



American Recycler

NewsVoice of Salvage, Waste and Recycling

AmericanRecycler.com

Industry wrestles with e-waste regulation

by MIKE BRESLIN

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an otherwise valuable resource containing a wealth of reusable materials.

There is no omnibus federal law covering electronic wastes, although aspects such as the export of CRTs (cathode rays tubes) and other hazardous wastes like mercury and PCBs are regulated by the EPA. Over the years several comprehensive e-waste bills have been introduced in Congress, but none have passed, leaving each state to frame its own laws.

In August, at a meeting of the Commission for Environmental Cooperation in Guanajuato, Mexico, EPA administrator Lisa Jackson released a memo on why e-waste has become a top concern for the administration. It said, in part, "EPA recognizes this urgent concern and will work with international partners to address the issues of e-waste. In the near-term, EPA will focus on ways to improve the design, production, handling, reuse, recycling, exporting and disposal of electronics."

State regulations governing the disposal of e-waste are literally all over the map and vary by state, the type of products classified and the designated covered entities such as households, businesses, government or non-profits. Only 16 states ban various classes of electronic waste from landfills. More inclusive landfill bans like in California cover desktop and laptop computers, CRT TV and computer monitors and flat panel TV and computer monitors over

How to responsibly recycle electronic devices is a perplexing problem for everyone, especially state lawmakers and regulators. The breakneck pace of innovation in electronics technology creates a constant demand for newer and faster products and applications. Being the first to market with new or better products is a life or death competitive reality for manufacturers which is driving shorter and shorter times for model introductions. At the same time the expanding demand for electric devices is penetrating virtually every realm of modern life and challenging recyclers and regulators across the country.

Even so, keep e-waste in perspective. It only represents approximately 1 to 3 percent of the solid waste stream and industry experts estimate that 10 to 18 percent of the material is currently being captured and recycled. The EPA estimates 13 percent is recycled.

Obviously, more needs to be done simply because while the stream is comparatively small it is potentially dangerous – containing hazardous lead, cadmium, mercury, chromium and polyvinyl chlorides, among others, substances that have toxicological effects that can cause brain damage, kidney disease, mutations and cancers if not handled properly.

Moreover, throwing a majority of e-wastes into the trash is a total misuse of



Manual dismantling plays a large role on the production line at Total Reclaim in Seattle, Washington.

four-inches diagonally and printers. One of the least restrictive landfill laws is in Minnesota where only CRT TVs and computer monitors are banned.

Lynn Rubinstein, executive director of Northeast Recycling Council (NERC) explained the state of "producer responsibility" laws where the manufacturer of the electronic item is responsible for recycling. "23 states have e-waste laws, 22 of which use the producer responsibility model and three of those were passed this year. There are other states that made it very far through the legislative cycle this spring that may come to

fruition in the fall. The state producer responsibility laws in some way or another ultimately require that the manufacturers are financially responsible for end of life management of the covered entities and products. How they get there varies radically, but probably the only consistent element is that household generated computer monitors and televisions are covered."

California is the only state that currently has an advanced-recovery fee law where the consumer is charged a fee at the point-of-sale that goes into a state

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Steel scrap consumption to reach over 631 million tons

According to a report released by Global Industry Analysts, Inc. (GIA), the global steel scrap market is projected to reach 631.5 million tons by 2015, driven by the rise in steel production following a lull in steel industry operations due to the global recession. Improving sales in the automobile industry and enhanced construction activity, the hardest hit segments due to recession, are expected to fuel demand for scrap steel. Steel scrap's favorable impact on the environment is

also expected to boost the consumption levels in steel making industry.

The scrap steel industry has been significantly affected by the global economic meltdown, which led to a steep decline in the global supply of scrap steel. Due to the economic slowdown, consumers across the world delayed purchasing decisions related to new cars and home renovation, which constitute the leading sources of scrap steel. The decline in the

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E-waste and appliances begin to overlap



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Wake Forest collaborates with GaiaRecycle

GaiaRecycle™ LLC, a provider of organic waste recycling systems, announced that it has signed a memorandum of understanding and launched a comprehensive pilot project with Wake Forest University to evaluate GaiaRecycle's functionality, performance and operating procedures for processing and diverting on-site food scraps and other organic waste at the university's campus in Winston-Salem, North Carolina.

During the pilot project, GaiaRecycle is jointly collaborating with Wake Forest University and ARAMARK, its food service management partner, to evaluate the effectiveness of on-site food scraps and organic waste reduction and reuse of the output material. The GaiaRecycle system is being evaluated as a solution for diverting the university's waste stream that currently goes to a landfill, and converting waste into a reusable resource for campus landscaping applications.

GaiaRecycle features modular systems and plant-level implementations, ranging from 220 pounds per day to 2 tons per day, with patented technology that accelerates the organic decomposition process based on drying, sterilizing and grinding food scraps and organic waste while reducing waste volume and weight by up to 90 percent during its 8 to 11 hours processing cycle. GaiaRecycle also offers an anaerobic digestion solution for producing clean, renewable energy from organic waste to process organic solids with the goal of a zero-impact to landfills.

Wake Forest University's primary dining facility, managed and operated by ARAMARK, provides meal services three times per day to the campus' full-time residential students, seven days per week. The GaiaRecycle organic waste recycling system will be used to process the waste stream, and its soil amendment and water output products will be analyzed for possible reuse in the campus composting program and for Wake Forest's landscaping and community garden use.

EREF tournament to be held in Phoenix

The Environmental Research and Education Foundation (EREF) will be holding its 2010 Fall Environmental Classic Golf Tournament on October 21, 2010. Sponsored by Veolia Environmental Services and Republic Services, Inc., the tournament will take place at the Wildfire Golf Club Faldo Course at the J.W. Marriott Desert Ridge Resort & Spa in Phoenix, Arizona.

The format for the Golf Tournament will be Captain's Choice. First and second place teams will receive crystal commemoratives and a framed team photo per player. Hole-in-one prizes will be given at all par 3s including the chance to win a vintage Corvette. There will also be other prize winning opportunities, including the chance to win a \$10,000 putting contest.

Michael J. Cagney, president and chief executive officer of EREF, said, "Since the tournament began in 1993,

United States construction machinery exports up 15 percent from 2009

Exports of United States-made construction equipment increased in the second quarter of 2010, and total construction machinery exports at midyear were \$7.4 billion, a 15 percent gain overall compared to January-June 2009 numbers, according to the Association of Equipment Manufacturers (AEM). The AEM off-road equipment manufacturing trade group consolidates United States Commerce Department data with other sources into global trend reports for members.

"These numbers are encouraging, especially after the double-digit declines of last year. With American markets still sluggish, they underscore the impor-

tance of global trade to the construction equipment industry," stated Al Cervero, AEM senior vice president.

Exports to Central and South America each gained 14 percent compared to midyear 2009 – \$753 million for Central America and \$1.4 billion for South America. Asia's export purchases increased 5 percent to \$984 million.

European growth was flat with exports totaling \$777 million, about the same as January-June 2009, and exports to Africa declined 20 percent to \$423 million.

