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Proposed OSHA silica rules of concern to recycling industry

by MIKE BRESLIN

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Skirmish lines are forming between the Occupational Safety and Health Administration (OSHA) and the newly established Silica Coalition. The coalition comprises more than 20 industry associations with members who are routinely exposed to crystalline silica dust during construction, demolition and recycling.

Exposure to airborne silica dust, which causes silicosis, occurs in operations involving cutting, sawing, drilling and crushing of concrete, brick, stone and dry-wall. Silica is also used in products like asphalt shingles, and in other manufacturing operations using sand products. Many of these operations affect the recycling industry.

OSHA has issued a proposed rule, not a final rule, aimed at curbing silicosis, an incurable and progressive lung cancer, and chronic obstructive pulmonary and kidney disease. The proposal essentially aims to cut in half the current permissible exposure limits (PELs) for respirable crystalline silica to lower worker exposure. OSHA believes that current PEL levels kill hundreds of workers and sicken thousands.

OSHA currently enforces PELs for respirable crystalline silica in general industry, construction and shipyards. These PELs were adopted in 1971, shortly after OSHA was created, and have not been updated. The PEL for quartz (the most common form of crystalline silica) in general industry is a formula that is approximately equivalent to 100 micrograms per cubic meter of air as an 8 hour time-weighted average. The PEL for quartz in construction and shipyards is a formula based on a now-obsolete particle count sampling method that is approximately equivalent to 250 micrograms per cubic meter of air as an 8 hour time weighted average. The current PELs for two other forms of crystalline silica (cristobalite and tridymite) are one-half of the values for quartz in general industry.

OSHA is proposing a new PEL for respirable crystalline silica (quartz, cristobalite and tridymite) of 50 micrograms per cubic meter of air as an 8 hour time-weighted average in all industry sectors covered by the rule, a 50 percent reduction. OSHA is also proposing other elements including requirements for exposure assessment (job site monitoring), preferred methods for controlling exposure, respiratory protection, medical surveillance, hazard communication and recordkeeping.

In a statement issued on August 23 by Dr. David Michaels, the assistant secretary of labor said, "We are strongly encouraging the public to participate in the process of



Operator slab sawing wet with a diesel-powered walk-behind saw. Slab contains steel reinforcement. Courtesy of the Concrete Sawing & Drilling Association.

developing a final rule through submitting written comments and participating in public hearings that are scheduled to begin in Washington, DC in early March. Our process of obtaining public input will take many months, and we encourage and welcome the public to participate. OSHA's objective is to develop a standard that not only protects workers, but also makes sense in the workplace." This timeline, of course, will give the Silica Coalition and others ample opportunity to voice their concerns.

American Recycler News asked OSHA about the background of the proposed rules and the timetable for review and input. "OSHA held a series of stakeholder meetings in 1999 and 2000 to get input on the rulemaking," said the OSHA spokesperson. "Meetings for all industry sectors were held in Washington, Chicago, and San Francisco and a separate meeting for the construction sector was held in Atlanta. Following these stakeholder meetings, OSHA developed draft regulatory text and supporting materials for the rulemaking. Many of the recommendations resulted in changes to the proposed rule or underlying cost, benefit and economic analyses."

The deadline to submit written comments and testimony is January 27, 2014. Public hearings are scheduled to begin on March 18. The hearings are expected to continue for several weeks.

"I don't understand why they want to cut the levels in half," said Pat O'Brien,

executive director of the Concrete Sawing & Drilling Association. "Government statistics show that the deaths in construction attributable to silica have dropped dramatically. And it continues to get better every year. We want to protect workers, but at what price and what's achievable?"

O'Brien added, "OSHA currently enforces PELs for respirable crystalline silica in general industry, construction and shipyards. These PELs were adopted in 1971, but in 1968 the U.S. Centers for Disease Control and Prevention (CDC) and the National Institute of Occupational Safety and Health (NIOSH) data showed that silica in 1968 was a contributing cause in just under 1,200 deaths in the U.S. So maybe this was a good reason for introducing a new PEL at that time. However, by 1999, the number had dropped to less than 200. The most recent data, from 2007, shows that deaths from silica have now dropped to less than 100. I would say the original PEL level is working and has dramatically reduced the number of deaths in construction to fewer than 100. So why now cut the PEL level by 50 percent or even 75 percent? The data just doesn't support this action."

When asked about health risks, the OSHA spokesperson replied, "CDC data indicates that from 2006 through 2010, silicosis was listed as the underlying or a contributing cause of death on more than 600

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College football fans recycle 1.5 million pounds of material

From ballpark franks to french fries and water bottles to beverage cans, college football game days produce a large and valuable volume of recyclable material. Participants in the 2013 Game Day Challenge – the friendly recycling competition among U.S. colleges and universities – are seeking to increase recycling and composting at their games, to shrink their environmental footprint and broaden their sustainability efforts.

During this collegiate football season, more than 85 schools across the nation took on the challenge to collect cans and bottles, cardboard, food scraps and more from the tailgate areas, stadium seating and concessions during at least one home game. Schools measured and reported their results along with game attendance for ranking in five categories.

The winners of the 2013 Game Day Recycling Challenge are:

- Waste Minimization Champion (least amount of waste generated per attendee) – Central Connecticut State University;
- Diversion Rate Champion (greatest combined recycling and composting rate) – Ohio State University;
- Greenhouse Gas Reduction Champion (greenhouse gas emissions prevented by diverting waste) – Franklin College;
- Recycling Champion (greatest recycling per attendee) – Franklin College; and,
- Organics Reduction Champion (greatest organics recovery per attendee) – University of Akron.

More than just a competition, Game Day Challenge is an opportunity for par-

ticipating schools to demonstrate to students and team supporters that recycling and reducing waste are not activities limited to the home or office. Many participating schools deployed teams of volunteers to collect cans and bottles from pre-game tailgaters. Other schools engaged their mascots, set up zero-waste stations inside the stadiums to collect food scraps and more, or arranged for special recycling messages to be announced during the game.

University of Wisconsin-Madison's Office of Sustainability and Athletic Department led a team effort to make its Game Day Recycling Challenge a success.

The spotlight on recycling during University of Wisconsin-Madison's game included several scoreboard messages, speaker announcements and a video clip that encouraged the fans in attendance to recycle.

During this year's competition, 6.4 million fans at 88 participating schools kept nearly 1.5 million pounds of game-day waste out of landfills, which prevented approximately 1,980 metric tons of carbon dioxide from being released.

The 2013 Game Day Challenge was administered by the College & University Recycling Coalition, Keep America Beautiful and RecycleMania, Inc., with support from the U.S. Environmental Protection Agency.

Many schools will bring their recycling game from the football field to the basketball court this winter to compete in the Game Day Basketball category of the RecycleMania Tournament.

Dedication ceremony held at material recovery facility



Dedication ceremony for the Big Bear Disposal MRF. From the left to right: Gino Scopesi, general manager/owner, Big Bear Disposal; Frank Forbes, Big Bear Disposal; Jeff Mathieu, city manager, Big Bear Lake; Art Kazarian, Big Bear Disposal; supervisor James Ramos, 3rd District, County of San Bernardino; and Bill Jahn, Big Bear Lake councilman.

Local dignitaries, elected officials, civic leaders and representatives of Big Bear Disposal gathered for the dedication of the company's new material recovery facility (MRF). Located on 3.4 acres in the mountain resort area of Big Bear Lake, California, the Big Bear Disposal MRF processes up to 50 tons per day (TPD) of source-separated recyclables and select materials as well as receiving, processing and recycling up to 40 TPD of construction and demolition debris. The material processed

at the MRF originates from residential curbside and drop-off collection programs and commercial accounts. The 12,000 sq.ft. facility features a custom-made Enterprise Company elevated sorting line and baler, along with an office, employee breakroom, vehicle maintenance shop, truck wash and fuel station.

Big Bear Disposal has been providing collection and recycling services to the Big Bear area for over 25 years.

I was going to do another cow joke but it's just too udderly ridiculous to tell.

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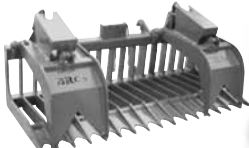
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Silica rules

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death certificates in the U.S., but most deaths from silicosis go undiagnosed. Also, many silica-related deaths are caused by chronic bronchitis, emphysema, lung cancer, kidney disease and other diseases. According to data from the Bureau of Labor Statistics, in 2010, more workers died from silicosis than from explosions, being caught in or crushed in collapsing materials (such as collapse of trenches and structures), or being caught in running equipment or machinery.”

While the Silica Coalition is interested in working with OSHA to improve worker safety, the Coalition believes that the current OSHA rules which were established in 1977 provide more than adequate protection for workers and that the proposed workplace air monitoring and other requirements are impractical and unnecessary.

O'Brien elaborated, "OSHA is trying to apply rules that generally don't work for our members. What is proposed today requires monitoring and a competent person to take air measurements to determine whether you need to do any protective measures to protect the workers on a job site. If someone is on a site for months at a time that might work, but we usually have one or two workers on a truck performing several jobs in a day. To have someone follow them around to take measurements and then get laboratory analysis does not make sense. The people would be on 20 jobs later before they got results.

"Because our operators are off and on jobs, that whole process would be very time consuming. Ten years ago when we realized that, we came up with a more simplified approach and put

together some engineering controls. We went out and tested all of our different operations, indoors and outdoors, and determined what the silica levels were and then put together a chart. The chart showed our operators doing different operations. For example, if someone is doing flat-sawing outside there isn't any PPE required and if it's inside they need a HEPA 100 filter. We tried to make it simple so that operators were protected.”

"A lot of OSHA people have no idea of what our operations are or how sawing is done. The majority of our operators use water and it isn't because of silica, but because of the life of the diamond blade. That has the additional benefit of reducing the silica in the air. We recorded those data points and had NIOSH people down to our training facility and they observed all of our operations. They said they had no problems with our approach to safety. The only time we would have a problem was indoors because you could see higher silica levels, but most of our operations are outdoors with good ventilation," said O'Brien.

We asked OSHA about these industry concerns, and their spokesperson said, "OSHA recognizes that silica exposures may vary from day to day and in different operations. The proposed rule provides alternatives for assessing worker exposures to silica, so that the employer can choose which option works best in their workplace. Where periodic exposure assessments are needed, the employer has the choice of either measuring worker exposures at specified intervals, or following a performance option that allows them to rely on objective data, such as air monitoring data from industry-wide surveys, to assess worker exposure.

"Employers, whose employees are involved in construction operations, including recycling, salvage, and waste industries whose workers perform construction operations, may benefit from additional flexibilities included in the proposed rule. Construction employers have the option of following OSHA's silica fact sheet on construction for a number of specific tasks. Table 1 details specific dust control measures and respiratory protection that employers can use to keep workers safe from silica exposures. Employers choosing to follow Table 1 would not be required to measure worker exposure to silica.”

"If an employer chooses to measure worker exposures to respirable crystalline silica rather than follow the performance option or Table 1, the employer would be responsible for lab and labor costs associated with air monitoring. The proposed rule addresses the minimum requirements for exposure monitoring to fulfill workers' rights to know about their exposure. Many responsible employers choose to conduct more monitoring than required by the proposed rule in order to better characterize worker exposures.”

"Importantly, the proposed rule focuses on exposures of individual employees. Personal air monitoring equipment, which workers wear on their clothing to measure exposures in their breathing zone, is routinely used to measure exposures as crews move through several locations in a day and where weather conditions may vary.”

"If the silica PEL is exceeded, employers must first use engineering controls (i.e., dust controls such as water sprays) and work practices (e.g., prohibiting dry sweeping) to reduce worker exposures. In cases where engineering controls and work practices are insufficient to reduce worker exposures below the PEL, respirators would be required to supplement these controls. The proposal requires that employers would have to offer medical surveillance to workers exposed above the PEL for 30 or more days per year," the OSHA spokesperson said.

The spokesperson added, "OSHA emphasizes that this is the beginning of an important process of public review and comment on the proposed rule. As OSHA works to develop a final rule, all comments, data and other documentary evidence submitted to the rulemaking docket for silica will be carefully reviewed and considered. OSHA is pleased to begin this dialogue, and the Agency looks forward to input and insight from industry partners to help make a final rule that is good for business and good for American workers.”

William Turley, executive director of the Concrete & Demolition Recycling Association commented on the proposed rules: "Obviously, it's very early in the process and they have put out suggested levels and are seeing what the reaction is from the industry, whether or not we can do it and if there is a way to negotiate. We feel that the proposed regulation could have a tremendous effect and perhaps be detrimental to the recycling of materials such as concrete and asphalt shingles. So we are involved in the process. I think OSHA doesn't want to hurt us on the recycling of these materials, but I'm not sure they understand everything that goes along

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Christie administration awards \$18.6 million in grants

New Jersey's municipalities and counties will receive more than \$18.6 million in state recycling grants to help implement and enhance local recycling efforts, Department of Environmental Protection (DEP) Commissioner Bob Martin announced.

The funds, based on 2011 recycling data, include \$13.1 million in recycling tonnage grants for cities and towns and \$5.5 million allocated to counties. The grants are being awarded through the state's Recycling Enhancement Act.

The recycling grant program is funded by a \$3 per ton surcharge on trash disposed of at solid waste facilities across the state. Distribution of grants this year is based on the recycling successes local governments demonstrated in 2011.

In 2011, New Jersey generated more than 9.9 million tons of municipal solid waste (MSW), more commonly known as trash or garbage that is generated from homes, schools, hospitals and businesses. The DEP's Bureau of Recycling and Planning documented the recycling of more than 3.9 million tons of material, leading New Jersey to a MSW recycling rate of 40 percent for the second consecutive year. Prior to that, the last time the state reached that benchmark rate was 1998.

