



American Recycler

NewsVoice of Salvage, Waste and Recycling

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Alcoa sets ambitious recycling goal

Projects aluminum can recycling at 75% by 2015

Alcoa announced that it has established a goal to raise the industry's used beverage can (UBC) recycling rate in North America from its current 52% rate to 75% by 2015.

In the United States aluminum beverage can market of over 1.5 million metric tons per year, about 800,000 tons of UBCs are currently being recycled. Greg Wittbecker, Alcoa's director of corporate metal recycling strategy, said that the United States recycling rate has fallen steadily from its high of 68% in 1992. In comparison, Brazil and Japan report phenomenal recycling rates of nearly 95% and 92%, respectively, and the global average is 60%.

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Municipal solid waste may soon fuel vehicles

by Brian R. Hook

In the expanding race to provide alternative forms of energy, ethanol derived from municipal solid waste may soon provide yet another feedstock to power vehicles.

Masada Resource Group LLC hopes to start construction on a production facility near Middleton, New York this year to convert municipal solid waste (MSW) into ethanol. Masada is competing with other producers to finish the first commercial-scale MSW-to-ethanol plant in the United States.

The Birmingham, Alabama-based firm has received all the necessary permits for the site, said Timothy Judge, vice president of external relations and operations at Masada.

Masada has developed a patented process that converts, recycles or reuses 90 percent of the incoming waste stream from municipalities and waste haulers. To help lower the cost of the MSW-derived ethanol, the operation will utilize fees generated from waste disposal.

"The economics are very good," Judge said. He noted that MSW is a negative cost feedstock with tipping fees in metropolitan areas ranging from \$65 to \$100 per ton.

The Masada facility will also use output from the facility for its own internal energy



PHOTO COURTESY OF COSKATA, INC.

Coscata research scientists advance Coskata's proprietary microorganism to make additional ethanol in their Warrenville, Illinois pilot facility.

needs to lower costs. Traditional ethanol producers often need to deal with varying costs for natural gas to power the plants, plus are subject to volatile corn prices for feedstock.

Masada tested the MSW-to-ethanol process at the Tennessee Valley Authority's pilot plant in Muscle Shoals, Alabama. Masada purchased the test facility last year and donated it to Auburn University in Auburn, Alabama. Masada is also developing a process to turn paper pulp into ethanol and a process to produce aviation biofuel in conjunction with the university.

"Masada has been contacted by government and private

sector partners around the United States and internationally in Canada, the Caribbean, Central and South America, Africa, Europe and the United Kingdom to explore waste-to-ethanol plants," Judge said. "Masada's focus is on working with waste companies in emerging markets where projects can be fast-tracked."

Masada teamed with RJ Zapata & Associates S.A., one of the largest privately-owned waste management companies in the Dominican Republic, late last year to develop and operate a commercial scale waste-to-ethanol and electricity production facility. The two companies signed a long-term joint

venture to produce up to 30 million gallons of fuel-grade ethanol a year.

Masada is not alone in the race to turn MSW into ethanol. Coskata Inc., based in Warrenville, Illinois, has also developed technology that enables the production of ethanol from a wide variety of materials, including MSW, biomass, and other carbonaceous materials.

Using proprietary microorganisms and a patented bioreactor design, Coskata expects to produce ethanol for under \$1 per gallon. Coskata already has a test facility in Warrenville. It also has a commercial demon-

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Homeowners paid to recycle thermostats

Maine homeowners can now receive \$5 by recycling their old mercury thermostat, which cannot legally be disposed in household trash.

Under a program initiated under a new Maine law, thermostat manufacturers will provide pre-paid UPS mailing labels to any homeowner who requests them. The mailing labels allow consumers to ship thermostats to be recycled. In return, the manufacturer provides a payment of \$5 for each thermostat received.

The program is operated by Thermostat Recycling Corporation (TRC), an industry-funded non-profit that recycles mercury thermostats throughout the continental United States.

No special packaging is required to ship the thermostat, although TRC recommends that it be placed inside a zip-lock bag and shipped in a well-sealed box.

The TRC recycling facility is located in Golden Valley, Minnesota. Once the thermostat is received and processed, the TRC issues a check to the homeowner, which generally arrives within six weeks after the date of shipment. Payments are also provided to contractors who recycle thermostats through their local wholesale suppliers.

The TRC is funded by Honeywell, Emerson White-Rodgers, GE, and Nordyne, all of which sold mercury thermostats in the state of Maine when it was legal to do so.

Fuel from MSW

Continued from Page 1

station facility under construction at an undisclosed location.

"The goal of Coskata is to play a major role in creating economic fuels from renewable resources, thus minimizing the dependency of countries around the world on fuel derived from petroleum," said Wes Bolsen, vice president and chief marketing officer at Coskata.

Bolsen said discussions are underway for a location to build a facility that would produce 50 to 100 million gallons of ethanol per year. He expects construction to start later this year. It would take two and a half years to build with production expected to start in late 2010.

"The moisture of the feedstock and how much sorting has occurred is the big thing to consider. The closer the waste looks to a construction and debris pile, the better off the process is," Bolsen said. "Once the syngas is produced, the process is very simple. The challenge is to get a gasifier that is able to handle the variable inputs that MSW inherently produces."

Bolsen said the Coskata proprietary microorganisms convert the syngas into ethanol at a rate of approximately 100 gallons per dry ton. He said the price of ethanol derived from MSW could even be less than \$1 per gallon depending on how much of a tipping fee is involved.

"Coscata will hopefully be able to meet a significant portion of the federal mandate for ethanol through our flexible, affordable and efficient process," Bolsen said. He said the process is feedstock flexible, enabling the use of locally abundant materials to achieve low costs.

Coscata's ethanol is produced with a three-step conversion process that turns



Coscata's Director of Fermentation Technology, Jim Zahn, removes ethanol samples from Coskata's ethanol production process for analysis.

virtually any carbon-based feedstock, including MSW, biomass, bagasse and other agricultural waste feedstock into ethanol, making production a possibility in almost any geography, Bolsen said.

Coscata's process is also ethanol-specific and enzyme independent, requiring no additional chemicals or pre-treatments, Bolsen said. The ethanol reduces carbon dioxide emissions by as much as 84 percent compared to conventional gasoline. It has the ability to generate 7.7 times as much energy as is required to produce the ethanol, compared to corn ethanol, which generates 1.3 times as much energy, according to Argonne National Labs.

There is already an interest in the process from car manufacturers. Detroit-based General Motors Corp. announced a partnership with Coskata in January. GM will receive its first ethanol from Coskata's

pilot plant in the fourth quarter of 2008 to be used in testing vehicles.

At the time of the announcement, GM's Chairman and CEO Rick Wagoner said that the joint venture with Coskata could boost efforts for alternative fuels in markets such as China, where growing energy demand could jumpstart an effort to develop biomass ethanol.

But the next step would be to make alternative fuel more readily available in the United States. GM has worked with businesses, universities and non-governmental organizations over the last couple of years to grow the infrastructure for E85, helping to open 300 fueling stations in 15 states.

"There is no question in my mind that making ethanol more widely available is absolutely the most effective environmentally sound solution," Wagoner said.



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Investments in equipment supported by Bush's Economic Stimulus package

by Irwin Rapoport

Signed into law by President George W. Bush last month, the Economic Stimulus Act of 2008 has two key provisions that should help spur sales by capital equipment manufacturers and offers increased depreciation allowances to recycling and waste firms that purchase new equipment this year.

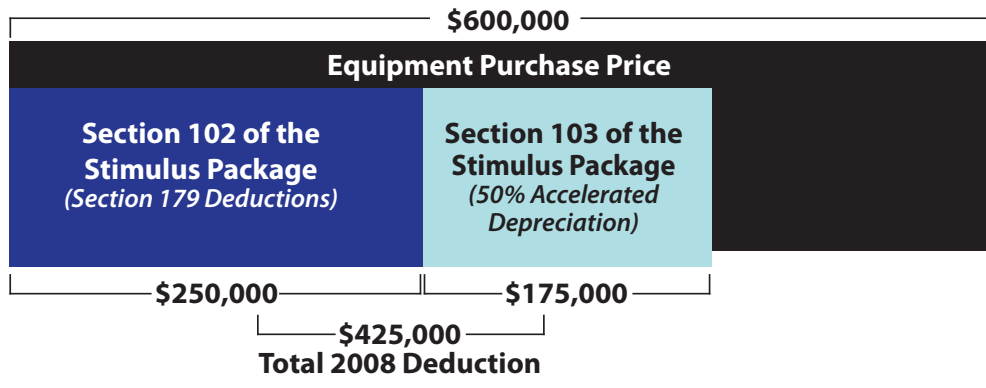
The provisions are Sections 102 and 103. Congress.org describes the sections as follows:

•(Sec. 102) Increases in 2008: (1) the expensing allowance for depreciable business assets to \$250,000 [Section 179 Equipment Expense]; and (2) the maximum investment phase-out threshold for such expensing allowance to \$800,000.

•(Sec. 103) Increases to 50% (from 30%) the amount of the adjusted basis of certain depreciable property (e.g., equipment and computer software) that may be claimed as a deductible expense in 2008.

Jeff Griffis, vice president of DADE Capital Corp., said companies that purchase equipment in 2008 can expect to

Using the example of a company purchasing \$600,000 worth of equipment under Sections 102 and 103, the following savings could result:



enjoy substantial savings via these provisions.

"The customer can write off \$425,000 of their \$600,000 purchase the first year," he said. "There are details of the program that have yet to be announced - for example, you can't expense the \$250,000 if you purchase over \$800,000 worth of equipment. This is just a guideline. Purchasers of equipment should consult with their accountants.

"Again, leased items do not qualify because a lease is a rental," he adds. "Equipment must be financed or purchased outright to qualify for these provisions."

Damon Dedo, sales director for Granutech-Saturn Systems, based in Grand Prairie, Texas, is pleased with the stimulus package.

"Any time there are tax incentives, it's a plus," he said. "These guys are going to spend money because they know for every

dollar spent, that it is going to cost them a lot less. We were selling equipment before this benefit package came along and now it allows us to push our customers along, especially if they know this a finite offering by the federal government."

When purchasing equipment, many factors are considered before a final decision is taken.

"Clients should be planning for equipment purchases now so they can benefit from the tax incentives. It would appear that many or all of our clients will have an opportunity to gain from this new tax rule. This is great for people that are prepared and have been holding back on capital equipment purchases," said Dedo.

Alcoa's goal

Continued from Page 1

Wittbecker cited several reasons why recycling has fallen in North America, including inconvenient collection systems, technology stagnation in coated scrap processing and commercial objectives that have not been aligned with recycling.

If 75% of UBCs not currently recycled in North America are brought back into the system that equates to about 600,000 metric tons of aluminum, Wittbecker explained. That 600,000 metric tons is equal to a savings of 1,286 megawatts of electricity, or the equivalent of two average-sized coal power plants running at maximum efficiency 24/7.

Alcoa recently began a \$22 million investment to expand recycling capacity at its Tennessee operations by nearly 50 percent. The expansion will utilize state-of-the-art environmental and fuel efficiency technologies and support future flexibility to process other aluminum scrap types.

Wittbecker outlined a number of possible approaches to help increase the recycling rate, including behavior changes, making recycling and collection more convenient, technical improvements for processing coated materials and enhanced commercial alliances across all in the industry.



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Pennsylvania recycling grants available to support local collection programs

Municipal recycling programs that boost Pennsylvania's economy and protect its environment are invited to apply for the latest round of recycling development and implementation grants.

To be eligible for recycling development and implementation grants, applicants must submit a plan that includes actions and strategies for optimizing a program's self-sufficiency. The plan should include strategies for reducing costs and generating revenues, provisions for establishing waste reduction and recycling incentives, mechanisms for public outreach and stakeholder input, and methods to document progress.

Grants of up to \$500,000 are available, and applications must be received or postmarked by June 20. Funding priorities for the program include:

- Incentive-based pricing and collection programs designed to increase the quantities and types of recyclable materials and reduce waste collected;

- Curbside, residential collection vehicles that utilize alternatives or supplements to petroleum for fuel;

- Multi-municipal collection, processing and materials marketing programs; and

- Equipment and education programs to collect and/or process fibrous materials like corrugated cardboard, junk mail and mixed paper that currently is not included in the applicant's recycling program.

The financial stability of Pennsylvania's recycling programs is important to the state's economy and its environment. In 2005, Pennsylvanians recycled a record 4.86 million tons of municipal waste, saving consumers and industries nearly \$263 million in disposal costs and providing businesses with materials valued at \$577 million.

For more information on the grant program or the Building Financially Sustainable Recycling Programs report, visit www.depweb.state.pa.us, keyword: Recycling. Click on "Grants" for a copy of the recycling development and implementation grant application.

Allied-Gator expands with new facility

Hydraulic attachment manufacturer, Allied-Gator, Inc. will be increasing its production capabilities with the completion of the manufacturing facility expansion located just behind Allied-Gator's corporate headquarters in Youngstown, Ohio.

The new facility, spanning nearly 11 acres under roof, will host new, state-of-the-art machining, measuring and inspection equipment to provide optimal conditions for Allied-Gator's goal of uninterrupted manufacturing.



Allied Gator's new facility will be 469,000 square feet in size.

Allied-Gator's new facility will feature a total of 22 overhead cranes ranging in capacity from 10 to 120 tons, the largest of which will span 130' with a 336' runway and a maximum rail height of 47'. In addition, year-round geothermal climate regulation will heat and cool the entire complex.

"Area A," scheduled to begin its occupancy in May 2008, will host warehouse, assembly, machining and heavy machining bays, while "Area B," targeted for move-in by the end of 2008, will house fabrication/heavy fabrication, plate burning, detailing and heavy equipment modification bays.

Bankruptcy Court approves sale of Marcal Paper

The U.S. Bankruptcy Court for the District of New Jersey has approved the sale of Marcal Paper Mills Inc., Elwood Park, New Jersey, to Highland Capital Management, LP.

The sale of Marcal Paper Mills' assets to the second lien lenders is pending closing requirements.

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O-I World Headquarters achieves LEED Certification

Owens-Illinois, Inc. announced that its new world headquarters building in Perrysburg, Ohio, has been awarded silver LEED certification, recognizing it as a truly environmentally-friendly structure.

The LEED (Leadership in Energy and Environmental Design) Green Building Rating System is a voluntary, consensus-based national standard for developing high-performance, sustainable buildings. LEED certification is based on the number of points accumulated in the areas of sustainable sites, water efficiency, energy/atmosphere, materials/resources, indoor environmental quality, and innovation/design process.

“The building was built in a uniquely sustainable nature. Everything from the materials used, and the recycling of scrap materials, to waterless urinals and a system to irrigate the grounds with water from a pond, lends to the environmentally-friendly construction and maintenance of the building,” said Frank Butler, O-I’s director of global real estate.

A variety of other features are utilized in accordance with LEED, such as featuring prairie grass plantings to reduce the need for irrigation and pesticides as well as to eliminate lawn mower emissions. In addition, bike racks, outlets for hybrid vehicles as well as a measurement and control system for lighting, heating, cooling and air quality are used to enhance the environmentally-friendly nature of O-I’s headquarters. Further, the interior office space construction utilizes a refurbished modular partition system, which has been recycled from the previous headquarters building and allows almost all workplaces to have visibility to daylight.



Owens-Illinois’ headquarters in Perrysburg, Ohio.

KL Process Design Group produces ethanol

Cellulosic ethanol is now in production at the first small scale waste wood commercial facility operating in the United States. The plant was engineered, constructed and is operated by KL Process Design Group (KL) of Rapid City, South Dakota.

KL’s cellulosic ethanol plant is converting waste wood into a renewable fuel.

The current production facility is utilizing soft woods, but successful test runs have occurred making use of waste materials such as cardboard and paper.

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New Jersey approves brownfield development areas

The New Jersey Department of Environmental Protection will coordinate the cleanup and revitalization of dozens of blighted properties encompassing nearly 500 acres in Camden, Middlesex and Hudson counties through its Brownfield Development Area program.

The DEP has approved Brownfield Development Areas for a once-thriving industrial port along the Delaware River in Gloucester City and an area encompassing old landfills in Bellmawr, both Camden County; a former center of fertilizer production in Carteret and an area that was once the focal point for smelting and paint production in Perth Amboy, both Middlesex County; and a former hub of the metals processing industry in Jersey City, Hudson County.

The following locations have been named Brownfield Development Areas:

- Gloucester City's Southport is the site of a 19th century ship yard that included petroleum refining and titanium processing operations. It is now a bleak and isolated collection of mostly abandoned buildings along a 120-acre swath of the Delaware River. The city plans to transform this area into a waterfront community with residential, commercial and retail properties looking across the river toward the Philadelphia skyline.