Australia/Oceania took delivery of 37 percent more American-made construction machinery for a total \$679 mil-

lion, and exports to Canada increased 32 percent and totaled \$2.4 billion.

The top destinations for United States construction machinery exports January-June 2010 were: (1) Canada - \$2.4 billion, up 32 percent; (2) Australia - \$625 million, up 32 percent; (3) Mexico - \$549 million, up 8 percent; (4) Chile - \$462 million, up 9 percent; (5) Brazil - \$376 million, up 74 percent; (6) China - \$242 million, up 15 percent; (7) Colombia - \$189 million, up 13 percent; (8) South Africa - \$173 million, down 25 percent; (9) Peru - \$168 million, down 5 percent; (10) Belgium - \$153 million, down 31 percent.

New York City mayor signs package of recycling legislation into law

New York City Mayor Bloomberg signed a package of recycling bills that will revolutionize recycling in New York City through a variety of initiatives including expanded plastic recycling, a new clothing and textile recycling program, and improved public space recycling. The package of legislation represents the first significant expansion of the city's residential recycling program since it was created in 1989. Initiatives are listed below:

Int. 156 – Improves recycling at City agencies by requiring each agency to establish sustainability coordinators and to implement plans to expand recycling with each agency.

Int. 165 – Requires schools to designate a recycling coordinator and provide recycling receptacles in each classroom and at other locations.

Int. 158 – Requires the Department of Sanitation (DOS) to site 300 new recycling bins in public spaces over the next three years, and a total of 700 bins within the next ten years.

Int. 162 – Mandates at least one DOS sponsored household hazardous waste col-

lection event in each borough per year, with a long-term goal of increasing the number of events, or making such sites permanent.

Int. 148 – Expands plastic recycling to cover all rigid plastic containers, including such items as yogurt tubs, take out containers and medicine bottles.

Int. 147 – Improves recycling education, enforcement, and fine increases.

Int. 142 – Extends the DOS collection period from March 1 – November 30 beginning in 2012, and requires DOS to establish leaf and yard waste composting facilities in all boroughs where

the Department provides yard waste compost collection.

Int. 141 – Requires DOS to complete a study of commercial recycling practices.

Int. 142 – Establishes a voluntary take back program for retailers and manufacturers of unused residential paint.

Int. 164 – Improves recycling reporting requirements and requires additional studies to enhance the City's recycling programs.

Int. 171 – Requires a report to study ways to improve food waste composting in New York City.

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Regulations

■Continued from Page 1

fund used to reimburse processors for recycling.

In June, New York State legislators unexpectedly passed one of the most stringent state e-waste laws. "It was going nowhere for a number of years and then very abruptly a law that was under consideration was passed practically overnight. It came as a surprise to most observers," commented Rubinstein.

Under the new law all manufacturers that sell electronic equipment in the state must have a free, convenient e-waste recycling program in place by April 1, 2011. The law covers TVs, VCRs, DVDs, MP3 players, game consoles, fax machines, computers and peripherals such as monitors, keyboards, scanners and printers.

Based on each manufacturer's market share of New York electronic sales, each will be required to reuse or recycle a certain amount of e-waste waste per year. Those who collect more waste than mandated receive recycling credits, which can be held, sold or traded. Those not collecting their share can be fined with proceeds going to state-funded recycling programs.

"Implementation details for the New York State law are still being worked out by state Department of Environmental Conservation staff, and the details of the manufacturer collection processes are not yet established. At this point, manufacturers have to register. The wide array of products regulated under the law make it particularly challenging for the manufacturers," said Rubinstein. After January 1, 2015 it will be illegal for individuals to dispose of electronic waste in the trash or in landfills.

As a result of e-waste state laws on the books and the likelihood of more states mandating them, the United States e-waste recycling industry is growing by leaps and bounds. Established recyclers have grown significantly both in size and sophistication of technology and new companies are seizing a promising business opportunity.

Each state has laws governing the disposal of hazardous wastes emanating from e-wastes such as Freon, PCBs and mercury. Recyclers handling such materials must be certified at the state level and are subject to rigorous inspections. "Recently,

after many years of people wanting it, there are now two independent, third-party certification programs available to companies involved in e-scrap recycling that vouches for the high quality of their environmental performance," said Rubinstein. "That's incredibly exciting and an opportunity to level-out the playing field and create an opportunity for decision makers to have a clearer sense of choosing companies that are engaging in the best management practices."

One certification program is Responsible Recycling (R2) Practices, developed under leadership of the EPA over many years, which was certified in late 2009 by the American National Standards Institute (ANSI). The Institute of Scrap Recycling Industries (ISRI) has added another opportunity for certification by pairing R2 with RIOS; the R2/RIOS standard. The other certification program is e-Stewards, developed through the Basel Action Network.

In July, ISRI announced that it is becoming the first official sponsor of the State Electronics Challenge (SEC), a voluntary program focused on encouraging state, regional and local governments, schools and other public entities to responsibly recycle outdated and obsolete electronics. The SEC initiative starts with promoting the purchase of greener electronics to reduce their environmental impact during use and manage responsible disposal. In making the announcement, ISRI president Robin Wiener stated, "ISRI, as the largest organization of responsible electronic recyclers in the world, is a logical partner to work with the vast numbers of regional, state, and local governments to address the growing volumes of discarded electronics. ISRI and the R2/RIOS program offer state, local and regional governments real, workable solutions that they can easily embrace and incorporate into their environmental stewardship program."

The R2 certification process covers a range of e-wastes including computers, peripherals, cell phones and televisions, and specially "focused materials" like CRTs, circuit boards, batteries, mercury and PCBs. In practice, it requires e-waste processors to have an environmental, health and safety management system in place, one that prefers reuse and recycling over disposal and complies with federal, state and local disposal laws, and ensures that exported materials are legal.

SEC is modeled after the Federal Electronics Challenge (FEC) created by the EPA and the Office of the Federal Environmental Executive. The SEC is



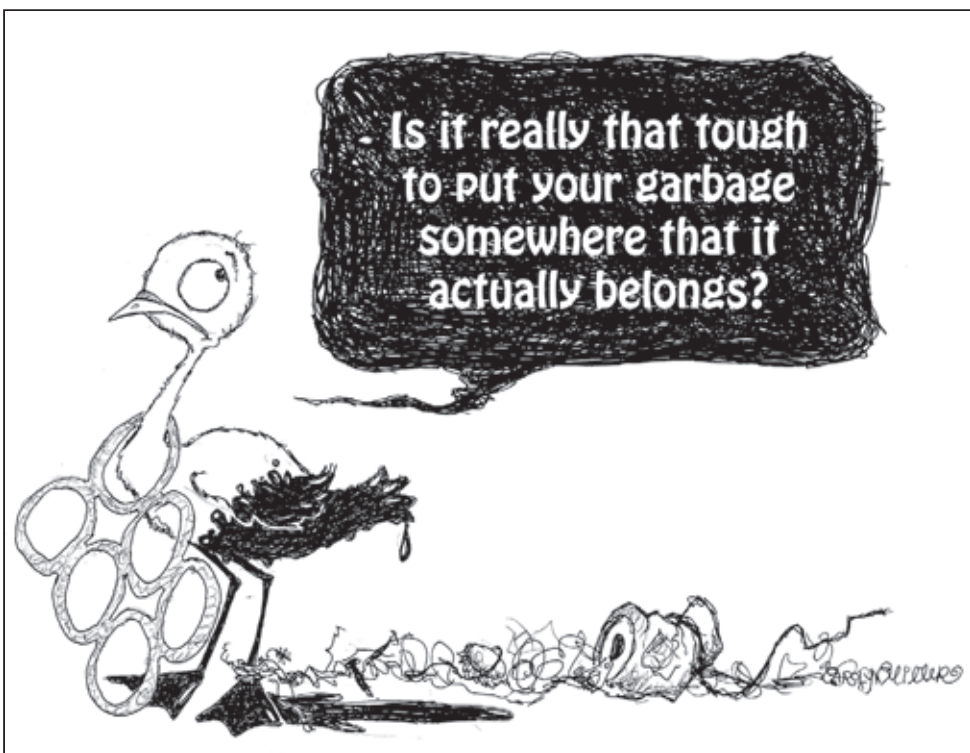
Recovered plastics are baled and readied for recycling.