The national MSW recycling rate in 2011, by comparison, was 34.7 percent, according to the U.S. Environmental Protection Agency.

Municipal governments, vital to the overall success of recycling, receive 60 percent of the money the fund generates to help them finance enhanced recycling outreach and compliance efforts. The balance is awarded to county solid waste management and household hazardous waste collection programs, county and state promotional efforts and recycling research.

Several New Jersey municipalities have been leaders in recycling, offering

exemplary programs that make recycling convenient for residents and get positive results. Some examples in 2011 include:

- Ridgewood, in Bergen County, had a municipal solid waste recycling rate of 77 percent in 2011, and a total recycling rate – including larger commercial, demolition, industrial waste – of 78 percent.

- Monroe, in Middlesex County, had a MSW rate of 59 percent and a total recycling rate of 72 percent.

- Randolph, in Morris County, achieved a 68 percent MSW recycling rate and a 73 percent total recycling rate.

- Cherry Hill, in Camden County, achieved a 49 percent a MSW recycling rate and a 63 percent total recycling rate.

- Manchester, in Ocean County, recorded an 83 percent total recycling rate to go with a 42 percent MSW recycling rate.

- Ocean Township, in Monmouth County, recorded an MSW recycling rate of 49 percent and a total recycling rate of 63 percent.

New Jersey became the first state to require statewide recycling in 1987 with passage of the Statewide Mandatory Source Separation and Recycling Act. Municipal solid waste, collected from households and small commercial establishments, includes paper, corrugated paper, glass, metal containers and plastics.

While the municipal/household solid waste recycling rate was 40 percent, total recycling of all forms of waste – including items such as construction debris and vegetative waste – in New Jersey was 59.7 percent in 2011. More than 12.6 million tons of the 21.1 million tons of solid waste generated in 2011 was recycled.

For a complete list of 2011 grant payouts, view this article on www.AmericanRecycler.com.

Missouri airport terminal expands recycling program

A comprehensive terminal and concourse recycling program at Lambert-St. Louis International Airport has already seen output double in the first six months since it was implemented earlier this year. Lambert expects to increase output even more with the roll out of dozens of combined single-stream recycling and trash containers for all public areas in the terminals, concourses and parking garages.

Lambert estimates it captured approximately 10 percent of recyclable waste from terminal and concourse operations prior to the launch of the new program. After 6 months, the airport is now capturing 20 percent of recyclable waste. Lambert's overall recycling rate is higher when other programs are factored in such as the recycling of construction waste, runway rehabilitation waste, equipment and scrap metal.

Lambert has worked with Republic Services, its waste services contractor, to

formulate its strategic recycling program. Beginning in March, the airport mapped out new locations and increased the amount of recycling dumpsters on the airside and non-public work areas associated with terminal operations. Lambert expanded collection from separating paper products and drink bottles to a single stream collection system to capture more recyclables such as cardboard, aluminum, paper products and plastics. Along with new equipment, the airport has focused on extensive training for airport staff, tenants and concessionaires.

The newest phase of the program is the roll out of new public containers which opens single stream recycling to the public for the first time at the airport. The new containers will accept more types of recycled materials (mixed recyclables or single stream) than previous containers which only accepted paper or plastic bottles.

Survey finds most Americans are proud to recycle

New survey data suggests that Americans are filled with pride as they fill their recycling bins, but are often left wanting when searching for recycling options while on the go.

More than 4 in 5 Americans (82 percent) say they feel a sense of pride when they recycle, according to a new survey conducted online in October by Harris Interactive and commissioned by the Environmental Industry Associations (EIA), the trade group representing those who protect the environment and public health by managing America's waste and recycling.

"Recycling participation rates have increased dramatically during the last few decades in the U.S., and that is an achievement that all Americans should celebrate," said Sharon H. Kneiss, president and CEO of EIA. "There is positive, pent-up desire to recycle even more in America. But we need more recycling options on our main streets and in our shopping malls, restaurants, theaters, airports, gas stations and other public spaces."

Most Americans do not indicate success at recycling while out about town, and more than 3 in 5 (62 percent) report feeling guilty every time they throw something away instead of recycling it, underscoring a pressing need for expanded options in public and leisure spaces.

Major findings of the survey include:

- An overwhelming majority of Americans – 82 percent – feel a sense of pride when they recycle, and 62 percent feel a sense of guilt when they toss a recyclable item in the trash.

- Americans are split on what they will do with a recyclable item if a recycling bin is not nearby. Nearly 58 percent say they will keep the item until they can recycle it, but 54 percent also admit they will sometimes trash a recyclable item if they cannot find a bin nearby.

- Most Americans will make an extra effort to recycle items outside their homes (74 percent), and those employed say they often have success recycling at work (58 percent).

- However, significantly fewer Americans are often successful recycling in other public settings, including when traveling for vacation or business (22 percent), while out shopping or walking along city streets (22 percent each) or when dining out (16 percent).

"Wherever there is a public trash can, there also should be a recycling bin within sight," said Anne Germain, EIA's waste and recycling technology director. "People think about recycling and inherently want to, but they need readily available recycling options for the habit to be a no-brainer."

Sam walked into his boss's office. "Sir, I'll be straight with you, I know the economy isn't great, but I have over three companies after me, and I would like to respectfully ask for a raise." After a few minutes of haggling the boss finally agreed to a 5 percent raise.

"By the way," asked the boss, "which three companies are after you?"
"The electric company, water company, and phone company," Sam replied.

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Community Recycling expands into Delaware

Delaware residents will now have more convenient choices and options available to recycle their gently used clothes, shoes, bags and belts with reuse in mind. Community Recycling (CR) is expanding operations into Delaware with CR Bins. CR has been providing local communities throughout the mid-Atlantic with clothing recycling bins, successfully diverting millions of pounds of material from landfills every year for over 13 years.

CR is a for-profit clothing recycler with a focus on reuse, transparency and connectivity. Local businesses serve as host sites and make recycling easy.

Every CR Bin has a phone number where a live person will answer or return your call. CR Bins are serviced regularly by full-time employees of CR, and are never sub-contracted out. All of the clothing collected for reuse is sold domestically to thrift shops around the country, or internationally to family owned businesses and markets that also offer affordable options.

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Recycling challenge raises \$133,695 for local charities

The aluminum beverage can industry raised \$133,695 for local charities by recycling 178,099 lbs. of cans, which equates to more than 5.7 million beverage cans, for the Can Manufacturers Institute's (CMI) Great American Can RoundUp Industry Challenge.

Ball Corporation scored first place in the annual competition by recycling nearly 50 percent of the entire amount collected – 88,473 lbs. of cans. Rexam and Crown Holdings came in second and third place, respectively.

The Great American Can RoundUp Industry Challenge is sponsored by CMI and held annually to raise awareness for the environmental benefits of recycling cans. The participating American can manufacturers and aluminum suppliers – Rexam, Ball Corporation, Crown Holdings, Novelis and Alcoa – engage their plant facilities to partner with local charities, schools and other organizations to collect and recycle used aluminum beverage cans. Proceeds from the recycled cans are then

donated to a charity of the company's choice.

"Cans are the most recycled beverage packaging in the world, and drive the most value in the recycling stream," said Michael Hranicka, president, Ball Metal Beverage Packaging Division, Americas.

Additional industry challenge winners are based on the lbs. recycled per capita by each participating member company facility. The top recycling per capita facilities were Rexam – Executive Office, Chicago, Illinois; Ball – Findlay, Ohio; and Rexam – Whitehouse, Ohio. Together, these facilities raised more than \$119,900 for local charities, non-profits and school programs.

CMI also sponsors other competitions under the Great American Can RoundUp umbrella in order to promote and engage recycling within various communities around the country. Raising environmental awareness about the importance of recycling cans is one of CMI's main initiatives.

Silica rules

■Continued from Page 4

with how they are processed. Respiratory personal protections equipment (PPE) is always offered to employees. Right now we are still evaluating what all of our members are doing"

"The concrete recycling industry fluctuates. It really depends on road work and is tied into government spending and how much is being done for infrastructure improvements. We can use recycled concrete as a base for anything from runways to subway stations to most common uses in roads. Recycled concrete is a better product than natural aggregate for a road base in many ways and usually less expensive so we have quite an advantage on that front," Turley concluded.

Mike Taylor, executive director of the National Demolition Association weighed in on the proposed rules: "The new regulations apparently have some very specific requirements for air monitoring and regulatory compliance which are significant and could have an impact on the construction economy in general. We are concerned about the proposed regulations, but we think we do a pretty good job with silica exposure and with our newly revised safety manual on compliance with the existing silica standards.

"The compliance requirements from an economic standpoint and potentially from an administrative work practice could be significant. It could be that the administration is sensitive to the fact that the economy is weak and we are coming out of the worst recession in 80 years and that new regs may have a detrimental effect of the construction and mining industries," said Taylor.

No doubt the details of the proposed rules for silica will be hotly debated among the Silica Coalition, other interested parties and OSHA. Hopefully, a resolution can be reached that does not impair economic growth and results in practical approaches to improved worker safety.

Now there are more overweight people in America than average-weight people. So overweight people are now average. Which means you've met your New Year's resolution.

—Jay Leno

Pennsylvania Recycling Markets Center opens exhibit



The Recycling Works! exhibit on display at the State Museum of Pennsylvania.

The Pennsylvania Recycling Markets Center (RMC) unveiled their exhibit, Recycling Works!, at The State Museum of Pennsylvania in Harrisburg. Also taking part was Keep Pennsylvania Beautiful (KPB) and the Pennsylvania Waste Industries Association (PWIA).

The exhibit, which will be on display at the museum through early January 2014, showcases Pennsylvania's economic development achievements through recycling. "Recycling is a key component of environmental protection," said acting DEP secretary Chris Abruzzo, who also participated in the ribbon-cutting ceremony.

The Recycling Works! exhibit displays Pennsylvania-manufactured recycled-content products; provides the history of recycled content product manufacturing and grassroots recycling in Pennsylvania; and showcases the advancements in recycling technology, including single-stream recycling.

The exhibit will be on display in Harrisburg and is included with a paid admission to the State Museum.

It is anticipated that the exhibit will make stops at additional museums across the Commonwealth during 2014.

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Free lessons to teach recycling awareness in elementary schools

The Secondary Materials and Recycled Textiles Association (SMART) launched its Recycling Rangers program for elementary school teachers. The goal of this year's educational program is to heighten student, teacher and family awareness of clothing and textile recycling by engaging more than 2,500 teachers in grades K-through-5 in its Recycling Rangers program. In addition to free lesson plans for their classrooms, teachers are also encouraged to promote recycling by organizing textile recycling drives at their schools.

The Recycling Rangers program builds on the highly successful 2012-13 academic year, "Wear It? Recycle It!" lesson plan program. During the "Wear It? Recycle It!" program, more than 300,000 students learned about clothing and textile recycling.

The Recycling Rangers program includes monthly activities for teachers and students that will be used to teach children about the positive impact of clothing and textile recycling. One of the goals of the program is to have teachers become Recycling Rangers and to have their school host a clothing and textile recycling program. SMART member companies are sponsoring 14 regions throughout the United States and are prepared to work

with the teachers and their schools to host a textile recycling drive.

Teachers who participate by hosting an event have the opportunity to win monthly prizes for their classrooms.

The grade-appropriate lesson plans can be downloaded at no cost by visiting www.themailbox.com/smart. The web site also allows teachers to sign up to host their own textile recycling drive when they become a Recycling Ranger.

"We are very excited to present the Recycling Rangers program to teachers and students. As the trade association of the clothing and textile recycling industry, SMART's goal is to reach more than 1 million students with the positive message of textile recycling by the end of 2015," said Jackie King, executive director of SMART. "Our member companies really stepped up by sponsoring regions throughout the United States to make it as easy as possible for teachers to host a clothing recycling event at their own school."

The Recycling Ranger program runs through March 2014. In addition to the Recycling Rangers website, teachers can learn more about the program in Learning magazine, via The Mailbox elementary school activities, in an e-newsletter, and on The Education Center's Facebook page, Twitter account and in various blogs.

Recycled content use proves important to U.S. consumers

A growing number of Americans say that recycling is important to them and significantly impacts their food and beverage purchasing decisions, according to new data commissioned by the Glass Packaging Institute (GPI), the association representing the North American manufacturers of glass containers.

In the 2013 study of consumers nationwide, over 75 percent said recycling is important to them. When asked whether or not using packaging that is

made with renewable or recycled resources influences their choice of brands, products or services, consumers overwhelmingly indicated that it did, with more than 65 percent stating that it was either an extremely or very positive influence over their choices.

The study, commissioned by GPI and other organizations, was conducted by EcoFocus Worldwide. The researchers polled over 4,000 nationally representative adults ages 18 to 65.

EPA proposes 2014 renewable fuel standards

The U.S. Environmental Protection Agency (EPA) proposed for public comment the levels of renewable fuels to be blended into gasoline and diesel as required by Congress under the Energy Independence and Security Act of 2007.

Developed with input from the U.S. Department of Energy and U.S. Department of Agriculture, the proposal seeks public input on annual volume requirements for renewable fuels in all motor vehicle gasoline and diesel produced or imported by the U.S. in 2014. The proposal seeks to put the Renewable Fuel Standard (RFS) program on a steady path forward – ensuring the continued long-term growth of the renewable fuel industry – while seeking input on different approaches to address the "E10 blend wall."