- The Brownfield Development Area for Bellmawr encompasses 70 acres of former municipal landfills along Big Timber Creek that were never properly closed under state requirements. For this area, the municipality envisions a large commercial project that will include a hotel and conference center, marina, and boat ramp as well as a greenway along the creek.

- The 105-acre Chrome Waterfront Development Area along the Arthur Kill in Carteret once was an industrial center that included American Agricultural Chemical Co., a fertilizer manufacturer that ceased operations in 1978. Borough officials want to revitalize this area as a transit village with high-density residential, commercial, office, and retail uses that will complement a marina and Staten Island ferry terminal.

- Located along the Arthur Kill in Perth Amboy, the 177-acre redevelopment area known as North of Outerbridge Crossing was once the site of an ore refining operation run by American Smelting and Refining Co. and a paint and pigment plant operated by National Lead. The Perth Amboy Redevelopment Agency has developed plans for a massive warehouse and office complex, known as the iPort 440 International Trade and Logistics Center.

- Revitalization of Jersey City's Grand Jersey Redevelopment Area has languished due to contamination of a 20-acre core area that was the site of a variety of metals processing and reclamation industries. The Jersey City Redevelopment Agency plans to redevelop this area with housing for people of varying incomes, retail and office space, access to light rail, and open space links to Liberty State Park and the Hudson River walkway.

Municipalities that have been designated as Brownfield Development Areas are eligible for up to \$5 million each year from the DEP's Hazardous Discharge Site Remediation Fund for site investigation and remediation.

The DEP is accepting applications from municipalities interested in being included in the 2008 round of Brownfield Development Area designations. Applications must be submitted by a steering committee representing the community and must include the boundaries of the proposed Brownfield Development Area, a clear identification of the sites to be addressed, and a description of current activities within the area.

The deadline for applications is March 31. For information, visit www.nj.gov/dep/srp/brownfields/bda.

EPA and CARE provide carpet recycling award

The Environmental Protection Agency (EPA) and the Carpet American Recovery Effort (CARE) will honor the organization, team or individual that has pursued and demonstrated innovative solutions or processes that have positively impacted carpet recycling.

The CARE Innovations in Carpet Recycling Award will be presented in May of 2008 at CARE's 6th Annual Conference in Clearwater Beach, Florida.

Nominations may be submitted for innovations in carpet recycling with work done within the United States.

Award criteria include:

- Work must involve the recycle and/or reuse of post-consumer carpet;

- Post-consumer carpet must represent at least 10% of product's total recycled pounds;

- Post-consumer carpet used must be derived from the United States;

- Concept must have been demonstrated commercially within the past 2 years;

- Concept must be capable of substantial impact to landfill diversion of post-consumer carpet;

Submissions deadline is March 3, 2008. Nominations and supporting materials must be submitted electronically to www.carpetrecovery.org.

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> www.isri.org/convention to register.



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Tracking use of recycled base rock in California

by Irwin Rapoport

Last September California Governor Arnold Schwarzenegger vetoed SB 735, a bill that would have required the California Department of Transportation (Caltrans) to track the amount of the recycled road building materials mixed into base rock when new highways are built.

In a letter to the Senate explaining his action, Governor Schwarzenegger wrote:

"I am returning Senate Bill 735 without my signature. While I support the intent of this bill to encourage use of recycled materials, I do not believe the requirements in this bill would be a prudent use of scarce transportation funds.

"Caltrans already has policies and procedures in place to promote the use of recycled material whenever and wherever it is cost effective to do so," he wrote. "Caltrans' Standard Specifications enable contractors to use up to 100 percent recycled aggregate in projects provided it meets performance specifications. Since recycled materials generally are less costly, contractors have a strong incentive to use as much recycled material possible under the state's competitive bidding process.

"I believe it would be wasteful and unnecessary to require Caltrans to establish a tracking system to track use of recycled and virgin material on a project-by-project basis," he wrote. "These funds would be better utilized by investing in the building of transportation infrastructure."

This does not satisfy Evan Edgar, the principal civil engineer at Edgar & Associates, Inc., a firm that represents the California Refuse Removal Council.

"Caltrans would have been required to track how much inert recycled base-rock was used for the sub-base," he says. "For three years we have pushed for that legislation. Right now there is a \$3 to \$5 per ton price difference between virgin base rock and recycled. We are disadvantaged, but yet the big companies with market power buy our stuff at a discount and they blend it in with their stuff to sell it at a premium. They pocket the difference and nobody knows how much is being recycled. Caltrans should track the use of these materials and give parity to the small guys who are making base rock."

While the governor talks of developing green businesses and green highways, Edgar says that Caltrans opposed the requirement on the basis that it

would have required hiring additional personnel to track the materials used in highway construction.

"It's unfortunate that Caltrans is 'old school' and killing the governor's message," says Edgar, who stresses that while the recyclers supported the bill, it was opposed by the powerful combination of mining companies, virgin material producers and CalTrans. "We give up

that recycled material be used in highway construction and that Caltrans "does the right thing in applying the law."

Currently when highways are torn up, Caltrans has mobile crushers on site to recycle the material, but recyclers also create base rock from other sources.

Five years ago Caltrans changed its regulations to allow the use of 100 percent recycled base rock as long as it met specifications.

"We meet that spec," says Edgar, who represents about 10 base rock producers. "We do about one million tons easy every year. We make the products to spec, we buy the right equipment and we have feedstock controls – we only accept clean inerts and keep the other stuff out."

What upsets Edgar and the recycling companies is that old mining sites in the Los Angeles basin are being used as landfills for concrete and that the material is not being recycled into new building materials.

"They bury about one million tons a year in those mines," he says.

The CMRA worked with Senator Patrica Wiggins' office to develop this bill, and testified to support it.

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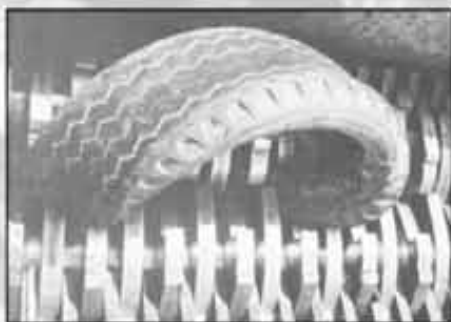


Recycled concrete aggregate piled at the Lafrate Crushing Plant in Taylor, Michigan.

on Caltrans," says Edgar. "There will be no bill this year from our trade association. We beat our heads on the wall."

The state is facing a budget deficit in 2008; a factor that Edgar says played a role in the governor vetoing the bill. He adds that legislation already requires

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Imaging Office Systems and Kodak expand microfilm recycling services

In response to growing customer concern and increased inquiries regarding environmentally friendly disposal of plastic packaging components, Imaging Office Systems (IOS) and Eastman Kodak Company are expanding the scope of IOS's microfilm preservation program to collecting recyclable microfilm and microfilm storage and packaging materials from qualified customers.

The return program will provide a way to prevent these items from ending up in the landfill.

The program involves the collection of plastic cores, reels, black or silver film

bags, flip top boxes, silver and acetate microfilm and microfiche and other items used in the packaging of microfilm products.

The service is available at no charge to any IOS customer plus any company or governmental agency headquartered in Whitley County, Indiana, where IOS' corporate headquarters is located.

To become part of this program, a company or agency must:

1. Notify IOS of its intention to recycle by calling the nearest IOS office.
2. Confirm with IOS that it qualifies for the Kodak sponsored program.

3. Confirm an appointment time to drop off approved items to be recycled.

4. Transport all recyclable items to the nearest IOS facility.

Following are IOS Regional Recycling Centers and telephone numbers:

- Columbia City, Indiana (260)248-9696
- Indianapolis, Indiana (317) 254-9545
- Schaumburg, Illinois (847) 519-2100
- Wichita, Kansas (316) 630-0440

Recycled rock

Continued from Page 7

"The reason is that while Caltrans does use recycled material, it has no idea how much it uses and whether it could use more," says CMRA executive director Bill Turley. "While CalTrans says the bill would have been a burden on them, it really only was going to add one more line to a report they have to do anyway. This bill's requirements would not been a big deal for them to do."

Another bill the CMRA pushed in the last California legislative session was AB 484, introduced by assemblyman Pedro Nava, a staunch supporter of C&D recycling.

This bill would have prohibited a contractor, under contract with the department, from disposing of asphalt concrete or Portland cement concrete in a solid waste landfill, unless the contractor determines that no other means of using or disposing the material is feasible or the concrete will be used for beneficial reuse in the construction or operation of a solid waste landfill or in inert debris engineered fill activity.

"CalTrans opposed the bill and the governor vetoed it because he said it put an undue reporting requirement on the contractor and the agency," says Turley, "but it just makes common sense if the state really wanted to improve the use of recycled materials in the highway environment.

"The state is facing a budget crisis," he adds, "but the use of recycled aggregates, especially as a roadbase product, is usually less expensive than using natural aggregate, often as much as \$2 to \$5 a ton. That may not sound like much, but on a project requiring 40,000 or 50,000 tons or more, you are talking some real money. And, of course, its engineering characteristics are equal to natural aggregate."

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METALS

Nucor to acquire David J. Joseph

Nucor Corporation has signed a Purchase Agreement to acquire the stock of SHV North America Corporation, which owns 100% of The David J. Joseph Company (DJJ), its related affiliates and real estate, for approximately \$1.44 billion. The David J. Joseph Company will be a wholly-owned subsidiary of Nucor Corporation and will maintain its headquarters in Cincinnati, Ohio.

The acquisition of DJJ will bring a variety of benefits to Nucor. In addition to DJJ's scrap processing operations and expertise, its extensive brokerage operations will provide Nucor with global sourcing of many key steelmaking raw materials. DJJ's rail services and logistics capabilities will allow Nucor to leverage the largest private railcar fleet in North America dedicated to scrap transportation. The industrial scrap programs of DJJ will provide improved channels of raw materials to Nucor.

The addition of DJJ to Nucor's current scrap processing capabilities will allow them to process approximately four million tons of ferrous scrap annually.

Currently, DJJ has five main businesses - Brokerage Services, Scrap Processing, Mill and Industrial Services, Rail Services, and Self Service Auto Parts. In 2007, the company brokered over 20 million tons of ferrous scrap and over 500 million pounds of non-ferrous materials. They will process over 3.5 million tons of ferrous scrap in 2008 with twelve shredders in 35 yards.

DJJ also owns over 2,000 scrap-related railcars and provides complete fleet management and logistics services to third parties. In 2007, the combined David J. Joseph Company's revenue and adjusted EBITDA were approximately \$6.4 billion and \$197 million respectively. Nucor expects the acquisition to be accretive in 2008.

TSRA files suit in United States District Court to stop faulty metal theft ordinance

Typical scrap recyclers would need an area the size of two football fields to comply

The Tennessee Scrap Recyclers Association (TSRA) took an extraordinary step by filing suit in a United States District Court to challenge a Memphis ordinance requiring scrap recyclers to "tag and hold" certain purchased scrap materials. The state "tag and hold" law and a newly adopted Memphis ordinance requiring tag and hold are being challenged.

"Despite excellent participation by all industry representatives in the recently completed Special Joint Committee to Study the Theft of Precious Metals, TSRA must take this extraordinary action," said TSRA board of directors president Dom Marchitto. "Tag and hold doesn't work in solving the metal theft problem and threatens the viability of the scrap recycling industry in Tennessee."

"Tag and hold" refers to laws requiring a scrap metal recycling company to keep on hand in separate packages all scrap metals (with certain exceptions) for a period of at least 10 days after acquisition. The state law has been on the books for 40 years but until the last few months, tag and hold has not been enforced. This is because tag and hold laws simply do not accomplish their objective of reducing the theft of metals, and they are extremely disruptive of the environmentally important recycling industry.

A typical scrap metal recycler recycles hundreds of thousands of pounds of scrap metal in a 10-day period, and it would have to set aside an area the size of two football fields to comply with tag and hold.

The scrap metal recycling industry operates almost exclusively in interstate

and international commerce, with nearly all scrap metal purchased in Tennessee being shipped out of state just as soon as it can be assembled, sorted, and packed in "bales" for shipment.

"The reason why tag and hold doesn't work is that one piece of metal is just like another," said Marchitto. "For example, when someone reports that a given type of metal, such as copper, has been stolen, it is impossible to prove that a particular piece of copper that was tagged and held at the scrap recycling yard was the stolen metal."

A Legislative Study Committee, after a thorough inquiry under a charge from the state legislature, has recommended that the tag and hold provisions of state law be repealed. The Committee was unable to discover any cases in which tag and hold led to successful prosecution of a scrap metal thief.

Despite this decades long practice of non-enforcement, and despite the rec-

ommendation of the Legislative Committee, in December 2007 the City of Memphis adopted a new tag and hold ordinance. Under the Memphis ordinance, scrap metal dealers are required to obtain a permit from the City of Memphis in order to continue in business. Permits will be issued only if an applicant is in compliance with "all applicable laws," which encompasses the tag and hold.

The scrap metal business in the State of Tennessee is an enormous business that is important both economically and environmentally to the State of Tennessee. In excess of 120,000 tons of non-ferrous scrap metal and 2.4 million tons of ferrous scrap metal are exported by recyclers from the State of Tennessee on an annual basis. A single Memphis recycling business recycles more scrap metal in one day than the City of Memphis recycles in an entire year.

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METALS

December steel shipments up 11.6 percent from last year

The American Iron and Steel Institute (AISI) reported that for the month of December 2007, United States steel mills shipped 8,495,000 net tons, an 11.6 percent increase from the 7,609,000 net tons shipped in December 2006 and a 2.2 percent decrease from the 8,683,000 net tons shipped in the previous month, November 2007.

A year-to-year comparison of year-to-date shipments shows the following changes within major market classifications: service centers and distributors, down 8.6 percent; automotive, up 0.3 percent; construction and contractors' products, down 1.3 percent; and oil and gas, down 9.9 percent.

Cities recycle over 190 million aluminum cans during national challenge

The U.S. Conference of Mayors, Novelis, Inc. and Keep America Beautiful, Inc. (KAB) announced the winners in the fourth annual Cans for Cash: City Recycling Challenge. To encourage recycling, the program challenges like-sized cities to compete against each other in aluminum can collection for monetary awards.

During October 2007, more than 50 cities collected over 191 million used beverage cans.

The winners of the \$5,000 awards, listed by division, for the most aluminum cans recycled are:

Division (Population)	City	Pounds Recycled
1 (>250,000)	Milwaukee, Wisconsin	1,385,328
2 (100,000 to 249,999)	Fontana, California	774,614
3 (50,000 to 99,999)	Des Plaines, Illinois	1,120,660
4 (<50,000)	Richmond, Indiana	43,381

Gerdau Ameristeel plans mill expansion

Gerdau Ameristeel Corporation has begun the planning process for a capital project to expand its Jacksonville Steel Mill, located in Baldwin, Florida.

The expansion is expected to add approximately 400,000 tons to the Gerdau Ameristeel Jacksonville rolling mill, matching the facility's recently expand-

ed melting capacity of more than 1,000,000 tons.

An engineering team is well into the planning process for the expansion; which is expected to be completed by 2010. The primary products out of the Jacksonville mill will continue to be rebar and wire rod.

Nucor reports year end results

Nucor Corporation announced consolidated net earnings of \$364.8 million (\$1.26 per diluted share) for the fourth quarter of 2007, a decrease of 10% compared with \$405.1 million (\$1.34 per diluted share) earned in the fourth quarter of 2006 and a decrease of 4% from the \$381.2 million (\$1.29 per diluted share) earned in the third quarter of 2007.

For the full year 2007, consolidated net earnings were \$1.47 billion (\$4.94 per diluted share), compared with the record net earnings of \$1.76 billion (\$5.68 per diluted share) in 2006. Although net earnings decreased 16% from 2006 levels, 2007 was their second-best earnings year.

Nucor's consolidated net sales for 2007 increased 12% to a record \$16.59 billion, compared with \$14.75 billion in 2006. Average sales price per ton increased 8% while total tons shipped to outside customers increased 4%.

In the steel mill segment, steel production decreased 1% to 22,089,000 tons in 2007, compared with 22,382,000 tons produced in 2006.

Total steel shipments remained flat at 22,347,000 tons in 2007, compared with 22,346,000 tons in 2006. Steel shipments to outside customers decreased 2% to 20,235,000 tons in 2007, compared with 20,649,000 tons in 2006.

In December 2007, Nucor's board of directors increased the base dividend from \$0.11 to \$0.30 per share and declared a supplemental dividend of \$0.31 per share. The total dividend of \$0.61 per share was payable on February 11, 2008 to stockholders of record on December 31, 2007.

The board of directors stated that the 173% increase in the quarterly base dividend reflects the company's success in building long-term earnings power and the company's belief that the business cycle for steel will see both higher highs and higher lows in the future.

