



# American Recycler

NewsVoice of Salvage, Waste and Recycling

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## Accelerated depreciation a go for recycling equipment

The financial plan passed by Congress to shore up the United States financial system includes provisions of the Recycling Investment Saves Energy (RISE) legislation that would provide a 50 percent accelerated depreciation allowance for purchases of recycling equipment.

The RISE provisions were part of several energy savings provisions added by the Senate to the financial rescue plan after the U.S. House of Representatives voted against the recovery plan. The House agreed to the Senate-revised plan that includes several energy and tax provisions, including RISE. The scrap recycling industry has been seeking this accelerated tax depreciation allowance since the 109th Congress.

"We are immensely gratified and pleased that the Congress has chosen to pass the RISE provisions as part of the legislation dealing with the current financial crisis," stated Robin Wiener, president of the Institute of Scrap Recycling Industries, the national trade association for the scrap recycling industry. "RISE will lead to improvements in recycling by providing low-cost incentives for purchases of recycling equip-

ment that will ultimately help the United States reduce its energy use and greenhouse gas emissions while helping the United States economy and creating good manufacturing jobs."

At a time when worldwide demand for recyclable materials continues to grow, Americans continue to generate huge quantities of recyclable materials. RISE will encourage the procurement of sorting, separation and processing technologies that will enable recyclers to better process mixed materials, such as paper and plastics, into commodities that can be used as valuable raw material feedstock in additional manufacturing appli-

### *Equipment purchases mean employment for more Americans.*

cations. These new processing technologies will help expand America's recycling capacity.

"Spurring these new equipment purchases with RISE would also help grow the United States economy and create jobs," Wiener stated. "Scrap recyclers purchase heavy manufacturing equipment such as auto shredders, balers, cranes and shears among other equipment, creating manufacturing jobs. The capital costs of these new innovative technologies can range from hundreds of thousands of dollars to tens of millions of dollars per piece of equipment. As the scrap recycling industry continues to grow its processing infrastructure, it employs more and more working Americans throughout the country."

RISE also includes a reference to electronic "scrap" rather than waste, setting an important precedent for future legislation. This "important distinction helps change the negative perceptions (and regulatory impediments) that hurt recycling efforts here in the United States," said Wiener.

## Recycled tire market is steady

### Current economy is surprisingly easy on most tire recyclers

by Brian R. Hook

As jitters about the economy rise and recession fears mount, the market for scrap tires continues to hold steady at Auburndale Recycling Center Inc., a tire recycling facility in rural Wisconsin that processes around four million scrap tires a year.

"The flow of tires is strong. Demand has been good," said Jerry Swensen, president of the facility, which processes tires of all sizes to produce rubberized playgrounds, horse arenas, landscaping material, as well as tire-derived fuel.

"I was concerned the downturn in the economy and the rising cost of fuel would impact us," Swensen said. "But surprisingly, I have seen very little impact."

The recycling center used to pick up tires down into Missouri and Indiana, but Swensen said he had to shrink his service area because of high fuel costs. Auburndale Recycling Center, however, has been able to pass along some of the higher costs.



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"With the increased cost of doing business, everybody has become very aware of higher prices," Swensen said. "When you do have to pass along these costs to customers, they are much more ready to accept it because they've been seeing it for awhile."

Continued on Page 5

## Detroit Edison boosts reward amount for theft information

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Workers spend hours replacing stolen equipment.

Detroit Edison boosted the amount it will pay for information leading to the arrest of copper thieves and urged its customers to help stop the growing problem of copper cable and transformer theft by reporting illegal activity.

Copper thieves have not only targeted live power lines, but in recent months have taken transformers from Detroit Edison utility poles. Both practices are not only illegal, but extremely dangerous.

"We have to put a stop to copper thievery," said Michael Lynch, DTE

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# The Enviro-Rack

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## Call2Recycle announces 2008 award winners

Call2Recycle announced the recipients of the eighth annual "Recycling Leadership Awards". The Recycling Leadership Awards recognize Call2Recycle's community and public agency program participants for their efforts in rechargeable battery and cell phone recycling.

*The following groups were nationally recognized participants in the program:*

**King County, Washington Solid Waste Division; Seattle, Washington** – Since its enrollment in 2003, King County Solid Waste Division has recycled more than 33,000 pounds of rechargeable batteries through the Call2Recycle program, with more than 8,000 pounds collected this past year alone.

**Essex-Windsor Solid Waste Authority; Essex County, Ontario, Canada** – More than 9,000 pounds of rechargeable batteries have been collected during Essex-Windsor Solid Waste Authority's seven-year tenure with the program. The success of Essex-Windsor's rechargeable battery recycling efforts has resulted in a continual year-over-year increase in collection results, with more than 4,000 pounds collected in 2007.

*The following groups were recognized on a regional level for their participation in the Call2Recycle program:*

**Washington County Household Hazardous Waste Program; St. Paul, Minnesota** – Ongoing community involvement has helped Washington County's Household Hazardous Waste Program collect more than 8,000 pounds of rechargeable batteries since joining Call2Recycle in 2000. Through successful public education campaigns and partnership with GreenGuardian.com, the county collected almost 2,500 pounds of rechargeable batteries last year.

**Lancaster County Solid Waste Management Authority; Lancaster, Pennsylvania** – Almost 30,000 pounds of rechargeable batteries have been recycled since the county first received an award in 2002. A participant since 2001, Lancaster County Solid Waste Management Authority recycled more than 5,300 pounds of rechargeable batteries last year.

**Fort Hood, Directorate of Public Works, Environmental Division; Fort Hood, Texas** – The United States Army Fort Hood base has recycled more than 14 tons of rechargeable batteries during its 5 years of participation in Call2Recycle. Base employees are provided with instructional pamphlets for recycling processes and conforming battery chemistries to fortify the integrity of the collection program, resulting with nearly 7,000 pounds of batteries collected in 2007.

**Florida Division of Blind Services Bureau of Braille and Talking Book Library Services; Daytona Beach, Florida** – As one of the largest users of rechargeable batteries in the Southeast, the Bureau of Braille and Talking Book Library Services has had a significant positive impact on the environment by keeping more than 4,000 pounds of rechargeable batteries out of the landfills in just the last year.

## EPA proposes changes to hazardous waste shipment regulations

The United States Environmental Protection Agency (EPA) is proposing revisions to certain regulatory requirements for hazardous waste shipments between countries to ensure that recovery is done in an environmentally sound and economically efficient manner. These changes would make the Resource Conservation and Recovery Act's (RCRA) hazardous waste transboundary shipment regulations more consistent with those of the Organization for Economic Cooperation and Development (OECD).

Hazardous waste is often shipped between countries for recovery. EPA has

established an extensive set of regulations under RCRA governing the shipment of hazardous waste within the United States. Additionally, the United States participates in a number of bilateral waste agreements between countries and in the multilateral waste agreement controlling the shipment of hazardous waste for recovery between OECD Member countries.

Specifically, this rule proposes to revise:

- The existing RCRA regulation regarding the transboundary movement of hazardous wastes for recovery among countries belonging to the OECD to

conform to legally required revisions made by the OECD.

- The RCRA regulations for spent lead-acid batteries to add export notification and consent requirements.

- The hazardous waste import requirements.

- The address to which export exception reports are to be sent.

Comments were accepted for 60 days following publication in the Federal Register, which was expected by mid October.

More information is available at [www.epa.gov/epawaste/hazard/international/oecd-slab-rule.htm](http://www.epa.gov/epawaste/hazard/international/oecd-slab-rule.htm).

## Pennsylvania recycling investments will benefit manufacturers, environment, municipalities

New strategic investments targeted to increase the use of recyclable materials will help manufacturers manage energy costs, reduce pollution and bolster local recycling collection programs, Pennsylvania Governor Edward G. Rendell announced.

The Governor indicated that the commonwealth is making \$1 million available for manufacturers to buy equipment that increases use of recycled content in finished products.

The Governor also announced \$950,000 to continue the progress being made by the Pennsylvania Recycling Markets Center in expanding and devel-

oping markets for recovered materials, and stimulating demand for products with recycled content.

"Recycled materials are an important resource for Pennsylvania's manufacturers. They can cut soaring energy costs by incorporating recyclable materials that require less energy to process than virgin raw materials," said Governor Rendell.

The \$1 million available through the recycling markets infrastructure development grants program will help companies find new ways to use more types of recyclable materials. Grants of up to \$500,000 are available to buy machinery

or equipment that will increase consumption of recyclable materials recovered in Pennsylvania.

The grants are made to businesses and nonprofit organizations that will manufacture a product or reuse an existing product using recyclable materials.

Applications for recycling markets infrastructure development grants will be accepted until November 3. To obtain a grant application, visit [www.depweb.state.pa.us](http://www.depweb.state.pa.us), keyword: Market Development, or contact Charles Scheidler, Bureau of Waste Management, [cscheidler@state.pa.us](mailto:cscheidler@state.pa.us), (717) 787-7382.

## City of Savannah works to offer curbside recycling

The City of Savannah is currently gearing up to offer single-stream curbside recycling to their residents at the beginning of 2009. With assistance from the Curbside Value Partnership (CVP), the City of Savannah will roll out a grassroots education campaign encouraging residents to recycle curbside, rather than simply at the drop-off locations in the city.

Beginning this fall and running through 2009, CVP, a national program designed to help communities grow their curbside programs through education, will help the City of Savannah teach residents about the new curbside recycling system, specifically how and what can be recycled and the benefits to be gained.

The City will work with CVP to implement a local communication campaign designed to reach city residents through strategic advertising, participation in local events, partnerships and media relations.

Additionally, CVP will work with Savannah officials to unveil the new statewide recycling brand currently being developed by the state's Department of Community Affairs.

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# EPA settles with waste treatment facility

The United States Environmental Protection Agency (EPA) announced a \$304,500 settlement with Perma-Fix Northwest Richland, a waste treatment facility, for failure to properly manage hazardous waste and PCB waste at its facility in Richland, Washington.

Perma-Fix, which acquired the facility on June 13, 2007, has cooperated with EPA to improve its waste management procedures and come into compliance.

On March 6, 2007, EPA and the Washington State Department of Ecology conducted an inspection of the facility, located at 2025 Battelle Blvd., Richland, Washington, which was at that time owned and operated by Pacific EcoSolutions, Inc. (PEcoS). On June 14, 2007, EPA issued a Notice of Violation and a notice that the facility was unacceptable for receipt of Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) remedial waste, citing violations of the permit and Washington dangerous waste regulations.

Of greatest concern were:

- PEcoS's prolonged storage of dangerous waste and PCB waste;
- Failure to manage mixed-Toxic Substances Control Act (TSCA) regulated PCB waste properly in accordance with its permit;
- Failure to properly manage dangerous waste generated during treatment of low-level waste;
- Failure to determine if a generated solid waste is a dangerous waste;
- Failure to determine whether hazardous waste must be treated to meet Land Disposal Restrictions (LDRs);
- Disposal of dangerous waste at an unpermitted facility; and
- Transporting a dangerous waste without a manifest.

Perma-Fix worked promptly with the Agency to correct the violations and, by letter dated September 24, 2007, received notification of EPA's determination that the facility remained acceptable for the receipt of CERCLA off-site wastes.

# Waste Pro partners with SP Recycling

Waste Pro USA, Inc., in conjunction with SP Recycling, Inc., announced the opening of Waste Pro's Bradenton/Sarasota materials recycling facility (MRF).

The new MRF is co-located within Waste Pro's new trucking and customer service facility. Waste Pro just celebrated the grand opening of this new facility in Manatee County along with the start up of a long-term waste and recycling collection contract for Manatee County.

This facility will enable Waste Pro to have a combination of flexibility and operational savings by having the MRF right at its facility when the trucks empty their loads and are already at home for the night.

This will enable Waste Pro and SP Recycling to help reach the 75 percent recycling goal established in the Florida Legislature's 2008 Florida Energy Bill.

# Foam recycling facilities approved

Blue Earth Solutions, Inc. has been granted approval on its second of a series of planned municipal bond offerings nationwide for the construction of StyroSolve™ foam recycling facilities. The Gulf Coast Waste Disposal Authority (WDA) board of directors approved two resolutions agreeing to issue bonds for Blue Earth Solutions in Harris and Dallas Counties. Each inducement resolution was in the amount of \$10 million.

As soon as Blue Earth Solutions has approval from the Secretary of State, Gulf Coast WDA will file for state cap from the Bond Review Board. Blue Earth Solutions and Jesup & Lamont Securities are finalizing the details in connection with the approval and sale process for each of these bond offerings.

In addition to being granted approval on its second series of bond offerings the Company announced that it has also secured two new foam waste supply contracts within the Orlando market from Foam By Design, Inc. and Beaver Street Fisheries, Inc.

# Rewards

Continued from Page 1

energy chief security officer. "This is a dangerous activity for the people stealing copper, but also for the people affected by power outages caused by copper theft. As recently as last week we had 4,000 feet of power lines stolen from one location alone."

DTE Energy is raising to \$2,500 from \$1,000 the amount it will pay for information leading to the arrest of people stealing copper. In addition, the company will pay \$5,000, up from \$2,500, for information leading to the arrest of people buying stolen copper.

The number of copper theft incidents this year is keeping pace with 2007's record incident rate, but what has increased dramatically is the number of transformers being stolen, Lynch said. Last year, Detroit Edison experienced nearly 250 incidents of thieves taking copper from Detroit Edison power lines and equipment.

While a majority of the thefts have occurred in the Detroit area, copper cable theft is a growing problem across the state and across the country.

Both the Detroit City Council and the Michigan Legislature has acted to try to stem the tide of copper thefts. The City Council amended an ordinance to place stricter regulations on scrap metal dealers and scrap iron and metal processors, while the state legislature placed tougher penalties on certain entities caught buying or selling stolen copper cable. However, thefts have continued to rise as the local economy has soured.

Advice for the day:

If you have a lot of tension and you get a headache, do exactly what it says on the aspirin bottle, "Take two aspirin" and "Keep away from children."



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# Tire market

Continued from Page 1

The cost of maintaining equipment has also increased. Swensen estimates that the cost of parts has gone up between 50 to 100 percent. "Lead time to buy new equipment is ridiculously long because companies aren't keeping inventories," Swensen said.

Despite higher costs for fuel and parts, Swensen said he expects business to remain steady through next year. "By expanding our customer base and sourcing new customers, we are going to be able to keep the same volumes," Swensen said.

There is plenty of supply as well. Swensen said there is little competition in Wisconsin for scrap tires. Auburndale Recycling Center is the largest scrap processor in the state, processing between 35 to 48 percent of the tires generated in the state.

Supply and demand for scrap tires varies by region of the country, said Michael Blumenthal, vice president of the Rubber Manufacturers Association, a Washington D.C.-based trade group that represents the \$21 billion a year rubber industry.

The demand for scrap tires in New England is high, for example, but the demand is mostly for tire-derived fuel, while the demand for tire-derived products in the Southeast is also high, the demand is for ground rubber and tire-derived fuel.

"It is a function of where in the country you are," Blumenthal said.

Demand for tire-derived fuel is also strong in the North Central and Southwest regions. In the West demand for tire-derived fuel is moderate. "If you look at it from an overall view, demand is very good in most of the country," Blumenthal said.

There is strong demand for ground rubber from scrap tires in the Southeast, Southwest and the West, Blumenthal said, adding that there is only moderate demand sprinkled around the country for scrap rubber in civil engineering applications.

"We are seeing stronger markets than a couple of years ago," Blumenthal said. He said he expects the trend to continue, barring any major policy or regulatory changes.

The high cost of energy throughout most of this year has been a major driving factor for demand of tire-derived fuel, Blumenthal said. "What we are seeing in the fuel market is that tire-derived fuel is a very economical fuel. It is a readily available fuel."

Some large end users of tire-derived fuel have installed permanent feeding systems, driving up demand for scrap tires. "If you install a permanent feeding system, chances are you are going to continue using tire-derived fuel," Blumenthal said.

"We're going to see consistent demand, which is great for the industry."

However, the current turmoil in the financial markets might have an impact on the scrap-rubber market. For example, when property taxes go down, states and cities have less money to spend on schools, which means less money for replacing football fields with artificial turf made from scrap tires. "If it is a question of buying books or replacing a football field, most of the time they are going to buy books," Blumenthal said.

The slowing economy will also have an impact on households buying mulch made from scrap tires. "This is a luxury product that people use their discretionary income for," Blumenthal said. "With job losses and housing prices going down, I don't think people are going to be buying a lot of these types of items, not just mulch."

The economic turmoil currently underway is not hurting revenue or profit yet at GreenMan Technologies, Inc., which collects, processes and markets scrap tires.

Lyle Jensen, chief executive officer of the Savage, Minnesota-based recycler, said he expects both revenue and profits this year will exceed results recorded last year.

Revenue totaled \$7.5 million in the company's fiscal third quarter, ended June 30, 2008, compared to \$5.3 million in the same quarter last year. Net income increased 42 percent to \$2.9 million compared to \$314,000 during the same quarter last year.

"Supply is steady within our economic circle of collection and demand for our tire-derived fuel and crumb-rubber feedstock remains strong," Jensen said.

Changes are underway, however, at GreenMan Technologies. The company announced in September that it is selling its tire collection and recycling business to Pittsburgh-based Liberty Tire Services LLC for \$26 million. GreenMan Technologies will no longer collect or shred tires in the upper Midwest following the sale.

Instead, it will focus on recycled products, renewable fuel and alternative technologies. "GreenMan will be a consumer of scrap tire feedstock," Jensen said.

Post divestiture, expected in the fourth quarter, GreenMan Technologies will be based in Des Moines, Iowa and will continue operating its two remaining subsidiaries, Welch Products, Inc., and GreenMan Renewable Fuel and Alternative Energy, Inc.

Jensen said that the divestiture is part of the company's strategy of realigning its business model to focus on recycled products and other green-based technologies.

"There has been significant global investment made over the past several years in the area of renewable energy and clean-tech technologies," Jensen said.

"We anticipate devoting increasing resources over the next fiscal year to exploring our heightened participation in this fast growing global initiative."

*radio that there is a madman driving the wrong way on Route 310!"*

*Herman replied, "I know, but there isn't just one, there are hundreds!"*

# Central Ohio mailers support recycling awareness

The U.S. Postal Service and the Solid Waste Authority of Central Ohio (SWACO) have initiated two pilot programs that will help raise awareness of recycling disposed mail and reducing landfill waste.

Both programs will be identified under the banner of, "Read, Respond, and Recycle," said Joshua D. Colin, the postal service's Columbus district manager.

In the first pilot initiative announced, SWACO and the postal service joined a number of major central Ohio mailers to educate consumers that mail is recyclable.

The effort will use the 3Rs - "Read, Respond, and Recycle" - in a number of approaches to remind consumers to recycle mail once they are ready to dispose of it. The message will be carried in public service announcements, on websites and on outgoing mail pieces.

"SWACO is excited to partner with the U.S. Postal Service on 'Read, Respond and Recycle'," said Mills. "We hope this project will serve as a strong reminder to residents and businesses that much of what we throw away is recyclable. If you shred your mail after reading, we still accept that for recycling as well. Just put the shredded material in a bag to keep it from blowing around. Most of what comes to SWACO's Franklin County Landfill can be recycled. As a matter of fact, 43 percent of what is delivered to the landfill is paper or cardboard. That's about 375,000 tons annually! A lot of it is discarded mail. We believe the efforts by the Post Office and these direct mail customers will help us deliver the message that most mail can be recycled."

According to the EPA, advertising mail makes up 2.4 percent of municipal solid waste, while more than 35 percent of this

mail is now recycled. Mills said that 43 percent of what is delivered to the Franklin County Landfill is paper or cardboard that is recyclable.

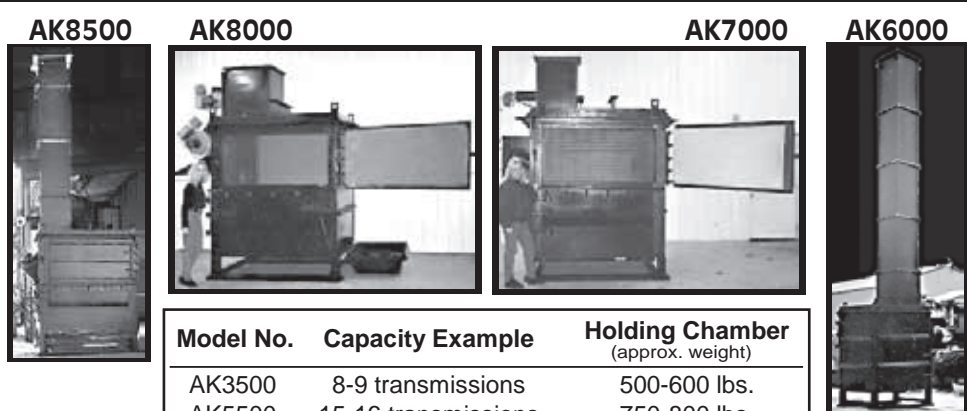
Adam Trabit, director of sales and marketing for Custom House Publishers, a Worthington-based company specializing in direct marketing strategies, said his company has already begun phasing in the recycling message onto an expected seven million customized newspapers in the coming year. "It is a small but effective way each of us can help," he said.