The proposal discusses a variety of approaches for setting the 2014 standards, and includes a number of production and consumption ranges for key categories of biofuel covered by the RFS program. The proposal seeks comment on a range of total renewable fuel volumes for 2014 and proposes a level within that range of 15.21 billion gallons.

Nearly all gasoline sold in the U.S. is now E10, which is fuel with up to 10 percent ethanol. Production of renewable fuels has been growing rapidly in recent years. At the same time, advances in vehicle fuel economy and other economic factors have pushed gasoline consumption far lower than what was expected when Congress passed the Renewable Fuel Standard in 2007. As a result, we are now at the E10 blend wall, the point at which the E10 fuel

pool is saturated with ethanol. If gasoline demand continues to decline, as currently forecast, continuing growth in the use of ethanol will require greater use of higher ethanol blends such as E15 and E85.

In 2010, EPA approved E15 for use in vehicles newer than model year 2001, and developed labeling rules to enable retailers to market E15. In addition, since 2011, USDA has made funding available through the Renewable Energy Assistance Program to support deployment of flex-fuel pumps that can dispense a range of ethanol blends. The 2014 proposal seeks input on what additional actions could be taken by government and industry to help overcome current market challenges, and to minimize the need for adjustments in the statutory renewable fuel volume requirements in the future. Looking forward, the proposal clearly indicates that growth in capacity for ethanol consumption would continuously be reflected in the standards set beyond 2014.

EPA looks forward to further engagement and additional information from stakeholders as the agency works in consultation with the Departments of Agriculture and Energy toward the development of a final rule.

The EPA is also seeking comment on petitions for a waiver of the renewable fuel standards that would apply in 2014. EPA expects that a determination on the substance of the petitions will be issued at the same time that EPA issues a final rule establishing the 2014 RFS.

Specifically, EPA is seeking comment on the following proposed volumes:

Category	Volume*	Range
Cellulosic biofuel	17 mill gal	8-30 million gallons
Biomass-based diesel	1.28 bill gal	1.28 billion gallons ^b
Advanced biofuel	2.20 bill gal	2.0-2.51 billion gallons
Renewable fuel	15.21 bill gal	15.00-15.52 billion gallons

*All volumes are ethanol-equivalent, except for biomass-based diesel which is actual
^bEPA is requesting comment on alternative approaches and higher volumes

ISRI's board of directors approves changes to the group's division structure

The Institute of Scrap Recycling Industries (ISRI) board of directors made two significant changes to the organization's governance: the creation of a new plastics division within the association and a change in the bylaws to allow members to join multiple commodity divisions. These changes were made to reflect the nature of today's recycling industry.

Prior to becoming a division, ISRI members concentrating on plastics recycling worked through an ad hoc plastics council. By elevating the group to division status, ISRI has created a formal infrastructure which allows the association to develop tools and materials for plastics recyclers. In addition, plastics recyclers will be represented with three seats on ISRI's board.

"The plastics recycling sector is one of the fastest growing segments of the recycling industry, presenting a great opportunity for the newly created Plastics Division to mitigate some of the barriers to recover plastics while offering visibility into the global supply chain," said Jonathan L. Cohen, president of Generated Materials Recovery and chair of ISRI's Plastics Division.

The other major change, permitting ISRI members to join multiple divisions, was made as more and more companies are handling multiple commodity streams and have a vested interest in the policy development, resources, and programming of more than one division.

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PAPER

AF&PA releases paper reports

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

Containerboard

Containerboard production increased 4.2 percent over September 2013, and was 1.4 percent higher than the same month last year. The month-over-month average daily production increased 0.9 percent. The containerboard operating rate for October 2013 increased 0.9 points from September 2013, from 93.8 percent to 94.7 percent.

Boxboard

Total boxboard production increased by 0.3 percent compared to October 2012, but decreased 0.2 percent from September. Unbleached Kraft Boxboard production decreased over the same month last year, and decreased compared to last month. Total Solid Bleached Boxboard & Liner production decreased compared to October 2012, and decreased compared to last month. The production of Recycled Boxboard increased compared to October 2012, and increased when compared to last month.

Kraft paper

Total Kraft paper shipments were 131.3 thousand tons, 3.6 percent higher compared to the prior month. Bleached Kraft paper shipments increased year-over-year 14.3 percent, but the 4.2 percent year-over-year decline in unbleached Kraft paper shipments was enough to bring overall Kraft paper shipments down 1.8 percent year-over-year.

Total month-end inventory decreased 24.5 percent compared to September 2013.

Printing-writing paper report

According to the report, total printing-writing paper shipments were down 1 percent in October compared to October 2012. Increases in year-over-year shipments of uncoated grades were offset by decreases in coated paper shipments.

Additional key findings:

•October coated free sheet (CFS) papers shipments decreased 4 percent compared to October 2012, with YTD shipments through October down 1 percent relative to 2012 levels. Exports of CFS in September were down 14 percent compared to September last year.

•Uncoated free sheet (UFS) paper shipments increased 3 percent in October to 773,400 tons, the highest level since March 2012. For the year, shipments are down 2 percent in 2013.

•October uncoated mechanical (UM) paper shipments were flat compared to 2012 and down 10 percent year-to-date compared to the same period in 2012. Imports of UFS through September increased 9 percent year over year.

•Coated mechanical (CM) shipments in October decreased 6 percent compared to October 2012. Shipments of CM are down 10 percent for the year in 2013. Exports of CM decreased 16 percent in September, down 21 percent year to date.

Rumpke now accepts cartons

Rumpke Consolidated Companies, headquartered in Ohio, reported that carton containers are now accepted in its residential and commercial recycling programs.

Types of carton containers now accepted include juice, milk, soy milk, soup, broth, egg substitute and wine cartons.

Rumpke partnered with the Carton Council on the project. The Council supplied \$454,525 in grant funding to help purchase an optical scanner that uses infrared technology to identify and sort

cartons from the recycling stream. In total Rumpke's new processing system includes six optical scanners, each with a price tag of nearly \$1 million.

Rumpke and the Carton Council will also partner in the coming months to promote the new acceptable items to the 4.5 million people served by Rumpke Recycling Cincinnati, one of North America's largest material recovery facilities. With this system, the Carton Council states that more than 600,000 households will have access carton recycling for the first time.



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WASTE

NSWMA opposes New York City Transfer Station Capacity Reduction Bill

Representatives of the National Solid Wastes Management Association (NSWMA) testified against proposed legislation (Intro. 1170) before the New York City Council Committee on Sanitation and Solid Waste Management. The bill proposes capping the percentage of the city's waste that can be handled in any one community district. The waste and recycling industry leaders described how the bill likely would result in the closure of several existing waste transfer stations that serve the city, as well as the loss of a number of good jobs at transfer stations for city residents.

In his testimony, NSWMA vice president for advocacy David Biderman described how Intro. 1170, if enacted, would increase the costs of disposing waste in the city. The waste and recycling industry projects that enacting this bill would increase tipping fees for New York businesses by as much as \$100 million annually. He added that it also sends the wrong message about investing in recycling and waste diversion infrastructure in New York. He called the legislation "irresponsible and unreasonable" and asked that city council members not

vote in favor of Intro. 1170, if it comes to a vote later this year.

Biderman stated, "The owners and operators of these facilities provide a vital service, comply with the numerous city laws and regulations governing their operations, and are working with the communities and neighborhoods in which they operate to reduce impacts."

NSWMA New York City members own and operate commercial waste collection, recycling, and disposal facilities. NSWMA's New York City Chapter includes many of the transfer stations targeted by this legislation, as well as about 50 carters who will be adversely impacted by Intro. 1170.

In their testimony, NSWMA members described how they are developing and investing in new technologies that will achieve many of the goals of the supporters of Intro. 1170. NSWMA members stated they are willing to enter into a dialogue with city officials and community groups to address issues relating to the transfer stations, including a responsible level of permitted capacity reduction.

New Jersey police charge man with illegal dumping

New Jersey State Park Police have charged a 31 year old Trenton man with illegal dumping in connection with two piles of roofing and other wastes that were found in Wharton State Forest during an annual regional clean up held by 4-wheel drive groups.

Selvin Lima was charged with illegal disposal of solid waste, a second-degree criminal offense punishable by a fine of up to \$10,000. The debris included roofing shingles, wood pallets, cardboard and plastic found along a dirt road off Route 206 in Sha-

mong Township, Burlington County. The dump site was located in Wharton State Forest, about two miles south of the Atsion Recreation Area.

The debris was found in two piles, each covering an area of about 10' by 15', by participants in the 12th Annual Pine Barrens 4-Wheel Drive Cleanup on October 27. The group hauled away the materials as part of its cleanup effort.

Lima was released after posting 10 percent of \$10,000 cash bail pending a court hearing.

Republic adds natural gas powered vehicles to fleet

Republic Services, Inc. deployed 56 Compressed Natural Gas (CNG) solid waste and recycling trucks to serve customers throughout the South Shore and South Coast of Massachusetts and Rhode Island. The new CNG fleet will replace older diesel powered trucks, and represents a significant local investment in cleaner, safer and more efficient vehicles.

Republic installed a natural gas fueling station to support its new fleet of CNG powered trucks in Fall River, Massachusetts. Natural gas fueling stations enable CNG trucks to fuel during non-peak hours, which has the added benefit of reduced energy consumption during the refueling process.

Republic also deployed 49 CNG solid waste and recycling trucks in the greater Houston area. Republic installed two natural gas fueling stations to support its CNG fleet in greater Houston.

According to the Environmental Protection Agency, each new CNG solid waste and recycling truck reduces



ozone-forming emissions by as much as 80 percent when compared to older diesel powered trucks. In addition, each new CNG truck deployed is equivalent to removing five passenger vehicles from local roads for one year, or to adding 600 mature trees into the local environment.

Republic operates a fleet of more than 1,400 CNG vehicles and 26 natural gas fueling stations nationwide. Approximately 50 percent of all Republic vehicles purchased in 2013 are powered by the domestic fuel source.

Waste Management posts earnings increase for Q3

Waste Management, Inc. disclosed financial results for its quarter ended September 30, 2013. Revenues for the third quarter of 2013 were \$3.62 billion compared with \$3.46 billion for the same 2012 period. Net income for the quarter was \$291 million, or \$0.62 per diluted share, compared with \$214 million, or \$0.46 per diluted share, for the third quarter of 2012, more than a 30 percent increase. Income from operations grew \$77 million and income from operations margin grew 150 basis points. Results in the third quarter of 2013 included approximately \$15 million of after-tax costs, primarily from asset impairments. Excluding these items, net income would have been \$306 million, or \$0.65 per diluted share, compared to adjusted earnings per diluted share of \$0.61 in the third quarter of 2012.

David P. Steiner, president and chief executive officer of Waste Management, commented, "We had a very strong third quarter, earning \$0.65 per share, as adjusted. Despite continued headwinds confronting our recycling and waste-to-energy businesses, our overall as-adjusted income from operations grew \$33 million and the overall income from operations margin grew 20 basis points. The results were even more impressive in our tradi-

tional solid waste business, where income from operations grew \$71 million and our income from operations margin grew 120 basis points.

"These strong results were driven by our continued focus on increasing internal revenue growth from yield and controlling costs. In the third quarter, collection and disposal yield was 2.3 percent, the fifth quarter of sequential improvement, and nearly triple the yield we saw in the third quarter of 2012. SG&A expenses as a percentage of revenue improved to 9.6 percent in the quarter, despite a year-over-year negative change of \$50 million related to accruals for our annual incentive program.

Key highlights include:

- Revenue increased by 4.6 percent, or \$160 million, from the prior year period, primarily from acquisitions and internal revenue growth from yield.

- Internal revenue growth from yield for collection and disposal operations was 2.3 percent, compared to 0.8 percent in the third quarter of 2012.

- Core price, which consists of price increases and fees, other than the Company's fuel surcharge, net of rollbacks, was 3.9 percent, compared with 2.3 percent in the third quarter of 2012.

Galbreath expands dealer network

Galbreath, a manufacturer of hoists, container handlers, and trailers, has expanded its dealer network, naming Joe Johnson Equipment (JJE) as one of its Canadian distributors. JJE will carry the entire Galbreath product assortment.

JJE will service the eastern half of Canada, from Manitoba to Newfound-

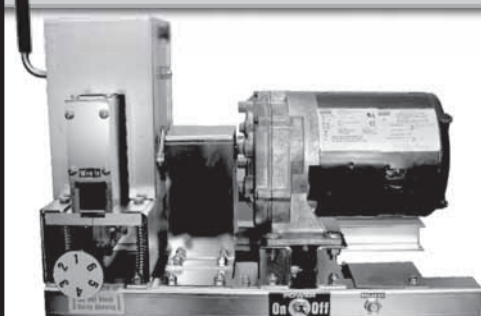
land, extensively expanding Galbreath's current Canadian coverage.

JJE sells, rents and services both new and pre-owned equipment to municipalities and contractors across Canada and the U.S., as well as in Chile.