During 2007, Nucor repurchased approximately 14.1 million shares of its common stock at a cost of approximately \$754.0 million under a publicly announced stock repurchase program (none in the fourth quarter of 2007).

Bruce Savage joins ISRI in a new position

The Institute of Scrap Recycling Industries, Inc. announced that Bruce Savage has joined the organization as vice president, communications.

The newly-created position of ISRI vice president, communications is the result of a staff realignment of the numerous duties of Chuck Carr, ISRI's current vice president of member services, meetings, marketing and communications.

Under this realignment, Carr will focus on ISRI's member services and edu-

cation and training programs as well as directing the annual ISRI Convention and Exposition.

Savage most recently served as vice president, Public Affairs for the Manufactured Housing Institute in Arlington, Virginia where he oversaw all communications, media relations, market research and public affairs activities on behalf of the national trade association. He also worked extensively in developing a national image enhancement proposal for the manufactured and modular housing industry.



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METALS

Ohio scrap yard settles with EPA on violations

Ocana, Inc. of Akron, Ohio, will pay a total of \$86,178 in civil penalties for violating its air pollution control permit and state waste regulations.

At two locations in Akron, the company processed and recycled scrap metal. At the 943 Hazel Street property known as Annaco, Inc., the company also processed automobile engine blocks. The other facility, known as Harry's Scrap Metals, is located at 888 Hazel Street.

The company collected used oil from the engine blocks and used it to fuel a hot water heater at the Annaco facility. In July 2003, Ohio EPA discovered the company was not properly analyzing the oil for contaminants. Ohio EPA took samples of the oil and had them analyzed at an independent laboratory. Results indicated used oil with metal contaminants above permitted levels was being burned.

The discovery led the Akron Regional Air Quality Management District to cite the company for failing to comply with used oil contaminant content restrictions in its permit, including metal concentrations and heat content value, failing to submit proper reports and failing to test the used oils with proper testing methods.

The company has applied to modify its permit to revise metal content limitations and related monitoring, record-keeping and reporting requirements.

Hazardous waste violations stemmed from the used oil storage, ash from the burned oil and dust from the pollution control equipment at the Annaco facility, and metal and plastic debris from the metal recycling operations.

The company had disposed of metal and plastic fragments, ash and other debris from the recycling operations at Harry's Recycling facility. In addition, excavated soil containing debris from the Annaco facility was disposed of at Harry's. These practices violated Ohio solid waste laws, including illegal open dumping, operating a solid waste facility without a permit and operating a landfill without a license.

For the air pollution control violations, the company will pay a \$53,000 penalty. The company is paying an \$18,000 penalty for the hazardous waste violations and \$15,178 for the solid waste violations. Portions of each penalty will be paid to Ohio EPA's Clean Diesel School Bus Fund.

In addition, the settlement requires the company to excavate and properly dispose of the mound of waste at Harry's, including any waste that has fallen down the slope leading to the Little Cuyahoga River. After excavation, the waste area must be covered with at least six inches of clean soil, graded, seeded and mulched to form a vegetative cover to protect the river.

Grand Island Area Habitat for Humanity named top recycler

Grand Island Area Habitat for Humanity in Nebraska was recognized as the top aluminum can recycler in 2007 with a \$30,000 grant from Cans for Habitat, a national partnership between Habitat for Humanity International and the Aluminum Association.

Competing against other Habitat for Humanity affiliates across the country, Grand Island Area Habitat for Humanity won by recycling the most pounds of aluminum cans per capita and demonstrating the best overall marketing and media outreach for its local program.

Grand Island Area HFH recycled 54,820 pounds of cans, earning more than \$35,650. The proceeds from these recycled cans, along with the \$30,000 award, will be used to help build Habitat for Humanity homes in partnership with families in need.

The affiliate's promotional efforts included a "Can Jam", held in celebration of Earth Day, which involved more than 2,200 elementary students in an art contest and can recycling. The affiliate also developed valuable partnerships to collect cans and distribute materials, including one with the Principal Financial Group and another with the Hall County Convention and Visitors Bureau.

Throughout the year, more than 80 Habitat for Humanity affiliates participated in the grant program by reporting their pounds on the Cans for Habitat website. There were 492,660 pounds of cans recycled, generating more than \$337,360 from recycling proceeds.

The \$30,000 award was the result of a grant program that gave \$5,000 each month, from June to October, to the affiliate that recycled and reported the most pounds of aluminum cans.

"There is hardly anything in the world that some man can't make a little worse and sell a little cheaper, and the people who consider price only are this man's lawful prey."

—John Ruskin, 1819-1900




Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$290.00	\$245.00	\$250.00	\$298.00	\$392.00
#1 Bundles	per gross ton	284.00	242.00	245.00	294.00	389.00
Plate and Structural	per gross ton	270.00	230.00	240.00	250.00	347.00
#1 & 2 Mixed Steel	per gross ton	300.00	220.00	240.00	249.00	310.00
Shredder Bundles (tin)	per gross ton	215.00	202.00	200.00	222.00	244.00
Crushed Auto Bodies	per gross ton	215.00	223.00	202.00	222.00	249.00
Steel Turnings	per pound	—	190.00	145.00	173.00	283.00
#1 Copper	per pound	2.97	2.75	3.06	3.21	3.21
#2 Copper	per pound	2.89	2.66	2.88	3.14	3.09
Aluminum Cans	per pound	.67	.62	.86	.81	.80
Auto Radiators	per pound	1.92	1.54	1.83	2.00	2.03
Aluminum Core Radiators	per pound	.76	.70	.66	1.64	2.03
Heater Cores	per pound	1.65	1.25	1.63	1.62	1.33
Stainless Steel	per pound	1.05	.83	.88	1.05	1.16

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

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EQUIPMENT SPOTLIGHT

Landfill Gas Collection Systems

by Mark Henricks

Every million tons of municipal solid waste that goes into a landfill is equivalent to approximately 432,000 cubic feet per day of landfill gas. If it's left alone to leak out through the landfill cover into the atmosphere, that gas can become a significant source of odor and a contributor to smog, ozone depletion and global warming.

But landfill gas does have value. It's about 45 percent carbon dioxide and about 55 percent methane. Both of these are greenhouse gases, but methane is a much more serious contributor to global warming than carbon dioxide. Methane can also be burned to create energy. The end result is that if it is collected and treated properly, landfill gas can turn from a problem into a long-term source of renewable energy. In fact, that same daily output of gas from a ton of waste can, if used to power a generator, be converted to approximately 800 kilowatts of electricity. Gas can also be used to fuel industrial plants.

These facts are driving a growing market for products that help landfills collect their gas and either convert it into energy or burn it to reduce its polluting effect. At LFG Specialties, LLC in Findlay, Ohio, vice president Dan DeArment says the company supplies extraction systems and flaring systems for landfill gas applications. Its parent, Shaw Group, provides a wide range of offerings, from pipe distribution to design and building gas collection systems. "We have the whole gamut of services to the landfill gas industry. LFG Specialties is the products group," DeArment says.

LFG Specialties focuses on providing gas flares to landfills. The company has more than 600 flares operating, nationally and internationally, according to DeArment. "We also build gas compression systems," he says. These take landfill gas, dry it and compress it and feed it to a pipeline. This can supply a boiler system for a business such as an asphalt plant. "We also compress it, put it in a pipeline and feed a reciprocating engine that would spin a turbine and generate power they can sell on the grid," DeArment says.

LFG Specialties has two new products for landfill gas applications. E-Vap is an evaporator system for treating landfill leachate. The system uses an LFG gas flame to evaporate the water

from leachate, then returns the sludge to the landfill. "We have had the product for 10 years but we've completely redone the technology," DeArment says. "Now it's much cleaner and more efficient and uses a lot less gas and so it's much more competitive."

The second is a joint venture with a European company that has a low-emission flare widely used there for oilfield and landfill gas. The low-emission flare is needed here because regulation of emissions from flares is getting more and more stringent, DeArment says. LFG Specialties has a test unit up and running in the United States and is rolling out the product in March, he says.

At Landfill Service Corporation in Apalachin, New York, their business has been built around flares, says president David Hansen. "In the old days the gas was simply vented raw to the atmosphere, but relative to climate change, methane gas is about 25 times more damaging than the carbon dioxide created by burning the gas. So it's much better to burn the gas," he says. Burning also helps with odor control.

Landfill Service's main flare customers are smaller landfills. "In larger



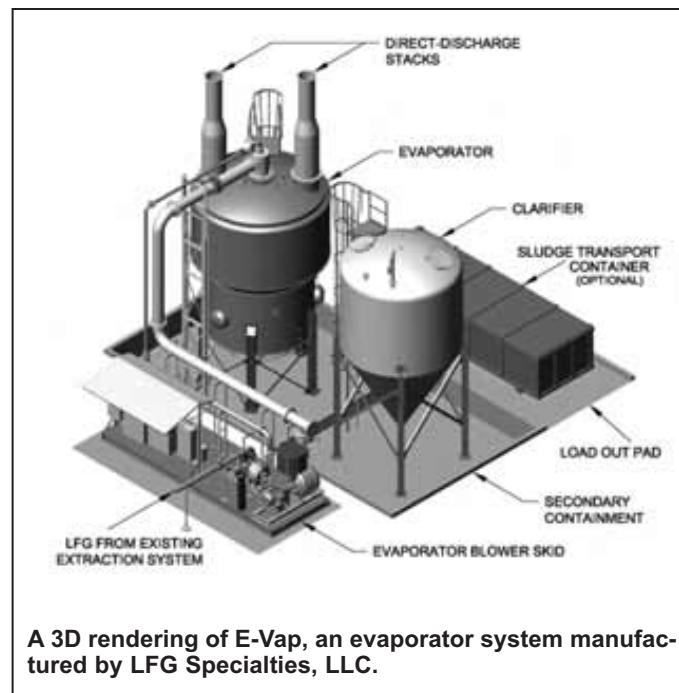
Landfill Service Corporation sells thousands of flares in North America.

landfills where they have active gas collection with a blower putting suction on pipe and wells, our vents are often used for standby purposes," Hansen says. Flares are also used on wells that haven't been connected to the collection system, and if there is a problem with the collection systems. "We sell thousands of them in North America," Hansen says. "It's widely used."

Landfill Service's Solar Spark flare is a solar-ignited landfill gas vent flare. "The advantage of this product is we have a dual expansion carbureting flare head so it can take a wide performance envelope of both flow rate and gas quality," Hansen explains. "Typically the flow rate will change widely over the day or the month, according to barometric pressure and so forth. Also the gas quality will change. The flare head we have developed works very well over a wide range of flow rates and gas quality."

A new Landfill Services product is its Hi-X Universal Terminal Station. This is a specially designed terminal station to connect with horizontally buried gas collection conduits. "A lot of landfills are now going to horizontally buried conduits in order to capture gas in real time," Hansen says. "With wells, you have to wait until the landfill is closed. But the problem with horizontal wells is that a lot of water is released. So, our horizontal terminal station is made to separate liquid and gas and allow you to tune the horizontal well the same as you could with a vertical well."

Pushed by numerous forces ranging from higher energy prices to regulatory controls, landfill gas collection is a booming business for equipment providers. That's especially true when it comes to waste-to-energy products. "Nobody wants to flare their gas any more," says DeArment. "There's so much value in that gas. And everybody wants green energy."



A 3D rendering of E-Vap, an evaporator system manufactured by LFG Specialties, LLC.

Manufacturer List

Blackhawk Technology Company
Mark Bertane
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www.blackhawkco.com

ISCO Industries
Bryan Fletcher
800-345-4726
www.isco-pipe.com

John Zink Company, LLC
Tim Locke
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Johnson Controls, Inc.
Jerry Peterson
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Landfill Service Corporation
David Hansen
800-800-7671
www.landfill.com

LFG Specialties, LLC
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SCS Engineers
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METALS

Steel import permit applications up

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 January totaled 2,474,000 net tons (NT). This was a 15 percent increase from the 2,137,000 permit tons recorded in December 2007, and a 25 percent increase from the December preliminary imports total of 1,977,000 NT.

For January 2008, the largest volumes of finished steel import permit applications for countries outside of North America were China (254,000

NT), Korea (214,000 NT), Japan (112,000 NT) and Germany (80,000 NT). Finished steel import permit applications for Chinese steel (254,000) were up 42 percent in January.

Product categories that experienced particular increases compared to the December preliminary imports, were: Rails Standard (up 150 percent); Heavy Structural Shapes (up 147 percent); Reinforcing Bars (up 137 percent); Sheets & Strip - All Other Metallic (up 105 percent); Oil Country Goods (up 103 percent); Line Pipe (up 34 percent); Galvanized Hot Dipped Sheets & Strip (up 31 percent).

Schnitzer Steel to acquire J.T. Knight

Schnitzer Steel Industries, based in Portland, Oregon, is acquiring the assets of J.T. Knight through its subsidiary, Schnitzer Southeast LLC.

"We feel like it's a good strategic move for our company," said Rick Caldwell, president of J.T. Knight.

He said the infrastructure of the business will stay the same. Caldwell and his three partners will continue to manage the business and the employees will not be affected, he said. Although it will be part of Schnitzer Southeast, the

Columbus business will retain the J.T. Knight name.

After the acquisition, Schnitzer Southeast will have 12 scrap metal recycling facilities in Alabama and Georgia, including those in Atlanta, Albany, Georgia, Selma, Alabama and Dothan, Alabama.

J.T. Knight was founded in 1900. The company purchases and processes a variety of metals, including aluminum, copper, brass and stainless steel. Details of the acquisition were not disclosed.

American Titanium to build new facility

American Titanium Works LLC (ATW), headquartered in Chicago, Illinois, announced its intent to build a new integrated titanium manufacturing facility.

Under one roof, manufacturing activities will include a solids and machine turnings scrap processing operation, raw material preparation and blending equipment, plasma arc melting (PAM) and vacuum arc melting (VAR) furnaces and a four-high rolling mill designed and purpose built for rolling of alloyed and commercially pure

titanium plate. A wide range of titanium conditioning and finishing equipment will be on-site to ensure quality and reduce lead times.

The facility will incorporate proprietary technologies and innovations enabling ATW to convert a wide variety of inputs into alloyed and commercially pure ingots, rounds and slabs of various sizes.

At full capacity, the facility expects to employ more than 250 people, with the potential for further facility expansion.

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PLASTICS

More plastic being recycled in the United States

by Irwin Rapoport

The quantity of plastic material being recycled by Americans is growing, according to the American Chemistry Council (ACC). This bodes well for plastics recycling efforts and holds the promise that even more plastic material will be collected in the future.

The ACC collects data on the recycling of plastic bottles and plastic film and bags.

"In 2005, the most current year for which data are available," says Judith Dunbar, director of Environmental & Technical Issues for ACC's Plastics Division, "the amount of plastic bottles collected for recycling reached a record high of more than 2.1 billion pounds in the United States, and the overall plastic bottle recycling rate climbed to 24.3 percent.

"In 2006," Dunbar adds, "ACC collected and published the first information on recycling plastic film and bags for the prior year. The estimated amount recovered for recycling in 2005 was 650 million

pounds, roughly the amount needed to construct 1.2 million decks made from the composite decking that's often manufactured from recycled plastic bags."

In terms of the breakdown of plastics collected, it was found that most bottles recovered through municipal recycling programs are PET #1 and HDPE #2 and that, together, these resin types represent approximately 96 percent of all bottles manufactured.

"The other resins used to make bottles (#3 through #7) each represent approximately one percent or less of the bottle market," says Dunbar. "Nonetheless, ACC promotes the collection of all plastic bottles. Studies show that by encouraging the collection and recycling of all plastics, more material is ultimately recycled."

The ACC also has found that the demand for recycled plastics exceeds the available supply and has done so for a number of years. Plastic bottle reclaimers (processors) regularly import post-consumer materials from Canada and Mexico

Continued on Page 15

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PLASTICS

Whole Foods Market eliminates disposable plastic grocery bags

Whole Foods Market will end the use of disposable plastic grocery bags at the checkouts in all of its 270 stores in the United States, Canada and the U.K. with the goal to be plastic bag free by Earth Day, April 22, 2008.

The first United States supermarket to commit to completely eliminating disposable plastic grocery bags to help protect the environment and conserve resources, Whole Foods Market gave out over 50,000 reusable shopping bags to customers.

Each location will work on depleting stocks of disposable plastic bags at the checkouts and will raise awareness about the benefits of reusable bags. Over the next three months, stores will reduce plastic grocery bag inventories and increase selections of reusable bags for purchase.