administered by the Northeast Recycling Council (NERC).

NERC, which was established 22 years ago, started SEC in 2006 through an EPA grant; working with the FEC, state and local agencies and non-federal partners as a pilot program in 10 northeastern states. "We are currently in 16 states, have 45 participating partners and are optimistic we will be in 22 states by this fall. Last fall we expanded into six Rocky Mountain States and anticipate another EPA grant to get into the Great Lake States this fall. We also are trying to secure more private funding like that from ISRI to make the program a national one," said Rubinstein.

Volunteer initiatives like FEC and SEC aimed at decreasing the environmental footprint of computer assets and other electronic devices, extending product life and reuse and responsible recycling at end of life can go a long way towards controlling e-waste. These types of programs provide the education necessary to raise awareness of the problems of e-waste and curtail many of them through green procurement.

As major development in e-waste regulatory information occurred in January with the launch of new website, www.ecycleclearinghouse.org. It was established by the Electronics Recycling Coordination Clearinghouse (ERCC), a joint project of the National Center for Electronics Recycling and NERC. ERCC is a forum for coordination and information exchange among the state/local agencies that are implementing electronics recycling laws and all impacted stakeholders. The website contains a wealth of maps and information to navigate through the maze of state legislation, entities and products covered, landfill bans, state agency contacts, federal regulations, per capita collections, performance measures and the percent of populations covered by law.



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Southern states recycle more than Northern

Call2Recycle® announced that battery recycling is on the rise, although the increase is coming from surprising places. While the increase – up more than 8 percent so far this year over 2009 – demonstrates that Americans are recycling more, the states with the highest increase are all in the south, a region that traditionally is slow to adopt sustainability programs. States such as California, Minnesota and Vermont, that are typically green leaders, have dipped battery recycling.

So far in 2010, Call2Recycle has seen the largest increases in battery recycling from South Carolina (99 percent increase), Kentucky (59 percent increase), Arkansas (55 percent increase), North Carolina (53 percent) and Mississippi (49 percent increase). During the same period of time, battery recycling has decreased by 7 percent in California, 25 percent in Minnesota and 3 percent in Vermont.

So far this year, battery collections from retail partners are up by only 2.6 percent nationwide, while industries such as healthcare, higher education and military installments have experienced much larger increases due to an emphasis on sustainability initiatives in day-to-day operations.

Glass container industry releases comprehensive cradle-to-cradle LCA

The North American glass container industry has taken a pioneering step in producing the first complete and thorough cradle-to-cradle life cycle assessment (LCA) ever conducted for the industry.

The LCA, coordinated by the Glass Packaging Institute (GPI), reaffirms the benefits of glass container recycling for the environment. The use of recycled glass (cullet) in manufacturing results in a decrease in primary energy demand and reduces carbon emissions. A “cradle-to-cradle” LCA includes the entire cradle-to-grave life cycle of a product while factoring in the recycling of the used product back to its original purpose.

“The LCA confirms the industry is on the right track with the goal to use 50 percent recycled glass in the manufacture of new glass bottles and jars by the end of 2013,” said Joseph Cattaneo, president of the Glass Packaging Institute.

While other industries claim that the transportation of glass bottles has more of an environmental impact because of the weight of the containers,

a key finding of the LCA dismisses this claim. The transportation of raw materials and cullet used in glass production represents less than four to five percent of the total energy used in the production of container glass.

While each glass container has its own carbon profile, on average, existing recycle rates offset the CO2 burden when shipping foods and beverages across America. The 50 percent content rate will only serve to further reduce carbon emissions. Therefore, when examining the entire life cycle of a packaging material, one must also consider the environmental impact of raw material extraction, production, transportation and end use treatment. The conclusion: When looked at it in its entirety, the environmental benefits stemming from the recycling of glass containers more than offset any increased impact generated by slightly heavier containers.

Glass containers are endlessly recyclable, made from all-natural ingredients (sand, soda ash, limestone, and recycled glass), and glass is the only packaging material accepted by the U.S. Food and Drug Administration (FDA) as “GRAS”

or “generally recognized as safe” for food and beverage contact.

A leading sustainability consulting firm, PE Americas, conducted the study examining each step from raw material extraction to end-use. The closed-looped cradle-to-cradle LCA collected data from 105 furnaces representing 75 percent of North American glass container production.

LCA participating companies in North America include Gallo Glass; Leone Industries; Owens-Illinois, Inc.; Saint-Gobain Containers, Inc.; and Vitro Packaging, LLC. The study was conducted in parallel with a study for the European Container Glass Federation and its member companies. The methods employed in developing the life cycle impacts are comparable between the two studies, and life cycle assessment and glass experts conducted both studies according to strict ISO 14040/44 guidelines. Both studies also underwent a rigorous critical independent peer review.

For the complete report, view this article on www.AmericanRecycler.com.

Appliance Recycling Centers of America realizes profit

Appliance Recycling Centers of America, Inc. reported operating results for the second quarter ended July 3, 2010.

Highlights of the second quarter included:

- Reported a profitable quarter with net income attributable to controlling interest of \$0.7 million compared to a net loss of \$0.4 million in the second quarter of 2009.

- Generated operating income of \$1.1 million compared to an operating loss of \$0.1 million in the second quarter of 2009.

- Grew revenues from appliance recycling fees by 47.9 percent over the second quarter of 2009.

- Increased overall revenues for the second quarter by 11.1 percent over the second quarter of 2009.

- Signed four new multi-year recycling contracts servicing utilities in New York, Minnesota and Texas.

Total revenues for the second quarter of 2010 increased 11.1 percent to \$28.2 million from \$25.4 million in the second quarter of 2009. Comparable store revenues from ApplianceSmart Factory Outlets operating during the entire second quarters of 2010 and 2009 decreased 2.3

percent, and total retail revenues decreased 4.0 percent to \$18.6 million from \$19.3 million during the second quarter of 2009. The decrease in comparable store revenues was due primarily to softer sales in Ohio.