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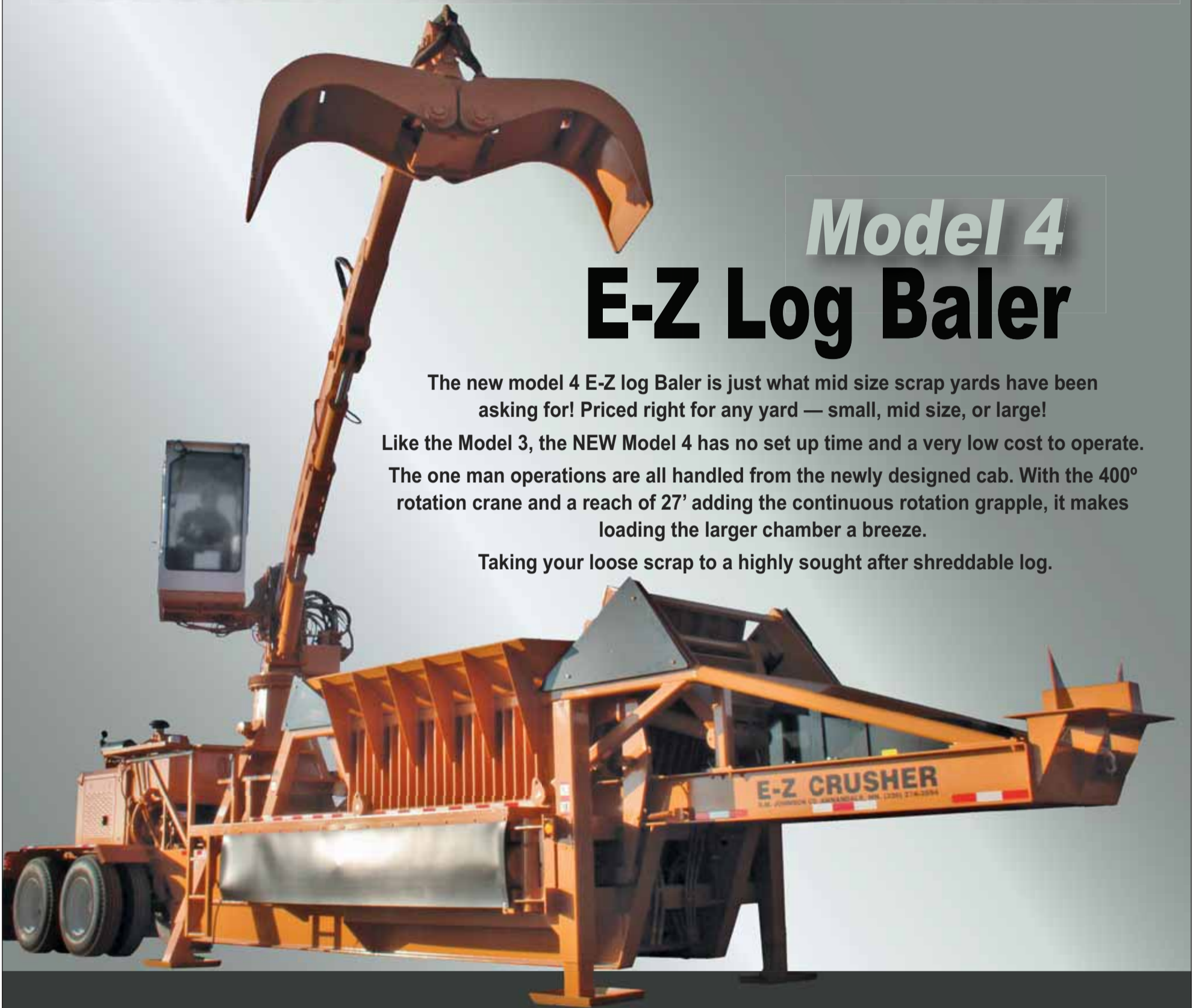
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1999 Sierra 500 ton shear/logger/baler. \$127,500



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METALS

Can recycling rate hits 67 percent

The U.S. continued its decade-long upward trend of aluminum can recycling in 2012 with a rate of 67 percent, according to data released by the Aluminum Association, Can Manufacturers Institute (CMI) and Institute of Scrap Recycling Industries (ISRI). This is the highest recycling rate since the early 1990s and the second highest rate reported since the survey began in 1972. The new rate marks progress toward the industry's goal of 75 percent recycling by 2015.

The new rate means that in 2012, the aluminum can industry recycled some 62 billion domestic and imported cans while shipping 92 billion cans in the U.S. The energy saved from this recycling equaled 19 million barrels of crude oil which could fuel more than 1.7 million cars for a full year.

The increase in the industry's recycling rate in recent years has been driven largely by the addition of cans imported into the U.S. Because of the closed loop aspect of aluminum can recycling, and aluminum's significantly higher inherent value in the recycling stream, used cans easily cross borders and are extremely attractive for recycling. In fact, U.S. recyclers often import cans from Mexico, Canada, Saudi Arabia, Poland and other countries. In 2012 alone, the industry imported and recycled close to 13 billion cans, nearly double the amount imported just 5 years ago. The increased recycling rate is reflective of this dynamic.

"The increased recycling rate for aluminum cans is representative of the growth in the scrap recycling industry as a whole," said Robin Wiener, president of the Insti-

tute of Scrap Recycling Industries. "The U.S. scrap recycling industry grew from \$54 billion in sales in 2009 to more than \$90 billion in 2012, while also adding more than 15,000 jobs since the beginning of 2010. As the recycling industry continues to expand, we also hope to see a continued increase in the aluminum can recycling rate."

It takes just 5 percent of the energy to produce recycled aluminum versus primary aluminum. At the same time, nearly \$900 million worth of aluminum cans don't make it to the recycling bin each year and instead end up in landfills. These landfilled cans, which could otherwise have been recycled and made into new cans, reflect a significant loss to the economy, society through lost jobs, and the environment.

ScrapSource named as a fast growing company

SMU Cox School of Business, Caruth Institute for Entrepreneurship, declared ScrapSource as one of the fastest growing, privately held companies in the North Texas area. ScrapSource is a boutique scrap management and consulting firm that provides revenue-enhancing solutions for companies that generate scrap metal.

Co-founded by the Caruth Institute for Entrepreneurship in 1990, the Dallas 100 Awards is an annual event that identifies and honors the 100 fastest-growing privately held companies in the North Texas area. To qualify, a company must meet criteria including its three-year sales history which reflects growth during the three-year sales period, have credit and character satisfactory to the Dallas 100.

Thalheimer Brothers acquires Ansam

Thalheimer Brothers has acquired Ansam Metals. Headquartered in Baltimore, Maryland, Ansam is a processor of nonferrous scrap metal. Founded in 1968, Ansam has been led by a team with deep expertise in these metals. Following this acquisition, Ansam will continue to operate as a division within Thalheimer and maintain operations from its Baltimore location.

Import market share 22 percent in November

Based on the Commerce Department's most recent Steel Import Monitoring and Analysis (SIMA) data, the American Iron and Steel Institute (AISI) reported that steel import permit applications for the month of November total 2,541,000 net tons (NT). For the first 11 months of 2013 (including November SIMA and October preliminary), total and finished steel imports were 29,550,000 NT and 22,954,000 NT, respectively. The estimated finished steel import market share in November was 22 percent and is 23 percent year-to-date (YTD).

Finished steel imports with large increases in November permits vs. the October preliminary included standard rails (up 238 percent), light shapes bars (up 111 percent) and line pipe (up 27 percent). Products with significant year-to-date (YTD) increases vs. the same period in 2012 include reinforcing bars (up 21 percent), heavy structural shapes (up 20 percent), standard rails (up 16 percent), hot rolled bars (up 14 percent) and sheet and strip all other metallic coatings (up 12 percent).

In November, the largest finished steel import permit applications for off-

shore countries were for South Korea (317,000 NT, down 14 percent from October preliminary), Japan (161,000 NT up 28 percent), China (157,000 NT, down 27 percent), Germany (105,000 NT, no change) and The Netherlands (67,000 NT, down 18 percent).

Through the first eleven months of 2013, the largest offshore suppliers were South Korea (3,459,000 NT, down 1 percent from the same period in 2012), Japan (1,768,000 NT, down 4 percent) and China (1,750,000 NT, up 18 percent).



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METALS

Ben Weitsman upgrades with new shredder in Albany

A new metal shredder and full downstream has been purchased and will be up and running at the new Ben Weitsman scrap yard and port facility in Albany, New York, in April, 2014, company owner Adam Weitsman announced. The new project represents a total investment of \$25 million and will be funded privately through the company – no government assistance will be requested.

“We’ve spent years building our metals recycling network in New York and Pennsylvania into a highly efficient system,” Weitsman, owner of Upstate Shredding-Ben Weitsman, said. “We have ambitious goals for our Albany yard, and this shredder is the next step in putting that plan of expansion into motion.”

The company expects to spend several million dollars in the region over the next several years to create and develop a new recycling network of yards in the Capital region and surrounding states to feed the new shredder.

“It took us years to build up our feeder yard system around our Owego shredder and this new shredding location, in addition to our shredder in New Castle which will be operational in the second quarter of 2014, will be the launching pad of the next phase of our expansion,” Weitsman said. “We’ve examined the markets surrounding the Albany facility, and we plan to make several new acquisitions of scrap yards

in the region to develop the network of yards to feed the Albany shredder.”

While smaller than the company’s flagship shredder in Owego, New York, the new high-powered auto shredder and downstream built by the Wendt Corporation of Buffalo, New York, includes several technological advances to ensure maximum recycling value. These systems include separation technologies to recover wire, plastics, nonferrous metals and other materials such as fines. Recent advances in shredding technology make it possible to divert even more recyclable material from landfills.

In May 2013, the company announced the site of the second shredder being built in New Castle, Pennsylvania. The New Castle scrap yard, formerly Ferromet, was acquired in December 2012 by Weitsman at a bankruptcy auction; the facility is seeing several million dollars’ worth of additional investment, including the demolition of old buildings and erection of new ones, full paving of the facility and brand new equipment.

As the site of the company’s second shredder outside of the facility in Owego, the New Castle location provides access to new markets of scrap and steel manufacturing for the company. The third shredder in Albany will further expand access to new markets through the installation of metal processing technology housed in the Capital region.

Metalico signs \$125 million refinancing agreement

Metalico, Inc. has closed a refinancing providing up to \$125 million.

Proceeds from the new facilities were used to pay amounts outstanding under the company’s prior credit agreement, repurchase \$37 million of its convertible notes and pay related fees and expenses. The facilities are provided under a six year senior secured financing agreement with TPG Specialty Lending, Inc. Additional funding is provided by PNC Bank, National Association.

The company entered into the financing agreement with a bank syndicate led by TPG Specialty Lending, Inc., as agent and lead arranger and PNC Bank, NA as servicing agent. The six year, senior secured \$125 million agreement consists of a revolving credit line in the amount of \$65 million, a Term Loan A of \$37 million and a commitment for a Term Loan B of \$23 million. Cowen and Company served as exclusive placement agent and financial advisor to Metalico.

After closing the transactions, Metalico will have outstanding \$34.5 million under the new revolver, net of cash, all \$37 million of Term Loan A and a remaining balance of \$26.5 million of the company’s convertible notes.

The company intends to repurchase the remaining convertible notes ahead of their initial put date of June 2014, utilizing the commitment for a Term Loan B.

The credit facility is secured by substantially all of Metalico’s assets and requires that the company maintain

a maximum leverage ratio, a maximum capital expenditure level and minimum revolver availability.

Borrowings under the \$65 million revolver will bear interest, at the company’s election, based on LIBOR or a base rate plus an applicable margin. As of closing, the base borrowing rate is at six percent p.a., but Metalico expects the majority of its borrowings to be LIBOR-based, currently at four percent p.a.

Term Loan A and any draws on the Term Loan B commitment will initially bear interest at 9.5 percent, with a provision for adjustment when, and if, LIBOR were to increase by more than 75 basis points.

The company is required to make quarterly principal payments starting in March 2014. The agreement provides for accelerated formula-based debt repayments utilizing portions of, among other sources, excess cash flow, proceeds from sales of assets, and proceeds of equity placements.

Because the company terminated its credit agreement, agented by JPM-Chase Bank, N.A., and repurchased \$37 million of its outstanding convertible notes, a portion of deferred financing costs under the prior loan arrangements will be expensed in the fourth quarter of 2013 but will be largely offset by the gain on debt retirement.

A Current Report on Form 8-K with the new agreement and Convertible Note purchase agreements will be filed with the Security and Exchange Commission and will be available at the company’s website, metalico.com, under the SEC Filings section on the Investors page.



Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$300.00	\$298.00	\$338.00	\$352.00	\$397.00
#1 Bundles	per gross ton	300.00	297.00	338.00	352.00	397.00
Plate and Structural	per gross ton	300.00	289.00	340.00	350.00	405.00
#1 & 2 Mixed Steel	per gross ton	298.00	285.00	340.00	345.00	380.00
Shredder Bundles (tin)	per gross ton	275.00	265.00	271.00	290.00	295.00
Crushed Auto Bodies	per gross ton	275.00	265.00	271.00	290.00	295.00
Steel Turnings	per gross ton	200.00	202.00	179.00	198.00	270.00
#1 Copper	per pound	2.98	2.85	3.00	3.02	3.11
#2 Copper	per pound	2.87	2.72	2.91	2.96	2.99
Aluminum Cans	per pound	.58	.54	.65	.69	.65
Auto Radiators	per pound	2.10	2.00	2.10	2.14	2.12
Aluminum Core Radiators	per pound	.59	.60	.64	.69	.68
Heater Cores	per pound	1.80	1.70	1.52	1.50	1.79
Stainless Steel	per pound	.54	.59	.60	.62	.64

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

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Events Calendar

January 26th-29th, 2014

USCC 22nd Annual Conference & Tradeshow. Oakland Marriott City Center, Oakland, California.
301-897-2715 • www.compostingcouncil.org

March 4th-8th

CONEXPO-CONAG. Las Vegas Convention Center, Las Vegas, Nevada.
630-585-7530 • www.conexpoconagg.com

March 9th-12th

27th Annual Southeast Recycling Conference & Tradeshow. Hilton Sandestin Beach Golf Resort & Spa, Destin, Florida.
800-441-7949 • www.southeastrecycling.com

March 12th-13th

Association of Postconsumer Plastic Recyclers. 2014 Spring APR Membership Meeting, Orlando, Florida.
202-316-3046 • www.plasticsrecycling.org

March 31st-April 2nd

Aluminum Association Spring Meeting. Omni La Mansion Del Rio, San Antonio, Texas.
703-358-2960 • www.aluminum.org

March 19th-21st

14th International Automobile Recycling Congress IARC 2014. Brussels, Belgium.
www.icm.ch

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AUTOMOTIVE

EPA funds project to prevent pollution from auto repairs

The U.S. Environmental Protection Agency (EPA) has awarded \$149,000 to the New York State Department of Environmental Conservation to assist automotive repair and other industrial facilities in the South Bronx, New York in preventing pollution. The New York State Department of Environmental Conservation will work with the New York City Environmental Justice Alliance and the New York State Pollution Prevention Institute to identify facilities in the South Bronx that use toxic chemicals and assess ways to prevent pollution. More than one year after Superstorm Sandy, many facilities that handle these substances remain unprepared to withstand another severe storm, threatening potential impacts to public health.