Another early supporter, Columbus-based Highlights for Children, anticipates the slogan appearing on six million of its catalogs this year, while Cheryl and Co., the Central Ohio company known for its cookies, said it will print the logo and tagline on its outgoing mail to customers "to help reiterate the importance of recycling." The company mails millions of catalogs each year. The law firm of Porter Wright Morris & Arthur, LLP plans to use the recycling logo on outgoing First-Class mailings, while Columbus-based Ohio Appliance Service Center, and its getmyfilter.com subsidiary, will place the logo on outgoing Priority mail and parcels.

In a second initiative announced in Columbus, locked and secure recycling containers will be placed in 23 Post Office lobbies in Columbus, Dublin, Hilliard and Westerville for use by post office box customers who wish to recycle.

Many customers who open mail and conduct business in the lobbies will now have the option of recycling discarded paper rather than sending it to landfills. Central Ohio Post Offices are the first in the nation to receive the containers.

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*There's an older driver on the highway. His wife calls him on his cell phone and in a worried voice she warns him, "Herman, be careful! I just heard on the*



# New grant program to combat illegal dumping in Pennsylvania

The Pennsylvania Department of Environmental Protection (DEP) announced a new grant program to provide communities with the tools and resources needed to restore illegal dump sites and it awarded \$1 million to PA CleanWays to continue its mission to cleanup and remediate illegal dump sites in communities throughout the commonwealth.

Pennsylvania will invest \$500,000 in the Illegal Dump Cleanup Grant program for communities and nonprofit groups.

The program will focus on the cleanup of illegal dumps; site restoration and beautification; surveillance of existing dump sites and remediated sites; enforcement of littering and illegal dumping ordinances; and public awareness and education to inform local citizens about illegal dumping, littering and clean-up activities.

Grants of up to \$25,000 will be awarded with a match of at least 50 percent of the grant amount by the grantee.

The grants are available on a competitive basis to any existing local government or incorporated nonprofit organization currently located in Pennsylvania. An applicant cannot, in any way, be responsible for any illegal dump located in Pennsylvania.

"PA CleanWays has shown a strong commitment to the elimination of illegal dumps and littering in Pennsylvania," DEP deputy secretary Thomas Fidler said. "In the past three years alone, PA CleanWays' volunteers have cleaned up 268 sites, hauling out 2,244 tons of trash, 288 tons of scrap and thousands of tires. PA CleanWays also provides important educational resources to help communities raise awareness on the hazards of illegal dumping and on affordable disposal and recycling alternatives."

With DEP financial support, PA CleanWays initiated an effort in 2005 to identify illegal dumps within each county across the commonwealth. The Illegal Dump Survey Program serves to educate state, county and local officials about the problem of illegal dumping so constituents at all levels can begin to address the problem through cleanups, municipal waste collections, and recycling programs. To date, these surveys have identified 2,600 dump sites with approximately 11,000 tons of illegally disposed trash in the 24 counties that have completed surveys. The grant award announced today will provide funding for 16 more counties to be completed by 2010, with an overall goal to have the entire commonwealth surveyed by 2012.

Grant applications are available at [www.depweb.state.pa.us](http://www.depweb.state.pa.us) keyword: Illegal dumping.

# Construction and demolition waste recyclers awarded

Two nationally-noted Big Diverter Awards were presented in October at the third annual WasteCap Wisconsin R3 Awards. Mortenson Construction and LaMacchia Group received the Big Diverter Awards for their excellent recycling rates.

Mortenson Construction received the Big Diverter Award in the construction category for the new \$189 million Aurora Medical Center in Summit. The project consists of the Aurora Medical Center and the Aurora Medical Office Building and Cancer Center, and which achieved a 94.94 percent project recycling rate.

Brad Folkert, Mortensons' construction executive in lieu of the Project Manager credits the high recycling rate to WasteCap's senior project manager Ralph McCall.

Folkert also gave credit to the 600 people who work on the site everyday for taking responsibility for the environment. They understand the importance of recycling and how to do it correctly. They have paid close attention to not mixing materials in dumpsters, which would contaminate the load, causing the hauler to rule the entire dumpster as trash.

The LaMacchia Group received the Big Diverter Award in the demolition category for reusing and recycling 96.55 percent of the demolition debris from an office and retail complex in Milwaukee's Historic Third Ward.

Mortenson Construction was also the recipient this year of WasteCap Wisconsin's Outstanding Commitment Award for their commitment to recycling on their sites and their experience and success in recycling. Mortenson recycles construction and demolition debris even when they are not required. Their projects recycle, according to the Company, because, "it's the right thing to do".

The Wisconsin Department of Administration, Division of State Facilities was awarded the Outstanding Partnership Award for its role in sharing WasteCap's vision of transforming waste into resources. The Division of State Facilities is working to incorporate recycling on all State of Wisconsin projects. They are working in partnership with WasteCap and with the support of the Wisconsin Department of Natural Resources to develop methods, documentation and trained staff to result in successful recycling on State of Wisconsin projects.

City Wide Recycling's co-owner John Hansen was present to receive the Innovative Achievement award for the firm's trail-blazing initiative, taken in establishing the first-in-the-state facility which takes mixed construction debris and separates it for recycling.

# Wood Biomass Market Report dispels 'overabundant waste wood' myth

The Wood Biomass Market Report released in October dispelled a widespread thought in regards to the availability and cost of wood fiber for wood biomass projects.

The Report, published monthly by RISI, an information provider for the global forest products industry, reported that operators of new wood biomass

projects, often industry newcomers, are finding that their wood cost projections were unrealistic and that to their surprise, existing mills are willing to fight with dollars to preserve their wood supplier loyalty. The Report also stated that these operators, hungry for large volumes of wood, and frequently armed with government subsidies, are finding

that the perceived overabundance of "waste wood" in the nation's forests is simply not there. As a result, the increased demand for more traditional forms of wood fiber has already triggered wood price spikes and cross-grade competition in the tightest markets.

William Perritt, editor of the Wood Biomass Market Report, commented, "Recent and upcoming project starts in the energy, pellet, and biofuels sectors will add an estimated 37 million tons per year to existing wood fiber demand in North America, and that number could easily jump to 50 million tons in short order."

*"You can clearly see the prices for wood fiber in most regions of North America, as reported in our Report, seeing significant increases."*  
—William Perritt

He continued, "In the rush and excitement to develop North America's largest renewable energy source, established low-grade wood consumers have not always responded positively to the appearance of new players, and these new players should understand that they are going to have to fight much harder than they might have planned to procure enough wood fiber to run at their capacity."

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# New Jersey recycling leaders awarded for 2008

Recycling awards were presented on behalf of New Jersey Commissioner Lisa Jackson during the 28th New Jersey Recycling Symposium and Awards Luncheon. The DEP and the Association of New Jersey Recyclers co-sponsor the event each year.

The awards ceremony recognizes the vision, innovation and leadership of individuals, organizations, businesses and government entities that have taken notable steps to boost recycling during the past year.

Winners of the 2008 Recycling Awards are as follows:

**Institution category winner:** Lavallette Elementary School, Lavallette - The school implemented a recycling program that is a model for team work. The school went beyond traditional recycling of bottles, cans, paper and cardboard by also recycling food scraps, printer cartridges, batteries, computers, and cell phones.

**Business category winner:** Anheuser-Busch, Inc. - Anheuser-Busch

is one of the largest recyclers of aluminum cans in the state and reclaims nearly all of its waste and byproducts. For example, the Newark brewery recycled 293 million pounds of its 295 million pounds of waste last year. The company also encourages its employees to participate in the company's efforts through a computer-based and paperless suggestion program.

**Government category winner:** Trap Rock Industries, New Jersey Department of Transportation and Rutgers University - Kingston-based Trap Rock, working in conjunction with the New Jersey DOT and Rutgers, developed a process that recycled more than 80,000 tires in repaving of Interstate 95. They subsequently developed specifications for continued use of the material.

**Leadership category winner:** Janet Pellichero, Princeton Township recycling coordinator - Under Pellichero's leadership, Princeton Township achieved a 49 percent recycling rate in 2007. She routinely visits schools and businesses to

evaluate recycling compliance. Recycling containers are regularly maintained at all township parks and recreation fields. Pellichero implemented a community paper-shredding program, an e-waste recycling program and disseminates recycling information to the community through web sites and mailings.

**Rising star category winner:** Rowan University, Glassboro - Rowan developed a community-wide effort through its students that has consistently been recognized with national environmental awards. The school was the first institution of higher education in New Jersey to convert to single-stream recycling. With its recycling committee, student recycling team and President's Council for Sustainability, the university is a model for recycling.

**Rising star category winner:** Thomas Quinn, Mansfield Township School District - As facilities manager for the Mansfield Township School District in Burlington County, Quinn has developed a "Green Team" approach to

generate staff support for improving the district's recycling efforts. The district has now diverted most of its recyclables from the waste stream.

**Educational program category winner:** Ocean County Master Composting Program - Under the auspices of the Ocean County Department of Solid Waste Management, the program is a growing network of volunteers that spreads awareness of the benefits of home composting free of charge to county residents. It now has about 50 active members.

**Volunteer citizen category winner:** Megan Giulianelli - The part-time teacher and mother of a fifth-grader spearheaded an environmental filmmaking project at the Glen Ridge Upper Elementary School. Designed to appeal to children in Kindergarten through eighth grade, the film provides practical tips on how to recycle. The film was released on-line and on DVD.

## Air permit granted to York County recycler

American Ash Recycling Corp. was issued an air quality permit by the Department of Environmental Protection for processing municipal waste incinerator ash at its facility in York County, Pennsylvania.

The permit follows a decision by the department to authorize American Ash to remove metal from incinerator ash generated when waste is burned at the York County Solid Waste and Refuse Authority's facility.

## Away-from-home recycling program launched

### Recycling bins are expected to collect 900 tons of beverage containers

Midwest Coca-Cola Bottling Company and Coca-Cola Recycling, LLC (CCR), announced a partnership with Holiday Stationstores to enable beverage container recycling at Holiday stores around the Twin Cities. Midwest Coca-Cola Bottling Company and CCR will work with the Recycling Association of Minnesota (RAM) to manage the program.

Giant, bottle-shaped recycling bins will be placed on each fuel island at Holiday Stationstores. Through vocational centers, RAM will employ adults with disabilities to pick up the materials and sort them at the designated sorting facility. Finally, the collected material will be returned to Midwest Coca-Cola Bottling Company in Eagan, Minnesota to be processed and recycled into new cans and bottles.

The recycling program will be up and running at all 150 Twin Cities Holiday stores by the end of 2009.


According to Ellen Telander, director of the Recycling Association of Minnesota, "Most Minnesotans recycle at home, but studies show that recycling rates decrease dramatically when people are away from home. We hope this program will reverse that trend."

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## ELECTRONICS

# Illinois passes e-waste legislation

Illinois Governor Rod R. Blagojevich signed legislation requiring electronics manufacturers to collect and recycle or reuse electronics products. The announcement was made on the same day the United States Government Accountability Office released a report on e-waste dumping and scolded the United States EPA for failing to adequately address the problem of electronic products containing hazardous waste.

As one of the most comprehensive pieces of electronics collection and recycling legislation in the nation, Senate

Bill 2313, sponsored by Sen. Susan Garrett (D-Highwood) and Rep. Elaine Nekritz (D-Des Plaines), protects the environment and citizens of Illinois from harmful toxins in electronics waste.

At no charge to consumers, the law authorizes the use of a combination of incentives and mandates to reduce the ever-increasing amount of electronic waste – televisions, printers, computer monitors, computers, laptops, printers, fax machines and MP3 players – and their toxic substances, such as lead, cadmium, copper, flame retardants, and

phosphorus, from being disposed in Illinois landfills. It also gives manufacturers flexibility in the strategies they use to meet their goals, such as partnering with retailers and local governments to sponsor collections. Manufacturers, recyclers, refurbishers and collectors must also register annually with the Illinois EPA.

Effective January 1, 2012, landfills would be prohibited from knowingly accepting any of the covered electronic devices for disposal.

SB 2313 is effective immediately.

## WM Recycle America commits to E-Stewards Pledge

Waste Management Recycle America announced its commitment to adopt the Electronics Recycler's Pledge of True Stewardship for the dismantling and recycling of electronics waste.

Signatory companies of the pledge are required to prevent hazardous e-waste from entering municipal incinerators or landfills; to prevent the export of such e-waste to developing countries; and to provide visible tracking of e-waste throughout the product recycling chain. The pledge confirms that the company will conduct its electronics recycling programs transparently and in accord with rigorous environmental and worker safety standards.

"We are thrilled to see Waste Management Recycle America choose to commit itself to these rigorous environmental and social criteria and differentiate themselves markedly from the vast majority of irresponsible companies now pretending to be reputable electronics recyclers," said Sarah Westervelt of the Basel Action Network.

To encourage consumers to dispose of electronic devices in an environmentally sound manner, WM Recycle America has partnered with Sony and LG Electronics, two of the nation's largest consumer electronics brands, allowing their customers to drop off for free all of their Sony, LG, Zenith or GoldStar branded electronics waste at more than 150 eCycling drop-off centers across the country.

## MRM and CRT Processing launch recycling program

Based on preliminary approval by the Oregon Department of Environmental Quality of its new state-wide Oregon program, the Electronic Manufacturers Recycling Management Company, LLC (MRM) and CRT Processing, LLC, announced the start-up of the MRM Group Manufacturer Plan, three months in advance of the state-mandated start-up date.

Working with 21 leading electronics manufacturers, MRM is scheduled to operate the largest electronics recycling program in Oregon. The first three months of the program's operation will be used to test its performance, and will

be funded by Panasonic, Sharp, Toshiba and CRT Processing. Beginning in January 2009, financing for the program will come from the 21 participating manufacturers.

Oregon state law requires manufacturers of certain electronic products, including computers, monitors, laptops and televisions that are generated by Oregon households, small businesses and organizations to provide free and convenient recycling services starting January 1, 2009. The law permits manufacturers to work collaboratively to address the challenge of e-waste recycling.

The Pacific Northwest's largest non-profit recycler, Goodwill Industries of Columbia Willamette (GICW), will partner with CRT Processing in the new MRM program. Utilizing its existing network of 38 stores and 58 donation centers, Goodwill will accept all electronics free of charge and transport the products to CRT's Clackamas location.

MRM already operates in Minnesota and is in the process of developing collection and recycling programs in other states and jurisdictions, including Connecticut, North Carolina, New Jersey, New York City, Oklahoma, Texas, Virginia and West Virginia.

*Overheard at a computer store: "I want a game capable of holding the interest of my six-year-old, but it's got to be simple enough for his father to play, too."*

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# PAPER/WOOD

## Kimberly-Clark wins EPA SmartWay Environmental Excellence award

For the second year in a row, Kimberly-Clark Corporation received an Environmental Excellence Award from the U.S. Environmental Protection Agency SmartWay Transportation Partnership for its leadership in conserving energy and lowering greenhouse gas emissions.

Kimberly-Clark's 2007 SmartWay action plan included investing in a strategy to locate distribution centers near large cities, implementing a new transportation management system and collaborating with internal and external supply chain partners.

As a result, Kimberly-Clark reduced its usage of diesel fuel by 1.7 million gallons and decreased carbon dioxide emissions by 113,728 tons, which is the equivalent of removing over 15,000 cars from the road.

"We are very pleased to receive the SmartWay award," said Steve Harmon, vice president of transportation for Kimberly-Clark.

Kimberly-Clark was one of 27 companies and organizations from among the Partnership's more than 1,000 Partners to receive this distinction. The awards were announced at the annual conference of the Council of

Supply Chain Management Professionals in Denver, Colorado.

SmartWay Transportation Partnership is a collaboration between the United States EPA and the freight sector designed to improve energy efficiency, reduce greenhouse gas and air pollutant emissions, and improve energy security.

**"Not only are we operating more efficiently and effectively, which is good for business, but we are doing our part to improve the environment."**

—Steve Harmon

Through the SmartWay Partnership, companies are conserving over 540 million gallons of diesel fuel per year, saving the trucking industry at least \$2.3 billion in annual fuel and maintenance costs and eliminating over 6 million tons of carbon dioxide emissions.

Kimberly-Clark recently received additional recognition for its overall sustainability accomplishments — ranking first for the fourth consecutive year in the personal products category of the Dow Jones Sustainability World Index.

## Wood recycler faces million dollar fine for failure to secure required state air permits

The New Jersey Department of Environmental Protection has fined a Mercer County wood and mulch recycler more than \$1 million for operating various pieces of diesel-powered equipment at its facility without the necessary air permits, Commissioner Lisa P. Jackson announced.

Britton Recycling, located on Bakers Basin Road in Lawrence Township, also faces an order to cease operations if it does not immediately secure the necessary air permits and equipment operating certificates.

"The company has repeatedly snubbed DEP orders to obtain the proper permits. No company, even a recycler, is above the laws and regulations of this state," Commissioner Jackson said. "The company even added new equipment while under DEP orders to secure permits for existing equipment. As a result, this company faces stiff fines and potentially being shut down."

The DEP has issued administrative orders stemming from a host of violations involving the operations of equipment including wood grinders, tree chip-

pers, mulch-baggers, screening machines and conveyer belts.

The company was further cited with failure to comply with previous administrative orders regarding lack of permits as well as failure to maintain emission statements.

Based on information available about the equipment used at the facility, the DEP estimates Britton Recycling has the potential to emit 319 tons of nitrogen oxides and 27 tons of particulates in a year. This means the company would be categorized as a major source of air pollutants under state and federal laws.

***Air permits are required in an effort to control diesel-causing ozone pollution.***

The enforcement actions result from inspections this year by the central region office of the DEP's Air Compliance and Enforcement program. The penalty calculation is based on the company's operation of equipment without permits on 105 days between April 24 and August 8.

## AF&PA names Paul Noe VP for public policy

The American Forest & Paper Association (AF&PA) announced that Paul Noe has been named vice president for Public Policy. Noe will lead AF&PA's policy development and regulatory advocacy and support its government affairs efforts.

Noe has extensive regulatory, legislative and technical experience, including in the environmental, energy, natural resources, and regulatory policy arenas. He most recently served as vice president of Regulatory Affairs for the Grocery Manufacturers Association, where he worked on a wide range of issues including sustainability, green chemistry and regulatory issues.

Previously, Noe served at the White House Office of Management and Budget as Counselor to the Administrator of the Office of Information and Regulatory Affairs. He also has been a lawyer in private practice, most recently as a partner with C&M Capitolink LLC, as well as counsel in Crowell & Moring's Environment & Natural Resources Group. In all of these positions, he worked closely with clients on environmental, energy and regulatory policy, as well as other issues central to manufacturing and agriculture.

Noe currently serves on the Council for the American Bar Association's Section of Administrative Law and Regulatory Practice and chairs its Rulemaking Committee.



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## AUTO

### Toyota opens first green dealership in the West

Mark Miller Toyota, located in Salt Lake City, Utah, has been designed from the ground up with environmental standards in mind and expects to earn a Gold LEED Certification in the near future.

The majority of Mark Miller Toyota's facility is made up of construction elements that are designed to conserve energy and water. The dealership was built to maximize local and recycled materials.

In building the new dealership, Mark Miller Toyota retained much of the original building on the site to further reduce the needs for new materials in construction. Most of the building waste was recycled. Eco-friendly elements include:

- A high-performance, high-efficiency heating and cooling system;
- Innovative sun-tracking skylights to optimize natural daylight use to lower interior light use;
- A cool-roof system to lower the overall heat that comes off large buildings;

- Self-sustaining landscaping that requires a minimal amount of water;

- Low-flow faucets and toilets as well as waterless urinals to conserve water and use of 300 MPH paperless hand dryers;

- A cistern system to collect and store rainwater and air conditioning condensation for irrigation and for washing cars;

- High-speed glass service bay doors to reduce heat and cold loss from service areas while providing additional light to the interior;

- Recycled materials used in tile, carpeting, wood paneling and cubicles including the use of recycled windshield glass used as carpet backing; and

- A full-service cafe as well as a fuel farm on-site so employees won't have to drive to get something to eat or to fuel their cars.

Mark Miller Toyota expects to be the first dealership in the West to ever earn LEED certification by the US Green Building Council.

### Ford awarded \$10 million grant to speed development of plug-ins

Ford Motor Company has been awarded a \$10 million grant by the United States Department of Energy for research, development, and demonstration of plug-in hybrid electric vehicles (PHEVs).

Ford received the grant for the continued development of a demonstration fleet of 20 PHEVs. The total project cost is \$20 million, and the government will fund 50 percent of the program.

In June, Ford delivered the first flexible fuel capable plug-in hybrid electric SUV to the Department of Energy. The Ford Escape Plug-in Hybrid, capable of running on gasoline or E85, is part of a demonstration fleet Ford is developing in a partnership with Southern California Edison, the Electric Power Research Institute, DTE and Johnson Controls/Saft.

Advanced vehicle testing is underway in California, Michigan and Washington, D.C. The company delivered the first gasoline-only Escape PHEV to Southern California Edison in December 2007.

The Ford Escape PHEV is equipped with a 10 kilowatt advanced lithium ion energy battery supplied by Johnson Controls/Saft that stores enough electric energy to drive up to 30 miles at speeds of up to 40 mph. The battery works in tandem with a small, four-cylinder engine.

Based on current estimates, the vehicle would emit 60 percent less CO<sub>2</sub> than a conventional gasoline-powered vehicle. The CO<sub>2</sub> reduction would reach 90 percent if cellulosic ethanol is used in place of gasoline.