Whole Foods Market has encouraged shoppers to bring their own bags by offering a refund of \$.05 or \$.10 at the checkouts, depending on the store. They also sell different types of reusable bags, ranging from canvas to its new large, stylish "A Better Bag", of which 80 percent of its content comes from recycled plastic bot-



Whole foods is providing reusable bags.

tlles and it is economical choice with a cost of only \$.99.

"Before Whole Foods Market decided to do away with disposable plastic grocery bags, we ran tests in San Francisco, Toronto and Austin. Customers have overwhelmingly supported the program by Whole Foods Market in these cities and applauded the progressive stance taken," said A.C. Gallo, co-president and chief operating officer for Whole Foods Market.

Although the grocer hopes to encourage shoppers to bring their own bags, the Company will continue to offer an environmentally sensitive option when needed.

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PLASTICS

Bag recycling

Continued from Page 13

to manufacture new-end products. Plastic film and bag recyclers import materials for recycling from all over the world.

The ACC recently launched an initiative in California to emphasize that plastics are a resource too valuable to waste and that plastics can and should be recycled. Since the early 1990s, the plastics industry has funded research on recycling equipment to optimize plastics collection and processing, and assisted communities with educational outreach and technical expertise to increase recycling.

“An important part of these efforts includes the ‘All Plastic Bottles’ program (www.AllPlasticBottles.org), whereby municipalities accept all plastic bottles regardless of resin type,” says Dunbar. “By simplifying recycling for consumers, this program has helped to increase recycling participation, and in many cases, the quantities of materials collected.”

“In addition,” Dunbar adds, “ACC currently promotes education and awareness, and provides technical assistance to help businesses and retailers start or enhance programs that collect plastic bags and film.” (www.PlasticBagRecycling.org)

The ACC stresses that contamination in recyclables collection (plastics or other materials) is a matter that must be addressed by every community, in tandem with the recycling collector.

“It is up to communities to properly educate their citizens with simple, non-confusing messaging, to do it consistently and as often as possible,” says Dunbar. “If a consumer puts an incorrect material in the recycling bin, the collector should leave the material in the bin with feedback to the consumer that the material is not accepted.

“Without this feedback,” Dunbar adds, “consumers may continue to put incorrect materials in their bins and contamination continues. For example, over the past decade, ACC has promoted ‘All Plastic Bottles’ to communities as a simple educational message for collecting plastic bottles. Studies conducted by ACC and a number of communities that use the ‘All Plastic Bottles’ messaging have shown a decrease in contamination and an increase in the collection of recyclable bottles.”

Dunbar says that industry is doing its part to source-reduce plastic packaging and promote the reuse of plastic products. Successes include a 33 percent reduction in the weight of two-liter plastic beverage bottles and one-gallon milk jug containers.

“Plastics manufacturers have source reduced packaging over the years, saving millions of pounds of resin in packaging applications,” Dunbar says. “Many product applications, such as food storage containers, are made to be reused over and over. Recyclable plastic bags are highly reused by consumers as trashcan liners, to carry items to and from work and school, for pet waste pick-up and other uses.

“In fact,” Dunbar adds, “a recent national survey shows that 92 percent of United States consumers reuse their plastic bags. About 65 percent reuse them for household trash disposal. In many instances, the reuse of a plastic bag prevents a second bag from being purchased to fulfill a necessary function.”

Federal and state legislation could play a positive role in promoting plastic recycling, but it would have to account for local differences in capacity, infrastructure, and the like.

“The challenge for recycling is to effectively increase collection,” says Steven Russell, managing director of ACC’s Plastics Division. “In our public opinion research, we’ve heard from consumers that they would like more opportunities to recycle away from home. There are, of course, a wide range of approaches and incentives that could be used, and leg-

islation is only one tool. But we strongly believe that the time is right for government and businesses to find new ways to work together to expand away-from-home recycling opportunities – in offices, parks, airports and other locations where people currently do not have access to recycling.”

Issues such as energy consumption, plastics production and the recycling of plastic products are becoming increasingly important to many sectors, including legislators, environmental groups, the business community and the public. Plastics manufactured in the United States are made predominantly (70 percent) from domestic natural gas.

“Moreover, plastic manufacturing uses less than five percent of the nation’s carbon-based energy,” says Russell. “Plastics by nature are generally energy efficient and in many applications actually help to save energy over the life cycle of a product. A recent European study found that plastics reduce energy use by 26 percent compared to alternatives and cut greenhouse gas emissions by half (Contribution of Plastic Products to Resource Efficiency, Corporation for Comprehensive Analyses, Vienna, January 2005). Of course, recycling plastics helps to save even more energy and further reduces greenhouse gas emissions.”



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PAPER

Catalyst to acquire Snowflake newsprint mill

Catalyst Paper Corporation has entered into a definitive agreement with AbitibiBowater to acquire its Snowflake, Arizona recycled newsprint mill for a total consideration of US\$161 million in cash.

The purchase price excludes trade receivables of approximately US\$19 mil-

lion that are being retained by Abitibi-Bowater. The acquisition will be financed through a combination of Catalyst Paper's revolving credit facilities and a proposed CN\$125 million rights offering.

The Snowflake mill, a recycled newsprint producer with annual production capacity of 375,000 metric tons, is

regarded as one of the lowest cost newsprint mills in North America. The acquisition of the Snowflake mill will increase Catalyst Paper's total newsprint production capacity to approximately 980,000 metric tons. The mill also houses a corrugating medium machine owned by Smurfit Stone Container Corporation, which is operated by the Snowflake mill.

The acquisition is expected to close in the second quarter of 2008.

The transacting parties have also agreed to a three-year supply contract under which AbitibiBowater will provide approximately 40% of the Snowflake mill's recycled fiber supply in the first year, decreasing in proportion over the life of the agreement.

John Faraci new chairman of AF&PA

John V. Faraci, chairman and chief executive officer of International Paper, has been elected chairman of the board of the American Forest & Paper Association (AF&PA), the national trade association of the forest, paper, and wood products industry.

In November 2003, Faraci was named chairman and chief executive officer of International Paper, where he served in various capacities since 1974.

Faraci earned a Bachelor of Science degree in history and economics from Denison University and a Master's degree in business administration from the University of Michigan.

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ELECTRONICS

Hewlett Packard increases recycling by nearly 50 percent in 2007

Hewlett Packard Co. (HP) announced it recycled nearly 250 million pounds of hardware and print cartridges globally in its fiscal year 2007, an increase of approximately 50 percent over the previous year.

HP also reused 65 million pounds of hardware to be refurbished for resale or donation, increasing its annual reuse rate by 30 percent.

In 2007, HP surpassed its goal to recycle one billion pounds of technology equipment and is well on its way to reaching its new goal to recover two billion pounds of products by the end of 2010.

Highlights from HP's recycling programs in 2007 include:

•In Europe, the Middle East and Africa, HP nearly doubled the amount it recycled over last year to 170 million pounds (77,111 metric tons) of equipment.

•In the Americas region, HP recycled an estimated 65 million pounds (29,484 metric tons) of equipment.

•In the Asia Pacific region, HP recycled 13 million pounds (5,897 metric tons) of equipment.

HP announced it has developed an engineering breakthrough that enables the use of post-consumer recycled plastics in the production of new original HP inkjet print cartridges. The company's innovative recycling process facilitates the combination of multiple sources and grades of recycled plastics - from everyday water bottles to highly technical HP inkjet cartridges returned through HP's Planet Partners program.

Using recycled content is the latest advancement from HP's Design for Environment program, which reduces the company's environmental impact through material usage, ease of recycling and packaging efficiency.

Dell and Goodwill launch free recycling service in northwest Ohio

Reconnect, a free drop-off program to recycle unwanted computers, was introduced by Dell and Goodwill Industries of Northwest Ohio.

Reconnect offers consumers free recycling for any brand of computer equipment in any condition.

Program goals are to divert nearly one million pounds of used computers and computer equipment from area landfills over the next year and provide consumer education on the importance of environmentally-responsible computer disposal. Reconnect also helps create job opportunities for individuals with disabilities and other employment barriers.

"Goodwill Industries of Northwest Ohio is very happy to begin the operational phase of our partnership with Dell," said Bob Huber, Goodwill's President and CEO. "Responsible recycling of e-waste is critical to our environment

and we are excited to offer this program to the communities we serve. As the pilot for other Ohio Goodwills, we join Michigan and other Goodwill/Dell Reconnect partners around the country in this beneficial community effort while supporting Goodwill's mission and creating new jobs."

Drop off locations can be found at www.reconnectpartnership.com.

Battery collections increase in 2007

The Rechargeable Battery Recycling Corporation (RBRC), a non-profit public service organization dedicated to recycling rechargeable batteries and cell phones, reported a twelve percent increase in collection numbers, with more than 6.3 million pounds of rechargeable batteries recycled in the United States and Canada through its Call2Recycle™ program.

El Paso Zoo launches Sea Lion Recycling Program

The El Paso Zoo launched the Sea Lion Recycling Program with Partners in Education, Keep El Paso Beautiful and the City of El Paso Environmental Services.

At the El Paso Zoo's "World of the Sea Lion" Amphitheatre, Sunny the sea lion demonstrated a new part of his daily presentation by tossing a recyclable plastic bottle in the City of El Paso's blue recycle bin to help educate El Paso Zoo visitors about the need to recycle. Educating the future generations is at the forefront of the zoo's priorities.

The El Paso Zoo is becoming the place to learn about all aspects of conservation with the soon-to-open El Paso Water Utilities Discovery Education Center that

will focus on water conservation and the desert, and the El Paso Electric Renewable Energy Demonstration Project Windows to the Wild Outpost which will feature solar energy and a wind turbine.

Everyday, bottles and trash get tossed in the Rio Grande and some of that ultimately ends up in the ocean, polluting it and affecting wildlife - including Sunny's sea lion friends. Through this new recycling program, Sunny is teaching kids how recycling in El Paso can have an effect on the ocean, even though it's hundreds of miles away.

It's a simple message: Recycling is so Easy - Even a Sea Lion can do it. Just Drop it in the Blue, Sunny!



Sunny, a sea lion, drops a plastic bottle into a recycle bin as the zookeeper looks on.

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Interchange: We need only one

Part 1 of 2

A few months ago, The Answer Men (Jim and Robert Counts) wrote an article asking the question, "Do We Need Another Interchange?" If you missed it, it clearly spells out many of the reasons that another interchange would be a very bad idea for our industry.

Jim and I used to be the young guys in the auto recycling business. However, that was 1980. Now, I suppose, we are more like the elder statesmen, or even the grey beards (no offense, Jim). All kidding aside, we have seen a lot over the last 25 years in the industry.

Both of us came up when there was ANOTHER interchange. In the late 80's and early 90's, when Hollander had little or no foreign car interchange, I wrote my own that covered all foreign vehicles, including current models. The computerized inventory system we used then allowed that.

Some younger operators may not recall those days when the insurers couldn't or didn't use our inventory estimates, unless we were on the "right" interchange. We had all the same factors then: OEM's pulling on us, insurers pulling on us, computer companies pulling on us, and it was a REAL MESS.

It was a period that I can't imagine our industry ever voluntarily re-visiting. Mitchell, at one point, even wrote a table that converted our system to their system and vice versa, but this was just a band-aid fix that was far from perfect. The ARA database attempted to collect and utilize all the data, but it was just a mess, and I'm being kind.

At first glance, we think that interchange is just an indexing system for parts that tells us which parts fit on what cars. One of the pioneers in our industry and co-creator of one of the computer systems for our industry, Howard Nussbaum, saw interchange as much more. He saw in the interchange the ability to create a "demand planning model." A model that—when properly used with quality data—could actually tell us what to buy, how to price it, how and when it might sell, whether to save it or not, and even which cars to buy, based on our actual current market data.

Without adequate interchange and the data that can be harvested from a single system, salvage yard owners are in a much worse position when they try to run their businesses based upon quality data about which parts sell. Having good data is certainly more critical today than in the past because our cost of goods has doubled over the last two decades.

Imagine for a moment what a traditional retailer would give to have the level of customer data that some of our systems gather. What if Macy's could understand how many times a shopper looked at a red dress (vs. a blue one) relative to where it was located in the department store, how long she looked at it, whether she bought it or not, how many red dresses they had and how long it took to sell them and at what discount, and even the probability of future sales? Yes, today the salvage industry has better information about the buying behavior of our customers than virtually any other industry has about theirs because of our single system of interchange.

Auto salvage operations that use interchange data to make business decisions are ahead of other industries because of the quality of data we can get from a single interchange. How much harder would it be to get reliable data to make key decisions on what to buy, what to salvage, and how soon it should be sold—if the data were spread across two systems or incomplete? How much harder would doing business be? Plain and simple, a second interchange is a bad idea.

Take it from someone with first hand experience working in a multiple interchange world; it's something better left in the past. Or, as I might say, been there, bought the t-shirt, and don't ever want to go back. This article is continued next month, so be sure to tune in then, as I discuss further negative implications of the proposal to add a second interchange.

Remember, only you can make BUSINESS GREAT!

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

RUBBER

Congressman proposes tire recycling tax incentive

Rep. Hank Johnson introduced legislation that would provide temporary tax credits to companies that use recycled tire content in their vehicle fleets.

The proposed TIRE Act, H.R. 5103 amends the Internal Revenue Service Code of 1986 to allow a \$3 per tire credit for 5 years against income tax for fleet operators that purchase tires made from recycled rubber. The TIRE Act caps incentives at \$100 million.

"This is a common sense approach to dealing with the millions of tires that are discarded every year. Tire recycling is environmentally friendly and is a fuel-efficient, cost-effective way of reducing waste and our dependency on foreign oil," said Rep. Johnson.

To produce a tire requires 7 gallons of petroleum and each truck tire requires 22 gallons. Every tire made with 10 percent recycled rubber, Rep. Johnson explained, saves one gallon of oil in the manufacturing process. The TIRE Act will encourage companies to buy tires with recycled rubber content to help reduce our dependence on foreign oil.

Joining Congressman Johnson are 11 original cosponsors: Rep. Joe Knollenberg, Rep. Joe Crowley, Rep. Diane Watson, Rep. John Lewis, Rep. Ed Perlmutter, Rep. Elijah Cummings, Rep. Al Green, Rep. Yvette Clarke, Rep. Steve Kagen, Rep. Linda Sanchez, and Rep. Keith Ellison.

CDI Wanda creates joint venture to expand tire recycling operations

China Direct, Inc., a United States company that owns controlling stakes in a diversified portfolio of Chinese entities and assists Chinese businesses in accessing the United States capital markets, announced that its majority-owned subsidiary, CDI Wanda New Energy Co., Ltd. (CDI Wanda) has created a new joint venture as it moves into the next phase of development for its tire recycling operations.

Under the terms of the agreement, CDI Wanda and China Direct will invest a total of \$750,000 over the course of the next six months to create facilities initially capable of processing 6,000 metric tons of waste tires annually. Upon successful operation of the initial processing line, management at CDI Wanda will look to add additional plants in locations throughout China and steadily increase capacity.

The new joint venture, named Yantai CDI Wanda Renewable Resources Co., Ltd. (Yantai Wanda), will be located in the Yantai development zone and industrial park which currently receives incentives and support from the state government for project establishment in renewable resources. Additionally, the company will apply for the State's high-tech industry funding which if received, could accelerate the growth of operations.

The executive team at CDI Wanda has already been in discussions with potential joint venture partners in Japan, Australia and the United States to establish international points of presence in order to further validate this important technology. Management of China Direct plans to closely monitor the developments at Yantai Wanda and fully support any opportunistic growth possibilities that may arise.



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Group recycles vehicles in France

Their target is effective recovery of 95% of all vehicles by 2015

For the first time on a global scale, three companies, Renault, Sita and Indra, are pooling their respective expertise and resources to ensure the success, from both the economical and environmental viewpoints, of a sector which is currently undergoing extensive changes.

Development of the joint venture is expected to lead to a largely self-financed investment of 100 million, over a period of five years.

Renault and Sita France are forming an equally-owned joint venture aimed at speeding up the development of end of life vehicle (ELV) treatment in France.

This joint venture will take control of Indra Investissement, SAS, which has been active in the dismantling of vehicles for more than 20 years. Indra's network comprises some 200 certified vehicle dismantling business throughout France.

Renault has designed its cars to be easily dismantled and recovered at the end of their useful life and sees this venture as an affirmation of the Company's commitment.

The joint venture targets 95 percent recovery by 2015, as ecologically and economically as possible. The three companies share the same will to improve rates of re-use through existing methods and processes now being investigated, notably in the field of recycling materials recovered from end-of-life vehicles. The current trend towards higher raw material prices has encouraged this effort. The bid to achieve the announced targets by 2015 needs to begin immediately and will call for increased cooperation between all parties concerned, both within the sector and within the automobile industry.

