to contribute more to the field. "The climate's starting to change," Vogt said, "but it's been very difficult to get people even thinking of this."



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