### Honda provides update on its environmental performance

Honda released their fourth annual North American Environmental Report. Some of the highlights from their report include the following:

- The United States corporate average fuel economy (CAFE) for model year 2007 Honda and Acura cars and light trucks rose to 29.5 miles per gallon, the highest level in five years, based in part on the expanded application of fuel-efficient technologies like i-VTEC® variable valve control for 4- and 6-cylinder engines, and second-generation Variable Cylinder Management™ for V-6 engines.

- Three Honda facilities in North America attained Leadership in Energy and Environmental Design (LEED) certification from the U.S. Green Building Council in FY2008. Three additional facilities, two in the United States and one in Canada, will seek LEED certification in FY2009.

- 81 percent of automobiles were shipped by rail, the most fuel-efficient means of product transportation. CO<sub>2</sub> emissions from automobile transport were reduced by 5,493 metric tons though the use of more fuel-efficient Auto-Max railcars.

- A \$7 million renovation of Honda's Ohio product distribution center, improved efficiency and reduced consumption of diesel fuel by more than 500,000 gallons.

- Promotion of "green factory" practices to more than 650 North American OEM supplier partners helped lead 85 percent of suppliers to be third-party certified to ISO 14001 environmental management standards in FY2008, up from 80 percent in the previous fiscal year.

- Total waste from manufacturing processes sent to landfills was reduced 34.5 percent in 2008, exceeding their target of a 70 percent reduction from their baseline by 2010. In 2008, Honda Canada's two automobile plants joined four other Honda plants as "zero waste to landfill" facilities, including Honda Manufacturing Alabama which was the first automobile plant in North America to achieve zero waste to landfill status.

Zero waste to landfill facilities include Lincoln, Alabama; El Salto, Mexico; Swepsonville, North Carolina; Alliston, Ontario, Canada – Plant 1; and Alliston, Ontario, Canada – Plant 2.

### New York recycler removes over 15,000 mercury switches

Brookfield Resource Management, Inc., located in Elmsford, New York, has removed more than 15,000 mercury switches from end-of-life vehicles at its Westchester County facility.

The mercury switches were collected over the past two years at the company's Elmsford facility and sent to the End of Life Vehicle Solutions Corporation (ELVS) for safe mercury recovery.

"The cost to remove a switch from a vehicle is more than we receive in income for the recovered mercury, but this program isn't about financial results

it's about environment gain," said Tom Malone, president, Brookfield Resource Management, Inc.

The Environmental Protection Agency (EPA) and various industry groups, including auto manufacturers, steel makers and recyclers, started the National Switch Recovery Program in August 2006. The program's goal is to prevent toxic mercury emissions when vehicles are recycled. The EPA estimates that about eight tons of mercury per year is emitted from furnaces that melt scrap metal from end-of-life-vehicles.

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# AUTO

## Iowa encourages proper recycling of vehicles

by Irwin Rapoport

The State of Iowa is considered to be a leader based upon its program that informs residents and businesses about disposal of their vehicles when they reach the end-of-life stage.

The Department of Transportation (DOT), through its website, gives residents several options for vehicle disposal with an individual, dealer or recycler, or to donate it to a nonprofit organization.

"It's an attempt to encourage people to comply with the recycling, salvage and certificate titling laws," said Major Paul Steier, with the Iowa DOT's Office of Motor Vehicle Enforcement (OMVE). "In general people want to do what is right and they don't want to spend a lot of time and money to dispose of a junk car."



—Paul Steier

The nation's faltering economy has led to more people operating older vehicles, while at the same time, demand and prices for scrap metal continue to rise.

"With prices increasing, we're finding more people involved in the scrap business and trying to be in the business of helping people dispose of their cars," said Steier. "We want to see people complying with the law and follow the steps, as well as the people in the business of picking up or disposing of vehicles."

The transfer of proper ownership documents from the seller to the purchaser and registering that information with the DOT is essential to protect the former owner from any possible legal implications and ensure that the state is aware of the vehicle's status.

The website is receiving a fair amount of inquiries and the OMVE is receiving a lot of calls from people and companies.

"The businesses that are licensed appreciate the interest that the department has taken in regards to compliance because these firms have to maintain their licensing, insurance and have to be zoned properly," said Steier. "It's a considerable financial cost compared to somebody who is not licensed."

"A lot of vehicle owners don't typically deal with the disposing of a car," he added, stressing that many return their cars to dealers when purchasing a new one and have no idea of the paperwork involved in the process. "There is a liability concern if they sell their end-of-life vehicle to someone who maybe takes the car and uses it for ill gain. If the proper documents have not been transferred, the previous owner may be held accountable for problems that may occur from the use of the vehicle."

A growing concern for the environment is one of the reasons why Iowans are taking steps to ensure that cars are properly recycled. The Iowa Recycling Association has been active in supporting environmental awareness. Having vehicles properly recycled is also in the interest of the state's Department of Natural Resources, which will have a better understanding of where cars are being recycled and if those operations are following state regulations.

"It's a higher level of accountability," said Steier. "A big concern now is the disposal of fluids, tires and other parts of a vehicle. People do not want to see these materials contaminate the groundwater."

The DOT recently put out a press release entitled Iowa DOT puts illegal motor vehicle scrappers on notice.

The OMVE is currently cracking down on and stepping up investigations

into the activities of illegal motor vehicle scrappers, including persons placing classified advertisements on websites and local newspapers, as well those putting up signs that say "WE BUY JUNK CARS FOR CASH \$\$\$."

According to the press release, "High scrap metal prices have made illegal scrapping a lucrative moneymaker for those who prey on Iowans anxious to get rid of their junk vehicles. It's not uncommon for these individuals to make false claims such as 'We are able to remove vehicles without titles.'"

"Legitimate entities that are properly licensed as authorized vehicle recyclers know the requirements for accepting vehicles to process as scrap metal," said OMVE Major Kerry A. Kirkpatrick, "and refuse to take vehicles from individuals that don't have the necessary paperwork to transfer ownership."

Steier agrees that the established auto recyclers are trying hard to comply with regulations, and notes that some people enter the disposal and salvage business on a part-time basis with the best of intentions.

"That's where we want to get to those people and help educate them on what the laws and regulations are," he said. "We will have investigators go out to a site to help them conform to regulations."

The majority of vehicles go through auto dealers and recyclers, but

concerns are growing about small, unlicensed operations that are the subject of investigations. Salvage laws have been enforced for the past 30 years, as have education campaigns, but high scrap prices have called for heightened efforts.

Businesses that do not have proper salvaging licenses have been fined. Auto dealerships are also required to have licenses. Fines for not having one start out at a \$250 minimum, with judges having discretion to raise the fine.

Current recycling laws charge violators with a serious misdemeanor for breaking the law, with fines ranging between \$250 and \$1,000 and/or 1 year in jail.

"We are trying to update our salvaging and recycling laws," said Steier. "We try very hard to communicate with the Justice Department, various legislative subcommittees and with dealer and recycling associations to educate them on what we see the real issues and problems."

When asked if a small state incentive, such a tax deduction or credit, be given to residents in return for ensuring that vehicles are properly transferred when they reach their end-of-life stage, Steier replied, "That is certainly a viable option to help encourage people to comply and properly dispose of their vehicle."

## Pull-A-Part receives Tennessee environmental award

Pull-A-Part was the recipient of the Tennessee Chamber of Commerce & Industry award for outstanding environmental accomplishments for its Knoxville, Memphis, and Nashville locations at the annual Tennessee Chamber Environmental Conference.

Pull-A-Part was presented with the award for Solid Waste Management and achievement certificates for significant contributions in air quality, water quality, hazardous waste management and environmental excellence – receiving recognition in all five award categories again for the third consecutive year. The award winners were selected by a committee consisting of members of the Tennessee Department of Environment and Conservation.

Pull-A-Part was acknowledged for its efforts in going beyond regulatory

compliance and devoting resources to produce an environmentally safe raw material for the steel recycling industry while eliminating the potential for automotive fluids and chemicals to pollute Tennessee's land, water, and atmosphere. The company also opens its facilities to police and fire training programs in the areas it serves.

Based on recycling an average of 3,000 tons of automobiles each month at the three Tennessee locations, Pull-A-Part annually prevents, as a result of a unique de-pollution process, 4.5 million pounds of waste from entering Tennessee landfills. Additionally, each location recycles approximately 50,000 gallons of oil, gasoline, brake fluid, transmission fluid and antifreeze, as well as thousands of lead-acid batteries, each year.

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# ON TOPIC — Q & A

by Irwin Rapoport

## Rubber pavement progresses

The Rubber Pavements Association (RPA) has been a strong advocate for use of tires in asphalt concrete mixes for highway construction in the United States and its advocacy efforts are paying dividends.

American Recycler recently spoke with Doug Carlson, executive director of the RPA, to learn the latest on technological developments and what more can be done to have the road construction industry play a greater role in the recycling of tires.



—Doug Carlson

### What type of technological advances have been made in terms of the use of rubber from tires in asphalt concrete mixes?

**Carlson:** There are two sides to the industry, tire recycling and asphalt-rubber manufacturing. Generally speaking, the whole tire processing industry is still relatively new, having gone "mainstream" in the mid 1990s, and there has been some good advances.

On the asphalt side, material property tests and standard specifications used by the city, county and state paving agencies have better defined the technology to generate consistent performance of the pavements in the field.

The common usage today is about 20 percent tire rubber and 80 percent asphalt cement used as a binder for asphalt concrete (8 percent binder and 92 percent rock) surfaces in the top one to two inches on a roadway.

The blending equipment used to combine the solid tire rubber particle and the liquid asphalt cement has advanced tremendously since the 1970's when the first roads in Arizona were paved. Computer controls have been a great help and more accurate meters, scales and heating efficiency have boosted the quality for mass production and large-scale projects.

A new technology used to measure tire/pavement noise called On Board Sound Intensity (OBSI), where a microphone is mounted to a vehicle and tuned to a tire as it drives on the highway, has really demonstrated the long-term performance of rubber pavements with respect to overall traffic noise. At speeds of 45 mph and greater, the tire noise on automobiles can be over 75 percent of the total traffic noise.

This new technology gives the pavement maintenance engineer an effective tool to control and lower traffic noise impacts on the community along the entire length of the highway instead of hundreds of spot checks along the side of the road, which is the current technology.

### Is the use of tires in various mixes of asphalt concrete increasing or decreasing?

**Carlson:** The use of tire rubber in asphalt is increasing. The very positive field performance of roads constructed using the proven standard specifications has caught the attention of many engineers outside of Arizona, California, and Texas where tire rubber has been routinely used for 10 to 40 years.

Growth in the United States has been about 10 percent each year, but outside the United States it has been much higher. For example, the market in China five years ago had little or no producers and

now there are reportedly over 20 blenders in that country (the United States has about 30).

### Is government helping or hindering the campaign to promote the use of tires in highway construction?

**Carlson:** I don't see anyone hindering the process, but policies such as the Noise Policy are very slow to change. If the United States policy were to change and allow states to use rubber to control noise, every state would use it within a year.

### What is being done to lobby highway construction companies to use tires in their mixes? Are they lobbying for the increased use of tires as material?

**Carlson:** Most highway construction companies spend most of their time just building what the paving agency specifies in the construction contract. They would use tire material if a project specified it for use. So the key is the specifier, or designer of the project.

Individual companies that have invested in the asphalt-rubber blending equipment often do valued engineering proposals for projects that are not currently specifying tire rubber. The value engineering proposal shows either the cost saving upfront, through a reduced thickness application, or a life cycle cost savings where the road maintenance can be reduced by \$20,000 per mile over twenty years because the tire material is so effective at stopping cracks.

Highway construction is an extremely competitive business and those that see the advantages of using tire rubber and how the market can grow in their area can grab the public domain technology and really run with it and have a competitive advantage. However, those companies that don't want to invest may wish to push the potential rubber champions out.

Some asphalt refining companies have created asphalt materials where the tire rubber is completely dissolved in the liquid asphalt and they have done some damage to new markets creating much confusion in the engineering community. Engineers are expecting asphalt-rubber, but get something else instead.

### Should government introduce legislation to set quotas for the use of tires as road construction material? What type of tax incentives and credits should be offered?

**Carlson:** The RPA advises against mandates or quotas and has dedicated the last 10 years or more to training and education for engineers so that they voluntarily choose to use asphalt-rubber. An engineer out of Texas once told me that "the best way to build a road is to keep the water out of the base material and the politics out of the surface."

## METALS

# Scrap recyclers warn of consequences from anti-theft legislation

The Institute of Scrap Recycling Industries (ISRI) called on members of Congress interested in truly combating metal theft to take a step back to look at the big picture.

"In the last minute rush to appear concerned about metal theft, a bill was introduced in Congress to deal with copper theft that could seriously harm recycling, while never once mentioning the thief!" said ISRI spokesman Bruce Savage. "The legislation introduced by Rep. Bart Stupak (D-MI) and Sen. Amy Klobuchar (D-MN) is the copper theft equivalent of addressing bank robbery by punishing the bank for having the money."

ISRI has been actively working with law enforcement and businesses that are often victims of metal theft for more than two years – long before recent Congressional efforts to address the problem.

More than two years ago, ISRI provided recommended practices to the scrap recycling industry encouraging them to reach out to police and leaders in their community, to take additional identification from scrap peddlers who are not regular customers, to maintain and make available records of scrap transactions that can aid prosecutors in taking these cases to court, and to avoid accepting materials suspected of having been stolen by making certain items off-limits except by authorized owners.

"Recyclers have been working to be a part of the solution to this national

problem for years, but were never once contacted before these pre-election bills were introduced," Savage said. "The bill fails to take advantage of industry expertise; fails to consider the many successful local coalitions of recyclers, police and victims groups; fails to encourage better protection of vulnerable materials; and fails to strengthen punishment for the thieves. No doubt the authors are trying to do the right thing, but their rush-job effort to introduce a bill before the election fails to address the root of the problem and will bring serious harm to recycling and environmental protection."

The recycling industry has experienced the unintended consequences of bad legislation before. In recent months, cities, counties, and states across the country have sought legislative solutions to the problem of metal theft, many of which have not achieved their stated goal.

"Their goal was to curb metal theft but their result was to curb recycling in general!" Savage said. "Efforts to curb metal theft should address theft prevention and punishing the thieves, employ successful strategies and should promote recycling in general."

Savage noted that, while the problem of metal theft is unquestionably a problem in communities around the country, stolen material makes up only a small fraction of material that comes to a scrap yard each day.

## Alter Metal promotes facility manager

Alter Metal Recycling has promoted Greg O'Leary to facility manager of Alter's Anoka, Minnesota, location.

O'Leary joined Alter in 1999 as a management trainee in the company's Des Moines, Iowa, facility. He later advanced to the position of account

executive safety-environmental coordinator, and he currently serves as the operations manager for Alter's Des Moines Euclid shredder facility.

O'Leary is a member of the Institute of Scrap Recycling Industries.



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# METALS

## Steel import permit applications up nine percent over previous month

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 September totaled 2,684,000 net tons (NT).

This was a 9 percent increase from the 2,460,000 permit tons recorded in August 2008, and a 14 percent increase from the August preliminary imports total of 2,346,000 NT. Import permit tonnage for finished steel in September was 2,279,000 NT, an increase of 16 percent from the preliminary imports total of 1,958,000 NT in August. For the first nine months of 2008 (including September SIMA and August preliminary), total steel imports were 23,869,000 NT, down 9 percent from the 26,144,000 NT imported in the first nine months of last year. Total steel imports for 2008 would annualize at 31.8 million NT, or 4 per-

cent below the 2007 12-month total.

For September 2008, the largest finished steel import permit applications for offshore countries were for China (594,000 NT), South Korea (221,000 NT), India (142,000 NT) and Japan (128,000 NT). Mainly because of a record monthly amount of import permits for Oil Country Goods from China, Chinese steel permit tons for the second consecutive month set a new high for 2008. They exceeded the previous monthly high this year (495,000NT in August) by 20 percent, and were 23 percent higher than China's preliminary imports in August. This was the largest monthly total for Chinese steel since October 2006.

Major import product categories that registered large increases in September vs. the August preliminary include Oil Country Goods (up 56 percent), Hot Dipped Galvanized Sheet &

Strip (up 51 percent), Cold Rolled Sheets (up 38 percent), Line Pipe (up 35 percent), Standard Pipe (up 23 percent) and Hot Rolled Sheets (up 22 percent). Import product categories with significant increases year-to-date vs. 2007 include Oil Country Goods (up 59 percent) and Line Pipe (up 10 percent).

In commenting on the import situation, Thomas J. Gibson, AISI president and CEO, said that, "The trend with respect to China is of particular concern. Imports of Chinese finished steel were more than 70 percent higher in the third quarter than in the second quarter and, for September, represented more than a quarter of all United States imports of finished steel. Regarding surging imports of Oil Country Goods from China, it is worth stressing once again that the Chinese government is continuing to provide a 13 percent rebate on its exports of this high value product."

## August 2008 steel imports down from July

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the United States imported a total of 2,346,000 net tons (NT) of steel in August 2008, including 1,958,000 NT of finished steel (down 19 percent and 13 percent, respectively, vs. July final data).

While total and finished steel imports through the first eight months of 2008 are down 11 percent and 12 percent, respectively, vs. the same period in 2007, the monthly average for finished steel imports in the most recent 3-month period (June-August 2008) is up 1 percent vs. the monthly average in the previous 3 months (March-May 2008). Total and finished steel imports on an annualized basis this year are down 4 percent and 5 percent, respectively, vs. 2007.

A key product with a large increase in August compared to the month before is Hot Rolled Bars (up 17 percent). For the year-to-date in 2008, products with significant increases vs. the same period in 2007 include Oil Country Goods (up 42 percent), Line Pipe (up 10 percent) and Hot Rolled Bars (up 9 percent).

## July steel shipments up from last year

The American Iron and Steel Institute (AISI) reported that for the month of July 2008, United States steel mills shipped 9,175,000 net tons, a 3.8 percent increase from the 8,844,000 net tons shipped in July 2007 and a 0.4 percent increase from the 9,136,000 net tons shipped in June.

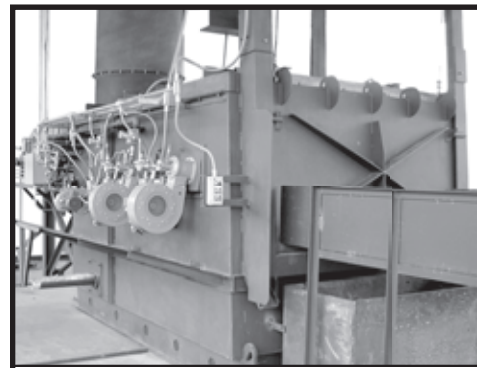
A year-to-year comparison of year-to-date shipments shows the following changes within major market classifications: service centers and distributors, up 5.8 percent; automotive, down 3.9 percent; construction and contractors' products, down 1.2 percent; and oil and gas, up 5.4 percent.

U.S. IMPORTS OF FINISHED STEEL MILL PRODUCTS BY COUNTRY OF ORIGIN (Thousands of Net Tons)					
	Prelim Aug 2008	July 2008	Aug 2007	Aug vs. July 2008 % Change	2008 Total vs. 2007 Total % Change
China	485	355	364	36.5%	-20.7%
South Korea	166	256	144	-35.1%	15.6%
Japan	171	151	156	13%	10.3%
Germany	69	106	105	-34.5%	8.4%
India	53	80	70	-33.9%	32.0%
Taiwan	51	48	131	5.1%	-39.3%
Australia	61	53	77	15.9%	25.8%
Turkey	13	37	19	-65.3%	10.9%
All Others	889	1,157	994	-23.2%	-6.5%
<b>Total</b>	<b>1,958</b>	<b>2,244</b>	<b>2,059</b>	<b>-12.8%</b>	<b>-5.0%</b>

Source: U.S. Dept. of Commerce, Bureau of the Census

In August, the largest volume of finished steel imports from offshore was from China (485,000 NT, up 37 percent from July). While steel imports from China in the first eight months of 2008 are down 30 percent compared to the same period last year, Chinese imports for the most recent 3-month period (June-August) are up 70 percent compared to the prior 3 months (March-

May). Much of this tonnage is in high-value steel products still receiving government export tax rebates (e.g., OCTG, line pipe and hot-dipped galvanized sheet). Other major offshore suppliers in August include Japan (171,000 NT, up 13 percent from July), South Korea (166,000 NT, down 35 percent), Germany (69,000 NT, down 35 percent) and Ukraine (60,000, up 34 percent).



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# A Closer Look

by Donna Currie

## Rubber Recovery, Inc.

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Ken Winters, executive vice president of Rubber Recovery Inc., explained the rather convoluted history of the company, and his involvement. According to Winters, Rubber Recovery got its start as UTT, a small operation that recycled tires under the ownership of Vern Mabry.



—Ken Winters

Robert Davis, working for GreenMan Technologies, bought the company from Mabry for GreenMan. Davis ran the company as GreenMan Technologies of California for six or seven years, before he moved on.

Meanwhile, Winters had been working for his family's rubber recycling business, Altos Rubber Incorporated, which had been founded by his grandfather in 1939. When the company dissolved in 2004, he opened a brokerage business and did some consulting work.

One of Winters' consulting customers was GreenMan Technologies of California, and said that he acted as "part time sales manager and sales force."

At that time, Davis had already left GreenMan Technologies and had partnered with Mabry; the two were negotiating to buy the California business from GreenMan. When they saw Winters, they recognized him and asked him if he would work for them if they succeeded in buying the business.