Recycling revenues, which include appliance recycling fees and low-income appliance replacement program revenues, increased 17.7 percent to \$6.3 million in the second quarter of 2010 compared to revenues of \$5.4 million in the second quarter of 2009. Appliance recycling fees increased 47.9 percent to \$5.3 million for the second quarter of 2010 compared to \$3.6 million in the second quarter of 2009 due primarily to the new recycling contracts added during the past 12 months. Replacement program revenues decreased \$0.8 million, primarily as the result of lower volumes for a California utility customer's replacement program. Even though the California utility sponsoring the replacement program reduced its marketing outreach to potential participants in the second quarter of 2010, resulting in an overall decrease in customer enrollment and corresponding revenues, the program generated \$1.0 million in revenues for the company in the second quarter of 2010.

Byproduct revenues increased 382.5 percent to \$3.3 million in the second quarter of 2010 compared to revenues of \$0.7 million in the second quarter of 2009. The increase in byproduct revenues was prima-

rily the result of higher scrap metal prices compared to the second quarter of 2009 and revenues from the company's joint venture, ARCA Advanced Processing, LLC.

Textile Waste Solutions awarded

Textile Waste Solutions, Inc. of Santa Barbara, California received the California Resource Recovery Association's (CRRRA) Award for Outstanding “Closing the Loop” Commitment during CRRRA's annual conference.

Textile-Waste Solutions works collaboratively with local thrift stores, non-profits, businesses and local communities to recover post-consumer textile waste.

Over 25 million pounds of textiles are either diverted for reuse as clothing in developing countries or converted into various industrial rags for use in the United States. Materials not suitable for rags are further converted to fibers used in noise reduction stuffing.

Through their innovative process, the company's textile recovery rate is 95-98 percent.

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CertainTeed's Shreveport roofing plant paves the way

CertainTeed Corporation's roofing plant in Shreveport, Louisiana, is teaming up with a Texas paving company to recycle nearly 100 percent of manufacturing waste. Paving the way with greener operations, CertainTeed is helping to divert approximately 15,000 tons of material from landfills each year. The waste is used by RK Hall of Texarkana to produce asphalt pavement used for highways and bridges.

Said John Hardy, operational excellence leader for CertainTeed Roofing, "As a result of the partnership with RK Hall of Texarkana, the plant has also reduced transportation costs – a testament that going green has both environmental and economic benefits."

The roofing plant has 73 employees and produces several asphalt shingle product lines. In 2009, the plant received an award for Excellence in Energy Efficiency for reducing its annual energy consumption by more than 10 percent. The plant is also an active participant in the Saint-Gobain International Environment, Health and Safety Day, an annual event dedicated to environmental awareness, emergency preparedness, healthy living and workplace safety.

CertainTeed is a member of the U.S. Green Building Council, and plays an active role in the green building movement. For the second consecutive year, CertainTeed has been named ENERGY STAR partner of the year.

Textile Waste Solutions receives recycling award

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able for rags are further converted to fibers used in noise reduction stuffing. Through their innovative process, the company's textile recovery rate is 95-98 percent.

CRRRA's Closing the Loop award recognizes businesses and agencies that have implemented an innovative program that features procurement of products that reduce waste, have recycled content and/or are safer alternatives to toxic products. With regard to recycling, "Closing the Loop" refers to purchasing products that are made with post-consumer recycled-content.

NiSource division chooses ARCA's recycling services

Appliance Recycling Centers of America, Inc. (ARCA) announced that Northern Indiana Public Service Company (NIPSCO), a division of NiSource Inc., has selected ARCA to be the provider of refrigerator and freezer recycling services for the utility's recycling program which began in August 2010.

Through the program, utility customers who turn in operating but energy inefficient refrigerators and freezers will be eligible for a \$35 incentive check for each qualifying appliance, with a maximum of two units per year. ARCA will perform the collection and proper recycling of the units.

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Algae Aqua-Culture receives grant for biodigester plant

Algae Aqua-Culture Technology (AACT), a Whitefish, Montana company, announced its receipt of a \$350,000 government grant to stimulate the development of Montana's algae-to-fertilizer industry. The grant, offered under the American Recovery and Reinvestment Act of 2009, was awarded by the Montana Department of Environmental Quality (DEQ).

AACT will use its grant money to immediately begin building a wood chip to energy and fertilizer processing plant in Columbia Falls that will initially employ about nine people. AACT's process uses a greenhouse-based algae growth system and an anaerobic biodigester to transform a blend of the wood waste and algae into high-value methane for power generation,

as well as into significant amounts of highly valuable organic fertilizer, according to Kathi Montgomery, Montana DEQ public education specialist.

The DEQ awarded the grant based on the determination that AACT would be able to adapt its computerized biomass processing technology to the existing mill operation and forest products found at Stoltze Lumber Company mill in Columbia Falls, Montana.

AACT currently operates a demonstration site at Stoltze Mill and the Recovery Grant money will allow it to begin building a full-scale 5,550 square-foot Green Power House and to begin gearing up to meet an accumulating demand for both its organic fertilizer and its Green Power Houses.

Scrap steel

■Continued from Page 1

recycling activity during the economic recession also affected the supply of steel scrap. However, the economic recovery of developed countries is likely to ensure greater availability of steel scrap. As western economies have traditionally driven the scrap arisings, decline in steel making operations affects the global supply levels of steel scrap.

The anticipated recovery of the global economy is also expected to favor increased demand for steel scrap. Rising demand for raw materials used in steel making industry from rapidly expanding emerging markets such as China, India and Brazil is expected to fuel demand for steel scrap. Establishment and operational commencement of new steel mills using electric arc furnace technology is also expected to fuel demand for steel scrap.

A major challenge facing the steel scrap market is the imposition of restrictions on export of steel scrap by several countries, which is expected to adversely affect countries that rely exclusively on imports for meeting domestic requirements. Such restrictions generally take the form of export prohibitions, taxes, administrative measures and export quotas. The restrictions not only lead to a price rise in the global markets, but also provide unfair competitive advantage to domestic manufacturers and enhance cost of production.

Steel scrap is the key raw material used by electric arc furnaces for steel production. More than 55 percent of steel produced in the European Union employs steel scrap as the raw material. The European steel industry is witnessing lower volumes of steel production, lower scrap consumption and lower levels of new scrap arising. European companies using electric arc furnace technology, which uses steel scrap as the primary raw material for the manufacture of steel, accounted for over 40 percent of all steel production.

China leads the world market in the production of steel. However, the country consumes a relatively smaller proportion of scrap steel for steel production. Robust domestic demand along with strong economic development has been the driving force behind the growth in the Chinese steel industry. However, the sector witnessed turbulent times in 2008 and 2009 with a steep decline in external consumption, leading to decrease in Chinese export of steel. The adverse economic conditions and the subsequent decline in steel demand led to cuts in the production at several domestic steel mills, resulting in substantial decline in the steel output, which is also evident in the decreased consumption of steel scrap.

For details on how to obtain the full report, view this article on www.AmericanRecycler.com.