European waste-to-energy market thriving, 100 new plants planned by 2012

Waste management in Europe is no longer a haulage and disposal business. The legislative shifts of the past decade have seen major moves towards the implementation of advanced technology and innovative recycling solutions.

In spite of the importance of waste minimization schemes, as well as recycling and biological waste treatment, many local and regional authorities currently view waste to energy (thermal waste incineration with energy recovery) as the only viable large scale alternative to landfilling.

According to Frost & Sullivan studies in this sector, the waste-to-energy market in Europe is growing and will continue to do so for at least 10 years. Europe's waste-to-energy capacity is expected to increase by around 13 million tons. Almost 100 new plants will come on line by 2012.

"Across Europe, the public sector is the traditional owner of waste-to-energy facilities," explains John Rospin, Energy and Environment Practice Director at Frost & Sullivan. "This is changing, as large-scale investment is required to construct newer, environmentally friendly facilities. It is equally true that the importance of being able to sell profitably the electricity/heat generated from such plants is driving the attractiveness of investment and favoring partnerships with utility companies. Waste-to-energy

facilities are increasingly becoming profitable cash generators in their own right."

The result is that private sector companies are taking a greater responsibility in the sector, although to date investors have been mainly from a background in utilities, engineering and/or technology. At the same time, public sector outsourcing is also on the increase and private sector capital is increasingly being sought.

The waste-to-energy services market supported about 200 to 250 players in 2007. Much of the reason behind this low number (low compared to other waste management service segments) is the use of large centralized facilities in many parts of Western Europe for the incineration of municipal solid waste (MSW). However, the number of companies is growing as the network of thermal units in many countries is expanded.

"The ongoing move away from landfill" concludes John Rospin "is continuing to attract technological innovation and the current leaning towards waste to energy in many parts of Europe is attracting major capital investment with improving opportunities for returns. It is inevitable that we will see further consolidation of the market and that investors from a whole range of backgrounds will continue to be drawn to this sustainable growth market."

Budget Waste plans new recycling facility

Budget Waste, Inc., (BWI) headquartered in Calgary, Canada, announced that it is proposing to open a new waste recycling facility in the Calgary area.

This facility will have several unique features including multiple waste stream processing, advanced post sort processing capabilities, and the ability to produce finished products from sorted recyclables.

The facility is currently in the planning and layout phase and is anticipated to be fully operational by mid to late 2008.

Nampak Plastics and Greenstar form deal

Nampak Plastics has made an agreement with Greenstar to produce recycled content HDPE milk bottles.

The deal will see Greenstar provide Nampak with 6,000 tons of food-grade recycled HDPE from early summer 2008. The material will help in the company's drive to increase the recycled content of HDPE bottles it manufactures. It has already committed to producing a 30% recycled content bottle in the UK during 2009, with the potential to increase this further in the future.

AR EQUIPMENT SPOTLIGHT

To be included in the spotlight, you must manufacture the equipment featured.

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04/08	Portable Metal Balers
05/08	Roll-off Hoists
06/08	Paper Shredders
07/08	Concrete Crushers
08/08	Conveyors (electronics)
09/08	Sorting Systems for Single Stream
10/08	Wheel Loaders
11/08	Wire Removal Systems (tires)
12/08	Can Flatteners/Blowers

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A Closer Look

by Donna Currie

Systech Environmental Corporation

Erica Hawk • 800-888-8011 ext. 3113

Founded in 1969 by a group of engineers, Systech Environmental Corporation (SEC) began as a consulting company. In 1979, SEC opened its first hazardous fuel quality waste operation in Paulding, Ohio where the waste was used to fuel a General Portland cement kiln.

SEC's corporate website defines the company as "the link between companies that produce or consolidate fuel quality waste and/or byproducts and our cement kiln partners that use these wastes in place of fossil fuels." Cement

is made by heating raw materials to about 2,700 degrees in a rotary kiln, and those kilns are ideal for burning both hazardous and nonhazardous waste.

Now, the General Portland facility where SEC got its start is owned by Lafarge, a cement and construction materials manufacturer, and in 1986, SEC became a wholly owned subsidiary of Lafarge. In 1990, Erica Hawk joined the company as a corporate marketing specialist. She offered her insights into the company's operations.

Hawk said, "From 1979 to the late 1990s, Systech's hazardous waste business had the most growth. In the early 1990s, the nonhaz business began and is now the sector where we have the most growth and the most potential for growth."

While the engineers who started the company have since retired, they still play a role in the company as members of SEC's board of directors. The company now has 114 employees in the United States and Canada.

Hawk said, "We have five main business lines, four of which supply our partner cement manufacturing facilities with alternate fuel, which they use in place of fossil fuels" such as oil, coke and coal.

The fifth business line supplies raw material substitutes to the cement plants. The substitutes replace the limestone, shale, alumina and silica in the cement. SEC is active in finding the raw material substitutes at two of the Lafarge locations, while Lafarge manages this function at many of the other United States and Canadian plants.

The entire process, called co-processing, uses the byproducts of one industry to make the products of another.

Two of the company's locations use both hazardous and nonhazardous fuel quality waste in the form of liquid, sludge or suspendable solids. During each of the past three years, SEC processed an average of 46 million gallons of fuel quality waste at these locations. Common fuel quality waste includes paint, solvents, diesel fuel, grease and oil, paint thinner, ink, carbon and petroleum refinery waste.

Seven of the locations use scrap tires. One ton of tires, approximately 100 auto tires, produces the energy equivalent of 2,500 pounds of coal.

Six of the locations can use nonhazardous byproducts, including alternate solid fuels such as paper, plastic, rubber and textiles, and seven can use nonhazardous used oil. "All the material we receive has BTU value," Hawk said, "and is used on site at our cement partner's manufacturing locations."

Hawk said that the company draws material from a wide variety of sources to supply its four business lines. "We cover most industries," she said. "...chemical, paint/coating, refining, automotive, packaging. A wide range of manufacturers, recyclers."

As far as the future, Hawk said, "As the general interest in sustainability grows within manufacturing industries, we see growth potential in all our business lines. We use these materials, recover their energy value and help make a product, so after either reducing, reusing or recycling, our service is a greener option than some other disposal methods."

Hawk said that one business challenge is that being green is not always easy for a customer. "In the nonhaz sector, a lot depends on a customer's commitment to sustainability and a willingness to do what it takes to use a greener disposal option." She also said that customers recognize SEC's "customer focus and willingness to work with our customers to find solutions."

Along with challenges come opportunities. Hawk said that she enjoys the fact that the business "constantly changes, and there are always new areas to develop."



Systech's Alternate Solid Fuel Processing System in Harleyville, South Carolina.

Annual GRAMMY Awards event does its part to limit environmental impact

The Recording Academy® partnered with the Natural Resources Defense Council (NRDC), the Los Angeles Department of Water and Power (LADWP) and Staples Center to reduce the environmental impact of the 50th Annual GRAMMY® Awards telecast and related events.

The GRAMMYS' first-ever greening initiative, which included the use of renewable energy to power Staples Center and the Los Angeles Convention Center and a variety of other energy-saving solutions, was led by The Recording Academy in collaboration with the NRDC and the LADWP.

The Academy and NRDC arranged for the Los Angeles Department of Water & Power to conduct an energy audit of Staples Center and advised the production team on changes that could be made to reduce the use of fossil fuels, encourage the use of recycled paper, prevent waste, and offset carbon emissions.

Results included:

- Performance of a comprehensive

energy audit of Staples Center by the LADWP and the preparation of an enhanced energy efficiency plan.

- Renewable energy used to power Staples Center and Los Angeles Convention Center.

- Renewable energy credits purchased by Bonneville Environmental Foundation to offset carbon emissions from the Pre-Telecast and Arrivals.

- Use of ecologically superior paper for telecast and non-telecast event materials such as envelopes, press materials, programs, invitations, and certificates.

- Flex fuel and hybrid vehicle transportation provided by General Motors for presenters and staff.

- Comprehensive recycling system instituted for event waste.

- Reusable service materials and accessories as well as post-consumer tissue products included at crew meals and craft services.

- Unused food donated by Wolfgang Puck to Angel Harvest.

EPA awards Pull-A-Part for participation

The Environmental Protection Agency (EPA) presented Georgia-based Pull-A-Part, LLC, with a plaque commemorating their participation in the agency's National Partnership for Environmental Priorities.

Pull-A-Part is headquartered in Atlanta and has 21 locations, including four in the state of Georgia. As part of the EPA's National Partnership for Envi-

ronmental Priorities, each Pull-A-Part location will remove nearly 50,000 gallons of fluids that would otherwise pollute water and will reduce landfill waste by 22 percent.

Additionally, Pull-A-Part will remove all accessible, mercury containing convenience lighting switches from trunks and under hoods of end of life vehicles purchased at each location.

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Georgia-Pacific invests \$50 million in recycling system

Georgia-Pacific is investing \$50 million for a new paper recycling system that will retain high-paying, high-quality jobs in its Green Bay, Wisconsin plant and greatly improve energy efficiency.

The technology in Georgia-Pacific's new recycling system will reduce water use by up to one million gallons per day and greatly improve the Broadway mill's energy efficiency system. The Green Bay mill draws in, filters and discharges about 13 million gallons of water a day, mainly from the Fox River.

Georgia-Pacific will no longer use the chemical hypochlorite in their bleaching process which will be better for the environment.

The company will retain over 160 jobs related to fiber processing in the Green Bay area and contract over 100 full-time jobs through local companies.

Its Broadway mill in Green Bay uses approximately 475,000 tons of recycled wastepaper a year to make brand name products.

Tube City names new controller

Electa Boyle has joined Tube City IMS, LLC's finance department as corporate controller.

Boyle, who will be based at the Company's Glassport, Pennsylvania, office, has more than 20 years of finance experience. She will be responsible for the operation of the Company's financial and administrative processes and controls.

Prior to joining Tube City, she worked most recently as controller of Alcoa Home Exteriors in Pittsburgh.

Samsung offers Canadian recycling program

The program runs on a zero landfill policy

Samsung Electronics has announced a new recycling program in Canada. The Samsung Take Back and Recycling (STAR) Program, is a free service designed to help manage ink cartridge waste.

Supported by Canada Post, Samsung now offers free returns and recycling of empty Samsung-branded toner cartridges for its line of laser and multi-function printers.

"A founding principle of the STAR program is that it operates on a Zero Landfill policy – 100% of the cartridge and related materials returned under this program are recycled and reused," said Ronald Hulse, vice president sales and

marketing, IT Division, Samsung Electronics Canada.

The advanced, environmentally conscious STAR program safely reprocesses returned cartridges into their major usable component materials, such as plastic and metals, and then makes those bulk reprocessed materials available to the market for re-use in new manufacturing for a range of other products. The STAR program offers a simple, no-cost option for customers returning their empty Samsung toner cartridges.

For more information about the Samsung STAR Program, visit their website at www.samsung.com/ca/star/.

Asphalt shingle recycling documents shared by CMRA

The Construction Materials Recycling Association (CMRA) has released two important documents relating to asphalt shingle recycling: A Best Practices Guide and the Environmental Issues Associated With Asphalt Shingle Recycling. Both documents were created under a grant from Region 5 of the United States Environmental Protection Agency (EPA).

The Best Practices Guide outlines techniques to recycle the shingles, including suggested acceptance standards, testing systems, processing systems, and end markets. It also includes information on specifications for various markets. It was compiled by Dan Krivit, Dan Krivit & Associates.

The Environmental Issues Associated with Asphalt Shingle Recycling document tackles the questions regulators have about the recycling of the shingles, especially the question of asbestos in the shingles. Written by Dr. Timothy Townsend of the University of Florida, it explains how only a small amount of shingles were manufactured with asbestos in them, it contains suggested testing protocols, and explains what regulators might consider when regulating shingle recycling centers.

Both documents are available in pdf format from the CMRA's revamped website, www.shinglerecycling.org.

Mitzi Emrich to lead American Chemistry Council's new group

The American Chemistry Council (ACC) has named Mitzi Emrich as director for Progressive Bag Affiliates. This new group brings together manufacturers of plastic bags, plastic resin manufacturers, and recyclers to promote the environmentally responsible use and recycling of plastic bags. In this role, Emrich will lead and manage the group, while working with company members to carry out ACC's mission.

Emrich has 10 years experience in leading environmental campaigns at the local, state and federal level. Most recently she served as a managing director and as a senior project manager with The Saint Consulting Group in New York. Her duties included representing Fortune 100 clients to the media, elected officials, community leaders and stakeholders. She also has experience representing organizations before members of Congress, government officials and the media.

Greenbrier to acquire assets of American Allied

The Greenbrier Companies has entered into a definitive agreement to acquire substantially all of the operating assets of American Allied Railway Equipment Company and its subsidiaries for \$83 million in cash, plus or minus working capital adjustments.

American Allied Railway Equipment Co., Inc. and its subsidiaries have been a supplier to the rail industry for over 40 years.



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BUSINESS BRIEFS

Waste Connections posts strong fourth quarter

■ Waste Connections, Inc. announced its results for the fourth quarter 2007. Revenue totaled \$247.7 million, a 17.6% increase over revenue of \$210.7 million in the year ago period. Operating income was \$49.7 million, a 13.3% increase over operating income of \$43.9 million in the fourth quarter of 2006. Net income in the quarter was \$22.8 million, or \$0.33 per share on a diluted basis of 69.5 million shares.

Management noted that current period results included approximately \$2.7 million (\$1.6 million net of taxes, or approximately \$0.02 per share) from higher than expected fuel prices and the labor disruption in El Paso.

For the year ended December 31, 2007, revenue was \$958.5 million, a 16.3% increase over revenue of \$824.4 million in 2006. Operating income was \$207.0 million, a 20.8% increase over operating income of \$171.4 million in 2006. Net income was \$99.1 million, or \$1.42 per share on a diluted basis of 70.0 million shares. In 2006, the Company reported net income of \$77.4 million, or \$1.10 per share on a diluted basis of 70.4 million shares.

Schnitzer board declares quarterly dividend

■ The board of directors of Schnitzer Steel Industries, Inc. declared a cash dividend of \$0.017 per common share, payable on March 3, 2008, to shareholders of record on February 18, 2008. Schnitzer has paid a dividend every quarter since going public in November 1993.

Aleithe named VP and general manager at ABB

■ Aaron Aleithe has been named vice president and general manager of Low-Voltage Drives at ABB Inc., Automation Products, according to Rick Hepperla, regional division manager for Automation Products in North America. Aleithe fills the position Hepperla held before his recent promotion to division manager.

In his new role, Aleithe will be responsible for the continued growth and strategic business development of low voltage drives in the United States market. He also will serve as a member of the ABB Global LV Drives Business Unit team, and as a member of the North America Automation Products Division management team. Aleithe joined ABB in 2005 as vice president of business development for ABB's global Medium Voltage Drives business. He was promoted to vice president for the Medium Voltage Drives business in North America in 2006 and named general manager for the Medium Voltage Motors and Low Voltage Motors businesses in North America.

BioGold Fuels appoints new board member

■ BioGold Fuels Corporation has appointed Moshe Krienberg to serve as a member of its board of directors. Krienberg has over 30 years experience as a process and chemical engineer.

BioGold appointed Munetka Ikeda as its executive vice president of Asian Operations. Ikeda has a background in engineering waste processing and waste to energy plants.

IronPlanet reports record growth in 2007

■ IronPlanet, an online auction company for used construction and agricultural equipment, continued to gain significant marketplace momentum in 2007, with gross auction sales of \$231 million, an increase of more than 42 percent over 2006. Fourth quarter gross auction sales totaled \$84 million, up 75 percent over the third quarter and up 65 percent over the same period last year.

In 2007 IronPlanet strengthened its relationships with key OEM partners, dealers, contractors, rental companies and other equipment sellers, increasing the average auction size to more than \$10 million gross auction sales in the fourth quarter, an improvement of more than 50 percent over the same period last year. IronPlanet averaged more than 500 lots per auction in the fourth quarter, an increase of 25 percent over the same period last year.

Perma-Fix completes sale of Baltimore facility

■ Perma-Fix Environmental Services, Inc. announced that it has completed the sale of Perma-Fix of Maryland, Inc., one of the company's Industrial Segment facilities located in Baltimore, Maryland, to Triumvirate Environmental, Inc. for \$3.825 million in an all cash transaction, subject to certain possible working capital adjustments during the first half of 2008.

Triumvirate Environmental is a full service environmental management firm headquartered in eastern Massachusetts. Triumvirate purchased certain assets of the facility and assumed certain liabilities.