Winters said that it was "kind of an interesting position to be in," trying to build up the business for his current employer while also looking out for the interests of his future employer. "There's an enormous amount of strength in the truth," he said of his precarious position.

In the end, the business was sold to Davis and Mabry who renamed it Rubber Recovery. Winters became the executive vice president. And, according to Winters, "everybody's happy."

Winters background in the rubber business started with the history of his grandfather who was at first cutting tire patches from old rubber. Later, he started thinking about uses for the buffed bits of rubber that came from tires that were being recapped. He ended up selling those buffings to people who made things like mud flaps. "It didn't have to be pretty," Winters said.

When Winters' father, Robert, came into the business, he realized that grandfather was sifting through the material and throwing away the larger pieces. "He went off in search of machinery to do size reduction," Winters said, which helped the company recycle even more product.

Winters started working for the company from the ground up, and he said that over time, he did every job in the company except three: changing cutting knives, driving an 18-wheeler, and using a cutting torch. "As a kid, I was helping to drag around bags of asphalt," he said.

Robert Winters, along with Charlie McDonald, was co-inventor of a process that added rubber to asphalt, which led to stronger and more resilient material. Following in his father's inventive footsteps, Winters said that he was the first person in the United States to sell rubber for use in equestrian surfaces.

Winters explained that rubber had been in use in Europe for horse arenas, but that Americans were resistant to the idea. "It took 10 to 12 years to convince them," he said. Eventually, Winters convinced one person, a veterinarian, to use tire rubber in his horse arena. The vet liked the surface so much that he wrote an article about it for an equestrian publication, which gave the idea a wider audience. "He was biased against it at first, but afterwards he was very positive," Winters said.

Now, Winters, through Rubber Recovery, sells rubber for playground surfacing, mats, pads, equestrian arenas, and more. The company also resells usable tires, and makes every attempt to use every portion of the tires it takes in. "We are looking to make a decent living without leaving any carnage behind," Winters said.

He also said that one of the biggest challenges in the rubber recycling business is that "the machinery is very hard to keep together." He said that people who get into the business from other industries often don't realize that rubber "does incredible damage to the inside of machinery."

Besides maintenance issues, he said that since the margins are so low, "there's no room for any errors or any surprises." To keep the company headed in the right direction, Winters said that they're willing to try new things within the company — to keep the inventive streak that his father and grandfather had. But he added that it's not a competition in the company, it's a team effort.

The company's ultimate goal is to utilize every last bit of the tire material so that nothing ever goes to waste, "and ultimately create products of our own."

# METALS

## Nucor reports record results for third quarter 2008

Nucor Corporation announced record consolidated net earnings for the third quarter of 2008 of \$734.6 million (\$2.31 per diluted share), an increase of 93 percent from the \$381.2 million (\$1.29 per diluted share) earned in the third quarter of 2007 and an increase of 26 percent compared with \$580.8 million (\$1.94 per diluted share) earned in the second quarter of 2008.

Consolidated net earnings for the first nine months of 2008 were a record \$1.73 billion (\$5.70 per diluted share), an increase of 56 percent from net earnings of \$1.11 billion (\$3.68 per diluted share) in last year's first nine months.

In the third quarter of 2008, Nucor's consolidated net sales increased 75 percent to a record \$7.45 billion, compared with \$4.26 billion in the third quarter of 2007 and increased 5 percent compared with \$7.09 billion in the second quarter of 2008. Average sales price per ton increased 51 percent from the third quarter of 2007 and increased 21 percent from the second quarter of 2008. Total tons shipped to outside customers were 6,701,000 tons in the third quarter of 2008, an increase of 16 percent over the third quarter of 2007 and a decrease of 13 percent compared to the second quarter of 2008.

The increases in sales and net earnings are attributable in part to the significant acquisitions made by Nucor in the last 21 months, including Harris Steel Group, Inc. (Harris) in March 2007 and The David J. Joseph Company (DJJ) in February 2008. Nucor has also used these two companies as platforms for additional acquisitions to grow the rebar fabrication and scrap businesses.

The average scrap and scrap substitute cost per ton used increased 92 percent from \$277 in the third quarter of 2007 to \$533 in the third quarter of 2008, and increased 17 percent from \$456 in the second quarter of 2008. The average scrap and scrap substitute cost per ton used in the first nine months of 2008 increased 60 percent to \$439 compared to \$275 in the first nine months of 2007.

In September, Nucor's board of directors declared a supplemental dividend of \$0.20 per share in addition to the \$0.32 per share base dividend. The total dividend of \$0.52 per share is payable on November 11, 2008 to stockholders of record on September 30, 2008. The payment of a supplemental dividend in any future period will depend upon many factors, including Nucor's earnings, cash flow and financial position.

## Tube City and Sinosteel sign strategic cooperation agreement

Tube City IMS, LLC announced the signing of a strategic cooperation agreement with Sinosteel Corporation of Beijing, China.

I. Michael Coslov, from Tube City IMS, and Huang Tianwen, from Sinosteel, signed the agreement at Tube City's headquarters in Glassport, Pennsylvania.



Scrap Metals

## MarketWatch



Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$174.00	\$168.00	\$200.00	\$276.00	\$330.00
#1 Bundles	per gross ton	171.00	167.00	190.00	240.00	316.00
Plate and Structural	per gross ton	168.00	135.00	170.00	175.00	222.00
#1 & 2 Mixed Steel	per gross ton	195.00	126.00	160.00	172.00	195.00
Shredder Bundles (tin)	per gross ton	170.00	108.00	108.00	109.00	157.00
Crushed Auto Bodies	per gross ton	170.00	120.00	100.00	112.00	154.00
Steel Turnings	per pound	—	65.00	98.00	90.00	—
#1 Copper	per pound	2.56	1.89	1.80	1.75	1.97
#2 Copper	per pound	2.41	1.74	1.70	1.45	1.85
Aluminum Cans	per pound	.40	.45	.63	.59	.59
Auto Radiators	per pound	1.54	1.10	.79	.75	1.58
Aluminum Core Radiators	per pound	.40	.40	.39	.58	.83
Heater Cores	per pound	1.30	.80	.79	.47	1.19
Stainless Steel	per pound	.59	.35	.24	.25	.45

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

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# METALS

## Steel Dynamics reports strong third quarter and nine-month 2008 results

Steel Dynamics, Inc. (SDI) announced third quarter 2008 net income of \$193 million, or \$0.98 per diluted share, down sequentially 8 percent from \$210 million, or \$1.05 per diluted share, compared to the second quarter of 2008, but 92 percent higher than the \$101 million reported for the third quarter of 2007. Net sales of \$2.6 billion for the third quarter were up 7 percent compared to \$2.4 billion in the second quarter of 2008, and increased 122 percent from \$1.2 billion in the third quarter of 2007. For the first nine months of 2008, both net sales of \$6.9 billion and net income of \$546 million set company records. Earnings were \$2.75 per diluted share for the first nine months versus \$1.51 for the year-earlier period. Third quarter 2008 results included contributions from the Recycle South operations that were purchased in June 2008.

Third quarter steel shipments of 1.4 million tons were 12 percent lower than second quarter 2008. Reduced volume was due primarily to a 19 percent sequential decrease in flat-rolled steel shipments by the Flat Roll Division and The Techs. Flat-rolled steel shipments for late September were below expectations as steel customers reduced order entry and deferred order releases when steel selling prices started to fall. Lower September prices resulted in reduced margins for the Flat Roll Division while working down

mill scrap inventories that had been purchased at higher prices.

Compared to the second quarter, SDI's merchant bar shipments were up 8 percent, engineered bar shipments were up 3 percent, and structural steel shipments were down 2 percent. Operating income for the long products steel operations remained very strong. New Millennium Building Systems saw modest improvement in volume and higher selling prices, but continued to experience weak commercial building market conditions.

OmniSource shipments of ferrous scrap were 1.8 million net tons, up 17 percent compared to the second quarter of 2008 and non-ferrous shipments were 242 million pounds, down 5 percent. Iron Dynamics continued to operate well, producing 70,000 net tons of pig iron for use in flat-roll steel production.

"SDI's third quarter results of \$0.98 per diluted share were somewhat below our July 21 third-quarter earnings guidance, principally due to the unprecedented decline in ferrous scrap prices in September," said Keith Busse, chairman and CEO of Steel Dynamics. "The steep drop in ferrous and non-ferrous scrap prices in September resulted in significantly reduced profits for OmniSource due to lower selling values for shipments as matched against higher August input costs. Despite record performances in July and August, and although the level

of OmniSource's scrap inventories was within a customary range, the September decline of approximately \$300 per ton in prime scrap prices nevertheless caused a significant decrease in OmniSource's September operating profit, reducing SDI's expected quarterly earnings results by about \$0.12 per diluted share.

"Because scrap-yard inventories typically turn within the month, the impact of this large price reduction on scrap operating profits is primarily confined to September, although there will be some further impact on scrap operating profits in the fourth quarter due to further ferrous pricing declines. Normal margins should return to health in the November-December timeframe, but volumes could be lower, with anticipated further improvement in the first quarter of 2009. The bright side of this recent significant decline in ferrous scrap prices is that with lower scrap costs, raw material costs at our steel operations will be significantly lower.

During the third quarter, the company repurchased 18.9 million shares of its common stock at a cost of \$439 million, or at an average purchase price of \$23 per share. At the end of the quarter, there were 183.1 million shares of Steel Dynamics common stock outstanding. During the quarter, the last of the outstanding 4.0 percent convertible notes were converted to stock.

## Severstal steel plant incurs PCB violations

Severstal Sparrows Point, LLC has settled a case involving alleged violations of federal regulations of polychlorinated biphenyls (PCBs) at its steel making facility in Baltimore, Maryland.

In a consent agreement with the EPA, the company has agreed to pay a \$107,500 civil penalty to resolve alleged violations uncovered during an August 2005 inspection when the plant was owned and operated by ISG Sparrows Point, LLC.

In 1976, Congress enacted the Toxic Substances Control Act, which strictly regulated the manufacture, use and disposal of PCBs. For more information on the health effects, regulations, and cleanup of PCBs, visit [www.epa.gov/pcb](http://www.epa.gov/pcb).

Alleged violations included the storage of combustible materials near PCB transformers; failure to perform daily inspections to verify containment of a PCB transformer leak; failure to include required information in quarterly PCB transformer inspection and maintenance records and in written annual document logs; improper storage of PCB articles for reuse and for disposal; improper disposal of PCB waste; and failure to include required information in prepared manifests that accompanied the off-site transport of PCB containers and PCB articles.

ISG Sparrows Point, LLC cooperated with EPA's investigation and Severstal Sparrows Point, LLC has certified that the facility now is in full compliance with PCB regulations.

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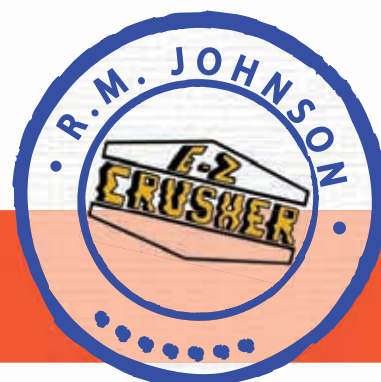
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**RUBBER**

**Majority of discarded tires in US are recycled**

by Irwin Rapoport

Of the approximately 300 million tires that are discarded in the United States annually, an estimated 80 percent are recycled.

The remainder mostly ends up in landfills, with some being exported. The main reason for the high number of recycled tires is due to the efforts of government and the tire industry.

With 48 states having legislation regulating the management of scrap tires, these laws affect most Americans and their local environments. Moreover, 32 states have consumers pay an up-front recycling fee when they purchase tires.

Because tires are considered to be a non-hazardous solid waste, the regulation of this material – a combination of rubber and steel – is the responsibility of the individual states and does not fall under EPA jurisdiction.

“In almost all those states,” says Mary Sikora, director of Tire and Rubber Recycling for the Tire Industry Association (TIA), “these regulations cover generators, haulers, processors and recyclers. The regulating infrastructure is pretty much in place.”

A key element of the regulations is that the shipments of tires from dealers to their final destination are documented.

“In most cases,” says Sikora, “the permitting and licensing of scrap tire collection, hauling, processing, recycling and storage is probably the most common elements of the state regulations. The paperwork is different in each state; some even require a manifest system, where they have to sign off at each step of the process.”

The Rubber Manufacturers Association’s (RMA) latest estimate has 80 percent of scrap tires being recycled, with the majority of the recycled tires being used as tire-derived fuel (TDF), while the remainder is used for rubberized asphalt and reuse in manufactured products, civil engineering applications, ground rubber and a variety of other applications and markets.

As part of its advocacy work, the TIA’s Tire and Rubber Recycling Advisory Council (TRRAC) has identified sound legislative and regulatory policies that are key components to fulfilling its mission of “ensuring the long term viability of tire and rubber recycling, while pursuing economic and environmental benefits.”

Early on, TRRAC included in its goals the need to maintain a vigorous, constant and credible advocacy program, as well as the need to promote and assist the tire and rubber recycling industry in legislative, judicial and regulatory arenas, when appropriate.

To carry out these goals, TRRAC and TIA’s Government Affairs Committee work in co-operation with TRRAC serving as the “watchdog” arm - identi-

fying issues and proposed measures that may be harmful to tire and rubber recycling businesses, tire dealers and retreaders and the industry as a whole.

One of the first resources TRRAC developed to address legislative and regulatory issues were the creation of “Elements for Scrap Tire Legislation.”

Some of the elements included are:

- A fee is collected on the sale of new tires to create a recycling fund dedicated strictly to scrap tires.

- The scrap tire collection, sorting, processing and storage functions are licensed and closely regulated to ensure the proper flow of tires. While regulated, these functions are still allowed to operate in a competitive, free enterprise, market-driven economy.

- Reimbursement and grant programs are used to create market incentives for the material. These incentives are directed to end users within the state, as well as to recyclers in other states, to encourage the maximum marketing potential for the scrap tire material.

- Cleanup of states’ illegal sites is encouraged.

- Sufficient revenue is provided to enforce the proper flow of material.

- Security (proper storage) at the generator level is essential.

- Identify markets for scrap tires or scrap tire-derived materials.

It’s these elements that TIA and the tire industry it represents - including dealers and recyclers - like to see in state regulations,” says Sikora. “And, in many cases, they are.”

Sikora stresses that organizations like TIA have been advocating the use of money raised from up-front recycling fees charged on retail tire purchases to fund tire recycling.

“TIA would like to see those funds always go to a dedicated tire recycling fund,” she says, “with the money used to

**Continued on Page 21**

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# EQUIPMENT SPOTLIGHT

## ■ Wire Separators

by Mark Henricks

To the average motorist, a tire represents a way to move down the road. To a recycler, a tire represents both promise and puzzle, because automobile, truck and other tires contain the elements of a valuable stream of fuel, recyclable crumb rubber and steel wire. That's the promise part. The puzzle is how to separate wire from chopped, ground or otherwise reduced tires economically and efficiently.

"Tire wire is some of the most difficult material to process and handle," says Mark Bielicki, president of Bi-Metal Corp. in Ridgefield, Connecticut. "It's abrasive. The density is lousy. And it's extremely hard on equipment." For the last 12 years, Bi-Metal has been selling two Clean Wire System (CWS) machines for separating wire from rubber. The Model 6130 is suitable for handling the output from one second-stage processor. The higher-volume Model 9160 can accommodate materials from two second-stage processors operating simultaneously.



Bi-Metal Corp.

Bielicki's wire separators use a combination of classification, agitation and magnetic and air separation, all working together, for wire that is less than two percent contamination by weight, Bielicki says. "We make a machine which is incredibly rugged, requires very little maintenance, offers low power consumption and most importantly, the CWS produces consistently clean tire wire, regardless of how the first and second stage processors are running," he says.

Sales of Bi-Metal's wire removal equipment have been very good – better than Bi-Metal's own business selling steel reclaimed from tires, Bielicki

says. "The scrap steel market has come down drastically in the past few months," he says. "It's simply reflecting world economic conditions."

In Grand Prairie, Texas, Granutech-Saturn Systems sells its MD-80 Grizzly for wire separation applications. Salesman Greg Wright says the Grizzly's block-style cutters make it stand out. "What's good about that is you basically have four edges," he says. "So after your edge dulls down, you can flip it over and then rotate it and flip it again. After those four edges are worn, you can regrind it two times. So you end up getting 12 uses out of it."

The Grizzly's cutter design contributes to a low cost of operation, Wright says. The 300-horsepower, electrically-driven machine produces sub-1-inch tire chunks from which the wire has been stripped. After the stream is fed onto a vibratory screen, overhead magnets remove the wire from the rubber chunks. The remaining chunks are suitable for further processing into ground rubber, or transformed as-is into landscape mulch or fuel.

Amandus Kahl of Alpharetta, Georgia, takes a much different approach to removing wire from tires with its Model 60-1250 flat-die pelleting presses. "On ours, the grinding takes place on a stationary die plate which would have 16 or 18, 3/4-inch or 5/8-inch diameter holes in it," explains salesman Robert Trimbee. "We have a roller head that rotates on this stationary die plate. That's how we get our separation."

Amandus Kahl's design minimizes operating costs, Trimbee says. "The recyclers in the steel business want clean steel," he adds. "And this will give a clean steel, with good rubber separation off the steel." The 400-horsepower machines are designed to be fed 2- to 3-inch chips from primary shredders.

Some of Amandus Kahl's customers are taking all of their scrap tires and processing them through the

Model 60-1250 to recover steel. Business, he says, is good. "I think its commodity prices and the general environment in the country that everybody's trying to get more into recycling," he says. "And they're closing landfills and not allowing tires to go into landfills."

In Sarasota, Florida, Columbus McKinnon Corporation has two models of its CM Liberator - the 2R and the 4R - that are sold into tire recycling applications. "The 2R is two and four tons per hour input, and the other is between four and nine tons per hour, depending on the screen size," says national sales manager Richard Colyar.

Liberators are placed downstream from primary shredders and employ a special knife swing designed primarily for pulling wire out of tires. "It doesn't cut," Colyar says. "It works similar to a hammer mill in its knife action. It's ripping, tearing and extracting the steel from the rubber rather than trying to cut it. If you cut it, you're still going to have pieces of rubber with the steel inside them. A cutting technology is not what you want at this stage."

Depending on the effectiveness of magnets or other equipment used on downstream of the machine, Liberators can produce steel wire with less than five percent contamination, Colyar says. "Our steel is a longer piece, which is more conducive to baling or densifying," he adds.

Most of Columbus McKinnon's sales are directly into the tire recycling industry, including sales to Japan, Spain, Korea and England as well as the United States. "Business is good, nice and steady," Colyar says. "The regulations that would affect us are the banning of whole tires in landfills or the banning of shred in landfills. Where markets are being promoted, that's where we have the most success."

Wright also reports sales all over the world, thanks in part to currency exchange rates that help United States exporters. "Our export business has really gotten good with the weak dol-



Granutech-Saturn Systems

lar," he says. "That puts our stuff on sale to anyone outside the United States. And additionally, any competitors coming from outside the United States to sell, their stuff is more expensive."

"As far as tire recycling, it's always good," Wright continues. "That's a market that seems to be growing. We get more inquiries from people wanting to get into tire processing than anything else."

### Manufacturer List

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**Bi-Metal Corp.**  
**Mark Bielicki**  
 800-477-5717  
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**Columbus McKinnon Corporation**  
**Richard Colyar**  
 800-848-1071  
[www.cmworks.com](http://www.cmworks.com)

**ELDAN, Inc.**  
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 716-731-4900  
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**Greg Wright**  
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# RUBBER

## Environmentalists question safety of artificial turf

by Brian R. Hook

An environmental group is raising questions about artificial turf made from recycled crumb rubber that is being installed by schools across the United States.

North Haven Connecticut-based Environment and Human Health, Inc.

initiated an exploratory study with the Connecticut Agricultural Experiment Station to examine whether rubber tire crumbs may cause health hazards or environmental damage.

Researchers identified four compounds in the recycled tire crumbs; benzothiazole causes skin and eye irritation and is harmful if swallowed, butylated

hydroxyanisole is a recognized carcinogen, n-hexadecane is a severe irritant based on human and animal studies, and 4-(t-octyl) phenol is corrosive and destructive to mucous membranes.

"When a recycled tire is ground down to crumbs or pellets the chemicals are available for exposures both as dust and, on a hot field, as gases," says David Brown, an oncologist at Greenwich Hospital and a board member at the environmental group.

"Players on turf fields have severe exposure to the crumbs and the dust. Mere observations of children who play on the field show that exposures are very high."

Brown says the rubber industry should at the least post signs on fields stating that there is a possible, untested hazard from the exposure and that children use the fields at their own risk. He says the industry should not assure people that the fields are safe.

Mary Jane Martina, who heads the department of analytical chemistry at the Connecticut Agriculture Experiment Station, says that more testing is needed.

Before calling for the artificial turf to be taken off the market, further examination of the materials must be conducted, Martina says. "The product, crumb rubber derived from recycled tires, clearly merits additional study," she says. "Efforts should be coordinated at the federal level and should include both state and municipal labs."

The U.S. Environmental Protection Agency has started testing on several playground and running tracks, says Dale Kemery, a press officer in Washington D.C. But he says testing has been delayed due to difficulties locating willing venues.

"Some work has been done, but it isn't complete and there are no results in," Kemery says. He says if there is any regulatory action it would be "well into the future."