Solaire Generation breaks ground on solar parking lot

Solaire Generation, a manufacturer and installer of solar photovoltaic (PV) parking structures, has been selected to supply solar parking canopies for one of the largest solar power installations at a single commercial site in the United States. The overall 4.1 megawatt solar-power project is being built at a Fortune 100 corporate office campus in central New Jersey. The project is scheduled to reach completion by early 2011.

The Solaire Parking Canopies will support more than 11,350 high-efficiency solar panels and will cover about 1,350 parking spaces. When complete, a total of

1.1 miles of canopies, which feature a patented dual incline design, will support a PV solar power system providing electricity equal to the annual consumption of more than 320 United States households.

The Solaire Parking Canopy is the only currently installed commercial parking canopy to offer an integrated decking and gutter system that protects people and cars from snow and ice, and protects the wiring and panels from unauthorized access. Snow and rainwater captured by the canopies can be recycled for irrigation and other gray water uses.

Aluminum can recycling rate hits 57.4 percent

The Aluminum Association, Can Manufacturers Institute (CMI) and the Institute of Scrap Recycling Industries (ISRI) announced the 2009 Used Beverage Container (UBC) recycling rate at 57.4 percent. This is the highest recycling rate of any beverage container in the United States. In 2009, Americans and the aluminum industry recycled nearly 55.5 billion aluminum cans, nearly 2.3 billion more than in 2008.

“The scrap recycling industry continues to play a vital role in maintaining a steady supply of aluminum for America’s manufacturing economy while also being a strong environmental steward,” said Robin Wiener, president of the Institute of Scrap Recycling Industries. “In 2009, over 4.6 million metric tons of aluminum was processed by the United States scrap industry saving the energy equivalent of 1.3 billion gallons of gasoline. The data shows that aluminum cans continue to be a valuable recyclable commodity.”

The aluminum can is the only packaging material that more than covers the cost of collection and re-processing for itself. As the most valuable item in the consumer waste stream, it helps finance the collection and recycling of a wide range of other materials. Also, higher recycling rates ensure a steady supply of high-value recycled aluminum which provides overall waste reduction and a

significantly improved environmental impact.

The highest processed receipts in five years demonstrate that the aluminum industry continues its serious commitment to recycling. This additional effort resulted in the largest year-on-year percentage increase in the past ten years, and the highest effective rate since 2000.

Through engineering and technology advancements, the can continues to become lighter while delivering the same serving size and using fewer resources – a goal of any container. There are 34.35 aluminum beverage cans to a pound.

Additional sustainability points on the environmental superiority of the beverage can include:

- The carbon footprint for aluminum cans has been reduced 44 percent over the last 17 years.

- Energy used to make aluminum cans has been reduced 30 percent over the last 17 years.

- The aluminum can has a 68 percent total recycled content, the highest of any beverage package material.

- Secondary aluminum production, which is produced from recycled beverage cans, generates 95 percent less greenhouse gas emissions than primary production.

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ALTERNATIVE ENERGY

Novo Energies acquires rights to new hybrid gasification technology

Novo Energies Corporation, an alternative energy company, announced that it has entered into a Technology Collaboration Agreement with Colorado based Precision Pipe and Vessel, LLC.

Novo Energies has been granted a worldwide exclusive license to use Precision's proprietary gasification technology to convert plastic and tire waste into energy products including electricity, synthesis gases and other valuable commodities such as recovered steel.

Novo and Precision have agreed to collaborate to enhance and augment Precision's existing operating pilot plant in Colorado, at which time Novo will seek multiple facilities in the United States and oversee the development of energy projects outside of North America through its partner, Novo Energies International, Ltd.

Antonio Treminio, CEO and chairman of Novo Energies, stated, "In our search for the most efficient and economical methods to convert plastic and used tires into valuable energy products, we have spent the last 12 months evaluating several technologies, including pyrolysis, gasification and microwave based systems. As a result of such efforts, we have selected Precision's gasification technology based on the following:

- Allows efficient conversion of tires and plastic feedstock to energy.
- Environmentally friendly – the process produces zero toxic emissions, making it a green energy technology.
- The preliminary synthesis gas resulting from conversion of tires and plastic meets strict standards on quality and consistency.
- Has the highest carbon conversion of any known gasification system on the market.
- Self sufficient by using the produced syngas to power the process.
- Low cost of production.

Novo plans to demonstrate the pilot facility in Denver, Colorado, as a showcase unit for government officials, institutions, utility companies and the investment community, as well as augment its output to reach fully commercial quantities.

Ormat operating new power plant

According to Ormat Technologies, Inc., the GRE Recovered Energy Generation power plant is now operating.

The project is a 5.5 MW net power plant that converts the waste heat from the exhaust of a gas turbine in a compressor station along a natural gas pipeline in Martin County, Minnesota. The electricity produced by the project is sold to Great River Energy, under a 20 year power purchase agreement.

Ohio's Third Frontier supports fuel cell development in material handling industry

The Ohio Third Frontier program, the state's commitment to create new technology-based products, companies, industries and jobs, has played a key role in an Ohio company's efforts to support fuel cell implementation in the material handling industry and work with its customers to see if the technology is a viable option in their operations.

Crown Equipment Corporation, a forklift manufacturer, recently introduced a fuel cell-ready version of the Crown PC 4500, the industry's first pallet truck designed specifically for fuel cells in an effort to ensure there is no negative impact on safety, efficiency and performance. According to Crown, support from the state and the Ohio Third Frontier program was critical in the research needed to ensure the truck met the same industry standards as a truck running on a battery.

A fleet of the Crown PC 4500 with integrated fuel cells is now being used in

Walmart Canada's new perishable distribution center located outside of Calgary, Alberta. The facility is the first complete distribution center in Canada to be powered exclusively by hydrogen fuel cells.

In 2008, Crown received an Ohio Third Frontier Fuel Cell Program grant valued at \$977,000 to help with the first phase of a project to study the technical and commercial barriers to the application of fuel cells in its lift trucks. In 2009, the company received a subsequent \$1 million grant to begin researching the integration of fuel cells into the manufacturing of its vehicles.

As of June 2010, Ohio Third Frontier has awarded \$180 million to Ohio's advanced energy sector alone. Through these advanced energy investments, Ohio Third Frontier has fostered the emergence of new technology clusters that include fuel cells and photovoltaics.

State regulators approve SDG&E solar power initiative

The California Public Utilities Commission approved a San Diego Gas & Electric (SDG&E) solar power initiative that provides for 100 megawatts (MW) of photovoltaic (PV) solar energy.

Under the initiative, 26 MW of utility-owned generation would be slated for construction on existing SDG&E property, with the remaining 74 MW purchased from independent power producers.

The program calls for SDG&E to install and procure renewable solar power using projects primarily in the one to two megawatt range and also provides for PV solar installations ranging from less than a megawatt up to 5 MW. In addition to developing its own local solar projects, SDG&E will solicit power purchase agreements for solar power at other sites in the region.

Green EnviroTech and Agilyx sign deal

Waste and scrap plastic will be converted to energy

Green EnviroTech Corp., a plastics recovery, separation, cleaning and recycling company, and a wholly-owned subsidiary of Green EnviroTech Holdings Corp. announced that it has contracted with Agilyx, an alternative energy company that uses patented technology to convert difficult-to-recycle

waste plastics into synthetic crude oil, to resell all oil produced from its recycling process.