Events Calendar

April 6th-8th

2008 Waste-to-Fuels Conference & Trade Show. The Wyndham Orlando Resort, Orlando, Florida. 800-441-7949 • www.waste-to-fuels.com

April 6th-10th

ISRI's 2008 Convention & Exposition. Mandalay Bay Resort and Casino, Las Vegas, Nevada. 202-662-8500 • www.isri.org

April 22nd-24th

New World Biomass Conference. Albuquerque Convention Center, Albuquerque, New Mexico. 505-450-7123 www.newworldbiomass.com

April 27th-29th

The 9th China Int'l Environmental Protection Exhibition. Intex Shanghai & Shanghai Mart, Shanghai, China. 86 21 54592323 54592318 • www.wsdwtf.com

May 5th-7th

Carpet America Recovery Effort's 6th Annual Conference. Sandpearl Resort, Clearwater Beach, Florida. 706-428-2127 • www.carpetrecovery.org

May 5th-8th

WasteExpo 2008. McCormick Place, Chicago, Illinois. 203-358-4314 • www.wasteexpo.com

May 5th-9th

IFAT 2008 - Environmental Solutions - 15th International Trade Fair for Water - Sewage - Refuse - Recycling. New Munich Trade Fair Centre, Munich, Germany. +49 89 9 49-113 58 • www.ifat.de

May 11th-14th

Alternative Fuel Vehicle Institute's National Conference & Expo 2008. Rio Hotel & Casino, Las Vegas, Nevada. 702-254-4180 • www.afvi.org

May 11th-15th

Waste - The Social Context '08, Urban Issues and Solutions. Shaw Conference Centre, Edmonton, Alberta, Canada. 780-496-7316 • www.ewmce.com

May 20th-22nd

Green West Expo/Conference. Los Angeles Convention Center, Los Angeles, California. 310-984-6919 • www.GreenWestExpo.com

June 2nd-5th

WasteTech 2009. International Exhibition Center Crocus Expo, Moscow, Russia. +7 495 225 5986 • www.waste-tech.ru

June 3rd-6th

Electronics & Battery Recycling '08 International Conference, Exhibition & Plant Tours. The Westin Harbour Castle, Toronto, Canada. +41 62 785 10 00 • www.icm.ch

June 18th-19th

5th Renewable Energy Finance Forum - Wall Street. The Waldorf Astoria, New York City, New York. +44 (0)20 7779 8945 www.euromoneyenergy.com

June 24th-27th

The Air & Waste Management Association's 101st Annual Conference & Exhibition (ACE). Oregon Convention Center, Portland, Oregon. 412-232-3444 • www.amwa.org

Carolina Recycling Association

18th Annual Conference & Tradeshow



Recycling's Many Shades of Green

March 25th-28th 2008, Raleigh, NC

Plan to attend! March 25th to 28th, 2008

The Carolina Recycling Association (CRA) will hold its 18th Annual Conference and Trade Show, "Recycling's Many Shades of Green" in Raleigh, North Carolina.

The CRA is one of the largest state-based recycling associations in the United States advancing waste reduction in North and South Carolina. Of over 35 state-based recycling organizations, the CRA holds the largest and most prestigious recycling conference with approximately 450 attendees from 25+ states.

Plan to attend the CRA 18th Annual Conference & Trade Show scheduled for March 25-28, 2008 at The Hilton North Raleigh, Raleigh, North Carolina.

Additional information may be found on www.cra-recycle.org or by calling the CRA at 919-545-9050.

BUSINESS BRIEFS

Tube City announces new vice president

■ Tube City IMS, LLC, a provider of products and services to steel mills and foundries throughout the United States, Canada, Europe, Mexico, South America and Asia, announced that Hank Wilson has been appointed to the new position of vice president - North American Sales and Business Development. He will work in the Company's offices in Birmingham, Alabama.

Wilson, who most recently held the title of vice president - Southern Region at the Company's Fairfield, Alabama, operation, will be responsible for coordinating the sales of scrap substitutes throughout North America, and oversee the scrap marketing efforts for the Company in the Midwest, South and Western United States, said J. David Aronson, executive vice president - Outsource Purchasing, Tube City IMS.

Prior to joining the Company in 1998, Wilson worked at Steiner-Liff Industries in Birmingham as president of its Shredders, Inc. division.

Wilson, who has more than 25 years of experience in the scrap, iron and steel industry, has a bachelor's degree in finance from Miami University of Ohio in Oxford, Ohio.

City Carton names Brooks as facilities manager

■ Mike Brooks has been named the new manager of the Mt. Pleasant, Muscatine, and Creston City Carton Recycling Facilities.

Brooks will oversee operations of the three facilities. He is responsible for implementing products and services marketing plans for the plants, with goals to maximize customer service, vendor relations, sales, and profits. Brooks is also responsible for building needs, equipment needs, and personnel at the recycling locations. He will report to City Carton Recycling's Southern Division manager, Tim Ockenfels.

Brooks has over 35 years experience in management and operations. For ten years prior to joining City Carton Recycling, Brooks worked for Hawkeye Food-service Distribution, serving as vice president and general manager.

A man and his wife were sitting in the living room discussing living wills.

"Just so you know, I never want to live in a vegetative state, dependent on some machine and fluids from a bottle. If that ever happens, just pull the plug," the husband firmly stated.

His wife got up, unplugged the TV and threw out all the beer.

Harsco plans to begin share repurchases

■ Harsco Corporation announced that it plans to begin the repurchase of an undetermined number of shares of the Company's common stock under its previously approved stock repurchase authorization.

The Company said that the repurchases will be made in open market transactions at times and amounts as management deems appropriate, depending on market conditions. Any repurchase may commence or be discontinued at any time.

RBRC's Norm England submits resignation

■ The Rechargeable Battery Recycling Corporation (RBRC) announced the resignation of Norm England, its longtime president and CEO.

England served as president/CEO of RBRC for over eight years. During that period, RBRC's collections of used nickel cadmium rechargeable batteries increased by almost 100% and RBRC expanded its program to collect and recycle additional battery chemistries and used cell phones. During England's tenure, RBRC recycled over 36 million pounds of material.

GreenHunter Energy appoints new director

■ GreenHunter Energy, Inc. announced the appointment of Jack W. Zedlitz as the director of corporate communications.

Zedlitz was formerly employed with Capital West Securities, Inc. in their Corporate Finance group, where he was responsible for equity and debt financing for Capital West's corporate clients. Zedlitz worked with GreenHunter Energy on the Company's latest equity capital raise of \$19.2 million completed in December 2007.

MONTHLY CROSSWORD

BY Myles Mellor

ACROSS

1. ___ Bill, law requiring deposits on beverage containers
5. ___-collection, the collection of bagged recyclables together with other municipal garbage
7. Energy from ___, alternative process to reduction or recovery of recyclable materials
11. Medicine amount
13. De ___, to remove dyes from collected wastepaper
14. A recyclable material used to manufacture cardboard boxes, abbr.
16. Something you hit when you're tired?
17. Graduate nurse, abbr.
18. ___grind, ground up recyclable plastics
20. Gay ___ Container, trade name for a large corrugated container used for shipping materials
21. Volcano act
24. Magnetic metals which are predominantly composed of iron, abbr.
25. ___ Consumer Material, any household product that served its intended use
28. Alphabet starters
29. Surprised expression
31. There you have it!
33. Acidity measure
35. Biodegradable matters form this as they decompose
37. Facility that separates, cleans, and bails materials to sell to manufacturers, abbr.
39. ___ Doc Smith, Sci-Fi writer
40. Puts to work
42. Barrier designed to prevent the leaching of contents from a landfill
44. Credit, for short
45. ___ deposit, requires a monetary deposit on beverage containers
47. Tail wagger
48. Fluid level sensor, abbr.
49. TV network that merged with The WB
50. Energy source option
52. Mill ___, waste paper produced by mills during the papermaking process
54. Oil producer that is running alternative energy ads
55. Springfield locale
56. Contribute to
58. ___ Ply Construction, tire building method
60. Closed-___ recycling, recycling materials into their original form
62. ___-consumer waste, aka process waste
64. Hawaiian dance
67. Executive position, abbr.
70. Residential and commercial trash generated by a particular municipal area, abbr.
71. ___-End System, pyrolysis is an example of this
72. The portion of solid waste which can be economically recycled

DOWN

1. Paper that has been discarded anywhere in the process of manufacture in the paper mill
2. "Top Gun" star initials
3. Flow Control ___, local ordinance controlling the collection of municipal solid waste based on geographical area

1			2	3	4		5	6		7	8	9		10
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					60			61					62	63
64	65		66				67	68		69			70	
							71							
							72							

4. Environmental care group, abbr.
5. Crushed glass
6. Old, for short
7. ___rowing, the placement of compostable material in piled rows
8. Single
9. It's the limit?
10. ___thermics, materials used to generate heat in chemical processes
12. Sunshine state in the south-east
15. Mechanical devices used to break secondary materials into smaller pieces
17. Rating of waste into homogenous categories by type and quality
19. Extended play record, abbr.
22. Egyptian sun god
23. Jerry's opponent?
26. Scrap tires and motor oil is an example of this type of waste
27. ___mosets, plastics which cannot be reformed using heat or pressure
30. Colored
32. Monkey
34. Polish
36. Home of the Trojans
38. ___genic Size Reduction, process in which flexible substances are made brittle by cooling
41. Sewage is an example of this, ___ waste
42. Aka No. 4 Plastic, abbr.
43. Charged atom
46. Make a mistake
49. Great Britain, abbr.
50. Soothing location
51. Lithium symbol
53. Landfill aroma
54. Degradable and logical preceder
56. Fly ___, residue left over after trash is burned
57. Music group, ___ Soul (2 words)
59. ___print, aka low grade paper
61. Environmentally indestructible plastic that releases toxic hydrochloric acid when burned, abbr.
62. Night time
63. They come before T
65. Rock group, with 40
66. Like an AquaNet container, abbr.
68. Press relations guy
69. Sky direction

BUSINESS BRIEFS

IronPlanet names Randy Berry as VP of inspection

■ IronPlanet™ appointed Randy Berry to the position of vice president of inspection and appraisal services. Berry will be responsible for scaling IronPlanet's Inspection Services organization and capabilities as the company continues to grow. Additionally, Berry will launch IronPlanet's equipment appraisal service to customers.

Berry has more than 25 years of experience improving business performance in Fortune 1,000 companies. He worked for 14 years with Accenture Ltd., most recently as partner in the firm's supply chain management consulting practice. Berry's experience also includes an operations management role with high-tech bellwether Apple, and a role in new business development for the world's largest valuation consulting firm, American Appraisal.

Berry is a graduate from the Georgia Institute of Technology, with a B.S. in Industrial Management.

McKenzie Egender joins Sokolis Group

■ Sokolis Group, a developer of strategic fuel management programs, has named McKenzie D. Egender as senior account manager - consultant.

As a key business developer and client liaison, McKenzie will draw from her diverse experience to help Sokolis Group clients reduce fuel costs by securing more favorable product pricing, improving fueling process efficiency and streamlining administrative procedures.

New VP of sales chosen at Texas Recycling/Surplus

■ Texas Recycling/Surplus, Inc., headquartered in Dallas, Texas, has named Kathy DeLano vice president - sales.

DeLano, who joined the company in March, 2006, as a sales representative, will be responsible for overseeing the procurement of material for the company's paper and plastic recycling operations.

Balcones Resources merges with Austin Shred

■ Balcones Resources, an independent recycler of high-grade paper and provider of comprehensive environmental services in the Southwest, announced its merger with Austin Shred, an offsite provider of secure document destruction services.

Under the terms of the agreement, Austin Shred will function as the central Texas arm of Balcones' secure document destruction operation. Shane Mericle will serve as vice president of operations for Austin Shred under the merger.

Effective January 1, 2008, the company will officially be known as "Austin Shred, a Balcones Resources company." Financial terms of the deal were not disclosed, but are said to be a cash and stock combination.

New director appointed for EPA Region 7

■ Ron Hammerschmidt, director of the Division of the Environment at the Kansas Department of Health and Environment, has been hired to lead the Environmental Services Division for Region 7 of the United States Environmental Protection Agency.

Hammerschmidt's new role will include supervision of scientists, chemists and engineers who handle field activities, a testing laboratory and technical support.

Allied Waste closes \$33.9 million in revenue bonds

■ Allied Waste Industries, Inc. announced that its wholly-owned subsidiary, Allied Waste North America, Inc., successfully completed the offering of \$33.9 million in principal amount of California Municipal Finance Authority Solid Waste Revenue Variable Rate Demand Bonds (Allied Waste North America, Inc. Project) Series 2008A, due 2024.

The offering is backed by a letter of credit as credit enhancement for the bonds. Inclusive of the letter of credit fees, the initial all-in cost to Allied is approximately 4.20%.

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315-858-0055
www.andelaproducts.com

ANDELA PRODUCTS INTRODUCES PORTABLE GYPSUM REDUCER

Andela Products, Ltd. introduced the Portable Gypsum Reducer. This piece of equipment is designed to allow reduction right at the point of C&D, reducing the time and cost of material removal.

The Portable Gypsum Reducer is designed for use inside buildings and can be brought in and setup by two workers in less than 15 minutes. Scrap gypsum board can be fed into the unit where it is reduced to a 3" minus material.



Kurt Manufacturing
1325 Quincy Street NE
Minneapolis, MN 55413
877-226-7823
www.kurtchip.com

METAL COMPACTOR BRIQUETTER FROM KURT MANUFACTURING

Kurt Manufacturing introduced a front-loading 125 metric ton Chipmunk metal compactor briquetter with high output and energy-efficient operating features.

Model 1200FL delivers up to 8:1 compaction ratio and reclaims expensive cutting fluids. With an output capacity of up to 1,200 lbs. per hour of aluminum chips, the Chipmunk compacts both ferrous and non-ferrous chips into dense 3-1/2 x 1-1/4 inch briquettes. It also compacts steel/ductile iron chips at the rate of up to 2,300 lbs. per hour.



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Canton OH 44707
800-356-6737
www.hendrickson-intl.com

HENDRICKSON INTRODUCES AERO BRIGHT BUMPERS

Hendrickson Bumper and Trim unveiled the Aero Bright bumper for Mack CH, CHN and CHU trucks. The configuration combines steel-chromed center sections with Hendrickson Aero Bright end caps for style, durability and reduced weight.

The lightweight end caps use thermoplastic polyolefin plastic and weatherable paint films with thick-sheet thermoforming technology.

The Hendrickson Aero Bright provides a mirror finish in a dent and corrosion-resistant material.



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www.VecoplanLLC.com

VECOPLAN RTR SERIES MADE FOR PRE-SHREDDED TIRES

Vecoplan introduces their RTR Series of tire shredders for processing pre-shredded tires. These single shaft rotary shredders liberate wire from rubber and rubber from wire, generating two individually marketable end products.

These shredders feature dump-and-run operation so containers of material can be fed into the hopper. The shredders are built with Hardox Manganese-Alloy side-walls, hard-faced rotor, heavy-duty screens and a tire-specific, smart-ram feed-programming package.



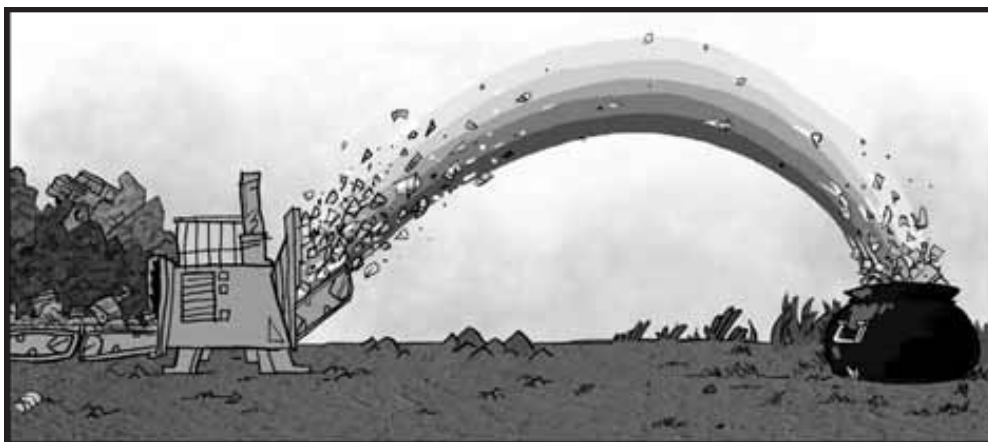
Atlas Copco ConstructionTools
94 North Elm Street
Westfield, MA 01085
413-746-0020
www.atlascopco.com

ATLAS COPCO EXTENDS LINE OF DEMOLITION MULTI GRAPPLES

Atlas Copco Construction Tools LLC introduced a new line of hydraulic demolition multi grapple attachments - the MG2700, MG1800 and MG1500.

At a service weight of 5,975 pounds, the MG2700 boasts an impressive maximum closing force of 9.2 tons and is suitable for carriers in the 28- to 50-ton weight class.