Michael Blumenthal, vice president at the Rubber Manufacturers Association trade group says the study by the

environmental group raises a lot of questions, which requires the attention of the ground rubber industry. But he says the analysis from the report is overstated. He says the study raises questions instead of providing answers.

"Quite honestly, I think that the report out of Connecticut was done for one reason and one reason only. It was done so that these institutions could get awarded more research dollars," Blumenthal says. "I think it was a self-serving exercise."

Blumenthal acknowledges that the study presents problems for the recycled rubber manufacturers. "Parents obviously do not want to expose their child to any kind of unhealthy environmental situation," he says. "Of course parents are going to be very careful when they hear all of these reports out there" questioning artificial turf.

PHOTO COURTESY OF ENVIRONMENTAL AND HUMAN HEALTH, INC.



Controversy over artificial turf has escalated recently.

Jerry Swensen president of Auburndale Recycling Center Inc. in Auburndale, Wisconsin says the biggest issue facing the tire recycling industry is misconceptions about the products the industry produces. "There has been a lot of bad press on tire recycling over the last year," he says. "It has caused some market turmoil."

The industry needs to get its message out and educate customers about the benefits of products made from recycled tires, Swensen says. "Slowly the mentality is starting to change and people are realizing that the products we produce are beneficial."

## SALVAGING Millions

by Ron Sturgeon  
Autosalvageconsultant.com

### Climbing above the competition: Choosing your customers

Part 4 of 5

In 1993, a good friend of mine and fellow auto salvage business owner, DL Fitz, opened a new location about 60 miles south of his family's existing locations, near Tacoma, Washington. Traffic in the Tacoma area made delivering parts on time very difficult. In response, a new facility at Graham was added to speed deliveries.

DL created a marketing plan that outlined how they would attract retail and wholesale business in the Graham area. Following the plan, they advertised on the back of buses. They figured bus ads were a smart use of their advertising dollars because all the slow-moving traffic would have plenty of time to look at their ads.

They failed to consider, however, that wholesalers were accounting for most of the volume that the Graham facility was adding at the time. The added orders from wholesalers came as a result of reliably and promptly delivering excellent quality parts.

The back-of-buses campaign was expensive and yet the retail market in that locale did not yield the gains they anticipated. Retail generally provided fewer hits per dollar spent; the market was too broad. They were broadcasting to everyone by virtue of the bus ads. No primary customer had yet been identified.

As DL and his father analyzed and discussed the situation at Graham, they realized most of the business was wholesale. So they decided to slowly cut back on their bus-advertising budget.

This point should help illustrate the differences between advertising and marketing. They gained business by cutting their advertising budget in half and focusing their efforts on the wholesalers. They redirected those advertising dollars into marketing directly to their target customers, monitoring the zip codes against the returns. They created a customized list of wholesalers within reach. They added new customers by going after them with outside sales reps.

More direct marketing by mail and personal contact by sales reps caused an even greater surge in their wholesale sales. They still served a retail market, but they were no longer throwing money at it unnecessarily.

Here's another brief marketing tip. Isolate your top one hundred customers. Put them down on an exclusive list. Then interview them, either personally or through your sales reps. Ask about your competition. Ask your customers what they want or need most. Ask them what pleases them within your service/product structure and what would please them more. You want them to suggest ways in which you could be of even better service or provide a better product. One of them just might give you a clue you hadn't considered before.

That's marketing. You define the customer. You make sure he knows who you are and what you provide. Then you go after the customer to see what he really needs and what he really desires. If you can, fill the need and provide the desired service. The return is in part more revenue, which of course you want; but you will also see returns in customer loyalty. It's something you can't buy with advertising dollars.

Once you know who your customer is, you use that information to guide all your decisions. This knowledge helps you determine how many parking places you should put in, how many delivery trucks you really need, and what to display in your showroom. It affects all product and services decisions.

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# RUBBER

## Arizona tire pile problem remains unresolved

by Irwin Rapoport

The State of Arizona is still in possession of the 6 to 8 million tires they seized from Steve Robinson's Mobile-based storage yard, the now defunct Envirotech Industries International.

Robinson, owner of Envirotech since 1997, had been collecting tires commercially, purportedly to produce tire derived fuel (TDF), and had contracts with Arizona's primary population centers – Maricopa, Pinal and Pima counties.

The storage yard was located on land that Robinson had leased from the state. In 2007, he began defaulting on his monthly rent payments, and in time came to owe the State more than \$870,000 in unpaid rent, security costs, brush removal, legal fees and interest.

On October 3, the Department of Administration (DOA) secured the right to evict Robinson and seize the tires. However, Envirotech filed Chapter 11 bankruptcy last December, which prevented the State's seizure of the tires and other assets. Arizona still secured the right to terminate the lease due to a bankruptcy judge's ruling following Robinson's failure to meet a court ordered deadline by which he must assume the lease. Robinson's lawyers did not return calls asking for comment.

Now, the State is trying to decide how best to dispose of the tire stockpile, which is located in the middle of the Sonoran Desert National Monument, which was created subsequent to Envirotech's lease being signed in 1997.

The county is worried that the stockpile poses serious risks to public health. The tires are an imminent fire hazard, and with prevailing winds blowing from the

southwest, any smoke and fumes from such a fire would be blown directly into Phoenix's metropolitan area.

"We want to remove the tires from the site as soon as possible," says DOA spokesperson Alan Ecker. "We want to make the right decisions and act in the taxpayers' best interest. A tire fire would be catastrophic. Our primary concern is public health and safety."

Due to the risk of fire, the State Fire Marshal ordered Envirotech to not accept any new tires, levied multiple fire-code violations, and spent nearly \$50,000 per month to secure the facility.

Several state agencies came together to address the problem of the pile, including the Departments of Environmental Quality (DEQ), Health Services, Homeland Security, and the Fire Marshal's office.

Ecker noted that in 2007, Robinson presented a proposal to utilize microwave technology to recover liquid fuel, natural gas, carbon and steel from the tires.

"Robinson came to us with technology," he says. "We involved the DEQ and a demonstration was held, which could not account for all the emissions associated with the proposal. The DEQ told them that they needed to be able to demonstrate that this technology worked on a large scale outside of a lab and to account for all the emissions. We never heard back."

"Since this issue received press attention," he says, "we have received proposals from 15 to 20 providers that purport to use some kind of technology, including microwave and pyrolysis, to recycle the tires. Because this deals with state contracting, it has to be a competitive process."



PHOTO COURTESY OF ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

The Arizona Department of Environmental Quality has now passed legislation requiring privately-owned facilities with more than 500 tires to submit site plans.

The DEQ has since passed legislation to tighten up regulations regarding tire facilities. The updated regulations require privately-owned facilities with more than 500 tires to submit site plans to the DEQ. The agency may also limit the number of tires that can be stored at a particular site.

The State is eager to have the pile disposed of, and notes that the Envirotech site is the largest tire dump in the state.

"There is no other [dump] that comes even close to that number," comments Mark Shaffer, the DEQ's director of communications. Steps are being taken by the State to find people and

companies that will use and/or recycle the tires. Says Shaffer, "One of the conversions has been for rubberized asphalt. There have been several contracts let for the production of rubberized asphalt and that has been a real solid use for these tires."

However, the size of the dump makes progress slow. "The Solutions are out there," Shaffer adds, "but when you have a tire dump on the Envirotech magnitude, it makes it very difficult. Private industry has not caught up with this yet and found enough of a market."

## Tire recycling

Continued from Page 18

support ongoing recycling operations, education programs and research to develop new uses and products that can be created with scrap tires."

While some states ban the disposal of tires in landfills, others allow the practice to continue – some with a requirement that they be processed prior to dumping.

As is the case with some solid waste landfills that discourage or reject the dumping of C&D material because these items take up valuable space, tires are also discouraged or not accepted.

Among his responsibilities, Mike Fitzpatrick, an environmental scientist with the EPA, works with the EPA's Resource Conservation Challenge program and serves on the Scrap Tire Committee. Although tires are non-hazardous, there are environmental issues associated with their disposal in open dumps or tire piles.

Fitzpatrick says TDF can provide "a fair amount of energy and when properly managed, is pretty much equivalent to other sources of fuel such as oil or coal. It is certainly something that we think is a legitimate recycling use.

"Given appropriate emissions controls, which you need for whatever type of fuel you are burning," he adds, "they can be handled properly. It's a matter of making sure that your system is designed and operating correctly for the type of fuel you are using. There is an economic incentive for them to use TDF."

The EPA can, under certain circumstances, go after a tire dealer if his/her scrap tires are found in a superfund cleanup site, and, even if he/she uses a reputable recycler.

"The way the law is written," said Fitzpatrick, "it's not only the person who managed the Superfund site, but anybody who contributed waste that went into it – all can be held liable. So in that sense, if somebody is supplying tires that went into a landfill that later becomes a superfund site, even if they were not the one who delivered them there, technically the Superfund law does allow them to be held responsible."

Finding effective solutions for tire recycling is essential since science has not yet provided a way to de-vulcanize rubber to its basic components, as opposed to a product like glass that can be melted down and reassembled into a new glass product.

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Atlas Copco Construction Tools LLC introduces the DP 2000 hydraulic demolition pulverizer attachment.

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## Rexam launches post-consumer prescription bottle

Rexam Prescription Products in the United States has developed and marketed the first liquid prescription oval made with 100% post-consumer recycled PET resin.

The pack is available in 2, 3, 4, 6, 8, 12 and 16 ounce sizes.

Pat O'Connell, vice president of sales, said, "Pharmacists and consumers have shown a preference for packaging using recycled material."

The recycled oval meets the same government standards as its current virgin PET line, including United States Pharmacopeia requirements for light transmission and moisture permeation and the Consumer Product Safety Commission's child-resistant and senior-friendly protocol requirements.

The pack will be available in November in retail pharmacies across the United States.

## BASF creates first antimicrobial plastic

BASF is offering a plastic that has the property of killing microbes. This material belongs to the specialties found in the styrene plastic product line. It goes by the name Luran® S BX 13042 and is currently the only ASA (acrylonitrile-styrene-acrylate copolymer) with an antimicrobial effect.

The antimicrobial material contains silver compounds that are incorporated into the plastic in order to impart its surface with a germicidal effect. Interesting areas of application for this material are not only hand dryers, soap dispensers or entire sanitary units in public washroom facilities, but also other products that come into contact with bacteria and other microorganisms and that need to be sterile such as, hospital beds, medical treatment chairs or computer keyboards in public offices. The combination with the classic ASA properties such as weathering resistance, high thermal-aging stability, good chemical resistance and outstanding surface quality yields a new material with an extraordinary property profile.

*A mechanic was working on a motorcycle when he spotted a well-known heart surgeon in his shop waiting for the service manager. The mechanic shouted across the garage, "Hey, Doc, can I ask you a question?"*

*The surgeon, a bit surprised, walked over to the mechanic. The mechanic stood up and asked, "So Doc, look at this engine. I open its heart, take valves out, fix 'em, put 'em back in, and when I finish, it works just like new. So how come I get such a small salary compared to you, when you and I are basically doing the same work?"*

*The surgeon paused, smiled and whispered to the mechanic, "Try doing it with the engine running."*

# PLASTICS

## Wal-Mart Stores aim to reduce plastic bag waste

Effort could eliminate plastic waste equivalent to 9 billion plastic bags

Wal-Mart Stores, Inc. committed to reduce its global plastic shopping bag waste by an average of 33 percent per store by 2013. This is expected to eliminate more than 135 million pounds of plastic waste globally. To help reach this goal, Wal-Mart will reduce the number of bags given out by its stores, encourage the use of reusable bags and give customers the ability to continue recycling plastic shopping bags.

Wal-Mart's comprehensive bag reduction strategy is being developed in partnership with Environmental Defense Fund (EDF). It is estimated that roughly 60 to 80 percent of all marine debris is plastic. Reducing plastic shopping bag waste could also help reduce govern-

ment expenditures. For example, the state of California spends approximately \$25 million per year to discard plastic bags into landfills.

As part of the goal to reduce plastic bag waste, Wal-Mart stores in Mexico and the United States are introducing new, more affordable reusable bags. In early September, Wal-Mart de Mexico introduced reusable bags at one-third the cost of its current bags. In the United States, Wal-Mart began offering reusable bags in October for \$.50 each.

Wal-Mart's commitment to reduce plastic bag waste globally by 33 percent includes a 25 percent reduction from United States stores and a 50 percent reduction from international operations.

## Graham Packaging closes two plants

Graham Packaging Company, L.P., a plastics container manufacturer in York, Pennsylvania, will close two plants – one in Lakeland, Florida, and the other in Montgomery, Alabama – as customer volume has shifted to other locations. Approximately 20 jobs will be affected.

The company's McCue Road container plant in Lakeland was scheduled to close October 9. Several of the 15 hourly employees will be transferred to the company's County Line Road plant in Lakeland. The remainder will be eligible for severance packages and given

an opportunity to post for jobs at company plants in other locations.

Graham Packaging's plant in Montgomery, Alabama, was scheduled to stop production November 1. About a dozen employees were laid off there at the end of August. Of the remaining nine employees, four will be transferred to other plants and the rest offered severance packages.

Production of containers made at the two affected plants will be moved to other plants in Graham Packaging's network.

## Plastinum enters into joint venture to recycle e-scrap mixed plastic

Plastinum Polymer Technologies Corp. announced that it has entered into a Letter of Intent with Creative Recycling Technologies, LLC, for the establishment of a joint venture that will process mixed plastic e-scrap in Tampa, Florida.

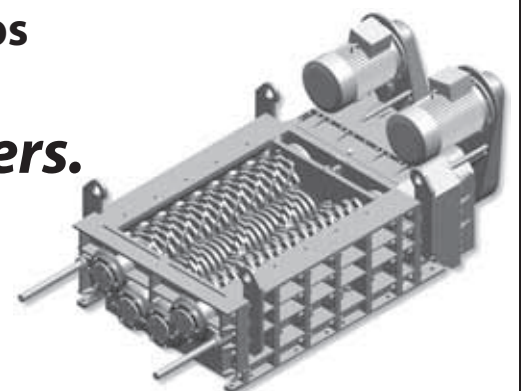
The establishment of the joint venture is subject to the negotiation and exe-

cution of a mutually satisfactory definitive joint venture agreement and related documentation.

Jacques Mot, president and chief executive officer of Plastinum, said, "With this Letter of Intent, we established the foundation for our first commercial operation in the United States."

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# PLASTICS

## BART replaces wood rail ties with recycled plastic

by Irwin Rapoport

The San Francisco Bay Area Rapid Transit (BART), which serves 104 million passengers via commuter trains in the densely populated California's Bay Area, has given the recycling of plastic a major boost by embarking upon a plan to replace the wood rail ties that it currently uses on its tracks with those made from plastic products such as discarded grocery bags, old milk bottles and discarded tires.

"What we're doing is swapping out worn wooden railroad ties with plastic ones made from recycled grocery bags, milk bottles and old car tires," said BART board president, Gail Murray. "These plastic ties are incredibly strong, last twice as long and are three times cleaner to make than the wooden ones."

BART has 104 miles of track that run through 4 counties and 26 cities. The metropolitan area has seven million people.

BART Board Member Bob Franklin, who chairs the Board's Sustainability-Green Committee, stresses the importance of recycling to manufacturing products.

"BART has replaced roughly 400 wooden railroad ties with these recycled plastic ones," he said. "That's the equivalent of 1.1 million grocery bags that won't be going into landfills."

This can also be translated into 246,400 plastic bottles and 1,200 tires.

San Francisco and other Bay area cities such as Oakland, have enacted legislation that bans plastic shopping bags. This is in addition to aggressive recycling programs.



After the wooden ties are replaced with plastic, the old ties are sent to biomass plants.

BART notes that plastic ties are environmentally superior to wood ties, based on the following reasons:

- Wood ties require manufacturers to seek fresh wood products, which promotes logging in the nation forests.

- In order to make wood ties more durable, manufacturers soak the wood in creosote, which is a byproduct of the chemicals that come from heating coal to produce a tar-like substance.

- Compared to wood ties, it's significantly more difficult for plastic ties to catch fire. Wood ties tend to dry out as they age and become increasingly more susceptible to catching fire.

"According to researchers," said BART chief spokesperson Linton Johnson, "the process to make plastic ties out of discarded grocery bags, car tires and

milk bottles is at least three times cleaner than the process to make a wooden railroad tie. Additionally, once the useful life of a plastic tie is up, they can be recycled into other plastic products.

Currently, BART sends worn out wooden ties to biomass plants to generate electricity.

BART's plan is to eventually replace 14,000 wood ties with plastic ties over the next 5 to 10 years. BART's various rail lines have approximately 38,000 ties on its track.

BART maintenance crews are currently replacing wood ties for plastic ones as wood ties reach their end-of-life stage. Depending on their location, ties in the Bay Area last between 15 and 40 years. BART estimates that plastic ties have a lifespan of 50 to 60 years.

Thus far, the cost of installing 400 recycled plastic ties has been \$200,000.

"Plastic ties cost about the same as premium quality wood ties, which is approximately \$15 to \$20 per lineal foot," said Johnson, noting that a standard tie is 9 feet long and a switch tie can be as long as 25 feet. "Low quality wood ties are cheaper, but have a much shorter life because the wood has minor imperfections like split cracks and twists. BART's costs for plastic ties will be greatly reduced because of an upcoming multi-year high quantity purchase. In the end, the overall life cycle costs of plastic ties will be much cheaper as research shows that they are incredibly strong and last twice as long."

The ties are manufactured by Performance Rail Tie, Plastic Pilings and Recycle Technologies International.

To dispose of the wooden ties, BART has partnered with Anderson, California-based Wheelabrator Shasta Energy Company. The utility shreds and burns the scrap wood.



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# INTERNATIONAL

## Six zero waste places named across England

Six places ranging from a residential street to an entire region of England were named as England's first "Zero Waste Places" by Environment Minister Jane Kennedy.

The Zero Waste Places will aim to go as far as possible in reducing the environmental impact of waste, whether it be at home, in the workplace or in the community.

The six places chosen to implement zero waste plans are:

- The London Borough of Brent, which will develop 20 Green Zones across the borough by September 2009, which will involve establishing Green Teams of residents and developing a GIS-based map of the borough, showing green "threads" growing through the borough to track the progress of the initiative.

- Shenley Church End in Milton Keynes will see the area of nearly 1,500 homes, two schools and a number of high street businesses aim to cut waste and litter right across the area.

- Kings Lynn in Norfolk will achieve zero waste as far as possible within the historic area of the Tuesday Market, which is home to businesses and homes, as well being a tourist hotspot and the focus of many civic events.

- The London Borough of Lewisham will run an Eco Street initiative, where around 100 properties will be targeted

through a range of measures including specialist advice and support to cut waste.

- Peterborough will run a Zero Waste City Centre initiative, which will focus on Cathedral Square and the three streets leading from it (Bridge Street, Cowgate and Long Causeway), including the Queensgate Shopping Centre, encompassing more than 200 retailers and offices, including the Town Hall and council offices.

- The West Midlands will create a Zero Waste Region, focusing on businesses and organizations that produce a large quantity of waste, identifying region-wide waste infrastructure needs, improving co-operation and cutting business waste right across the region.

Environment Minister, Jane Kennedy said, "Across England, we are seeing communities come together with innovative ideas and a shared determination to tackle waste locally. These six zero waste places will test what can be done to make it easier for people and businesses to change the way they view and deal with waste."

The Zero Waste Places have been selected as demonstrators for innovative and replicable initiatives that enable waste prevention in schools, households and businesses, and support local authorities in taking a leadership role in reducing the overall environmental impact of waste.

## Flytipping down across England

Flytipping, otherwise known as dumping, on public land across England has decreased by 7.5 percent in the last year, according to new figures published by Defra.

As well as flytipping decreasing overall, enforcement action and successful prosecution for flytipping increased over previous years.

The key findings in the report are:

- Flytipping on public land is down overall by 7.5 percent.

- The total number of flytipping incidents recorded, excluding Liverpool City Council (LCC), was 1.24 million in 2007-08.

- A Twenty-six percent increase in the number of enforcement actions issued by local authorities.

- There were 1,871 prosecutions for flytipping carried out in 2007-08 and 95

percent of these achieved a successful outcome.

- Eleven percent of all flytips involved single black bags.

- Fifty percent of recorded flytips occurred on the highway.

- Sixty percent of the flytips dealt with by local authorities involved household waste. This is approximately the same as 2006-07.

- Flytip incidents appeared 50 percent higher last year due to a reporting anomaly by Liverpool City Council. This has now been corrected.

Waste Minister Jane Kennedy said, "Flytipping is unacceptable and a blight on public land. I am pleased to see the decrease in incidents, but we still need to work on the serious environmental and social problem of flytipping."

## Project saves 391,000 tons from landfill

Waste facilities in Leicestershire and the South West in England will see major improvements, thanks to a combined GBP 181.6 million in funding announced by Defra. In Leicestershire, the Private Finance Initiative (PFI) project is expecting to divert 98,000 tons of biodegradable municipal waste from landfills in 2020. In the South West, the PFI project will divert 293,000 tons from landfills in 2020.

Leicestershire plans to build on its already successful recycling and composting record. Not only does the county expect to reach the Government's 2020 recycling target of 50 percent 10 years early, but with further plans it aims to reach 58 percent by 2017. In the South West, 92 percent of the biodegradable waste in the area will be diverted from landfill.