Green EnviroTech plans to convert waste and scrap plastic into high-value energy products, including sweet crude oil. Formerly known as Plas2Fuel, Agilyx uses a continuous batch process to convert waste plastics into barrels of synthetic sweet crude oil. The process is scalable, versatile and environmentally positive, and Agilyx has been producing and selling crude oil on the open market for approximately two years.

The agreement allows any and all types of plastic, co-mingled, dirty and/or contaminated materials to be processed in the Agilyx recycling system. Agilyx uses its patent pending process to "decompose" plastics back into hydrocarbons while separating undesirable organics (chlorine, bromine, etc.) entrained in the plastic. This allows for no combustion of waste plastic. Ultimately, ultra clean, "sweet" crude oil is produced, which in turn will be sold to oil refineries.

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ALTERNATIVE ENERGY

Waste-to-energy plant planned for New York

Facility will convert municipal solid waste into gas used to produce electricity

Taylor Biomass Energy has been selected by the Loan Guarantee Program Office (LGPO) of the Department of Energy (DOE) for due diligence consideration for a loan guarantee under Title XVII of the Energy Policy Act of 2005.

Taylor Biomass Energy, a Montgomery, New York-based developer of waste to energy projects using a proprietary innovative clean gasification process to produce electricity, has applied for a loan guarantee and Federal Financing Bank (FFB) funding under DOE's Innovative Energy Efficiency, Renewable Energy and Advanced Transmission and Distribution Technologies Program.

Taylor Biomass Energy's Montgomery Project will utilize the organic fraction of Municipal Solid Waste (MSW) and construction and demolition

debris (C&D) biomass feedstock to generate 24 MW (gross) of base load, renewable electric energy. The project will place approximately 20.2 MW (net) into the local Central Hudson Gas and Electric Coop grid system. The project will utilize Taylor Biomass Energy's gasification process to convert MSW into a syngas that is efficient fuel for power generation. The project will create nearly 400 construction jobs, and will also create over 75 full time jobs. Construction is scheduled to begin in October 2010.

The Montgomery Project is in final engineering development and environmental permitting. Taylor Biomass Energy is working to complete all aspects of project development this year, along with work related to the DOE loan guarantee and FFB financing.

Covanta partners with Project Kaisei turning trash into diesel

Covanta Energy Corporation and Project Kaisei have joined forces to clean up ocean debris as part of a project commitment with the Clinton Global Initiative (CGI). The partnership was formally announced during the opening plenary at CGI's annual meeting in New York. Established in 2005 by President Bill Clinton, CGI convenes global leaders to devise and implement innovative solutions to some of the world's most pressing challenges. Both organizations are members of CGI.

Project Kaisei is a non-governmental organization focused on reducing plastic waste in the ocean. Covanta Energy is an internationally recognized owner and operator of large-scale energy-from-waste and renewable energy projects. Together they have committed to clean up ocean debris, beginning with the Plastic Vortex in the North Pacific Gyre; stem future plastic waste flows from entering oceans; and test a new waste-to-fuel technology for the remediation of non-recyclable plastics and plastic waste. The project will showcase how plastic, and waste in general, can have a beneficial secondary

market value when properly processed, and will help initiate a larger scale cleanup effort of the ocean, aiding in the protection of marine life.

"It is estimated that roughly 90 percent of plastics made today aren't recycled. This poses a significant opportunity for reuse, recycling and energy recovery," said Paul Gilman, Covanta Energy senior vice president and chief sustainability officer.

Beginning in late 2010, Project Kaisei, the lead on the project, will collect plastic debris from the ocean for remediation testing. Covanta Energy will use the debris to test its new waste-to-fuel technology to convert the plastic into a diesel substitute using its catalytic process for converting solid organic materials directly to mineral diesel fuel. If successful, the end result is expected to be an innovative, sustainable solution for communities around the world to deal with non-recyclable plastics and plastic waste.

Covanta Energy and Project Kaisei have set a target to convert 50 tons of marine debris into renewable fuel each year.

NSWMA comments on biogenic sources of greenhouse gases

The National Solid Wastes Management Association (NSWMA) recently submitted comments to the United States Environmental Protection Agency (EPA) on how greenhouse gas (GHG) emissions from biogenic sources should be treated under the Prevention of Significant Deterioration (PSD) and Title V Greenhouse Gas Tailoring Rule. NSWMA argued that the GHG produced from biomass should not

be regulated in the same manner as anthropogenic GHG under the tailoring rule.

In addition, NSWMA's comments urged EPA to remain consistent with protocols involving greenhouse gases and exclude biogenic emissions from the rule. NSWMA believes that if biogenic sources and their emissions are not excluded from the tailoring rule, it will jeopardize the investment in biogenic energy sources.

NRG to supply technology for plasma waste-to-energy project

Geoplasma-St. Lucie, LLC received its final air construction permit for a planned 24 megawatt energy-from-waste project in St. Lucie County, Florida. The proposed project will use Alter NRG's proprietary Westinghouse Plasma technology. Geoplasma has now engaged Alter NRG for approximately \$300,000 in engineering support and other services related to this project, which is expected to lead to further engineering and an approximate \$25 million plasma gasification equipment order upon successful development.

The St. Lucie project is expected to process approximately 660 tons per day of feedstock consisting of primarily municipal solid waste from St. Lucie County, plus tires and other permitted feedstocks and convert this into steam and/or power. This project is located on a nine acre parcel within the boundaries of the existing County landfill site. Geoplasma has a 20 year agreement with the County to process the waste into clean energy instead of continuing to bury it in the landfill.

St. Lucie County is further supporting the project by authorizing Camp, Dresser & McKee, the primary environmental consultant to the county's Solid Waste Department, to proceed with modifications to the existing permits for the landfill to accommodate the plasma gasification process.

METALS

Olympic Steel recognized for workplace safety

Olympic Steel, Inc. announced receipt of a Michigan Safety and Health Achievement Recognition Program (SHARP) Award. The award, presented by the Michigan Occupational Safety and Health Administration (MIOSHA), distinguishes the company's Detroit, Michigan facility for its exemplary safety and health management program.

To qualify for SHARP recognition, a company must be considered a high-hazard industry, and complete a thorough site consultation conducted by the MIOSHA review team. Companies earn distinction for implementing a safety and health system that achieves results far beyond those of their peers.

Schnitzer acquires SOS Metals Island Recycling

Schnitzer Steel Industries, Inc. has acquired substantially all of the assets of SOS Metals Island Recycling of Maui, Hawaii.

"SOS is a supplier of ferrous and non-ferrous materials, which strengthens our operations in Maui and all of the Hawaiian Islands," said Don Hamaker, president of Schnitzer Steel's metals recycling business.

SOS Metals Island Recycling has been recycling scrap metal from the Maui community for nearly five years. Terms were not disclosed.

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METALS

Steel imports increase 19 percent

Import market share rises to an estimated 22 percent

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the United States imported a total of 2,415,000 net tons (NT) of steel in July, including 1,797,000 NT of finished steel (up 19 percent and 15 percent respectively from June data).