Under this program, the New York State Department of Environmental Conservation and its partner organizations will conduct pollution prevention assessments at South Bronx industrial facilities. Two of the facilities will then be selected for extensive on-site technical assistance and demonstrations of approaches focused on reducing the production and release of hazardous materials. This information will then be shared with other facilities through an outreach and education campaign.

This grant is part of the approximately \$5 million in grants the EPA awards each year to prevent pollution across the nation.

For additional information, view this article on www.AmericanRecycler.com.

Shingo Komatsu receives APRA's Distinguished Service Award

Shingo Komatsu, president of Shine Auto Parts in Nagano, Japan, was presented with the Automotive Parts Remanufacturers Association's Distinguished Service Award in November during the International BIG R Show in Las Vegas, Nevada.

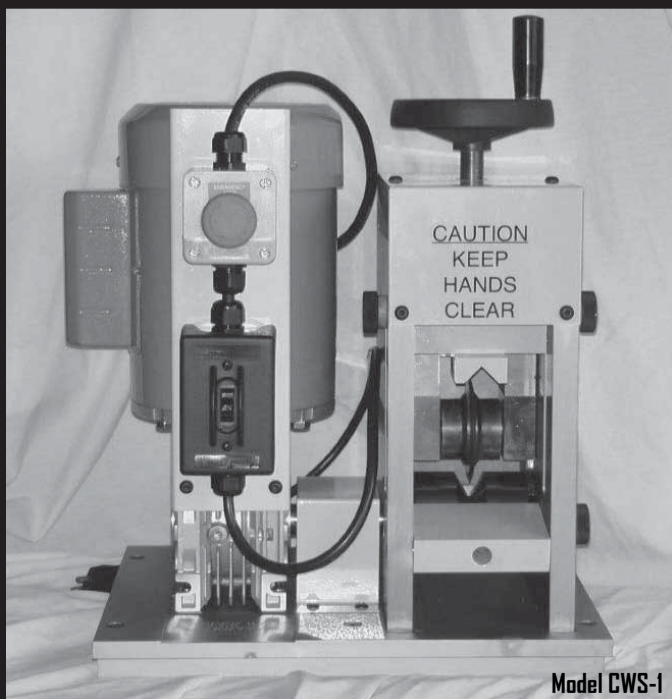
The award honors Komatsu for "Distinguished Business Statesmanship and Dedicated Service Rendered to the Entire Industry of Automotive Parts Remanufacturing."

Komatsu has been a leader in the Japanese remanufacturing industry and a solid contributor to APRA's growth in Asia over the past 35-plus years. Komatsu has spoken at many APRA symposiums in Asia, Europe and the U.S.

Shine Auto Parts is a remanufacturer in Asia of air conditioner compressors, alternators, starters, power steering and starter drives.

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AutoTrader.com survey reveals shopper concerns

A recent survey by AutoTrader.com shows that there are still significant gaps that need to be closed in order for consumers to increase their consideration and purchase of alternative fuel vehicles. The survey, which measured consumer attitudes on a range of topics concerning diesels, hybrids, electric vehicles (EVs) and plug-in hybrids, revealed that cost was one of the top concerns across the board.

According to the survey, the top motivators cited as reasons shoppers would consider purchasing an alternative fuel vehicle are less emotional and more practical, with three of the top five being related to saving money – whether in fuel costs or by receiving a tax credit. "Better fuel economy" came in first at 70 percent, followed by "cost of savings on gas" at 56 percent, "cleaner emissions" at 37 percent, "better for the environment" at 28 percent and "federal tax credit" at 24 percent.

Regarding the general perceptions of these different types of vehicles, hybrids and diesels were on par with each other for being associated with "good fuel economy," while hybrids and EVs were equal in their perception of having innovative technology. Diesels outshined the other vehicles in regard to reputation, practicality and value for the money. Naturally, EVs were cited more frequently for being environmentally friendly and for having cleaner emissions, with the latter being a category that diesels fell far behind in.

Even so, the price premium that accompanies vehicles with alternative fuel technology is a major factor that affects consideration, as the survey showed that a significant percentage of shoppers are unwilling to pay a premium over traditional-gasoline powered vehicles. Of those who are aware of each vehicle type, only 53 percent indicated that they are willing to pay a premium for diesels, and the numbers go down from there: 51 percent for hybrids, 41 percent for EVs and 39 percent for plug-in hybrids.

While the good news for diesels is that nearly three fourths of those who are aware of the technology recognize that diesels are more fuel efficient than traditional gasoline vehicles, cost and perception of diesels are affecting consideration.

The top three reasons why consumers would not purchase a diesel were all related to cost: "fuel expense" was cited by 55 percent, "too expensive to purchase" was cited by 46 percent and "potentially high cost of maintenance" was cited by 45 percent. But the next two reasons should concern automakers the most: "noise" was cited by 32 percent and "not really better for the environment" by 29 percent.

"Diesels have come a long way since they were first introduced in the U.S., but that perception of the clunky car with black soot coming out the tailpipe persists," said Moody. "Automakers who are investing in clean diesel technology need to ensure that they are clearly explaining and promoting how diesel technology has changed."

Similar to diesels, cost was among the top factors leading consumers to decide against hybrid and plug-in vehicles, but the degree to which those were concerns was higher for these vehicles. "Too expensive to purchase" was the top reason to decide against both hybrid and plug-in hybrids, at 66 and 71 percent, respectively. For EVs, the price tag came in third, but still at a notable 60 percent. Maintenance was also a top concern affecting the decision, with "potentially high cost of maintenance" being cited by 55 percent in the hybrid category and 58 percent in both the EV and plug-in hybrid categories.

Going beyond cost, concerns about the battery ranked high as well in the reasons consumers would decide against these vehicles, with "battery life/range" being cited by 52 percent for hybrids, 67 percent for EVs and 64 percent for plug-in hybrids.

On a follow up question regarding EVs and plug-ins, 59 percent of respondents indicated that EVs would need to get over 150 miles per charge for them to consider the vehicle, and 56 percent said that plug-in hybrids would need to get over 80 miles on a single charge for them to consider the vehicle. Even so, the mere act of plugging in a vehicle was disconcerting for some, with 31 percent citing "don't want to plug in" as a reason to decide against and EV and 40 percent citing the same for plug-in hybrids.

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AUTOMOTIVE

GM's Rochester, New York facility is company's 109th to achieve landfill-free status

Perseverance has enabled a 75 year old General Motors manufacturing facility in Rochester, New York to go landfill free. The journey took four years and included seven attempts to recycle a challenging oily filter sludge generated from a machining operation.

The plant, which produces components to enable better vehicle fuel efficiency, and its nearly 1,100 employees now reuse, recycle or convert to energy all waste from daily operations. With their achievement, GM's landfill-free facility count is at 109, more than any automaker.

GM supplier Mobile Fluid Recovery helped the 1.8 million sq.ft. facility solve its final roadblock to achieve landfill-free status: separating a mucky mixture of metal, filter paper and oil produced by a machine that cuts metal for fuel injector and manifold components.

The machine uses oil for lubrication from a central pit. Once complete, oil flows back to a section of the pit, carrying with it small pieces of metal shavings. Filters clean out the residue and metal chips, while clean oil flows back to the main pit to start the process again.

The solution was to centrifuge the remaining material – spinning it like a

high-speed industrial washing machine. The velocity makes excess oil pass through a filter into a hose. The oil is filtered further to remove air and water, tested, and dumped back into the pit for reuse. The remaining dried filter paper and fine metal particles are converted into energy.

Employee participation was instrumental in recycling other waste streams such as paper, plastic and cardboard.

Earlier in the plant's landfill-free journey, the team relocated dumpster and recycling containers to better enable convenient collection, and designed clearer labels for easier sorting. The goal was to make recycling easy with simple instructions.

To increase cardboard recycling, signage communicated the fact that GM receives \$.02 per pound if recycled versus paying \$.03 per pound to send it to a landfill. Employees read which local recycling center receives the material and what its next life becomes – more cardboard and liners – after processing. In just a year, the plant recycled 115 tons of cardboard, more than twice as much collected the prior year, avoiding use of 950 cu.yds. of landfill space. The plant executed similar communications for scrap paper and electronics.

2014 Honda Accord named Green Car of the Year winner

Green Car Journal named the 2014 Honda Accord winner of its Green Car of the Year Award for 2014. This award honors the 2014 Accord model in all its iterations, including the Accord, Accord Hybrid, and Accord Plug-In.



Honda's Accord emerged on top of an exceptional field of finalists including the Audi A6 TDI, BMW 328d, Mazda3, and Toyota Corolla.

According to Green Car Journal, the Accord has evolved in important ways to meet the needs of an increasingly sophisticated and changing market that seeks ever-higher fuel efficiency, lower CO2 emissions, and improved environmental impact, without sacrificing the features and driving experience expected by new car buyers.

The 2014 Honda Accord brings notable efficiency with its conventional gasoline powerplants, and now ups its game with highly-efficient Accord Hybrid and Accord Plug-In hybrid choices that achieve up to 50 highway mpg or, in the case of the Plug-In, 115 MPGe, the highest of any mid-size hybrid sedan in the country.

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ALTERNATIVE ENERGY

Solar project construction started in Massachusetts

First Wind has begun construction on 17 megawatts (MW) of solar projects in the Massachusetts communities of Warren and Millbury. Representing the company's first set of renewable energy projects in its home state and its first solar development, First Wind is breaking ground after it recently secured financing and finalized a long-term power purchase agreement (PPA) with the University of Massachusetts (UMass), as well as net metering agreements with the towns of Millbury and Orange.

First Wind's solar project portfolio in Massachusetts will include a 3 MW project in Millbury and a 14 MW project at three sites in the town of Warren. The combined Warren projects will comprise the second-largest solar project in Massachusetts. Construction activities will be a source of economic activity for the local economies by creating roughly 85 construction-related jobs and driving spending with local businesses. The projects will represent a significant investment in Massachusetts and the communities along with millions of dollars in construction, materials and development costs.

Once the projects are online, First Wind will make annual tax payments to each of the towns, which will provide

additional revenue to the communities – \$130,000 in taxes annually for Warren and \$50,000 annually for Millbury. First Wind has also committed to contribute conservation land within the host communities.

The majority of the power generated from the four projects will be delivered to the Lowell and Medical Center campuses of UMass via a long-term PPA. Through these solar projects, UMass will save more than \$1 million in annual energy costs, or a total of more than \$30 million over the course of the 30 year agreement.

The agreement is part of a larger UMass initiative to cut energy costs and reduce its carbon footprint, and it also supports the Commonwealth's ambitious solar energy goals. After reaching the state's goal 4 years early of 250 MW of solar energy installed in May 2013, Governor Patrick recently announced a new goal of 1,600 MW of solar power by 2020.

In addition to UMass, the towns of Millbury and Orange have agreed to purchase a smaller portion of the energy generated by the projects. Orange will realize more than \$85,000 a year in electricity savings, while Millbury will see annual savings of \$110,000.

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—Bernard M. Baruch

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BUSINESS BRIEFS

Terex Construction names Smith as sales manager

■ Terex Construction Americas named Mike Smith as the Terex Fuchs equipment regional sales manager for several Midwestern and Southeastern states. Smith now has sales and distributor development responsibilities for Terex Fuchs material handlers for the scrap, waste, recycling, forestry and port markets. Smith's territory in the Midwest stretches from Michigan to Kentucky and in the Southeast from Tennessee and Mississippi eastward to Florida.

Prior to joining Terex, Smith was the general manager for two scrap operations in Trenton, Tennessee. It was in this position where Smith learned the critical role material handlers play in the success of a scrap yard.

Smith also brings 20 years of retail experience to the position, working in a variety of sales positions for heavy equipment distributors and rental yards supplying equipment to the construction, infrastructure and road building industries. This unique combination of retail and end-user experience will allow Smith to help customers select the right material handling equipment for the application.

Smith will be based in Southaven, Mississippi, out of the Terex Construction Americas office.

Universal Lubricants names new vice president

■ Universal Lubricants has promoted Ned Murray to vice president of environmental services.

Murray is responsible for the company's environmental and industrial services division, including, used oil and filter collection, vacuum services, industrial cleaning, environmental project management, hazardous and non-hazardous waste disposal and transportation, drum removal and wastewater collection and treatment.