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# INTERNATIONAL

## UK councils have five years to tackle waste or pay

UK councils could face fines totaling millions of pounds unless they deliver planned waste treatment facilities and keep up the pressure to reduce, reuse and recycle, according to an Audit Commission report published on September 25.

It congratulated people and councils for their ongoing efforts to recycle and reduce the amount of waste produced in the first place. Recycling rates have quadrupled since 1999 and have dramatically reduced the amount of waste that ends up in the dump.

But the Commission's report warns councils that they cannot rely solely on creating less waste and increased recycling if the 2013 target is to be achieved.

The report said investment in waste disposal technologies that convert waste into energy or fuel will have the most significant impact on landfill reduction

and that delays to the projects currently underway pose the greatest threat to achieving the target.

These are major, often controversial projects that can take ten years or more to deliver. Together they will create additional capacity for 6.4 million tons of waste. But if schemes already planned were delayed by just two years, England would exceed its landfill allocation by 13 percent and incur penalties which would be picked up by the taxpayer.

Councils that are struggling to find effective ways of reducing their landfill cannot afford to do nothing. Even if England as a whole meets the 2013 target, those authorities that exceed their individual landfill allocations could still be facing fines. This bill could only be paid by increasing the council tax or cutting services.

## New plastic waste recycling facility to be built in Wales

The first company in the UK capable of recycling waste plastic bottles back into useful food packaging material is investing nearly US\$21,000,000 to open a new plant in North Wales.

Closed Loop Recycling opened its first plant in London this past June. Now, backed by private equity investment from the Foresight Group and backing from the Assembly Government, the company intends to open its second plant.

The new recycling plant, which will employ 50 people, will take an annual total of 50,000 tons of water, milk and other soft drink bottles and turn them into recycled raw material for new food and drink packaging.

Company managing director, Chris Dow said, "This plant will allow us to

make a real impact to plastic recycling in North Wales and North West England and we are delighted to have such positive support from the Welsh Assembly Government. Until we started operations there was no facility to recycle plastic bottles back into plastic food packaging. Now that we provide that facility, the industry is beginning to view recycled plastic in a new light."

According to a recent study, the total amount of plastic bottles entering the UK waste stream is approximately 525,000 tons a year – equivalent to an estimated 13 billion bottles.

In 2007, the study found that 4.5 billion bottles were being recycled, with an estimated eight billion being exported or sent to landfills.

## Events Calendar

### November 1st-3rd

**APRA's 2008 International BIG R Show.** Riviera Hotel & Casino, Las Vegas, Nevada. 703-968-2772 • www.bigrshow.com

### November 6th-8th

**International Autobody Congress & Exposition.** Mandalay Bay Convention Center, Las Vegas, Nevada. 888-529-1641 • www.naceexpo.com

### January 26th-29th, 2009

**U.S. Composting Council's 17th Annual Conference & Tradeshow.** Westin Galleria, Houston, Texas. 631-737-4931 • www.compostingcouncil.org

### February 24th-25th

**Plastics Recycling 2009.** Disney Coronado Springs Resort, Orlando, Florida. 503-233-1305 • www.plasticsrecycling.com

### March 1st-4th

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

### March 22nd-24th

**C&D World 2009 Exhibition & Conference, Annual Meeting of (CMRA).** Tampa Convention Center, Tampa, Florida. 630-585-7530 • www.cdrecycling.org

### May 3rd-6th

**Battery Council International's 121st Convention.** Red Rock Resort, Las Vegas, Nevada. 312-644-6610  
www.batteryCouncil.org

### May 17th-19th

**2009 Waste-to-Fuels Conference & Trade Show.** Hyatt Regency Mission Bay, San Diego, California. 800-441-7949  
www.waste-to-fuels.org

### June 8th-11th

**WasteExpo 2009.** Las Vegas Convention Center, Las Vegas, Nevada. 800-927-5007 • www.wasteexpo.com

## Residents support food waste recycling

Trials offering separate collections of food waste to over 94,000 households have shown high levels of public support for diverting food waste from landfill, Waste & Resources Action Programme (WRAP) announced. Following the trials, some local authorities have already decided to roll out these collections on a permanent basis. Consumer surveys conducted by WRAP showed 78 percent of residents were satisfied with the collection service they received and in around half of the areas where participation monitoring was conducted, 70 percent of households were taking part in the service. The collected food waste was either composted at in-vessel facilities or treated by anaerobic digestion.

The trials, conducted by 19 local authorities and supported by WRAP, provided weekly food waste collections to over 94,000 households in a range of urban and rural locations. Households were provided with a caddy for separat-

ing food waste in the kitchen, a supply of caddy liners and a container for storing food waste in prior to collection. The average quantity of food waste collected at curbside each week was between 2 to 4 lbs. per household. During the trials, approximately 4,400 tons of food waste was diverted from landfill, avoiding emissions equivalent to 2,000 tons of CO<sub>2</sub>.

Analysis of the results shows that:

- The use of caddy liners, making the food collections clean and easy for residents, was an important factor in encouraging participation.

- The trials have begun to encourage changes in attitude towards food waste. A proportion of survey respondents stated that their awareness of the need to avoid food waste had increased as a result of the trial.

- Weekly food waste collections have been shown to be successful in areas where residual waste is collected

either fortnightly or weekly, although higher participation and yields were found with the former.

- Size of household, lifestyle and the communications strategies of different local authorities are other factors likely to affect the amount of food waste collected.

- Overall, trials in more affluent areas achieved higher yields of food waste compared to the trials in less affluent areas. This may be the result of social, environmental and housing issues which local authorities will want to consider as they develop collection schemes.

Phillip Ward, director for Local Government Services at WRAP said, "We throw away 6.7 million tons of food every year in the UK and most of that goes to landfill. Even those households that believe they aren't producing much or any food waste are discarding on average nearly 6.6 lbs. per week.



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## China Bio Energy adds four retail bio-diesel gas stations

China Bio Energy Holding Group (CBEH), an energy company that distributes heavy oil and finished oil products and the production and distribution of bio-diesel fuel, announced that it has added four retail gas stations to its operations. China Bio Energy now operates five retail gas stations.

The stations, previously operated by the Shaanxi Highway Service Company and equipped to sell gasoline and diesel fuel, are all located along major highways in Shaanxi Province. CBEH will operate the stations under long-term leases for which the initial duration is 15 years.

The Company expects that annual revenue per station will average at least

\$8 million and anticipates net margins of 10 percent or more.

"We are very pleased to have expanded our retail business," stated Gao Xincheng, chief executive officer of China Bio Energy. "Demand for fuel is high in China and often outstrips supply. As such, retailers are frequently unable to secure enough supply to sustain operations. Because we regularly distribute large amounts of gasoline and diesel fuel it is relatively easy for us to secure supply. In our bio-diesel business our ability to utilize our existing fuel distribution network to facilitate sales has allowed us to grow rapidly without having to invest significant time and capital into developing a new customer base."



## BUSINESS BRIEFS

### Doosan Infracore appoints David Stahlman

■ David Stahlman has been named vice president of global marketing for Doosan Infracore Portable Power.

In his new capacity, Stahlman is responsible for strategic marketing initiatives worldwide for the full line of Ingersoll Rand branded portable equipment such as portable air compressors, mobile generators, lighting systems, concrete equipment and light compaction equipment.

Stahlman began his career with Ingersoll Rand Company in 1994 as an engineer in product development and management of pneumatic and hydraulic piston pumps. He then moved to product development of portable air compressors for the Ingersoll Rand utility business (now Doosan Infracore Portable Power). Stahlman has had six United States patents issued for product enhancements invented throughout his career.

In 2001, Stahlman became sourcing and logistics manager for Ingersoll Rand where he developed and nurtured strategic global partnerships focusing on diesel engines.

### Environmental council sets new board member

■ Leo Pierre Roy, has been appointed to the board of directors of the Environmental Business Council of New England (EBC), at the EBC annual meeting.

Leo Pierre Roy is managing director of the Massachusetts Environmental and Energy Services Group for Vanasse Hangen Brustlin, Inc. He actively promotes sustainable development, water resource stewardship, ecological restoration, and renewable energy, and specializes in large, complicated NEPA and MEPA projects. A recognized expert in sustainable design, Roy has been a LEED Accredited Professional since 2002 and has served for five years on the Application Guide for Retail Committee of the U.S. Green Building Council, developing an amended rating system.

As Undersecretary of Environmental Affairs for the Commonwealth of Massachusetts from 1993 to 1997, Roy led the development and implementation of numerous environmental policies and programs, including the Watershed Initiative, the Wetlands Restoration and Banking Program, and the state's Brownfields legislation.

### Schnitzer Steel acquires Puerto Rican recycler

■ Schnitzer Steel Industries, Inc. announced that it has signed a definitive agreement to acquire Ponce Resources of Salinas, Puerto Rico (Ponce). Ponce is engaged in the business of collecting, processing, and selling ferrous and non-ferrous scrap metal and operates at four locations in the Commonwealth of Puerto Rico. The acquisition is expected to close during Schnitzer's fiscal first quarter of 2009.

Terms of the transaction were not disclosed.

### Gulf Coast Recycling's Texas locations acquired

■ Waste Management Recycle America (WM Recycle America) announced that it has purchased Gulf Coast Recycling.

"The purchase of Gulf Coast Recycling's two Houston facilities along with its Beaumont, Texas recycling plant, makes us one of the largest recycling companies in Southeast Texas," stated Patrick DeRueda, president of WM Recycle America.

Gulf Coast Recycling was established in 1974 as Golden Triangle Paper Stock Co., Inc., which provided recycling services in the Beaumont, Texas area. The name Gulf Coast Recycling (GCR) was adopted in 1989 to better reflect its growing business activities.

Gulf Coast Recycling provides front load and roll-off recycling collection services, bale pick-up and trailer drop-off services, and commodity brokerage services.

There will be no interruption in service for any WM Recycle America or Gulf Coast Recycling's customers.

Alan Stein, president of Gulf Coast Recycling, who has nearly 40 years in the recycling and waste industry including senior leadership positions with BFI, will remain with WM Recycle America in a management position.

The acquisition fits into Waste Management's strategy to expand single-stream recycling and enhanced commercial recycling.

### Tube City names Latin America controller

■ Tube City IMS, LLC announced that Jun Aoki has joined the Company's finance department as Latin America controller.

Aoki will be responsible for the operation of the Company's financial and administrative processes and controls for its operations in Mexico, the Caribbean and South America. Prior to joining the Company, he worked at Brastel, Inc. in Los Angeles, California, as director of finance and operations. Aoki, who is based at the corporate headquarters office in Glassport, Pennsylvania, has more than 20 years of finance experience.

Tube City also announced that Marsha Smolcic has joined the Tax Department as tax manager. Prior to joining the Company, she worked at Deloitte & Touche LLP and Matchett Frusco & Associates PC. Smolcic, who is based in Glassport, Pennsylvania, has nearly 20 years of tax experience.

### Sims Group acquires Weinert Recycling

■ Sims Group Limited (Sims) announced it has acquired the assets of Weinert Recycling, a ferrous and non-ferrous scrap metal recycler with operations in Middletown and Liberty, New York.

The financial terms of the deal, including price, were not disclosed.

### Bayne Premium Lift hires regional sales manager

■ Bayne Premium Lift Systems has hired Jim Loeffler as Northeast regional sales manager.

Loeffler is charged with growing and managing customer relationships and increasing Bayne product awareness and revenue in the Northeastern region of the United States. His territory covers New England, south through Virginia, and west to Ohio and Kentucky.

Loeffler has extensive experience in the refuse industry, having spent more than 16 years in sales management roles for refuse equipment manufacturers and distributors. Most recently he served as sales manager for Suburban Equipment Company of Harborcreek, Pennsylvania, a distributor for refuse and recycling equipment, including rollout carts, Bayne cart tippers, and recycling bins. Previously, he was northeast regional sales manager for cart manufacturer Zarn, Inc., sales manager for cart manufacturer UltraCart, Inc., and director of sales for Suburban Container Service. Loeffler also has experience in retail management and served for six years in the Pennsylvania National Guard.

### Mascoma names GM director to advisory board

■ Dr. Andreas M. Lippert, director of Global Energy Systems for General Motors Corporation, will join Mascoma Corporation's Scientific Advisory Board, expanding the automaker's involvement with Mascoma as it moves closer to commercial production of cellulosic fuels.

Dr. Lippert leads GM's strategic analysis and outlook on global energy developments and energy supply chains, and co-authored GM's recent foundational outlook on energy diversity for transportation.

He has authored more than 20 research papers, conference publications and reports. He received his bachelor's and master's degrees from the University of Pretoria, South Africa and holds a doctorate in mechanical engineering from the University of Wisconsin-Madison.

The Mascoma Corporation Scientific Advisory Board is comprised of technology leaders with in-depth knowledge of the composition and structure of cellulosic biomass, conversion of biomass to sugars using microorganisms, and the fermentation of these sugars, biomass processing and related industries.

### Waste Services names DeGroot chairman

■ Michael G. DeGroot will assume the role of chairman of Canada-based Waste Services, Inc.

David Sutherland-Yoest, who had been chairman, will continue as chief executive officer and president.

*Imagination is more important than knowledge.*

—Albert Einstein

### Air One to distribute dust suppression products

■ Air One, Inc. has announced that it has been named a Northeast dealer for the Monsoon line of dust suppression and odor control systems. They will sell these systems throughout the United States to demolition contractors, transfer stations, construction sites, landfills, and compost sites.

### Magnum appoints Magog productions manager

■ Magnum D'Or Resources, Inc. appointed Carole Larose as their production manager.

Larose joined the Magnum Recycling Canada team with 20 years of professional experience in rubber and plastics. She was the previous plant manager for GDx Automotive in Magog, managing over 500 key employees directly involved in the rubber field.

### Promotions made at Kuttner North American

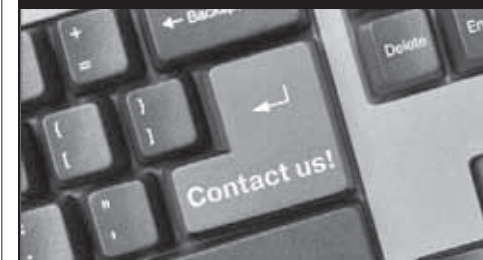
■ Kuttner North America, a single-source engineering company for process equipment and air emission systems, announced three key promotions.

John Fieber has been named vice president – business development. In this position Fieber will be responsible for developing new markets for Kuttner's environmental, heat recovery and process integration solutions. Fieber will also oversee all marketing efforts, trade shows, advertisements, technical papers and sales efforts for existing and new markets.

Jim Ruka has been named vice president – engineering and foundry sales. In this position Ruka will be responsible for the development of cupola and foundry product lines that includes process engineering, project management/engineers, electrical engineering, designers, field operations and sales.

Adel Rahman is now vice president – operations. In this position Rahman will oversee all activities related to commercial, financial, human resources, purchasing and estimating functions.

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# BUSINESS BRIEFS

## John J. Connelly elected to Tube City's board

■ Tube City IMS announced that John J. Connelly has been elected to the Company's board of directors.

Connelly retired as senior vice president-Strategic Planning and Business Development from United States Steel Corporation in February 2008 after a long and distinguished career.

Connelly began his career in the commercial department at U.S. Steel International in New York as a management trainee in 1971 where he progressed to the position of president before being promoted in 2002 to company-wide responsibilities for Strategic Planning and Business Development. Over the years, Connelly also served in various management positions in U.S. Steel's commercial, marketing and tubular products groups.

## Kevin Donnelley joins ThermoEnergy

■ ThermoEnergy Corporation has appointed Kevin F. Donnelley, PE as vice-president for project operations. Donnelley will initially focus on the Company's planned Ammonia Recovery Project (ARP) for New York City. Donnelley joined ThermoEnergy after consulting with the firm for several months while at Shaw Group and working on the 26th Ward Project intricacies.

Donnelley has over 27 years of experience in civil, environmental, infrastructure engineering, design and construction. His project management experience includes large and small projects for private, municipal and federal clients in both design and construction.

Donnelley was awarded the Air Force Meritorious Service Medal while serving as a Captain and Civil Engineering Officer at Norton Air Force Base, California. He will be based in New York City.

## NEXGEN shifts positions and adds business unit

■ In response to the terrific growth of its recycling division, NEXGEN, Marathon Equipment has created an autonomous business unit for the product group.

Leading the expansion is Gene Laminack, Marathon CFO and NEXGEN business unit director. Laminack joined Marathon in 2007.

Joe Szany, director of NEXGEN sales, will continue to lead the sales team. Szany joined Marathon in 2003 as director of horizontal baling systems sales.

Two seasoned Marathon managers, James Robbins and Mark Floyd, have been appointed to lead the development and service segments of the unit.

Robbins will be the product development manager and will concentrate on expanding the NEXGEN product line and enhancing existing equipment.

As the new NEXGEN technical and customer service manager, Floyd will examine current service processes and introduce fresh methods.

## Veolia Environmental opens R&D facility

■ Veolia ES Technical Solutions, L.L.C., announced they have opened a new Research and Development (R&D) facility in Lombard, Illinois. The Reclaim Research and Development Center (RDC) was conceived by Veolia ES Technical Solutions to increase its effectiveness in the reclaim and recovery market.

The primary function of the RDC is to evaluate potential solvent waste streams for possible recovery, either through reclamation or tolling, which returns the recycled stream to the original generator. Additionally, it provides technical support to existing Veolia reclaim facilities to improve recycling efficiencies of current reclaim streams.

The RDC consists of office space, a warehouse area and a lab. The lab is configured for both analytical and lab scale processing.

## SCS Engineers acquires RJR Engineering

■ SCS Engineers (SCS) has acquired RJR Engineering, Ltd., LLP (RJR) through an asset acquisition. Headquartered in Houston, Texas, RJR has been an environmental engineering, consulting and construction management firm serving public and private clients in the solid waste industry.

The engineering practice of the new SCS Houston office will continue to be led by Jeffrey K. Reed, P.E. and James Roy Murray, III P.E., who bring a combined experience of approximately 50 years of diversified environmental engineering experience.

## Jeffries named marketing director for Hendrickson

■ Jon Jeffries assumed duties as director of sales and marketing for Hendrickson Trailer Suspension Systems.

Formerly director of trailer OEM sales, Jeffries held a number of positions of increasing responsibility, including senior trailer account manager in his 10-year tenure at Hendrickson.

With more than 20 years in the transportation industry, he brings great knowledge and experience to his new position. He will work out of Indianapolis, Indiana and Canton, Ohio.

Jeffries earned a business degree from Indiana University at Bloomington and is a member of the Truck Trailer Manufacturers Association.

## WCA Waste acquires Advantage Waste Services

■ WCA Waste Corporation has announced the acquisition of Advantage Waste Service in Springfield, Missouri. The acquisition consists of a transfer station and two hauling operations. Advantage currently operates 15 routes, bringing the total number of routes run by WCA in the southwestern Missouri region to over 70.

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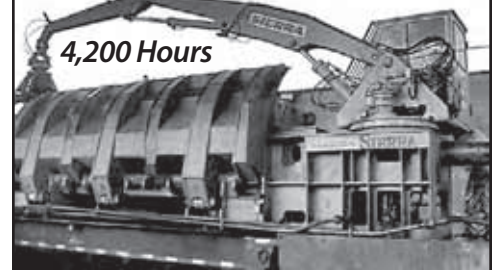
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2002 FUCHS MHL 331 (rubber), 35' reach, hydraulic cab, gen-set and grapple.  
1998 FUCHS MHL 350 REBUILT (rubber), 50' reach, hydraulic cab, gen-set and grapple.  
2007 SENNEBOGEN 830R (crawler), 52' reach, hydraulic cab, gen-set, demo grapple, A/C, 700 hrs.  
2000 & 2001 SENNEBOGEN 830M REBUILT (rubber), 50' reach, hydraulic cab, gen-set and grapple.  
2005 CAT M325C (rubber) with 50' reach, hydraulic cab, A/C, gen-set and grapple.  
2003 CAT M322 (rubber), 42' reach, hydraulic cab, gen-set and grapple.  
2003 LIEBHERR A934BHD (rubber), 49' reach, hydraulic cab, A/C, gen-set, plumbed for grapple.  
2001 LIEBHERR A924 REBUILT (rubber), 40' reach, hydraulic cab, gen-set and grapple.  
2000 LIEBHERR R914 REBUILT (crawler), 38' reach, 4' cab riser, gen-set and grapple.  
2000 LIEBHERR A904 REBUILT (rubber), 35' reach, 4' cab riser, gen-set and grapple.  
2003 NEW HOLLAND MH (rubber), 40' reach, cab riser, gen-set and grapple.  
1995 NORTHSHORE 2100 SE REBUILT (stationary electric -75HP) MH, 27' reach, cab, A/C and grapple.  
2002 KOMATSU PC220LC (crawler) with new gen-set and 48" magnet.  
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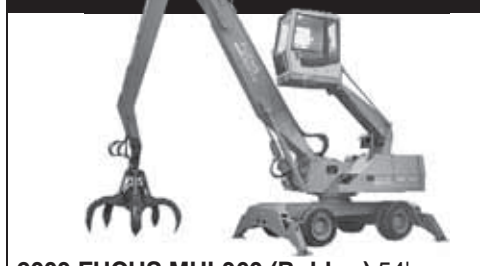
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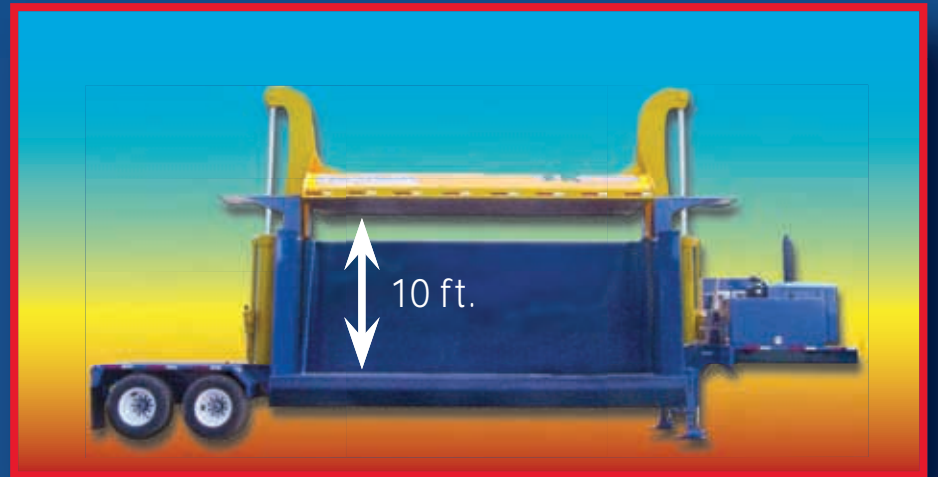
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## New York City to raise max hauling rates

For the first time since 1997, New York City waste haulers are getting an increase in the maximum waste hauling rate. The New York City Business Integrity Commission (BIC) proposed to increase the maximum rate that waste haulers may charge New York City commercial establishments for garbage removal.