The MG1800 and MG1500 provide a closing force of 6.9 tons. Weighing 3,924 pounds, the MG1800 fits carriers between 20 and 28 tons.



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ATTENTION FLORIDA BUYERS AND SELLERS: We have scrap metal, auto recycling yards, remanufacturing business and industrial acreage for sale! We also have qualified buyers available that are seeking the same type of properties, and trash collection routes in various locations throughout the state. Please contact Al Ryan at Rutenberg Realty, 727-463-2400.

OKLAHOMA CITY FOREIGN AUTO SALVAGE. 5 acres, 300+ cars. 50 x 70 warehouse, 50 x 40 garage with 2 lifts, Manitou forklift with rebuilt motor. Established 30 years, located on a major highway in NE Oklahoma City metro area. Current license. Computerized inventory. Long-term lease. \$350,000. 800-344-8891 or 405-640-5747.

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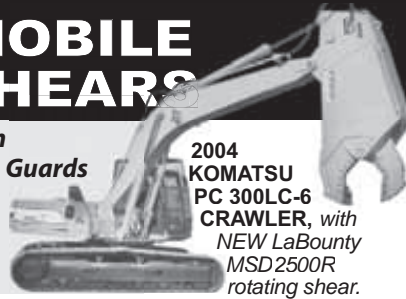
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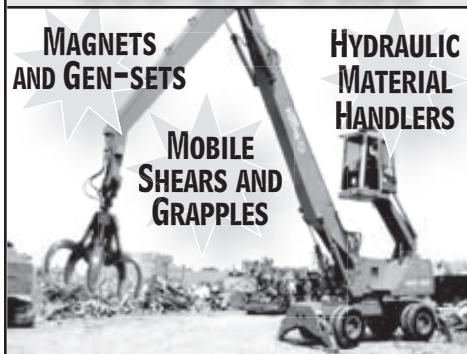
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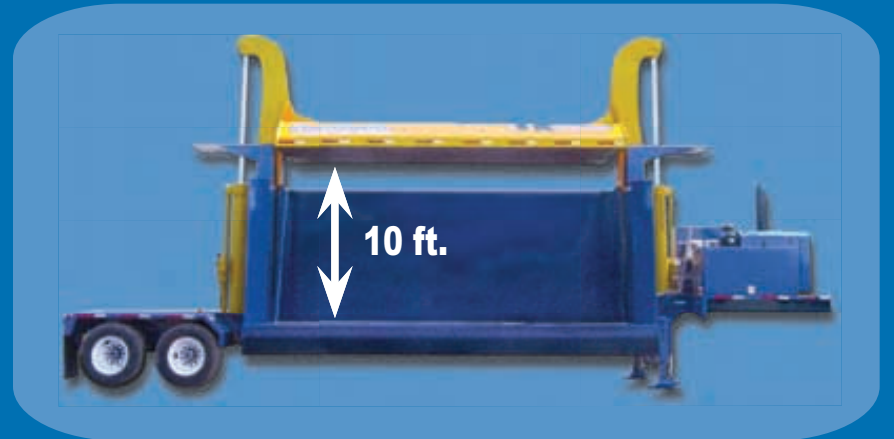
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Economic slowdown could affect solid waste sector

by Brian R. Hook

An economic slowdown is no longer in debate. A growing number of economists are now forecasting that the economy will enter a recession this year in the United States.

Whether it is a recession or merely a slowdown, solid waste companies should expect to see waste volumes decrease thanks to a drop in construction activity.

"We have experienced solid waste volume contractions over the past year and a half. The construction slowdown and the soft economy continue to negatively impact our collection business," said Ned Coletta, director of investor relations at Casella Waste Systems, Inc.

Vermont-based Casella Waste operates in New England and New York, which might help the company fare better than some in other regions, Coletta said.

"Without ever experiencing high paced growth in the last several years we do not expect an economic trough to be as deep in the Northeast," he said. "Despite the softening economy, we remain disciplined on pricing and have been able to offset most of the volume losses."

Construction of new homes across the country fell by 14.2 percent in December, according to the Commerce Department. It fell by 30.8 percent in the Midwest, 25.8 percent in the Northeast, and 19.6 percent in the West. The decline in the South was a smaller 3.3 percent. For all of 2007, new home construction was down 24.8 percent.

Many economists do not expect the housing sector to rebound until 2009. Most economists blame the current economic weakness on problems that first started to appear last summer in the sub-prime mortgage market. Years of low default rates led to looser credit standards and a surge in home building. Property values increased along with consumer spending

Now that the economic cycle is turning, more Wall Street investment banks are

forecasting the slowdown will turn into a recession, including Goldman Sachs Group, Inc., Morgan Stanley and Merrill Lynch & Co., Inc. Others, including J.P. Morgan Chase & Co. and Lehman Brothers Holdings, Inc., predict the economy will muddle through, avoiding a recession.

Along the way, financial institutions have announced billions in losses due to the sub-prime meltdown. The government is using both monetary and fiscal policy to boost the economy. The Federal Reserve cut interest rates 1.25 percent over two weeks in January. Legislatures, meanwhile, are working on a \$150 billion stimulus package to boost consumer spending.

Brian Butler, an analyst with Friedman, Billings, Ramsey Group, Inc. in Virginia said that economists at his investment bank have increased the estimate probability of an economic recession from 60 to 70 percent for 2008. "Clearly the market believes we are headed into a slower economic period," Butler said. "While price growth may be slower in 2008, I believe the public waste group can and will maintain pricing discipline in the coming year."

Butler said the solid waste sector has seen weakness in residential construction. However, non-residential construction has offset some of the decline.

Total construction spending for 2007 was down 2.6 to \$1.161, according to government data. Total private construction was down 1 percent. Public construction was down 1.5 percent.

"A fear in the marketplace is that non-residential construction volumes will follow residential volumes and slow," Butler said. "If both volumes are declining this will test the group's pricing discipline."

To fight the rising costs of diesel to fill the fuel-hungry fleet of trucks, Casella Waste along with other solid waste companies have adopted a fuel surcharge. The surcharge at Casella Waste is adjusted monthly and is based on numbers reported by the



Casella Waste operates in two regions which should help them through the slowdown.

Department of Energy. "The surcharge generally recovers the rising costs to service our customers," Colleta said.

Stewart Scharf, an analyst with Standard & Poor's Corp. in New York, said fuel surcharges and other hedging programs at solid waste companies have helped to offset costs. He noted that haulers have also been successful at implementing across-the-board price hikes.

"Operating margins should benefit from cost controls and a focus on higher-margin volumes, as haulers divest unprofitable assets. The major players will seek to offset challenging markets with improved productivity and customer service to retain customers," Scharf said.

"A further significant economic downturn could lead to municipalities generating less tax revenue, thus being more reluctant to accept price increases when their contracts expire."


Despite this threat, Scharf said that he views the solid waste sector as somewhat recession-resistant, lagging economy

swings by six to nine months. He said that he expects volumes at the solid waste companies to soften throughout 2008 as consumers curtail their spending.

Leone Young, an analyst with CIT Group, Inc. in New York trimmed her 2008 profit estimates for the major solid waste players by between 1.5 percent and 3.5 percent. She cited "greater economic uncertainty and sluggishness" in the economy in a note to investors.


Young said that most of the volume weakness in the sector is contained to the roll-off/construction and demolition segments, which totals 10 to 15 percent. The commercial and residential household segments, which total 85 to 90 percent, are more defensive in nature.

"We believe the solid waste industry is particularly attractive in this current economic market environment, as it is late-cycle and defensive in nature, which makes it less sensitive to small changes in gross domestic product or an economic slowdown," Young said.




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Solid waste shipments from Toronto to Michigan decline

Toronto's 142 truckloads per day decreased to 80 per day

Michigan's Department of Environmental Quality's Annual Report of solid waste landfilled in Michigan, which was issued January 31, reflected a reduction of solid waste shipments from Canada.

In response to the report, the City of Toronto noted that it has met and slightly exceeded its 2007 target to reduce waste shipments to Michigan. The City of Toronto's solid waste and wastewater by-products shipments have decreased by 27% since the 2005 baseline was established between the Province of Ontario and Michigan's two senators.

At its peak in 2003, Toronto shipped 142 truckloads of waste per day to Michigan. Currently, Toronto averages 80 truck shipments daily. All of that waste from Toronto is shipped to the Carleton Farms landfill in Wayne County.

Toronto has taken two major steps to ensure that all of its shipments of waste will stop by 2010 and continue to be reduced annually in the interim. In April 2007, Toronto finalized its purchase of the Green Lane Landfill, located within Ontario, thereby securing a local Canadian solution to its landfill needs. The Green Lane Landfill will continue to meet Toronto's disposal needs after 2010.

In June 2007, Toronto's City Council passed a Target 70 Plan, endorsing a target goal of 70% diversion of waste from landfill by 2010. This should result in continued reductions in cross-border waste shipments from 2008-2010. The plan commits an additional \$540 million to new waste diversion efforts over the next decade.

Former Waste Management man sentenced for embezzlement

Martin Carlson, Acting United States Attorney for the Middle District of Pennsylvania, announced that Wayne H. Heilman, Jr. has been sentenced to 63 months' incarceration for embezzling \$708,806 from an account funded by Waste Management.

Heilman, of York Haven, Pennsylvania, was sentenced to the 63-month term by U.S. District Court Judge Sylvia Rambo. Heilman pleaded guilty to a one count Information charging him with mail fraud. Heilman was ordered to pay \$708,806 restitution and undergo three years of supervision after imprisonment.

Heilman is a former Camp Hill-based employee of Waste Management, Inc. Heilman was in charge of a special trust account established by Waste Management for the benefit of Hampden Township at Commerce Bank. Each month, Waste Management paid into the account .50¢ for each ton of garbage collected in the

township. The account was established for the benefit of Hampton Township so the township could use the funds for any waste management-related emergency.

During his guilty plea hearing, Heilman admitted to embezzling the funds by writing checks payable to himself, typically in amounts ranging from \$5,000 to \$9,000, by forging his supervisor's signature on the checks. He concealed his scheme by scanning the account's monthly statements into his home computer, deleting the check entries, altering the balances, and by forwarding copies of the altered statements to his supervisors in Langhorne, Pennsylvania. Heilman's scheme was not detected by Waste Management until late summer of 2007 when his supervisors inadvertently discovered several forged, cancelled checks payable to Heilman. When confronted, Heilman gave the company's internal investigators a written confession.

Covanta Energy and NOAA begin Fishing for Energy Program

Federal, local and private partners gathered in New Bedford, one of New England's most productive seaports, to launch "Fishing for Energy," an effort to work with coastal communities to reduce the amount of abandoned fishing gear that ends up in the nation's oceans.

Covanta Energy is partnering with the National Oceanic and Atmospheric Administration Marine Debris Program, the National Fish and Wildlife Foundation, and the Port of New Bedford to remove abandoned gear from the environment.

Abandoned fishing gear poses a threat to public health and the marine environment through the injury and death of marine life, the impact to navi-

gational safety, and adverse effects on shipping and coastal industries that can have serious economic repercussions.

Covanta will work closely with the New Bedford Harbor Development Commission and the local fishing industry to coordinate the removal of abandoned gear from local coastal waters, as well as retiring gear that is no longer fit for use within a fishery. Once removed from the environment, the gear will be transported to Covanta's Energy-from-Waste facility in Haverhill, Massachusetts which provides electricity for 40,000 homes. Approximately one ton of derelict marine debris equals enough electricity to power one home for 25 days.

Southern Research Institute commissions landfill power conversion system

Southern Research Institute's Carbon-to-Liquids (C2L) Development Center plans to commission its first advanced energy conversion technology – a system that will convert municipal solid waste from landfills into clean synthesis gas.

Once produced, the gas can be converted into clean transportation fuels like ethanol, Fischer Tropsch (FT) diesel or into chemical feedstocks and electricity.

Engineers at the C2L Center recently designed the core reactor and are assembling a pilot-scale version of the reactor at the C2L Center in Durham, North Carolina. Commissioning of the unit is planned to begin in May of this year.

The pilot plant will process roughly five tons of municipal solid waste per day. After performance testing is completed the scale-up potential will be assessed and optimization equipment will be added. According to C2L, the system could scale up well for commercial landfill operations, which could conceivably be in the range of 100 to 1,000 tons per day.

The pilot plant at the C2L Center will use a unique thermochemical process designed for converting municipal solid waste. Once the pilot system is proven and optimized, work will begin on integrating processes for converting the syngas into end products.



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Connecticut waste oil recycler penalized

A New Haven, Connecticut, waste oil recycling facility will pay a \$42,075 penalty for violating federal regulations covering the storage and handling of polychlorinated biphenyls (PCBs).

Active Oil, Inc. has a permit issued by the Connecticut Department of Environmental Protection to recycle waste oil. Its permit requires that all waste oil accepted by the facility be sampled for the purpose of identifying any contamination, including PCBs. It is illegal to recycle waste oil containing PCBs at concentrations of 50 parts per million or greater.

In December 2003, Active Oil accepted a shipment of waste oil without sampling it before placing it into one of its receiving tanks. This resulted in the failure to detect PCB contamination that was present in the waste oil. The contamination eventually spread to all three of the facilities receiving tanks and to its bulk storage tank because the tanks are interconnected. Some of the contaminated waste oil was subsequently loaded by Active Oil onto another company's truck as part of a commercial transaction.

The entire facility had to shut down for a significant period of time to address the contamination in its tanks. Active Oil's acceptance of the PCB-contaminated waste oil with PCB concentrations in excess of 50 parts per million caused it to violate the PCB storage requirements. Facilities that store PCB waste must obtain EPA's approval. Also, loading the PCB-contaminated waste oil onto another company's tank truck as part of a commercial transaction constitutes an illegal distribution of PCBs.

Active Oil has since remedied the PCB contamination at its facility and is no longer in violation of the federal PCB regulations.

Knowing when to keep your mouth shut is invariably more important than opening it at the right time.

—Malcolm Forbes

Alternative energy production from power parks visualized for communities

by Irwin Rapoport

The City of Avalon, the only city on Santa Catalina Island just off Los Angeles, is expected to go forward with its plans to develop a power park that would produce energy from alternative sources in an effort to wean itself off of fossil fuels as much as possible.

Avalon, with a population of more than 3,000 people, hosts over one million tourists annually. In 2003, the city council approved its 2020 Vision Plan and in December 2005, it unanimously appointed Tustin, California-based Eco Soul to prepare a White Paper outlining the integration of technologies for establishing a sustainable power park on the island.

In addition to generating solar and ocean (most probably wave or current) power, the power park would maximize energy production from waste via biomass (wood chips and other paper/wood products), anaerobic digestion (food scraps and green waste – grass clippings, leaves, etc.) and pyrolysis which converts municipal solid waste remaining after recycling into power and fuel.

"The plan puts together a system of components or elements that are highly integrated. Each component can be optimized and the system can be optimized to take advantage of indigenous resources on the island to provide energy needs," says Skip Staats, founder of Eco Soul. "It can also cover other needs such as water clean-up and conservation and provides soil amendment for agriculture. It's just a matter of taking this study to the next level to make sure that it is possible to do politically and economically."

The island is dependent upon imports for nearly everything it consumes. Save for a few standard vehicles, each household is limited to one golf cart for transportation purposes.

Catalina imports approximately 2.7 million gallons of diesel fuel annually to generate electricity and meet other energy needs. Its sole landfill is scheduled to close in 2012 based on deposits.

Because the landfill is based on an old system, it was not designed to recover methane gas. Staats says that aside from

mining the top layers of the landfill, it will likely be capped once it is full. The dump site could actually be converted to an alternative use due to a 90 percent reduction of municipal solid waste volume with a useful by-product of carbon char remaining. "The plan is to no longer have a need for a landfill and for the tiny amount of residual waste from pyrolysis to be shipped to the mainland," says Staats.

With such a large number of tourists, the island generates a substantial amount of solid waste, food scraps and other types of refuse that can be harvested to generate power and recyclables that could be sold to dealers on the mainland. Within the power park, pyrolysis would generate syngas and carbon char; and anaerobic digestion would generate bio-methane, compost and nitrogen-rich water. The majority of the island is designated as a nature reserve.

"There are several areas on the island that are ideal for solar power because they are at a higher altitude and above the marine layer," says Staats. "Technically, there is no problem. It's just a matter of looking at the processes and permitting jurisdictions." Should the power park concept prove a success, similar installations could be set up on other islands, isolated and rural communities and in major cities across the globe.

More studies are required to determine how much energy could be generated by wave power and whether the investment is justified compared to biomass and other technologies. While low in the hierarchy of alternative power sources, there are companies that do manufacture undersea turbines to take advantage of currents.

For Catalina, this power source could take advantage of the ocean currents flowing past the island.