Murray's knowledge of environmental services is grounded in 30 years of experience working with Safety-Kleen in field services, project management and business development, as well Clean Harbors, Perma-Fix Environmental Services and MHF Logistical Solutions. He was a vice president with Shamrock Environmental Corporation prior to joining Universal Lubricants in April 2012 as director of sales for the company's Industrial Division. In January 2013, he also became general manager of Universal Lubricants' expanding South Division. Murray is the company's primary representative in NORA, an association of responsible recyclers.

Covanta declares quarterly cash dividend

■ Covanta Holding Corporation said that their board of directors has declared a quarterly cash dividend of \$0.165 per share, payable on January 3, 2014 to stockholders of record as of the close of business on December 26, 2013.

Novelis' Renner named Georgia CIO of the Year

■ Novelis disclosed that Karen Renner, Novelis vice president and chief information officer, was named Georgia chief information officer (CIO) of the Year by the Georgia CIO Leadership Association.

Renner was honored by the Georgia CIO Leadership Association for her leadership, business value creation, innovation and community involvement. Finalists for each of the 4 categories were selected from 125 nominations and winners were chosen by a panel of distinguished judges including prior Georgia CIO of the Year award winners.

Responsible for the development and execution of the global information technology and business information strategy at Novelis, Renner joined the company in 2010 from GE, where she spent nearly 20 years in progressively senior IT leadership roles. Under her leadership, Novelis has undergone a significant technology transformation, including the deployment of global standards, introduction of new tools to enable employees to work more efficiently and the implementation of an enterprise resource planning platform.

Jeco Plastic Products appoints Midwest agent

■ Jeco Plastic Products has appointed J&M Industries, based in Westfield, Indiana, as its agent for rotationally molded products.

The principal of J&M Industries is Gene Moore, who has worked with Jeco and other rotational molders for many years.

Maurer Manufacturing adds new salesperson

■ Maurer Manufacturing has hired Tom Jansen as a territory manager to represent the Maurer line of scrap recycling trailers.

Jansen comes to Maurer with 14 years of sales experience in various industries. The past seven years of experience has been directly related to the scrap recycling industry. Through this time Jansen has developed a strong understanding of the industry and the requirements of the customer. He has also developed many contacts in the industry who will help lead Maurer into growth opportunities. Jansen will call on customers and potential customers throughout the lower 48 states and he will continue to reside in Oskaloosa, Iowa.

Terex to sell truck business to Volvo Construction

■ Terex Corporation has agreed to sell its truck business to Volvo Construction Equipment for cash proceeds of approximately \$160 million. The truck business manufactures and sells off-highway rigid and articulated haul trucks.

Included in the transaction is the manufacturing facility in Motherwell, Scotland. The sale, which is subject to government regulatory approvals and other customary closing conditions, is targeted to close in the first half of 2014.

A nun, a priest and a rabbi walk into a bar. The bartender said, "What is this? Some kind of joke?"

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BUSINESS BRIEFS

Keep America Beautiful appoints new president

■ Keep America Beautiful (KAB), has appointed Jennifer M. Jehn to lead the organization as its new president and chief executive officer.

Jehn is a proven leader with expansive marketing and management experience. Most recently, she held several leadership positions within Dow Jones & Company, including serving as head of consumer sales and circulation marketing. She succeeds Matthew M. McKenna, who left KAB to become an investment advisor at the U.S. Department of Agriculture.

Jehn will lead the nonprofit that executes a wide range of programs and service projects based on the knowledge and needs of local communities – while expanding support and increasing recognition for the 60 year old organization.

Jehn serves on the board of governors for Children's Miracle Network Hospitals and board of directors for Trinity Café and RENEW International. She is an associate board member of the University of Wisconsin Memorial Union and a trustee of Northland College.

I never wanted to believe that my dad was stealing from his job as a road worker. But when I got home, all the signs were there.

Eriez promotes Bill Dudenhofer to manager

■ Bill Dudenhofer was promoted to market manager-heavy industry for Eriez.

A graduate of The Pennsylvania State University, Dudenhofer joined Eriez in 1998, serving as technical sales representative until his promotion in 2006 to separation product manager.

As the market manager-heavy industry, Dudenhofer will oversee equipment and orders for heavy industries, including aggregates, ceramics, power generation, mining, utilities and more. He will supervise a team of three and report to Dave Heubel, director-North American sales.

Covanta Holding names Bradford Helgeson as CFO

■ Covanta Holding Corporation reported that Bradford J. Helgeson will assume the position of executive vice president and chief financial officer, effective immediately. Helgeson has been Covanta's vice president and treasurer since 2007, and previously held senior financial positions at Waste Services, Inc. and worked in investment banking with Lehman Brothers and Donaldson, Lufkin & Jenrette. He will replace Sanjiv Khattri, who will actively assist in the transition.

BS&W and West OK Disposal acquisitions close

■ Lakewood Midstream and Energy Spectrum Capital have recently acquired BS&W Solutions, LLC, West OK Disposal, LLC and the assets of West OK Trucking, Inc. BS&W Solutions, LLC is an oilfield service company that specializes in processing and recovering crude production by purchasing crude oil with high water or sediment content across the Mid-Continent region and Permian Basin. By utilizing centrifuge technology to separate the water, sediment and crude oil, BS&W processes the production into pipeline quality crude oil and other drilling fluids that can be used in the production process.

West OK Disposal, LLC, an oilfield waste disposal company, provides oilfield waste fluid handling and disposal services in the Mid-Continent region. The company primarily serves oil and gas operators who drill, operate and are responsible for the proper disposition of fluids that are created or used in the drilling and production of oil and gas wells.

West OK Trucking, Inc. operates a fleet of trucks that serve the oil and gas industry in the Anadarko Basin and Texas panhandle by offering transport services for oilfield waste fluid and mud. West OK Trucking's other services include soil farming and equipment rental.

Martex Fiber acquires Bollag's waste services

■ Martex Fiber Southern Corp. has acquired the Charlotte based Waste Services Division of Bollag International. Bollag collects and markets textile wastes including natural and synthetic waste, cuttings, rags and fabric remnants. The acquisition of Bollag is part of a larger global expansion strategy Martex Fiber is pursuing, which includes the June 2013 acquisition of JBM Fibers, Inc. in Brownsville, Texas.

The 325 employees of the Bollag Textile Waste Service division based in Charlotte, North Carolina, Honduras and Nicaragua will also be joining Martex.

TechnoCycle expands e-recycling operations

■ TechnoCycle, a Houston-based information technology asset management and e-waste recycling company, has doubled its facility size to 60,000 sq.ft. to keep up with the dramatic growth of the electronic recycling industry.

Having been recognized by the Houston Business Journal as one of Houston's fastest growing companies from 2010 to 2013, TechnoCycle attributes its consistent growth to providing services and compliance to the constantly changing e-waste industry.

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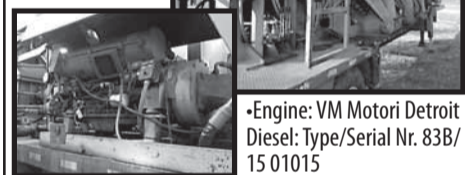
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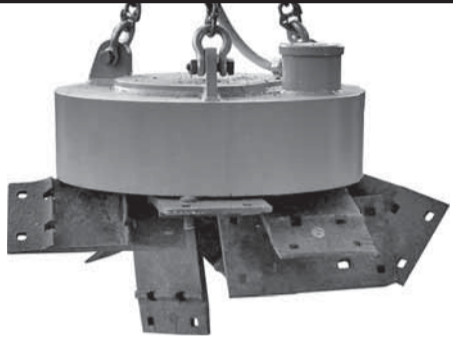


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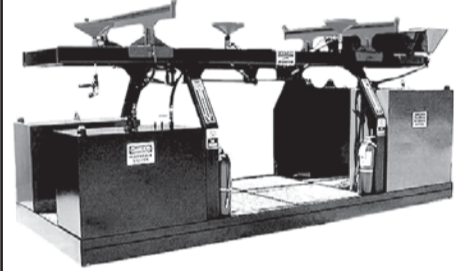
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More states ban organic waste in landfills

by MARK HENRICKS

mhenricks@americanrecycler.com

After a six-month program in which restaurants volunteered to keep commercial food waste out of landfills, New York City is planning to ban food scraps from hotels, hospitals and other large generators from being landfilled entirely. The city would join Northeastern states Massachusetts, Connecticut and Vermont, as well as West Coast cities Seattle, San Francisco and Portland, all of which have banned landfill disposal of food waste from large commercial food waste generators.

The New York City proposal made by Mayor Michael Bloomberg in November 2013 would affect facilities generating more than one ton of food waste per week. It would require food waste to be collected and sent to a composting facility or to an anaerobic digester for conversion to energy. Bloomberg's office said the bill would affect less than five percent of the city's largest food waste generators. However, it would reportedly cover 30 percent of commercial organic waste, or more than 250,000 tons annually.

Connecticut was the first state to ban commercial food waste from landfills. In 2011, it passed a state law requiring generators of two or more tons of food waste per week to recycle the materials rather than sending them to a landfill if located within 20 miles of a suitable recycling facility.

In Vermont, a similar 2012 law also banned food waste from landfills. Like Connecticut, its law limited the ban to large generators located within 20 miles of a recycling facility. The Vermont law, however, gradually expanded coverage in a series of steps. Only commercial generators of two tons of food waste per week or more were required to comply at first. By 2020, however, all food waste will be banned from Vermont landfills.

In June 2013, Connecticut partially adopted Vermont's graduated expansion approach. The state passed a new law that expanded coverage of its landfill food waste ban to facilities generating a

ton of food waste per week, starting in 2020.

Massachusetts is the latest state to move to ban commercial food from landfills. In July 2013, the Massachusetts Department of Environmental Protection proposed requiring commercial food waste generators, defined as those producing a ton or more per week, to donate or re-purpose the food instead of sending it to the landfill. Any waste that could not be donated would have to be used for composting, anaerobic digesting or animal feed. That ban is set to take effect July 1, 2014.

Organizations that have been in New York City's voluntary program described generally positive experiences. More than 100 restaurants took part in the Food Waste Challenge and reported diverting more than 2,500 tons of food waste from landfills over 6 months. The mayor's office said more than 50 of the participants had achieved the goal of diverting 50 percent of food waste.

Herve Houdre, general manager at the InterContinental New York Barclay, said the hotel had diverted more than 70 percent of waste using on-site organic waste processing and other techniques. Overall, giving food away to non-profit nutrition programs was a key part of the initiative, as the city said more than 25 percent of the food waste diversion came through donations to food banks.

Melissa Autilio Fleischut, president and CEO of the New York State Restaurant Association lauded the program and indicated support for Bloomberg's efforts. "The Food Waste Challenge proves that sending less to landfills is good for both business and the planet," Fleischut said in a press release. "The New York State Restaurant Association looks forward to working with the city to advance this initiative in a responsible way that works for everyone."

Officials of Yankee Stadium and JetBlue, as well as celebrity chef Mario Batali, also expressed support for diverting food waste. Stadiums and airports would be among the facilities affected by the expansion of the food waste reduction program.

PHOTO BY BERTOLD WERKMANN | DREAMSTIME



Some states have enacted laws requiring organic waste to be diverted from landfills to either composting facilities, or anaerobic digesters such as this one for processing into alternative fuels.

New York City is working with startup software company MintScraps to create a cloud-based software program that will help restaurants, supermarkets and others monitor and track food waste streams. In addition to enabling users to visually identify wasteful locations, the app will create an online marketplace where businesses can post leftover food availability and non-profits and food banks can search for food to pick up.

MintScraps said the app can save restaurants money by reducing waste disposal fees and food purchasing costs and also provide benefits in the form of tax deductions for donated food. Users will enter data such as the amount of food waste generated, and the app will help them figure disposal costs and potential savings. Charts and graphs will help users track the amount of food

See **FOOD BANS**, Page 2

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A Letter from the Editor

Readers,

Welcome back. I hope you all had a restful holiday season. While we were busy shopping, wrapping and ringing in the New Year, the White House was scrambling to salvage the reputation of President Obama's Affordable Care Act.

The law continues to be an embarrassment to the administration. After refusing Republican requests to delay the individual mandate (going so far as to allow a government shutdown), the website rollout was hugely flawed and prevented (the few) people who wanted to enroll from doing so. Then 4 million people lost their individual insurance plans, despite President Obama's oft-repeated mantra, "If you like your current plan, you can keep it." After being caught in that largish falsehood, the administration backtracked, and announced that insurers could continue to offer the non-ACA compliant plans for another year before forcing consumers to "upgrade."

And now, President Obama has gone and unilaterally altered the requirements of the law again. Days before the deadline for enrolling in a plan to avoid fines for not having healthcare, Obama announced that those who had their non-ACA compliant plans canceled could enroll in catastrophic plans that were previously not allowed under the rules because they don't provide the mandated levels of benefits.

This decision, this late in the game, is unfair and counterproductive. These less expensive plans were not available to the early adopters, who may now be enrolled in plans that they cannot or do not want to afford. Additionally, the whole purpose of the ACA is to compel enough healthy people to pay insurance premiums to offset the costs of insuring the sick and elderly. These catastrophic plans will likely keep younger and poorer – but healthier – individuals out of the insurance marketplace, leaving insurance companies with sicker customers who need more medical procedures, thereby necessitating that they increase premiums to stay profitable.

You'd better not enroll in an insurance plan today – the administration will probably change the rules tomorrow.