Dominick Incantalupo, of Chelsea Sanitation Service, Inc., and the chair of the New York City Chapter of the National Solid Wastes Management Association (NSWMA), applauded the move and stated, "This rate cap increase is long overdue."

The BIC's proposed change to the rate cap is meant to comply with its statutory obligation to ensure that waste haulers in New York City can earn a reasonable rate of return and that all commercial establishments continue to receive high-quality, reasonably-priced, full-service waste removal.

The BIC's study of the existing rate cap structure has concluded that the 200 companies comprising the city's carting industry are very competitive. According to the BIC, the majority of businesses in New York City pay below the rate cap, and those businesses that dispose of recyclables and lighter waste generally pay significantly less than the rate cap.

David Biderman, a representative from NSWMA, stated it would be better to phase out the rate cap and allow the market to set the price for these services. "If phasing out the rate cap isn't possible, we believe these rules must include a mechanism to ensure regular and routine rate cap review so we don't have to wait 11 years for another adjustment, which would be fair for carters and customers alike."

Biderman noted the BIC's proposal doesn't even match the rate of inflation during the last decade. Especially in recent years, New York City carters have absorbed sharp cost increases. Biderman added, "We urge the BIC to keep an open mind during the public hearing process, so we can arrive at a fair and equitable rate cap."

## California legislation dictates new per capita waste disposal reporting

by Irwin Rapoport

The effort to promote recycling and waste diversion in California was given some legislative aid on September 29 when Governor Arnold Schwarzenegger signed into law Senate Bill 1016 – the Solid Waste Disposal Measurement System Act of 2008.

The legislation, introduced by Senator Patricia Wiggins (D – Santa Rosa) on February 23, 2007, has changed the way in which diversion is measured and reported.

Existing law, contained in the California Integrated Waste Management Act of 1989 (AB 939), requires each city or county's source reduction and recycling element to include an implementation schedule showing that a city or county must divert 50 percent of solid waste from landfill disposal or transfor-

mation on and after January 1, 2000. SB 1016 will now require the 50 percent diversion requirement to be calculated in a per capita disposal rate equivalent.

The act also requires each city, county, or regional agency to annually submit a report to the California Integrated Waste Management Board (CIWMB) summarizing its progress in reducing solid waste, and requires the report to contain certain information such as calculations of annual disposal reduction, information on changes in waste generated or disposed, and progress in diverting construction and demolition waste material.

Under this new law, jurisdictions that currently meet the 50 percent requirement will have a review before the board once every four years, while jurisdictions currently not meeting the

50 percent requirement will have a review before the board once every two years.

Wiggins, who has had a long-term interest in promoting recycling and waste diversion, served as a member of the CIWMB from 2004 to 2006.

"According to the CIWMB," said Wiggins, "California diverted more than 46 million tons of solid waste away from landfills into recycling, composting and transformation programs in 2005, for an estimated statewide diversion rate of 52 percent. Diversion has increased nine-fold since the Integrated Waste Management Act was passed in 1989."

CIWMB statistics show that almost 70 percent of jurisdictions have received approval for their diversion rates, while about 30 percent have either been

Continued on Page 5



The California Integrated Waste Management Act of 1989 requires each city to divert at least 50 percent of solid waste from landfill disposal. The new legislation will change the way that 50 percent is calculated, dictating that it now be reported on a per capita basis.



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## A letter from the Editor

Dear Readers,

I've been remiss. This month marks the fifth edition of American Recycler's Waste section that I've been responsible for and I've yet to introduce myself. I'd like to take the time now to remedy that.

I'm sure that not many of you pay much attention to the credits bar on Page 4 of the Main Section. I don't blame you – it isn't nearly as important as the information in the Scrap Metals Market Watch, or the insights into new tech and market trends that the rest of the paper affords.

But some of you may have noticed that a new name and position have been shoehorned beneath our venerable editor's spot at the top. That would be me, Dave Fournier, the Waste Section Associate Editor.

My job is to help decide what's newsworthy in waste, to be the person who sifts through the trash and finds the stories that you need to see each month. Sometimes, when my inbox is piled high with press releases and articles, it can be a daunting task. That's why I'd like to ask for your help.

I need feedback. I thrive on creative criticism. I love suggestions and reader response. Play a part in shaping the section – drop me a line and let me know what I can do to make it more relevant to you. More articles, more pictures, or fewer letters from the editor – you tell me. I'll do my best to make sure the section is what my readers need.

That being said, unless I hear that readers hate my letters (speak now or forever hold your peace), you can expect me to drop in from time to time and comment on happenings around here. Like this past September, for example. I attended my first industry event, the National Recycling Coalition's 27th Annual Congress and Expo in Pittsburgh.

I have to say that those of you who didn't manage to attend missed out on a phenomenal experience. Pittsburgh is a beautiful city, and the Expo was a great success. The informational sessions were inspirational and I learned quite a bit from the industry experts who conducted them. The exhibitor hall was impressive, and those who put on displays did a nice job of it. All in all, I can't wait for the next one.

Luckily, I have the chance to attend another event shortly. By the time this month's edition goes to print, American Recycler will have headed out to Kansas City, Missouri for ARA's 65th Annual Convention, where on October 24th and 25th I'll be wandering the exhibitor's hall. Hopefully I'll see a lot of our readers there. I'm looking forward to meeting you all.

It's not news unless it matters to you, so be sure to keep in touch. Thanks for reading,

Dave Fournier  
Associate Editor  
david@americanrecycler.com  
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# Greenstar UK invests \$30 million for new Atlas site at Enfield

Greenstar UK, a recycling-led waste management company, is to build one of the capital's largest materials recycling facilities (MRFs) which will process nearly 10 percent of north London's waste. It has acquired the 192,000 square-foot Atlas warehouse building, purpose-built on a nine acre site.

Adjacent to major transport links, the site will be fitted out with the most modern technology for processing recyclable materials. It will also be a depot for up to 60 recycling vehicles which will collect commercial recyclables.

Valued at around \$30 million, the deal is Greenstar's largest strategic investment to date in developing its national MRF infrastructure, and is part of its plan to be the first fully integrated, end-to-end recycling service provider in the UK.

The Greenstar Atlas site is licensed to process up to 270,000 tons of recyclables annually through its MRF, as well as for handling a further 270,000 tons annually through its waste transfer station. Regarded as one of the largest facilities of its kind in the capital, and providing support for a substantial MRF under-capacity in north London, the Greenstar site will be capable of handling an estimated nine percent of the area's waste.

The waste transfer station is due to start operation in November this year,

bulking residual waste for landfill disposal, while the MRF should be fully operational by July 2009. Initially creating approximately 25 jobs, the project is expected to create up to 215 jobs total.

The facility will be designed to process both domestic and commercial dry recyclables such as paper, cardboard, plastic, metal and glass containers, textiles and other materials. Its design and technology will enable the high quality processing of co-mingled or source-separated dry recyclables.

Greenstar advocates co-mingled recyclable collection, though not exclusively, on the grounds that it is more cost-effective than other collection systems, it is very easy to use, and is proven to increase recycling in both domestic and commercial situations.

Ian Wakelin, CEO of Greenstar UK, said, "Greenstar's investment in north London comes at a critical time. It is really significant for the capital as there is a serious shortage of local MRF capacity. Our new facility is right in the heartland served by the North London Waste Authority which acts on behalf of seven London local authorities, and will go a long way to providing the recyclable processing and waste bulking requirements of the area."

Wakelin emphasized the importance of a facility like Atlas at a time when both domestic and commercial recycling

in the capital has to increase substantially, to meet targets set by both the Mayor of London and the government which is calling for a 40 percent national recycling rate by 2010.

"That's why we're also establishing a co-mingled recycling collection service for north London's businesses," Wakelin continued. "We want to make it as easy as possible for people and businesses to recycle more and to recycle better."

In 2006/07, London produced around 2.2 million tons of household waste of which around 364,000 tons of dry recyclables were collected (around 16.7 percent). A 40 percent recycling rate will require recycling 880,000 tons by 2010, and 990,000 tons five years after that.

Gary Ince, CEO, North London Business comments, "Waste management is fast becoming an important business sector in north London, where several companies have located in the past decade. Greenstar's investment in a modern processing plant will be an exemplar site showing how waste can be handled in a way that does not negatively impact an area or neighbors. This investment, at a time when other areas of the economy are slowing, is a real boost for the local Enfield area."

## Irish company's RFID waste management technology comes to the United States

According to an announcement made by Enterprise Ireland, Advanced Manufacturing Control Systems (AMCS) will deploy its radio frequency identification (RFID) waste management tracking solution in the United States market for the first time.

Customers can use the RFID technology to enhance their efforts to accelerate recycling rates across the States, as well as enable them to accurately charge

people for the amount of waste they generate.

"Increasing recycling rates requires the deployment of creative new strategies and technologies in the waste management industry," said Austin Ryan, business development director of AMCS. "We have developed a suite of advanced waste management tracking solutions that are bringing new efficiencies to waste management activities in

Ireland, the United Kingdom and Scandinavia. Now, we're enthusiastic to bring this technology to the United States. America represents a great opportunity for us to grow our business, while simultaneously helping United States companies and consumers improve their efficiencies and reduce the impact of waste on the environment."

In the States, AMCS technology will be leveraged by municipalities and private waste collectors to advance a program that has been credited with more than doubling community recycling rates. In the program, an RFID chip is placed in each recycling bin. When the bin is weighed, it communicates with back-office information management systems, allowing the company to track the recycling activity of individual residents. The technology can also be used to charge residents and commercial customers for the exact amount of waste they send to the landfill.

In addition to its RFID technology, the company is actively working with Enterprise Ireland – the Irish government agency responsible for the development and global promotion of world-class Irish companies – to make its other technologies available to the American market.



Radio frequency identification (RFID) tags are employed throughout the United States to track waste output and encourage recycling.



## Waste consultant cuts costs for customers

by Brian R. Hook

Economic hard times are forcing companies to look for ways to save money, providing more business for companies like St. Louis-based Waste Remedies LLC.

The waste management consultancy, with revenue of nearly \$9 million last year, helps customers reduce the costs for their trash service, delivering savings anywhere from 30 to 50 percent for thousands of clients, ranging from large corporate companies to individual stores.

"Prices for waste disposal have been going up so much that I think that it encourages people to look for companies like Waste Remedies to find ways to slow down the cost increases," said Tim Gray, chief executive officer of the nine person firm.

"If you are a company with double-digit growth and everything is fantastic then saving a little bit of money in trash is probably not the top priority, whereas if your company needs to find cost savings, we're good people to talk to," he said. "I think customers are looking harder at ways to save money than a couple of years ago."

Waste Remedies works on a contingency basis, therefore customers do not pay anything upfront. Instead the firm is paid a percentage of savings it achieves over a three to five year term. "From that perspective, it is a no risk proposition," Gray said.

Waste Remedies goes and gathers data and looks at things like pricing information, recycling options and ratios of trash volumes. It then returns to the customer with a menu of recommendations to reduce the cost of a customer's waste stream.

"We do a lot of number crunching," Gray said "We look at a lot of different ratios, from compaction ratios to volumes per person for an apartment building."

The core of Waste Remedies' customer base is multi-family or apartment building owners and operators. This includes real-estate investment trusts, large property management companies and regional companies that own or manage property.

Waste Remedies has clients in 46 states, but most properties are concentrated in big metropolitan areas scattered along the East Coast, in Texas, and in Chicago.

To get a better picture of the waste arrangements at a particular location, Waste Remedies often uses satellite imagery. "It is a convenient way to talk about where dumpsters are and where access to properties is and things like that," Gray said.

Waste Remedies installs compactors with monitors inside to keep track of compression ratios and the pressure inside the compactor. A web application will send an e-mail to a waste hauler when the compactor is full. It will also send an e-mail to Waste Remedies. "We keep an eye on it to make sure it is working properly," Gray said.

Waste Remedies programs a computer application that comes with the monitor to make sure that the compactor is only being picked up by a hauler when it is full.

"The challenge is always finding savings on a property by property basis," Gray said. "We are always adding resources and trying to find new ways to find savings."

## Waste Management fined for West Hawaii Landfill violations

The United States Environmental Protection Agency (EPA) announced a settlement with Waste Management of Hawaii, Inc. and the County of Hawaii for \$33,500 in fines and at least \$184,400 for a beneficial environmental project after violating the Clean Air Act at the West Hawaii Landfill at Waikalua.

The supplemental environmental project will address the ongoing smoldering conditions at the closed Kona landfill by conducting heat mapping of the site for a future landfill-wide fire suppression program. The project will also test the effectiveness of proven landfill fire suppression techniques using fire-retardant foam that could be used at the Kona site. Finally, air monitoring will be done around the Kona landfill to assess any potential impacts from the smoldering landfill.

"We're pleased that, in resolving the West Hawaii Landfill violations, the

combustion issues at the closed Kona Landfill will also be addressed," said Deborah Jordan, director for the EPA Pacific Southwest region's air division.

Since 2001, Waste Management and the County of Hawaii have violated air testing and monitoring reporting requirements for hazardous air pollutants and volatile organics at the West Hawaii Landfill.

The West Hawaii Landfill at Waikalua on the Big Island is owned by the County of Hawaii and run and operated for the county by Waste Management of Hawaii, Inc. Staff from the Hawaii Department of Health's Clean Air Branch and the Solid and Hazardous Waste Branch provided assistance to the EPA's investigators. In addition, staff from the California Integrated Waste Management Board assisted in the development of the environmental project.

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Part of the settlement between Waste Management of Hawaii and the EPA involves heat mapping a still-smoldering Kona landfill.

## Cow manure powers Ohio Electric Cooperative lines

A herd of 3,900 dairy cows in northern Ohio is producing renewable energy in the state's first-ever project to capture methane from manure for generation of electricity.

Bridgewater Dairy in Williams County fired up two generators at its new anaerobic biodigester facility and began flowing green power to Buckeye Power, Inc., and Ohio's rural electric cooperatives.

Cow manure from the dairy is used to "feed" bacteria that thrive in an airless environment. The organic waste decomposes. Gaseous byproducts, including methane, are produced. Methane, a greenhouse gas 23 times more potent than CO<sub>2</sub>, is captured and used to fuel a pair of engine-and-generator sets capable of cranking out a maximum of 1.2 megawatts of electricity.

Buckeye Power, Inc., has a contract with Bridgewater Dairy to purchase all of the electricity and will use it to provide green energy to the state's 24 electric cooperatives. North Western Electric Cooperative in Bryan, Ohio, provided the grid interconnection via a 3-phase circuit on its 12.4-kilovolt system.

"Bridgewater, we believe, is the first animal waste biodigester in Ohio to come online and generate substantial amounts of power," said Buckeye Power chief operating officer Pat O'Loughlin, adding that several such facilities exist in Wisconsin and other states with high numbers of dairy producers.



Dairy cow manure in Ohio is being used to cultivate bacteria that thrive in airless environments. The bacteria break down the waste into gaseous byproducts including methane, used to power engine sets.

The facility's output is determined by the amount of methane gas produced by the anaerobic digestion process. Generation has started at the 400 kilowatt level but should steadily increase. Normal operation will produce enough electricity to supply an estimated 400 homes.

For the owners of Bridgewater Dairy, the biodigester generation system provides revenue from the sale of electricity but also solves the problem of what to do with animal waste. After cow manure decomposes in the digester and loses its nutrient value to the "bugs," as the bacteria are called, it can be used as a high-grade fertilizer to be spread or sprayed on pastures. The anaerobic process kills pathogens and substantially reduces the odor normally associated with agricultural application of manure-based fertilizer.

For Ohio electric cooperative members, green power from Bridgewater Dairy presents an opportunity to help reduce greenhouse gas emissions by using a renewable form of energy. Biodigester generation becomes the primary source of supply for the Envirowatts green power program offered by Buckeye Power through participating electric cooperatives.

A second biodigester generation system - this one using waste from a poultry farm - is expected to come online soon to generate more renewable energy for members of Ohio's family of electric cooperatives.



# Definition of solid waste revised

A final rule under the Resource Conservation and Recovery Act streamlines regulation of hazardous secondary materials when they are recycled by reclamation. The Environmental Protection Agency's (EPA) regulation maintains strong protection of human health and the environment by limiting the streamlined requirements to specific, legitimate recycling activities.

"Removing barriers to recycling is good for business and the environment," said Susan Parker Bodine, assistant administrator for the Office of Solid Waste and Emergency Response. "This rule will help conserve natural resources, save energy and reduce costs."

The rule excludes materials from the federal hazardous waste system that are:

- Generated and legitimately reclaimed under the control of the generator;
- Generated and transferred to another company for legitimate reclamation under specific conditions; or
- Determined by the EPA or an authorized state to be non-wastes on a case-by-case basis via a petition process.

The rule also contains a provision to determine which recycling activities are legitimate under the new exclusions and non-waste determinations. These exclusions are not available for materials that

are considered inherently waste-like, used in a manner constituting disposal, or burned for energy recovery.

The EPA estimates that about 5,600 facilities handling approximately 1.5 million tons of hazardous secondary materials annually may be impacted by this rule. The activities most affected are metals and solvent recycling. EPA estimates that the regulation will save approximately \$95 million per year for the affected industries.

For information about the definition of Solid Waste Rule, visit [www.epa.gov/epawaste/hazard/dsw/index.htm](http://www.epa.gov/epawaste/hazard/dsw/index.htm)

# Bailout includes incentives for waste-to-energy

The Economic Stimulus Bill HR1424, more commonly referred to as "The Bailout", brought with it incentives for renewable energy production that will have an impact on the deployment of biomass and waste-to-energy conversion technologies. At the second international Energy from Biomass and Waste (EBW) Exposition & Conference on October 14, 2008 in Pittsburgh, Pennsylvania, professionals from the power production and waste management business met to discuss policy, market trends and new projects.

The bill provides authorization of \$2 billion dollars of new Clean Renewable Energy Bonds (CREBs) for facilities producing electricity from resources including all types of biomass, landfill gas, and trash combustion. It further extends the biodiesel Production Tax Credit (PTC) for three years, expanding the field to include non-vegetable oil diesel producers, and includes a continuation of E85 station and fossil-free alcohol PTCs. For cellulosic ethanol facilities that are placed into operation before January 1, 2013 the bill provides a 50 percent cost write off.

At the EBW Expo over 70 local and international organizations were present to exhibit their products and services, highlighting the latest in sustainable energy production and safe waste handling. Conference topics covered techniques, investment and finance, policy and regulation, and work development.

# European Commission sends final warning to Spain over waste directive violations

The European Commission has sent Spain a final written warning for poor application of EU legislation on the treatment of waste. Spain still needs to close and restore 87 illegal landfills which are receiving 720,000 tons of waste per year. In addition, a large number of illegal landfills that have been closed need to be restored. This final warning follows an initial warning sent in March last year about the existence and operation of illegal and uncontrolled landfill sites in the country. The Commission's action is the result of a lengthy appraisal of Member States' compliance with the waste directive. The directive oversees the operation of landfill sites.

European Environment Commissioner Stavros Dimas said, "All European citizens have a right to a clean environment, so I call on Spain to urgently make good these shortcomings and comply with the waste directive. The Commission has repeatedly alerted EU Member States to the dangers that uncontrolled landfills pose to human health and the environment."

Spain's national urban waste plan, covering the years 2000-2006, envisaged steps to close and rehabilitate all harmful landfill sites. The Commission subsequently asked Spain for information on the existence of illegal landfill sites and the measures it had taken to close and restore these sites.

On the basis of data showing a number of illegal landfill sites, the Commission sent a first warning letter to Spain in March 2007. In their response Spain said that the number of illegal landfills in the original urban waste plan had been overestimated and that only 87 illegal landfills remained in Spain. These, it said, would be closed and restored as part of plans designed for the years 2007 to 2015. These plans have not yet been approved and communicated to the Commission.