Finished steel import market share was an estimated 22 percent in July, vs. 20 percent in June and a low of 15 percent in August 2009. In the first 7 months of 2010, total and finished steel imports were up 47 percent and 23 percent, respectively, compared to the same period last year.

Key finished steel products with significant import increases in July 2010 compared to June include line pipe (up 61 percent), oil country goods (up 34 percent), plates in coils (up 26 percent), hot rolled sheets (up 26 percent) and cut length plates (up 22 percent). Many finished steel products have registered sig-

U.S. IMPORTS OF FINISHED STEEL MILL PRODUCTS BY COUNTRY OF ORIGIN (Thousands of Net Tons)					
	JULY 2010	JUNE 2010	2010 Annual (est)	2009 Annual	% Change 2010 Annual vs. 2009
SOUTH KOREA	196	152	1,859	1,323	40.6%
JAPAN	125	71	1,279	981	30.4%
GERMANY	87	62	923	495	86.7%
INDIA	145	52	832	581	43.2%
CHINA	94	79	800	1,463	-45.3%
TURKEY	49	64	631	492	28.4%
AUSTRALIA	78	48	591	285	107.5%
All Others	1,023	1,035	11,916	8,560	39.2%
TOTAL	1,797	1,563	18,832	14,178	32.8%

nificant year-to-date import increases in 2010 vs. the same period last year, including wire rods (up 166 percent) and hot rolled sheets (up 56 percent).

In July, the largest volumes of finished steel imports from offshore were from South Korea (196,000, up 29 percent), Japan (125,000 NT, up 75 per-

cent), Germany (87,000, up 41 percent), India (145,000 NT, up 177 percent) and China (94,000, up 19 percent). For the first seven months of 2010, the largest offshore suppliers were South Korea (1,085,000, up 28 percent), Japan (746,000 NT, up 16 percent) and Germany (539,000 NT, up 68 percent).

ISRI chooses chief economist and director of commodities

The Institute of Scrap Recycling Industries, Inc. (ISRI) announced that Joseph C. Pickard has been appointed as ISRI's new chief economist and director of commodities, succeeding Bob Garino, ISRI's director of commodities for the past 25 years.

Pickard is currently serving as an economist for The International Copper Study Group in Lisbon, Portugal. In that capacity, Pickard conducts economic analysis including copper scrap usage and estimating country, regional and world recycling rates, as well as following leading economic indicators and other key economic information.

Prior to serving in Portugal, Pickard was a research analyst in Alexandria, Virginia where he conducted market analyses on global agricultural markets.

Bob Garino started his career with the scrap recycling industry in 1985 when he joined the National Association for the Recycling Industry (NARI) in New York City, New York. When NARI transitioned to the Institute of Scrap Recycling Industries in 1987, Garino followed the association as it made the move to Washington, D.C. and has served the scrap recycling industry with distinction and is highly respected as a source of key trend and pricing information on various commodities. Garino will be officially retiring from ISRI at the end of 2010.

Whenever you might be tempted to 'fight fire with fire,' remember that the Fire Department usually uses water for better results.

Bricklaying ceremony held for new coke plant

AK Steel's chairman, president and CEO James L. Wainscott said that the ceremonial bricklaying event for a new SunCoke Energy Inc. plant in Middletown, Ohio, represented a milestone event for AK Steel and for the Middletown community.

The event marked the initial construction phase of SunCoke's \$360 million plant located adjacent to AK Steel's

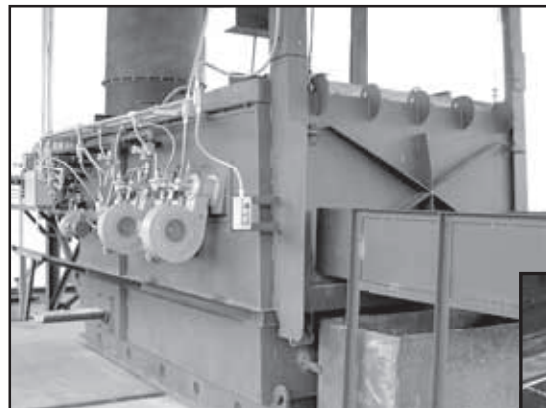
Middletown Works. Once completed, the heat-recovery coke battery will be capable of supplying AK Steel with about 550,000 tons of metallurgical coke annually. In addition, the new plant will recover the waste heat from the coking process to generate approximately 50 megawatts of electrical power each year, or about 25 percent of Middletown Works' electricity requirement.

AK Steel's board of directors previously approved a 20 year supply contract with SunCoke Energy, Inc. to provide AK Steel with metallurgical-grade coke and electrical power from the new plant. The agreement will help AK Steel achieve its goal of more fully integrating its raw material supply.

AK Steel operates coke batteries in Middletown, Ohio and Ashland, Kentucky, but must purchase about 30 percent of its annual coke requirements on the open market.

The project has created hundreds of temporary construction jobs, and there will be approximately 85 new full-time jobs when the plant is in operation.

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#1 & 2 Mixed Steel	per gross ton	345.00	280.00	340.00	310.00	329.00
Shredder Bundles (tin)	per gross ton	270.00	250.00	280.00	220.00	292.00
Crushed Auto Bodies	per gross ton	270.00	250.00	245.00	225.00	297.00
Steel Turnings	per pound	1.69.00	1.39.00	1.25.00	1.60.00	2.60.00
#1 Copper	per pound	3.10	2.76	3.07	3.10	3.20
#2 Copper	per pound	3.00	2.62	2.95	2.99	3.04
Aluminum Cans	per pound	.56	.50	.65	.60	.70
Auto Radiators	per pound	1.90	1.85	1.40	1.42	1.90
Aluminum Core Radiators	per pound	.60	.50	.90	.60	.98
Heater Cores	per pound	1.15	1.20	1.47	1.51	1.63
Stainless Steel	per pound	.88	.80	.82	.73	.94

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

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METALS

Steel import permits down 15 percent

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 August totaled 2,082,000 net tons (NT). This was a 15 percent decrease from the 2,436,000 permit tons recorded in July and a 14 percent decrease from the July preliminary imports total of 2,415,000 NT.

Import permit tonnage for finished steel in August was 1,623,000 NT, down 10 percent from the preliminary imports total of 1,797,000 NT in July. August total and finished steel import permit tons would annualize at 24,305,000 NT and 18,912,000 NT, up 49 percent and 33 percent, respectively, from the 16,215,000 NT and 14,179,000 NT imported in 2009.

In August, the largest finished steel import permit applications for offshore countries were for Korea (189,000 NT, down 4 percent from July), Japan (148,000 NT, up 19 percent), Turkey (103,000 NT, up 110 percent), China (101,000 NT, up 8 percent) and Taiwan (73,000 NT, up 172 percent). This was the first month import permit tonnage for China has exceeded 100,000 NT since May 2009. Finished steel import market share in August and year-to-date are 20 percent and 21 percent, respectively.

Finished steel import permits for major product categories that registered significant increases in August vs. the July preliminary include sheet and strip all other metallic coatings (up 76 percent), reinforcing bar (up 59 percent) and hot rolled bars (up 15 percent).