Dave Fournier
Focus Section Editor
david@americanrecycler.com

Oxnard's new commercial food waste pilot program showing tons of success

According to California's Department of Resources Recycling and Recovery (CalRecycle), Californians throw away nearly 6 million tons of food each year. The City of Oxnard's Environmental Resources Division is teaming up with Whole Foods and St. John's Hospital to address this issue on the local level with a new commercial food waste recycling pilot program. In just one month, the program is showing tons of success: Whole Foods and St. John's Regional Medical Center have already diverted more than 20 tons of food waste from local landfills.

Staff members from each company received on-site training by City of Oxnard staff. Topics included logistical considerations, the importance of separating food waste from other materials and the use of specially designated 64 gallon containers. Now that the pilot program is up and running, the City collects food waste from each business three times per week. The food waste is processed with other organic materials (grass clippings, leaves and tree trimmings) to make a valuable resource: high quality compost for area growers and landscapers. The food waste is received by Agromin, where the City is already delivering green waste.



PHOTO COURTESY OF WHOLE FOODS

"Up until a few years ago, food waste usually ended up in a landfill," said Bill Camarillo, Agromin CEO. "With new technology and strong commitments from businesses and cities such as Whole Foods, St. John's and Oxnard, food waste is now being seen as an excellent source to create compost and biofuel. Anytime we can turn waste into something useful is a win for our community and the environment."

According to John Bennett, the associate general manager at the Whole Foods in Oxnard, "Initial results overwhelmingly exceeded expectations. In

just the first week, approximately four tons of food waste were collected for processing into compost."

"Composting food waste turns a formerly discarded material into a valuable resource and extends the life of our landfills," said Todd Housley, environmental resources superintendent for the City of Oxnard.

"We are hoping that this pilot program with Whole Foods and St. John's Regional Medical Center will set the standard to serve as a model for future commercial food waste and recycling efforts," said Housley.

Food bans

■Continued from Page 1


waste sent to landfills as well as the quantity recycled and composted.

Ultimately, the app's developers hope to replace manual data input with an automated system using sensor technology and color coded bags. The application will be made available free to participants in the Food Waste Challenge.

New York City's Food Waste Challenge and the proposed ban on commercial food waste in landfills is part of the city's goal of diverting 75 percent of all solid waste from landfills by 2030. Bloomberg's term expired in January, but he said the success of the voluntary program suggests the city's goal may be feasible for his successor, Bill de Blasio. In a statement, Bloomberg said, "New York City's food industry has demonstrated that substantially cutting waste by diverting it to productive uses is not only possible, but achievable."

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Montgomery County RRF hits 10 million ton milestone

PHOTO COURTESY OF JAMES F. REGAN, COVANTA ENERGY CORPORATION

The Montgomery County Resource Recovery Facility (RRF), operated by Covanta Montgomery, Inc., celebrated the milestone of processing 10 million tons of post-recycled municipal solid waste into clean, renewable energy.

The energy-from-waste facility is owned by the Northeast Maryland Waste Disposal Authority and began commercial operation in August 1995 to sustainably dispose of Montgomery County's post-recycled waste. By recovering energy from 10 million tons of waste at the RRF instead of disposing waste in landfills, the County has:

- Produced 5.7 billion kilowatt hours of electricity – enough to power Washington D.C. for 6 months;

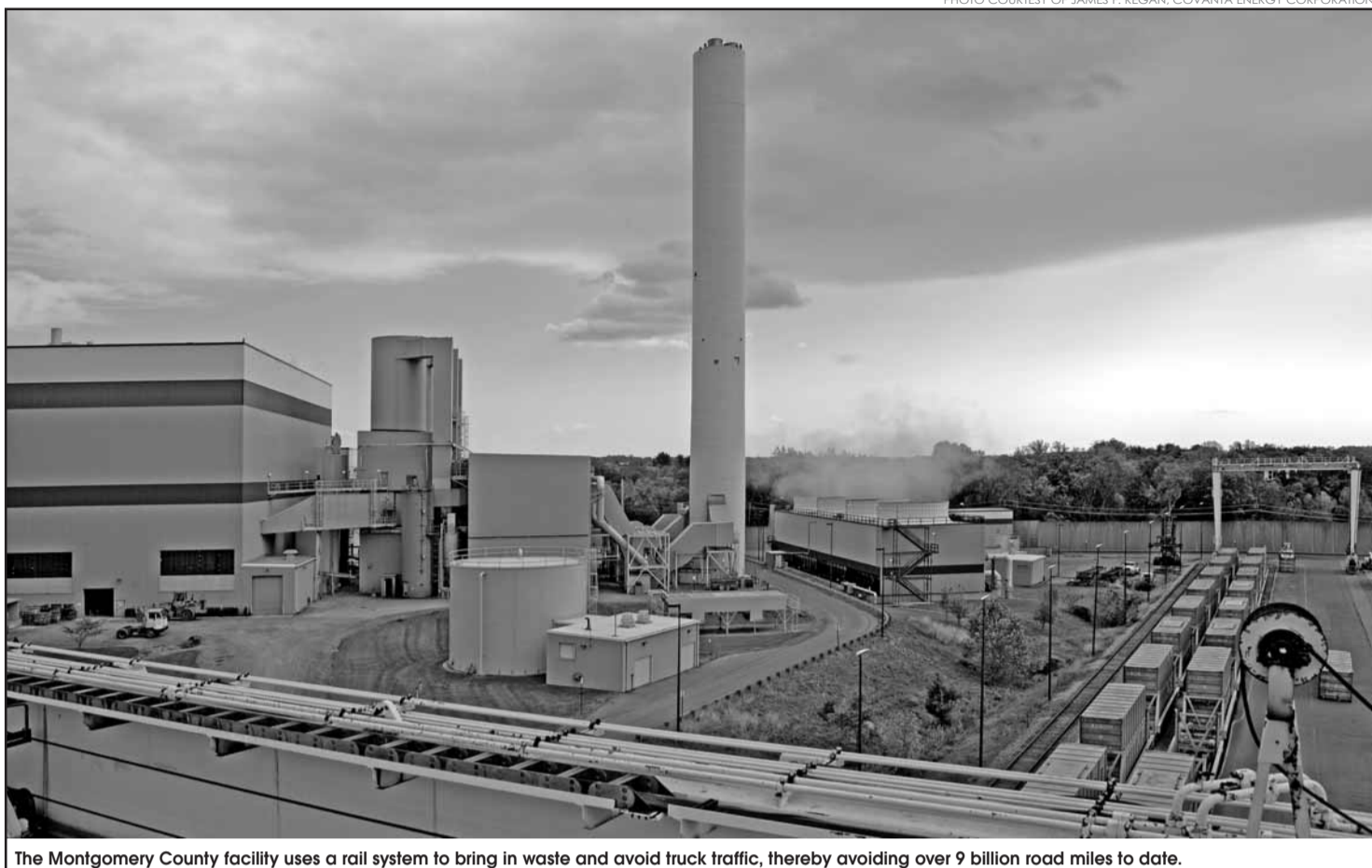
- Offset 10 million tons of greenhouse gases, the equivalent to the avoided emissions from almost 2 million cars;

- Recycled 260 thousand tons of ferrous metal – enough to replace 1,136 miles of rail from Washington, D.C. to New Orleans; and,

- Saved landfill space equal to waste piled 1.4 miles high on a football field.

The RRF is a key component to the County's integrated solid waste management system, which includes robust recycling programs. The County consistently achieves a recycling rate exceeding 50 percent – far above the national average. Waste that remains after recycling is sent to the RRF for energy recovery where up to 52 MW of clean energy is generated – enough to power approximately 38,000 homes continuously.

Montgomery County utilizes a unique rail system to transfer waste and avoid truck traffic associated with the facility. All waste is first delivered to the Shady Grove Transfer Station in Derwood, compacted into intermodal



The Montgomery County facility uses a rail system to bring in waste and avoid truck traffic, thereby avoiding over 9 billion road miles to date.

steel waste containers and then loaded onto railcars. The waste is then transferred 20 miles via rail to the RRF in Dickerson. There the containers are off-loaded and trucked from the on-site rail yard to the facility's enclosed refuse building. Residue that remains from the process is loaded into sealed containers and shipped by rail. By using rail to deliver waste to the facility, the County has avoided 9 billion road-miles of truck traffic and the associated emissions from approximately 225,000,000 diesel truck trips since its operation began in 1995.

In 2010, 2005 and 1998 the facility received the "Gold Waste to Energy

Excellence Award" from the Solid Waste Association of North America. This award considered all aspects of waste to energy operations and represents the highest level of excellence among the nation's energy-from-waste facilities. Other awards received include, the American Society of Mechanical Engineering Excellence in WTE Operations Award, the American Association of Environmental Engineers Grand Prize for Operations/Man-

agement and the American Society of Civil Engineering Outstanding Civil Engineering Project Award.

As operators of the facility, Covanta Montgomery is an active member of the community and supports a number of local organizations such as Western Upper Montgomery County Help, 4H, the Upper Montgomery County Volunteer Fire Department and Local Relay for Life.

Georgia facility to produce fuels from waste biomass

Concord Blue USA, Inc. and LanzaTech have entered into an agreement to integrate their technologies to demonstrate the production of fuels and chemicals from waste materials.

LanzaTech will install a Concord Blue Reformer at its Freedom Pines facility in Soperton, Georgia to convert waste biomass from regional forestry operations into syngas. The syngas will be converted by LanzaTech's proprietary gas fermentation process into a range of biofuels and chemicals. The integration and testing at Freedom Pines will serve as an important step towards commercialization of the integrated technologies for multiple projects that both companies have under contract and in development.

"As the U.S. continues to diversify its energy mix and produce more domestic energy, low carbon fuels derived from waste woody biomass and municipal solid waste will play an increasingly important role," said Dr. Jennifer Holmgren, CEO of LanzaTech. "Our partner-

ship with Concord Blue will enable us to extend our technology to these important resources."

Concord Blue has developed a closed-loop, commercially proven, non-incineration process that recycles nearly any form of waste, including landfill waste and sewage sludge, into energy at virtually any scale. By working closely with businesses, governments and communities around the globe, Concord Blue creates tailored solutions that safely and effectively dispose of waste streams while producing clean energy through advanced waste conversion.

LanzaTech's technology has earned a global sustainability certification from the Roundtable on Sustainable Biomaterials at a pre-commercial facility in China. The process is able to produce fuels and chemicals through the capture and reuse of a variety of gas streams, such as syngas, from gasified biomass, municipal solid waste and waste gases from industrial processes.

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EQUIPMENT SPOTLIGHT

Wood Chippers/Grinders

by MARY M. COX

maryc@americanrecycler.com

Chippers and grinders are used in the processing of organic materials, such as those commonly found in municipal biomass or in waste-to-fuel operations. Chippers typically produce a thin, uniform, rectangular-shape product. The machines are not tolerant of non-wood contaminants and can be damaged when exposed to those materials. Small chippers process items such as branches and large chippers can process whole trees but generally not waste materials.



Continental Biomass Industries, Inc.

Grinders, usually high-speed hammermills, break wood into various sizes, resulting in a shredded appearance. Unlike chippers, grinders tend to be quite tolerant of non-wood items such as dirt, rocks or nails. The machines are typically available in vertical or horizontal feed designs, and in stationary or portable configurations.

Art Murphy is the marketing manager at Continental Biomass Industries (CBI). The company manufactures equipment for a variety of grinding, chipping and shredding needs. After the success of CBI's Magnum Force 6800 grinder, the company went back to the drawing board to apply the same principles to a machine designed for lower production needs or transportation restrictions. The end result of that effort is the Magnum Force 5800 – a mid-sized, strong, upswing grinder.

"The offset helix rotor, anvil and screen designs and dimensions remain similar to the 6800 to retain its superior grinding performance, however, the rotor width is decreased to produce a machine with a total width under 8'6". Each component was scrutinized, weight was engineered out where it

wasn't needed and engineered in where it was. The 5800 weighs 64,850 lbs. with the capability of producing up to 100 tons per hour," Murphy stated.

The grinder is engineered for land clearing and logging companies and yard waste and demolition wood processors, and mulch yard customers who demand high-volume throughput and maximum reliability. The 5800 features a high lift upper roll for ease of maintenance; high torque, hydrostatic feed system; PT Tech hydraulic PTO; and a Caterpillar engine. High strength drum rotor and screen system are shear pin protected. The entire system is controlled by CBI's Intelli-

Grind logic, incorporating a variable infeed speed that automatically adjusts to engine load and an optional modem communications system that provides for real-time system diagnostics. Murphy noted, "The 5800 meets specific size constraints but still provides all of the design features and ingenuity that makes strength and

performance of CBI machines legendary."

Vecoplan designs, engineers, and manufactures drum chippers, and both vertically fed and horizontally fed rotary wood grinders. Their VTH Series drum chippers produce high quality chips for the production of fuel, chipboard, paper and wood pulp.

According to Kim James, marketing/communications director, "The production of alternative and renewable fuels from any type of biomass, but especially wood is one of the biggest trends in this industry." He said the most common application in the U.S. for their VTH drum chippers is in plants producing wood pellets for export.

"Disk chippers are more commonly used in the U.S. Drum chippers differ from traditional disk chippers because drum chippers are more universal. They can handle all dif-

ferent types and shapes of wood without any change to the machine while disk chippers are only useful for straight logs without branches. When comparing similarly sized machines, drum chippers can handle larger diameters than disk chippers," explained James.