Should council approve the project, an investment in technology will lead to economic resources staying on the island.

Financial support may also be sought from the state and federal government.

The Hawaiian island of Lanai, which is similar in size and population to Catalina, has expressed an interest in having a power park, as has Ulysses, Kansas, the feedlot capital of the United States cattle industry.

"We met with the city manager of Ulysses," says Staats. "Ulysses has huge amounts of waste that the city has difficulty in getting rid of. They have a big interest in renewable technologies."

Ulysses is interested in converting the manure and the leftover material from the slaughterhouses into power.

"Lanai has the same type of issues as Catalina and we have been discussing this with state representative Mina Morita," says Staats. "She is one of the top advocates for sustainable technologies for Hawaii. This technology can be applied to the bigger islands. Islands are the most stringent tests for sustainability because they are very often 99 percent dependent on imported fuel and other supplies."

Hawaii currently ships solid waste to landfills in Oregon. "For remote communities," says Staats, "it is very expensive to connect to a mainland power grid."

The Eco Soul model utilizes appropriate technologies to fit the local situation. There could be micro hydroelectric sources and for island situations, solar, wind power and geothermal sources along with waste to energy options.

"Integration is the key, as is the amount of capital that any community can raise," he adds. "For example, if you could handle one waste-to-power application, you don't need the whole set of possibilities – you can build it up over time."

While some alternative power generation technologies are beginning to reach the commercial production phase, others are still being developed and are still the subject of pilot projects. Once the technologies reach the commercial phase, municipalities and counties will have a wide range of options to choose from.

Power parks would also be perfect for large cities such as New York, Chicago and Dallas. NYC exports about 12,000 tons of solid waste daily to landfills in Pennsylvania and Virginia.

"If we convert our waste to power" says Staats, "we could get 15 to 20 percent of our energy from this source alone. That is what the Eco Soul model shows. There are no silver bullets. We need integrated, appropriate models for sustainability."

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Casella to install on-board oil refining system on vehicles

Casella Waste Systems, Inc. announced that it is planning to install an on board oil refining technology on over 800 of its vehicles that is expected to significantly extend the interval between oil changes and filter replacements. Casella estimates the move will reduce its usage of oil lubricants by 28% per year, and is part of the company's efforts to reduce its overall environmental impact.

"Every day, we are obligated to look at every aspect of the way we operate our business to find ways to more efficiently use and sustain our resources," John W. Casella, chairman and chief executive officer of Casella Waste Systems, said. "Simple as it may seem, reducing or eliminating the need for frequent oil changes in our fleet plays an important role in reducing our environmental impact as well as our

use of and dependence on refined petroleum products."

The company said that the program will be implemented through an agreement with Oil Purification Systems, Inc. (OPS) to outfit nearly 800 trucks in its fleet with the environmentally sustainable OPS-1™ on-board oil refining system, thereby reducing its usage of oil lubricants by 45,000 gallons per year.

As part of Casella's cost reduction programs, the company expects that installing the OPS-1 on-board oil refining system will significantly extend the time between oil changes for its fleet, reducing oil and maintenance costs by roughly \$600 per year for each vehicle or \$500,000 annually for the full program. Casella expects to have the OPS-1 system installed on all selected vehicles by May 2008.

Corpus Christi opens new landfill

The City of Corpus Christi, Texas, opened a new \$4 million Citizens Collection Center and Transfer Station at the J.C. Elliott Landfill. The transfer station is located adjacent to the landfill's main pits.

City trucks and commercial haulers will use the transfer station at Elliott and

trash will be hauled to the new \$29 million Cefe Valenzuela Landfill. The Elliott's main trash pits are full and stopped receiving waste in November, 2007.

The Cefe Valenzuela landfill property covers 2,273.5 acres.

Bioreactor landfill technology offers cost-effective solutions

Viridis Waste Control, LLC, announced that an application for the proprietary bioreactor process was granted by the United States Patent and Trademark office.

The patented technology provides advances and enhancements in the reduction of greenhouse gasses, delivers substantially greater air and water pollution reduction, and increased methane production and recovery from landfills. Additionally, the Viridis patented technology enables more useable capacity in landfills for solid waste disposal.

The Viridis Septage Bioreactor Landfill™ technology combines the waste pumped from septic systems with garbage in solid waste landfills. Doing so greatly accelerates the process of garbage decomposition and biodegradation, extending the life of typical landfills by years. But, the benefits to the environment go much further, including:

- Cleaner water, by reducing and hopefully eliminating the practice of spreading septic waste on fields, which often contaminates surface water, lakes, rivers, streams, and groundwater recharge zones with dangerous contaminants and

pathogenic biological agents commonly found in septic tank waste.

- Safer food supply, by halting the land application and spraying of septic waste for disposal onto farm fields, a major source of bacteriological contamination of crops and livestock.

- One of the primary pathways by which food or water become contaminated is from the release of such untreated sewage - septic tank waste - into a drinking water supply or onto cropland, with the result that people who unknowingly eat or drink such contaminated sources of food and water become infected with disease.

- Cleaner air, with the increased capture and use of methane gas, reducing this major source of greenhouse gas emissions along with its contribution to climate change and global warming trends. Renewable energy, using the steady supply of methane produced, generating enough energy to power thousands of homes each year.

- Reduction of a septage hauler's disposal and permit fees, by providing a cost-effective, environmentally approved, single location to dispose of septic waste.

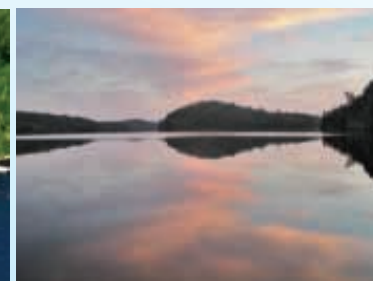


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Yuba Sutter Disposal preserves habitat

Yuba Sutter Disposal, Inc. and the Ostrom Road Landfill announced its alliance with Wildlands, Inc. to preserve and enhance over 200 acres adjacent to the Ostrom Road Landfill in southern Yuba County.

The preserve, known as the Best Slough Mitigation Bank, will be the first vernal pool restoration/creation bank in Yuba County. Historic vernal pools will be restored and permanently preserved as habitat for endangered and threatened species.

PHOTO BY GARY KRAMER, USDA NRCS



A vernal pool wetland in northern California houses many species.

Long term management of the restored habitats will be accomplished using traditional cattle grazing and other land management tools that are the backbone of Yuba County's agricultural community.

"Our commitment to the environment goes beyond trash collection, recycling and disposal," says Yuba-Sutter Disposal Inc.'s general manager Dave Vaughn. "We seek to maximize the ecological value of our land holdings whenever possible." The alliance with Wildlands, Inc. represents the culmination of over five years of study to preserve and protect buffer lands surrounding the landfill-including Best Slough.

With habitat construction set to begin in spring 2008, the preserve's first goal is to meet the vernal pool creation needs of the Three Rivers Levee Improvement Authority for levee repair and construction work also scheduled for this year.

Wildlands will be responsible for design, construction management and long-term stewardship of the preserve. Active agriculture will remain the predominant management tool of the preserve.

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Clean up monitored closely at Armstrong County site

United States Environmental Protection deputy secretary, Tom Fidler, outlined how the department will work with the U.S. Army Corps of Engineers and federal Environmental Protection Agency (EPA) to clean up radiological waste disposed at a shallow land disposal area in Park Township, Pennsylvania.

Fidler said now that funding has been appropriated, a tremendous opportunity exists to benefit the community.

Fidler said DEP will play an instrumental role in working with the Corps to develop the appropriate permits for onsite wastewater treatment and discharge.

As established in an agreement between the state and the Corps, DEP's Bureau of Radiation Protection will work closely with the Army's engineers to ensure the proper and thorough removal and transport of any radiologically contaminated soils and any radiological waste mixed with chemical waste to an authorized disposal site.

DEP and EPA will review any proposed clean up plans and actions, and will jointly track progress, monitor sampling, and review on-site, non-radiological contamination data.

The Park Township shallow land disposal area, or SLDA, consists of 10 trenches within a 1.2-acre area that were used to dispose of low-level radioactive waste. The waste is believed to consist primarily of items such as contaminated protective clothing like booties and gloves, containers, and obsolete equipment once used at the adjacent BWX Technology's former Parks Nuclear Fuel Fabrication Facility.

Because hazardous materials may have mixed with low-level radioactive waste, DEP has notified Army Corps that all wastes must be characterized. Mixed wastes and hazardous wastes not contaminated with radiation must also be removed from the trenches, characterized, transported and properly disposed.

DEP also has notified the Corps that no radiologically contaminated soil from the SLDA may be disposed of in a Pennsylvania solid waste facility.

Once the Corps of Engineers completes clean up work, the site will be sampled and characterized to determine if additional remediation work is required.

"If sampling shows that residual non-radiological contamination exists above acceptable levels after the radioactive materials have been removed, BWX Technology will be expected to complete the cleanup," said Fidler.

Work at the Park Township SLDA follows the successful removal of uranium-laden ash from the nearby Kiski Valley Water Pollution Control Authority's treatment plant. The ash was found in the treatment plant's lagoon, which had received wastewater flow from the former Babcock & Wilcox facility.

The ash was removed and transported to a licensed out-of-state facility for proper disposal under an agreement DEP had brokered with the authority and BWX Technology of Lynchburg, Virginia. The Kiski Valley authority and BWX bore the nearly \$2.6 million cost for out-of-state transportation and waste disposal, as well as expenses associated with closing the lagoon site in 2007.

Waste Management 2007 profits up

Waste Management, Inc. (WMI) announced financial results for its fourth quarter and for the year ended December 31, 2007.

Revenues for the fourth quarter 2007 were \$3.36 billion compared with \$3.28 billion in the 2006 period, an increase of 2.4%. Net income for the quarter was \$309 million, or \$0.61 per diluted share, compared with \$246 million, or \$0.46 per diluted share, for the fourth quarter 2006, or a 32.6% increase in earnings per diluted share.

WMI noted several items that impacted the results in the 2006 and 2007 fourth quarters. Excluding these items, net income would have been \$276 million, or \$0.54 per diluted share, in the

fourth quarter of 2007 compared with \$252 million, or \$0.47 per diluted share, in the fourth quarter of 2006, or a 14.9% increase in earnings per diluted share.

Income from operations as a percent of revenue, as adjusted for these items, increased 150 basis points to 16.9% in the fourth quarter of 2007 compared with 15.4% in the fourth quarter of 2006.

For the full year 2007, the Company reported revenues of \$13.31 billion compared with \$13.36 billion in 2006. Earnings per diluted share were \$2.23 for the full year 2007 compared with \$2.10 for the full year 2006. Income from operations as a percent of revenue increased 170 basis points to 16.9% for the full year of 2007.

EPA recognizes clean energy initiatives

The United States Environmental Protection Agency (EPA) recognized the accomplishments of numerous landfill methane partners that are generating renewable energy while reducing greenhouse gas emissions in January.

EPA gave recognition awards to government and private organizations that are helping the agency deliver energy and environmental benefits through its Landfill Methane Outreach Program (LMOP).

Methane, a primary component of landfill gas, is a greenhouse gas over 20 times as potent as carbon dioxide at trapping heat in the atmosphere. Nationwide, there are approximately 435 projects that harness landfill gas to produce renewable energy. In 2007 alone, these projects provided over 10.5 billion kilowatt hours of electricity and delivered 79 billion cubic feet per year of landfill gas to corporate and government users, and produced energy equivalent to powering roughly 810,000 homes and heating nearly 547,000 homes each year.

For 2007, EPA's LMOP recognized projects that took innovative approaches to utilize landfill gas while delivering environmental and economic benefits.

Projects of the Year

•Greentree High Btu Landfill Gas Project, Kersey, Pennsylvania - This project is one of the largest landfill gas projects in the country. The landfill gas is upgraded to natural gas quality and utilized in clean-burning power generation equipment to generate renewable power.

•Iris Glen Landfill Gas to Energy Project, Johnson City, Tennessee - Landfill gas energy projects that upgrade the gas to natural gas quality are usually limited to landfills with large amounts of gas, but not in Johnson City. There, an engine and boiler use landfill gas to supply 100,000 pounds per hour of steam, 7.5 megawatts of electricity, and chilled water to a Veterans Administration hospital, university buildings, and a large civic center.

•Southeastern Chester County Refuse Authority (SECCRA), Chester County, Pennsylvania - SECCRA Power

developed this landfill gas energy project through a number of innovative approaches, including joining a regional transmission organization to sell green power.

Industry Partner

•Ameresco, Framingham, Massachusetts - Ameresco exhibited leadership by developing innovative and flexible landfill gas energy projects. Thirteen operational projects, including three new projects in 2007, with another 9 under construction, demonstrate Ameresco's ability to provide long-term environmental and economic solutions for landfills and the communities they serve.

Energy Partner

•Alameda Power & Telecom and the City of Palo Alto, Watsonville, California - Two community-based utilities actively pursued landfill gas opportunities in their own backyard. Tapping an initial 3.2 megawatts (MW) of renewable energy, with an additional 15 MW from local landfills under development, helps them meet renewable energy goals and provide green power to a record number of green power customers.

Community Partner

•Greater Lebanon Refuse Authority (GLRA), Lebanon, Pennsylvania - GLRA and PPL Renewable Energy created and built a Renewable Energy Education Facility that serves as an educational forum for local, national, and international visitors. With the goal of "empowering our future leaders with green energy," the project demonstrates the power of renewable energy from a 3.2 megawatt landfill gas energy project, 2,000 watt wind turbine, and 1,000 watt solar array (multiple solar panels).

Endorser

•CIFAL-Atlanta, Atlanta, Georgia - CIFAL-Atlanta co-hosted with LMOP the Greening Solid Waste Practices workshop in September, 2007. The forum allowed solid waste professionals to explore best practices for implementing landfill gas energy projects to reduce methane emissions, provide a clean, renewable form of energy, and stimulate the local economy.

Veolia Environmental Services awarded

Veolia Environmental Services has been accepted into OSHA's Voluntary Protection Program (VPP).

OSHA recognized the company for its efforts in achieving exemplary occupational safety and health compliance. The Philadelphia facility joins the VPP at the Star Award level, the highest level granted.

The qualification process included a comprehensive audit of Veolia's safety, health, training and operational programs.

Solution for crossword on page A25.

B	O	T	T	L	E	C	O	W	A	S	T	E
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Florida Power & Light develops landfill project

Florida's Public Service Commission approved a contract between Florida Power & Light (FPL) and Manatee Green Power (MGP). FPL and MGP are teaming up on a facility that will produce electricity using landfill gas.

The new renewable energy facility will produce electricity using landfill gas as fuel. The facility will reduce the need to burn waste gases that result from decomposing landfill materials. Manatee will install and operate the generating plant near the Lena Road Landfill located in Manatee County, Florida.

The 5.25 megawatt-generating plant will start producing power in January 2009, with the contract term extending through January 1, 2024.

Republic Services reports increase in fourth quarter 2007 earnings

Republic Services, Inc. reported that revenue for the three months ended December 31, 2007 increased 3.9 percent to \$796.0 million compared to \$766.2 million for the same period in 2006.

Net income for the three months ended December 31, 2007 was \$82.1 million, or \$0.44 per diluted share, compared to net income of \$66.9 million, or \$0.34 per diluted share, for the same period in 2006.

The Company's income before income taxes for the three months ended December 31, 2007 included a \$12.5 million pre-tax gain (\$5.0 million, or \$0.03 per diluted share, net of tax) related to the sale of the Company's compost, mulch, and soil business in Texas.

Operating income for the three months ended December 31, 2007 was \$139.9 million, or 17.6 percent of revenue, compared to operating income of \$129.7 million, or 16.9 percent of revenue, for the same period last year.

Revenue for the year ended December 31, 2007 increased 3.4 percent to \$3,176.2 million from \$3,070.6 million for the comparable period in 2006.

Net income for the year ended December 31, 2007 was \$290.2 million, or \$1.51 per diluted share, compared to \$279.6 million, or \$1.39 per diluted share, for 2006. The Company's income before income taxes for the year ended December 31, 2007 includes \$54.9 million of pre-tax charges (\$33.8 million, or \$0.18 per dilut-

ed share, net of tax) related to estimated increases in costs to remediate landfills in Ohio and California. The Company's income before income taxes for the year ended December 31, 2007 also includes a \$12.5 million pre-tax gain (\$5.0 million, or \$0.03 per diluted share, net of tax) related to the sale of the Company's compost, mulch, and soil business in Texas. Net income for the twelve months ended December 31, 2006 included a \$5.1 million tax benefit related to the resolution of various income tax matters.

Republic Services's board of directors declared a regular quarterly dividend of \$0.17 per share for shareholders of record on April 1, 2008. The dividend will be paid on April 15, 2008.

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