The Commission is sending Spain a second warning letter, which, in the absence of a satisfactory response within two months, could refer Spain to the European Court of Justice.



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# Contaminated sites examined for renewable energy locations

In a new approach to return land to productive use, the United States Environmental Protection Agency (EPA) has identified thousands of properties that could potentially host solar, wind or biomass energy production facilities. The EPA pinpointed these energy assets using Google Earth and has listed each property's attributes for energy redevelopment.

lands and lands under their Superfund, Brownfields, and Resource Conservation and Recovery Act programs.

These properties have varying levels of historic contamination. Contamination at some of these properties has already been addressed, while the level of contamination at others is still to be fully investigated. It is likely that some of the brownfields properties have little

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The EPA used Google Earth to find contaminated sites like this that could be used as future locations for renewable energy projects.

“EPA is putting renewable energy production on the virtual map,” said EPA Administrator Stephen L. Johnson. “Our new interactive website encourages states and energy companies to put previously contaminated properties back to work.”

The EPA worked with the Department of Energy's National Renewable Energy Laboratory to collect information on renewable energy availability across the country, and merged it with EPA data from several land cleanup programs. In addition, they applied screening criteria including distance from power lines, closeness to roads and site acreage to identify sites that are good candidates for hosting renewable energy production facilities.

In producing the interactive state maps, the EPA used information on properties from several land cleanup programs, including abandoned mine

historic contamination. The appropriate steps to address the contamination at these properties will vary from site to site, depending on the nature of the contamination and intended reuse.

The properties offer a number of attractive features for the development of renewable energy facilities including:

- Appropriate location, useful infrastructure, such as transmission lines and roads, and appropriate zoning for development;

- Landowners and local communities that are often eager to see new economic uses for these properties;

- An alternative to using green spaces, which may help reduce community concerns about the effects of a planned renewable energy facility.

More information may be found at [www.epa.gov/renewableenergyland](http://www.epa.gov/renewableenergyland).

# Corvette Racing, Penske Porsches win Green Challenge world debut

These will be the names to be remembered as the inaugural winners of the Green Challenge™ at the American Le Mans Series' Petit Le Mans endurance race in Atlanta:

- Porsche and its Penske RS Spyder team of Pat Long, Sascha Maassen and Emmanuel Collard, and

- GM/Chevrolet and its Corvette Racing team of Johnny O'Connell, Jan Magnussen and Ron Fellows.

These teams earned the first ever Green Challenge trophies in their respective prototype (Porsche) and GT (Corvette) classes. Each had the best score in class for overall performance, fuel efficiency and environmental impact (measured by greenhouse gas emissions) over the 1,000-mile, 2.54-mile road course.

The award was created in conjunction with the United States Environmental Protection Agency (EPA), the United States Department of Energy (DOE) and SAE International. On hand to present each trophy were Margo T. Oge, the EPA's director of the office of transportation and air quality; Pat Davis, the DOE's official for vehicle technologies and renewable energy and efficiencies; and Dave Schutt, SAE International's COO and executive vice president.

The American Le Mans Series is the only major race series in the world in which all cars race on alternative street legal fuels: sulfur-free diesel, E10 and cellulosic E85. Street legal refers to fuels that are virtually the same as those the consumer purchases at the fuel station.

Some people, including Oge, believe the Green Challenge represents a real game changer within the motor-sports and automotive industry.

“Racing has always been associated with high power and fast driving as well as innovation in safety and performance,” said Oge. “But we have never been able to put racing and green(ing) together. Our hope is by starting here and introducing environmentally friend-

ly technologies, we will continue and transfer such developments to what you and I drive on a daily basis.”

Often viewed as the racing series in which technology transfers directly from the race car to the dealer showroom, the American Le Mans Series has become a leader in green racing. The 11 automobile marquee that race in the series – Audi, Acura, Aston Martin, BMW, Corvette, Dodge, Porsche, Ferrari, Mazda, Panos and Ford – readily admit that the relevancy of the American Le Mans Series and its ability to create an environment to develop technologies is one of the primary reasons they race in the sports car series.

“We have begun something that will have a profound effect on the motor-sports and automotive industry,” said Scott Atherton, president and CEO of the American Le Mans Series. “When you get the type of support we have had from the highest levels of the EPA and DOE, you know that you are involved in something that can really make a difference. Fuel efficiency and energy independence are two of the most relevant topics we all face today and the American Le Mans Series is prepared to lead the way.”

Audi Sport North America in its R10 TDI diesel-powered race car won the actual race for the ninth consecutive year with drivers Allan McNish, Dindo Capello and Emanuele Pirro.



Steve Wesoloski, GM Racing Road Racing Group manager, hoists General Motors' Green Challenge trophy

# California Law

Continued from Page 1

granted a time extension or are on compliance orders.

“My bill is intended to focus on disposal reduction and enhanced program implementation efforts,” said Wiggins, “and it makes conforming changes to the provisions requiring state agencies and large state facilities to divert 50 percent of all solid waste.

She added, “SB 1016 has two primary components – it moves the current emphasis on an estimated diversion measurement number to using an actual per-capita disposal rate when determining program implementation and reduces the frequency of jurisdictions reviewed before the board. These components will be implemented under a disposal measurement system while maintaining a 50 percent diversion rate ‘equivalent’.”

Making reporting more accurate,

efficient and timely is a critical element of the bill.

“The current system uses a set of complex adjustment factors that are not timely – typically they are not available from other state agencies until 14 months or more after the end of the reporting period and an additional 4-6 months after that for a jurisdiction to report,” said Wiggins. “SB 1016 allows all parties involved to concentrate their efforts on diversion program implementation rather than paper work and bean counting.

“To ensure local performance,” she added, “CIWMB staff will visit jurisdictions and state agencies at least once annually and use the Disposal Reporting System (DRS) to identify disposal trends/anomalies that indicate potential performance problems.”

The key elements of SB 1016 are:

- A requirement that on and after January 1, 2009, the CIWMB will determine compliance with the diversion goals established by the 1989 act by

comparing each jurisdiction's “per capita disposal rate” with the jurisdiction's “50 percent equivalent” per-capita disposal rate on January 1, 2007.

- A specification that CIWMB consider the per-capita disposal rate when determining compliance with the 1989 act, but that the rate is not the only factor in determining compliance.

- A requirement by the CIWMB to evaluate the need for a review of a jurisdiction's program implementation should the rate exceed the 50 percent equivalent.

- It specifies how CIWMB determines the per-capita disposal rate (total annual disposal divided by population).

- It authorizes CIWMB to use an alternative per-capita factor for developing the per-capita disposal rate if a representative rate cannot be determined using the specified factors.

- Specifies how CIWMB determines the 50 percent equivalent disposal rate using years 2003-2007 waste generation information.

- Retains CIWMB's authority to establish an alternative per-capita disposal rate for rural jurisdictions.

- It revises the 10 percent diversion “credit” for transformation to reflect the per-capita disposal rate.

- It clarifies and consolidates the information required for the annual report submitted by jurisdictions to CIWMB, including an update of the jurisdiction's source reduction and recycling element (SRRE) and household hazardous waste element (HHWE) to include any new or expanded programs; an update of the jurisdiction's non-disposal facility element to reflect any new or expanded non-disposal facilities; and disposal characterization studies or other studies showing the effectiveness of program implementation.

It requires CIWMB staff to visit each jurisdiction at least annually to monitor the jurisdiction's implementation and maintenance of diversion programs. Wiggins' bill enjoyed solid support among the many stakeholders.



# Waste Services announces \$300 million refinancing

Waste Services, Inc., a multi-regional solid waste services company, announced that it has completed the refinancing of its term loan and revolving credit facilities with a new dual-currency credit facility totaling approximately US\$300 million. The new credit facility consists of a US\$39.9 million term loan, a C\$132.1 million term loan and US\$139.6 million in a dual-currency revolving credit line. The term loans and revolver mature in 2013 and bear interest at LIBOR plus 3.5% on United States borrowings and a comparable rate on Canadian borrowings. The facility has been provided by a consortium of nine commercial banks with Barclays Capital and Banc of America Securities LLC serving as joint lead arrangers and joint lead bookrunners.

Waste Services' president and CEO, David Sutherland-Yoest, applauded the new facility. "Barclays Capital and Bank of America have done an outstanding job during a turbulent period in the capital markets to provide us with an attractive new credit facility. The success of this

offering speaks volumes about the recession resistant nature of the waste industry in general."

Waste Services' CFO, Ed Johnson, commented that the new credit facility will almost immediately generate several significant benefits for the company. "This new facility replaces our old revolving credit line which was approaching maturity in April 2009. It also has allowed us to put a substantial portion of our debt into Canada, helping us offset our Canadian profits where we are a cash tax payer. In addition, the new agreement is structured with a smaller term loan portion and a larger revolving portion, enabling us to use our cash more efficiently by giving us the flexibility to pay down debt with our excess cash without compromising our liquidity. In summary, this new facility improves our financing structure, significantly extends our debt maturities and provides us with usable dry powder for the opportunities that we expect will present themselves."

# Covanta celebrates waste conversion milestone

Covanta Holding Corporation recently celebrated a major milestone – the company recently converted its 250 millionth ton of waste into energy.

In the process, the company estimates that 250 million tons of greenhouse gases have also been offset. Covanta's 35 domestic facilities offset approximately one ton of greenhouse gases for every ton of waste processed.

Covanta develops and operates large scale energy-from-waste and other renewable energy projects. The 250 million tons of residual municipal solid waste converted into energy since beginning operations in 1986 has several significant environmental benefits. Covanta reports that it has:

- Offset enough greenhouse gas emissions to have the same benefit as planting 6 billion trees;

- Generated enough clean, renewable electricity to power 11 million homes;

- Preserved hundreds of acres of land and habitat (250 million tons of

waste is enough to cover the entire island of Manhattan 30 feet deep); and

- Recycled approximately 5 million tons of metal that would have otherwise been landfilled, or enough metal to build 60 Golden Gate bridges.

Said Covanta CEO and president, Anthony J. Orlando, "Over the past 22 years, we have proven that energy-from-waste helps address three of society's biggest issues: how to provide sustainable waste disposal, how to generate clean energy and how to reduce greenhouse gas emissions."

Each year, Covanta's energy-from-waste facilities process approximately 5 percent of the nation's waste. At the same time, energy derived from that waste generates enough energy to power all the homes in Philadelphia and its suburbs for a year. Covanta's facilities also recover and recycle more than 360,000 tons of metals from the waste each year.

# Perma-Fix fixes facility for EPA

The U.S. Environmental Protection Agency (EPA) announced a \$304,500 settlement with Perma-Fix Northwest Richland, a waste treatment facility, for failure to properly manage hazardous waste and PCB waste at its facility in Richland, Washington. Perma-Fix, which acquired the facility on June 13, 2007, has cooperated with EPA to improve its waste management procedures and come into compliance.

On March 6, 2007, EPA and the Washington State Department of Ecology conducted an inspection of the facility, which was at that time owned and operated by Pacific EcoSolutions, Inc. (PECoS). On June 14, 2007, EPA issued a notice of violation and a notice that the facility was unacceptable for receipt of Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) remedial waste, citing violations of the permit and Washington dangerous waste regulations. Of greatest concern were:

- PECoS's prolonged storage of dangerous waste and PCB waste;

- Failure to manage Mixed-Toxic Substances Control Act (TSCA) regulated PCB waste properly in accordance with its permit;

- Failure to properly manage dangerous waste generated during treatment of low-level waste;

- Failure to determine if a generated solid waste is a dangerous waste;

- Failure to determine whether hazardous waste must be treated to meet land disposal restrictions;

- Disposal of dangerous waste at an unpermitted facility; and
- Transporting a dangerous waste without a manifest.

Perma-Fix worked with the agency to correct the violations and, by letter dated September 24, 2007, received notification of the EPA's determination that the facility remained acceptable for the receipt of CERCLA off-site wastes.

## MONTHLY CROSSWORD

BY Myles Mellor

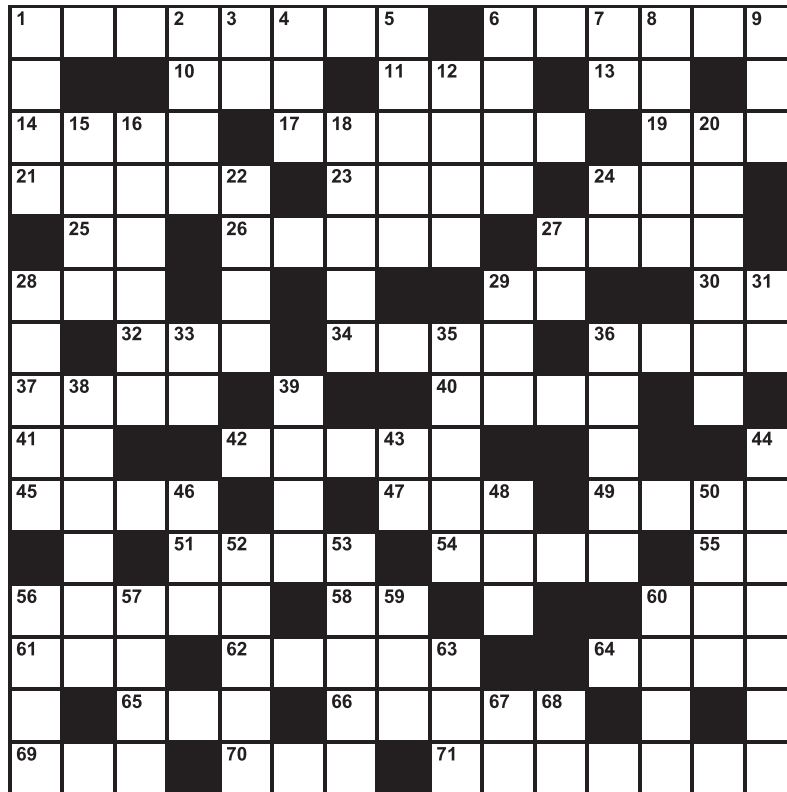
SOLUTION IS FOUND ON PAGE B7

### ACROSS

1. Metallic element that makes up approximately seven percent of the Earth's crust
6. \_\_\_ reduction, backyard composting, for example
10. "Gladiator" star middle name
11. Reduce, recycle, re-\_\_\_
13. "Mi casa es \_\_\_ casa"
14. Gem stone
17. Transport item
19. DNA cousin
21. Office materials that should be recycled
23. Stallion
24. Dundee denial
25. Exercise class
26. Loosen your laces
27. Cube of recycled material
28. Everyone's Uncle?
29. Large shoe size
30. British Lady
32. One of the largest trees in the world
34. Paper quantity
36. GM's newest electric battery vehicle
37. \_\_\_ fill, trash heap
40. CRT part
41. Roman 2
42. Sharp recycling material?
45. \_\_\_-off centers, these recycling facilities accept materials that have been separated
47. Pod dweller
49. Wood factory
51. Trash the environment, for example
54. Counter to
55. Each, abbr.
56. Green waste places
58. Type of ray that SPF's target
60. Girl relation
61. "I" problem
62. Slave
64. \_\_\_-consumer content, material that has been used by consumers, and then reused
65. View
66. \_\_\_ the loop, the last and most important step in the recycling process
69. Deli bread
70. Be quiet!
71. Food without manufactured chemicals, description

### DOWN

1. \_\_\_ center, recycling facility that accepts only anti-freeze, batteries, oil, and latex paint
2. Distance measurement



3. Night scope technology, for short
4. Downy coating on a plant
5. \_\_\_-family recycling, system of collecting separated or commingled recyclables at apartment buildings
6. Tree starter
7. Land of opportunity
8. Characteristic of the country
9. Environmental group
12. Swing around
15. Three bears' big guy
16. "I am the \_\_\_\_, I am the walrus," Beatles lyric (2 words)
18. Full-blooming plant with daisy-like flowers
20. Pine tree dropping
22. Type of order?
24. Sodium symbol
27. Exist
28. MSW part
29. Cassowary look alike
31. Computer department
33. Chargers' home, for short

35. On a cruise? (2 words)
36. \_\_\_composting, the process whereby worms feed on slowly decomposing materials
38. Newer car feature (2 words)
39. Become indistinct
43. Spanish, for short
44. Recyclable material made from petroleum
46. Doctor's degree?
48. Picnic problem
50. Hawaiian necklaces
52. Fireplace remains
53. Mixed up yard trimmings used to nourish soil
56. Period of time
57. Romantic flower
59. Remote control button, abbr.
60. Ready to grow
63. In addition
67. Older than Jr
68. For example, briefly



# Casella opens 4.8 megawatt gas-to-energy facility

Casella Waste Systems, Inc. announced that it is operating its Hyland landfill gas-to-energy plant and producing clean energy from landfill methane gas ahead of schedule. This facility is the company's fourth landfill gas-to-energy project.

The new landfill gas-to-energy plant, located at the company's Hyland landfill in Angelica, New York, is expected to produce 4.8 megawatts per hour of clean energy, or enough renewable electricity to power over 5,000 households. Casella deployed its low-emission landfill model at the Hyland site with a state-of-the-art gas collection system collecting landfill gases, which are then scrubbed and used to power Caterpillar generators.

Beyond producing clean energy, the facility will reduce carbon dioxide equivalents – greenhouse gases – by eliminating landfill methane emissions and displacing the use of fossil fuel with renewable energy. In total, the emissions savings are equivalent to taking approximately 40,000 cars off the roads each year. The Hyland facility is expected to produce clean energy for well over 25 years.

John W. Casella, chairman and chief executive officer of Casella Waste Systems, said, "By producing clean energy

at this site, we are creating additional economic value from the waste stream, long after we were paid to haul and safely dispose of the material."

"We believe that waste is no longer just a throw-away, but is instead a raw material for manufacturing new products and a resource for producing clean energy," said Casella. "We are positioning the company to take advantage of significant economic, environmental policy and cultural shifts by pursuing opportunities that create both economic and environmental value from waste."

Casella and its partners are now producing roughly 20 megawatts per hour of clean energy at four of the company's landfills. This clean energy is powering roughly 20,000 homes and the emissions savings are equivalent to taking approximately 165,000 cars off the roads each year. The company expects to begin producing clean energy at its Clinton County landfill gas-to-energy facility during the third quarter of fiscal year 2009 and at its Southbridge landfill gas-to-energy facility during the first half of fiscal year 2010. When these 2 new facilities come on-line, the company and its partners will be producing approximately 28 megawatts-per-hour of clean electricity at 6 landfill gas-to-energy facilities.

# Republic Services and Allied Waste complete merger plans

Republic Services, Inc. and Allied Waste Industries, Inc. disclosed that they are poised to implement their plans to complete the merger in the fourth quarter of 2008. The companies are highly confident that they will meet the projected \$150 million of merger synergies in the third year following completion of the transaction.

"As we move through the planning process and get closer to the completion of this merger, we are very confident that we will be able to achieve value for our shareholders by building on both companies' foundations of profitable growth," said Jim O'Connor, chairman and CEO of Republic Services.

Republic Services and Allied Waste began the integration planning process immediately after the announcement of their definitive merger agreement by forming 17 functional teams of corporate, regional and local representatives from both companies. Over the past three months, these teams have invested more than 12,000 man-hours in planning for the smooth and successful merger of Republic and Allied. A large part of the planning process included the review and selection of the operating systems that will be used by the combined company. Additionally, the companies have named the top 70 executives and managers of the combined company.

# GDF builds hydro plant

A subsidiary of GDF Suez will start the construction of a 115 MW run-of-the-river hydro project following an auction for energy companies, which took place in September 2008.

As a result of this auction, 100 MW have been sold to distribution companies for a period of 10 years, between 2013 and 2022. GDF Suez will provide 6,000 GWh for the length of this period.

The hydro power plant will consist of three units built down the Chiriqui river.

This enlarges the group's local offering of energy sources. Energy prices are expected to stabilize as less dependence is placed on fluctuating fuels, resulting in lower prices for Panamanian consumers.

# Waste Connections exercises over-allotment

Waste Connections, Inc. announced that the underwriters of its recently announced public offering have exercised their over-allotment option to purchase an additional 1.65 million shares of common stock from Waste Connections at the public offering price of \$32.50. In total, Waste Connections will sell 12.65 million shares of common stock at \$32.50 per share in this public offering, raising net proceeds of \$393.9 million. J.P. Morgan Securities Inc., Merrill Lynch & Co., Banc of America Securities LLC and Credit Suisse Securities, LLC acted as joint bookrunning managers for the offering.

*A diplomatic husband said to his wife, "How do you expect me to remember your birthday when you never look any older?"*

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Solution for crossword on page B6.

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I	M	S	E	S	O	T	C	E	E	S	A
T	S	O	P	L	O	T	E	H	O	G	E
S	I	S	T	A	V	S	D	R	A	V	A
A	E	I	N	T	A	M	A	R	H	B	
L	L	I	M	V	E	A	P	U	P	O	R
P	R	S	S	L	A	S	G	L	I	I	
E	E	B	E	T	B	D	N	V	A	L	
T	L	O	V	A	M	R	E	H	S	V	O
D	E	E	E	E	S	A	M	S	A	S	
E	L	E	B	A	E	I	T	N	E	P	
E	A	N	D	T	S	R	E	P	A	P	
A	N	R	T	L	E	T	P	A	L	P	O
P	S	S	E	S	A	V	I	R	I	B	
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