Vecoplan's VAZ series rotary wood grinders are used in a wide variety of applications from simple volume reduction of wood waste prior to land-filling or composting, to preparing wood and other biomass for conversion to alternative fuels including pellets, cellulosic ethanol and other second generation bio-fuels. Grinders are also used to produce simple boiler fuel, animal bedding, mulch and material to be used in the production of particleboard or other composite materials such as wood or plastic decking. There are 12 grinder models to choose from, available in hundreds of configurations. The VAZ series grinders feature true dump and run operation. Fed vertically via a hopper positioned above the cutting chamber, the user can dump material into the hopper, push a button and walk away.

Vecoplan also offers the VTH-VU series horizontal wood grinders. The machines are designed specifically for size reduction of wood strips, edge rippings, slabs and all long wood scrap, as well as lineal plastic scrap such as siding and vinyl widow profiles. The VTH-VU series contains 6 different models, ranging from 40 to



West Salem Machinery Co.

125 hp. Infeed widths range from 12" to 33". Larger, custom models are also available.

See SPOTLIGHT, Page 5

Manufacturer List

Bandit Industries, Inc.

Jason Morey
800-952-0178
www.banditchippers.com

Continental Biomass Industries, Inc.

Art Murphy
603-382-0556
www.cbi-inc.com

Diamond Z

Pat Crawford
208-585-2929
www.diamondz.com

Doppstadt US LLC

Chris Pap
440-937-3225
www.doppstadtus.com

DuraTech Industries

Bob Strahm
800-243-4601
www.duratechindustries.net

HogZilla Grinders

Tim Wenger
785-284-3454
www.hogzilla.com

Morbark, Inc.

Nate Everest
989-866-2381
www.morbark.com

Rayco Mfg., Inc.

JR Bowling
800-392-2686
www.raycomfg.com

Rotochopper

Andy Brick
320-548-3586
www.rotachopper.com

Vecoplan, LLC

Kim James
336-861-6070
www.vecoplanllc.com

Vermeer

Jason Zylstra
641-628-3141
www.vermeer.com

Warren & Baerg Mfg., Inc.

Wendell Spray
800-344-2131
www.warrenbaerg.com

WEIMA America, Inc.

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www.weimaamerica.com

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Spotlight

Continued from Page 4

“The processing volume of our customers varies widely from the small woodworker processing a few hundred pounds of their own wood waste scrap in a year to the City of Edmonton which will produce 100,000 dry metric tons of refuse derived fuel per year, using their Vecoplan Alternative Fuel Feedstock Preparation system,” James noted.

Vecoplan was founded in 1969 as a manufacturer of innovative, high quality wood chippers. The company has a global array of agencies and there are over 10,000 Vecoplan machines and systems in operation throughout the world. “If you are involved in recycling, processing alternative fuel feedstocks, or any type of waste processing, Vecoplan is your best source for cutting-edge technologies to do it better and a partner to grow with,” said James.

West Salem Machinery (WSM) manufactures vertical and horizontal grinders, shredders, hammermills, trommel, disc and oscillating screens and vibrating conveyors/screens.

“WSM has over 65 years of experience designing and manufacturing the most rugged machinery and complete recycling systems available, with the application expertise and flexibility to customize the right solution for our customers,” said Mark Lyman, president.

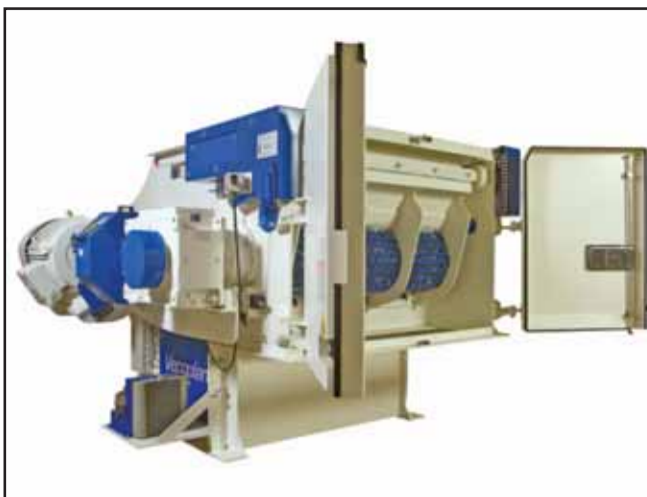
Lyman reports that WSM grinder designs feature heavy steel housings, fully machined rotors, massive alloy steel hammers with replaceable/rebuild-

able tips, heavy-duty modular sizing screens and unique pivoting top cases for quick and easy maintenance to the inside of the grinder.

“One of our customers at a large, high-tech, recycling plant is processing C&D waste into value-added end products with two large WSM vertical grinders. The complete grinding systems include two 500-hp grinders with infeed chutes, support structures, access platforms, and motor starters to turn the pre-sorted C&D and urban wood waste into boiler fuel and mulch products – at 80 tons per hour,” Lyman said.

To help customers reduce operating costs and increase energy efficiency, WSM offers complete systems using screening and size reduction technologies. “These highly efficient systems are ideal for many types of materials including green waste, food waste, C&D waste and urban wood waste. WSM Grinders are part of a complete recycling system that can process RDF, MSW, land clearing, biofuels, wood energy, green waste, cellulosic ethanol, and fiber for densified fuel,” stated Lyman.

In response to the emerging trend in food waste recycling, WSM offers Bio-Prep™ Systems, specifically designed to provide complete fiber preparation of



Vecoplan, LLC

food waste and organic waste for anaerobic digestion. Lyman said BioPrep is unique in that it features mill duty screening, shredding and milling machinery to deliver properly sized feedstock for the biofuel/biochemical conversion process. In WSM’s screening and size reduction test lab, customers can have various feedstocks tested to improve their operations and help make informed machine purchases. Lyman noted that for green or dry wood fiber preparation; biomass fuel preparation; fiber prep for pellets, briquettes, or co-firing; converting ag-residuals for bio-fuels; mulch processing; animal bedding; or other fine-grind materials, the lab can simulate various size production settings and determine production rate and volume, and provide detailed screen analysis.

Lakeland plans first organics recycling facility

Organic Solutions, Inc. (OSI) will operate the first permitted solid waste organics recycling pilot project in the state of Florida.

The OSI facility will be the first in North America to employ a bio-thermic digester unit (BTD) for processing organic solid waste. The OSI BTD will be processing 10 tons of organic waste per day with zero grey-water output. Current operational data shows an average organic waste reduction of greater than 90 percent, with the added benefits of clean water output and electrical generation. All of this requires no pre-processing of the waste stream.

Laboratory testing has concluded that the post-process material is completely sterile, safe to handle, beneficial as a soil amendment and also excels as bio-fuel. To date, European case studies have revealed an average organic reduction rate of 98 percent using solely organic input, and 55 percent to 65 percent mass reduction of Class 1 – mixed solid waste.

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A Closer Look

by Donna Currie

Organicycle

Justin Swan • 616-855-3377

Justin Swan, co-owner of Organicycle in western Michigan, said his location seemed to be the perfect place to launch an organic waste recycling business. "People in this area are willing to change what they do," he said, which is what needs to be done to sort organic waste from the portion that has to be land-filled.

He said that the area has "a lot of sustainable roots" while at the same time his business is seen as innovative, since there's no other company offering curbside composting. Unlike normal waste pickup, he said that his customers particularly like that "they can get something in return" in the form of worm castings that are sold to residents for their gardens.

The company also sells a variety of compostable products including trash bags, compostable cups, cutlery and lids to replace paper and plastic products.

"We sought out manufacturers to sell these products," Swan said, explaining that it was difficult to source the compostable bags which would fit home trash bins and were sturdy enough. He said that he was lucky enough to find a local source of a quality product.

Organicycle services both business and residential accounts, and sends the material to another company to do the actual composting. But it's not all about picking the material up. Swan said, "We do zero-waste events and provide our service, find a trash hauler and provide compostable products and bins."

They also offer a lawn-and-leaf program to neighborhoods where the proceeds go back to the neighborhood organizations, and sometimes those proceeds are donated to local charities. He said that the neighborhoods appreciated that not only were the bags from Organicycle cheaper than from other vendors, but funds were coming back to the neighborhood after the events.

Organicycle was founded in 2011 by Dan Tietema, who brought Swan in as his partner. Swan described Tietema as "a good entrepreneur" who has "a knack for sniffing out the next service within industries."

Before launching Organicycle, Tietema started bottling water before others in the area had thought of it, and he also started a business that picked up medical waste. When he saw an opportunity to start an organic waste recycling company, he called Swan and the company started targeting area businesses that already had a sustainable mission and wanted to be landfill-free.

To help fund their business, they worked with a local venture capital firm that invested \$5,000 each week with a different company, and those companies created presentations which were assessed to see if they would be funded further. Organicycle was one of the companies chosen for further funding.

From the beginning, Organicycle handled residential organic waste, but Swan said they weren't marketing it very much at first. In January, 2013, the company started its residential curbside programs.

The company wants to create turnkey programs that communities can bring in and implement easily, with an eye at expanding to other markets with the same concept. "You have to have an exit strategy or a growth strategy," Swan said.

He explained that in the local area people are already used to sorting metal and plastic from the landfill-destined materials. "The idea of green and sustainability has pretty much stuck, if it is clean and easy to do. People want to be part of the change."

Swan said that one extra sorting step that helps protect the environment is an easy sell, particularly when it also benefits the local economy by creating a product that can be resold. He called it "a simple step to a sustainable future" and said that soon it will be the new standard in recycling.

Right now, about 65 percent (by weight) of what is thrown away is compostable, 30 percent is recyclable and the remainder doesn't yet have any use beyond the landfill. So there would be plenty of material diverted from landfills if composting became commonplace.

While Swan wasn't the one with the idea to start the company, he has been very vocal in promoting it, making presentations and meeting with the community. And that community aspect has been embraced by both Swan and Tietema who believe that part of their responsibility as business owners is to give back to their community. "It is a key purpose in our business model," Swan said.



—Justin Swan, left, and Dan Tietema, right.

Covanta and Turning Earth to provide organics recycling

Covanta Energy Corporation, a sustainable waste management and renewable energy company, and Turning Earth, LLC an organics recycling company, have entered into a partnership to provide organics recycling to Connecticut municipalities and businesses. The 10 year agreement calls for Turning Earth to build, own and operate an integrated organics recycling facility in central Connecticut to which Covanta will divert organic waste for beneficial reuse in partnership with municipalities and commercial customers. Covanta and Turning Earth will explore future opportunities in the Connecticut and Massachusetts region.

The facility will be powered by Aikan™ Technology, a patented high solids anaerobic digestion and in-vessel composting system which converts organic waste streams into several valuable and environmentally beneficial products including renewable base load energy and high quality compost. Organic waste residuals provided by Covanta will come from Connecticut communities and businesses and will be comprised of yard waste, food waste and other organic waste streams.

Stephen Diaz, Covanta Energy vice president, commented, "Organics recycling is important to our customers and an important part of Connecticut Department of Energy & Environmental Protection's goals. This arrangement will now enable Covanta to provide our area municipal and commercial customers the ability to include organics recycling within their sustainable waste management programs."

Covanta's energy-from-waste facilities will continue to provide disposal

for post-recycled waste. Covanta's Connecticut facilities generate clean, renewable energy for more than 34,000 homes in the state and recycle enough metal to build more than 12,000 automobiles annually.

Organics recycling, like energy-from-waste facilities, plays an important role in reducing greenhouse gases. When organic waste decomposes in a landfill, it releases methane into the environment, a potent greenhouse gas that is 72 times more powerful than CO₂ over a 20 year period. Reducing and avoiding methane emissions from landfills, which are the third largest source of methane in the U.S., is one of the best ways to achieve a near-term beneficial impact in mitigating global climate change.

Christian Christensen, CEO of Solum Group and creator of the Aikan Technology remarked, "Aikan is a proven Danish technology that we have been working in partnership with Turning Earth to commercialize in the U.S."

Joanna Underwood, president of the national environmental organization Energy Vision, stated, "Organic wastes, which we have long just treated as 'garbage,' are in fact one of this country's most valuable energy sources. With today's technologies, they could displace up to 25 percent of all diesel fuel. We strongly support this groundbreaking Covanta-Turning Earth project."

Facility construction is anticipated to begin in the latter half of 2014 following site selection, the receipt of permits and procurement of organic waste.

EPA recognizes 26 colleges for donation and diversion

Twenty-six colleges and universities in the Mid-Atlantic Region have joined the Environmental Protection Agency's (EPA) Food Recovery Challenge (FRC) to date, including five schools that joined the challenge in the last month: Chatham University, University of Virginia, Towson University, Dickenson College and the University of Pittsburgh.

The Food Recovery Challenge encourages colleges, universities and other organizations to donate and divert as much of their excess food as possible. Organizations that join EPA's challenge find that they not only save money, but they also feed the needy and help protect the environment at the same time.

"The food donations to hunger-relief organizations made by colleges and other institutions can help the one in six Americans who don't know where their next meal is coming from," said EPA regional administrator Shawn Garvin. "In addition to feeding the hungry, the food donations go a long way to reducing greenhouse gas emissions

and lowering disposal costs for their campus."

In 2011, the U.S. created more than 36 million tons of food waste, making food waste the number 1 material sent to landfills. Once landfilled, food decomposes rapidly and becomes a major source of methane, a powerful and harmful greenhouse gas 20 times more potent than carbon dioxide.

Food waste generated by local institutions, hospitals, colleges, universities and restaurants is often actually safe, wholesome food that could feed millions of Americans, according to both the U.S. Department of Agriculture and EPA. EPA is working with institutions and hunger-relief organizations to increase food donations. Composting food waste also leads to important environmental outcomes. Composted food waste creates a valuable soil product that can be used to enhance the quality of soils.

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