June 2010 steel shipments up

The American Iron and Steel Institute (AISI) reported that for the month of June 2010, United States steel mills shipped 7,292,203 net tons, a 0.7 percent decrease from the 7,345,455 net tons shipped in the previous month, May 2010, and a 52.0 percent increase from the 4,797,256 net tons shipped in June 2009.

Shipments year-to-date in 2010 are 42,233,140, a 61.5 percent increase vs. 2009 shipments of 26,156,301 for 6 months.

A month-to-month comparison of shipments shows the following changes: cold rolled sheet, up three percent; hot rolled sheet, up two percent; and hot dipped galvanized sheet and strip, down four percent.

Women will never be equal to men until they can walk down the street with a bald head and a beer gut, and still think they are sexy.

Upstate Shredding ranked as fastest growing private scrap metal processor

The September 2010 issue of *Inc. Magazine* featured the "Inc. 500" with Upstate Shredding LLC listed as the fastest growing privately-held scrap metal processing company in the country with a remarkable 186 percent growth rate from 2006 through 2009.

To qualify for the awards list companies had to be United States based, privately held, for profit, independent and not subsidiaries or divisions of other companies. For eligibility in the awards, Upstate underwent a rigorous audit process.

Upstate was listed in the awards under the environmental services section. Company revenues grew from \$70.2 million to \$201.3 million over the three-year period. Upstate ranked as the largest scrap metal processing company,

the second largest revenue producer in the category for 2009, only exceeded by an environmental services company.

Since 2006, Upstate has made substantial investments in plant and equipment, including a \$25 million dollar upgrade to its Owego, New York mega-shredding and metals processing line to incorporate the latest high-technology separation equipment. It has also expanded operations throughout New York State, the Northeastern and Midwestern states and into Canada an aggressive program of alliances and acquisitions through all-cash transactions.

Over the past few years a number of top industry management executives have also joined the company. From two facilities in Owego and one each in

Binghamton and Ithaca, since 2006 it has acquired scrap metal companies in Syracuse and Jamestown and this month signed a letter of intent to acquire a scrap metal company based in Liberty, New York. Additionally, the company is in the process of acquiring a new facility in Scranton, Pennsylvania.

An integral part of Upstate's growth strategy is a good-neighbor policy in the communities it serves by creating good jobs, upgrading facilities, and instituting noise-abatement, environmental systems, landscaping, and contributing to area wide improvements. In January, as recognition of its pro-active community involvement Upstate was awarded Business of the Year by New York's Tioga County Chamber of Commerce.

Novelis reports record financial results

Novelis Inc. reported net income attributable to its common shareholder of \$50 million for the first quarter of fiscal year 2011. Adjusted EBITDA and Liquidity reached record levels in the quarter.

"This was a great quarter for the company for a number of reasons. In addition to record results, we received a three-notch rating upgrade on our senior unsecured bonds to B1 from Moody's," said Phil Martens, Novelis president and COO.

Shipments of aluminum rolled products totaled 746 kilotonnes for the first quarter of fiscal 2011, an increase of 15 percent compared to shipments of 650 kilotonnes in the first quarter of the previous year, driven by stronger end-market conditions across all four regions. This represents the second consecutive quarter since the economic downturn that shipments grew in all regions year-over-year.

Net sales for the first quarter of fiscal 2011 were \$2.5 billion, an increase of 29 percent compared to the \$2.0 billion reported in the same period a year ago, a result of higher aluminum prices, conversion premiums and strength in the Company's end-markets.

Adjusted EBITDA for the quarter was a record \$263 million, representing a

112 percent increase from adjusted EBITDA of \$124 million posted for the same period a year ago. This represents the highest quarterly adjusted EBITDA in the Company's history. These record operating results were primarily due to strong global market demand as well as effective cost management and efficiency gains.

Liquidity improved to approximately \$1.1 billion at the end of the first quarter of 2011, an increase of 136 percent from

\$446 million in liquidity reported for the same period in the previous year and a slight increase compared to the fourth quarter of fiscal 2010.

For the first quarter of fiscal 2011, free cash flow was \$34 million, representing an increase from the \$20 million reported in the first quarter of the previous year and a decrease compared to the \$213 million reported in the fourth quarter of fiscal 2010.

Olympic Steel recognized for workplace safety

Olympic Steel, Inc. announced receipt of a Michigan Safety and Health Achievement Recognition Program (SHARP) Award. The award, presented by the Michigan Occupational Safety and Health Administration, distinguishes the company's Detroit, Michigan facility for its exemplary safety and health management program.

To qualify, a company must be considered a high-hazard industry, and complete a thorough site consultation conducted by the MIOSHA review team.

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 \$195,000



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 \$120,000



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1988 AL-JON 400 METAL BALER
 Great condition and very sharp, runs well.
 \$95,000



2005 SENNEBOGEN 835R MATERIAL HANDLER
 In good operating condition. 12,500 hours, well maintained, 25Kw gen set and grapple.
 \$175,000



1995 FUCHS MHL 350
 With 49'6" reach and hydraulic cab. Engine and pump were rebuilt in 2007. 20KW generator, solid tires and 5-tine rotating Fuchs grapple.
 \$122,000



2001 CAT 345B II WITH SHEAR
 With LaBounty 70R III SV rebuilt. 9,000 hours. Very nice condition.
 \$225,000



CP 200 ALUMINUM CAN FLATTERER / BLOWER
 Fully reconditioned, 220/3 phase
 \$9,200



2004 MAC QS CRUSHER
 LOADED with only 4,700 hours. Priced to SELL!
 \$87,500



2006 FUCHS MHL350
 In good operating condition. 20Kw gen-set, central lube system, 4,952 hours.
 \$197,000



1997 SIERRA 700-TON S/L/B
 17,000 hours, electric power. Runs well.
 \$440,000



LOADING CONTAINER W/KEITH WALKING FLOOR
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 \$29,000



2006 AL-JON 400XL METAL BALER
 Excellent condition with 3,900 hours.
 \$250,000



2004 MOROS HS 500-TON PORTABLE SHEAR
 Throat is 30 x 24. The height is 13'9" and box length is 97". Runs well.
 \$295,000



2008 LABOUNTY SHEAR
 UP30SV shear and crushing jaws. Excellent condition, very little use.
 \$95,000

AUTOMOTIVE

ARA adds key industry professionals to the organization

The Automotive Recyclers Association (ARA) announced the selection of Elizabeth Vermette to the position of director of government affairs, as well as the addition of Ginny Whelan, Betsy Beckwith and D.J. Harrington as three senior consultants to the organization.

Elizabeth Vermette, who joined ARA in December 2009, brings more than ten years of experience in government relations and public affairs to her new role as ARA director of government affairs. Her most recent position prior to ARA was with AAA's National Office in Washington, D.C., working in government relations, specifically as the AAA director of

state relations for the last five years. In that role, she worked with AAA clubs to create state-level safety and consumer campaigns, and directed the Association's efforts at the national level. Under her leadership, one of AAA's state-level legislative and public information campaigns were awarded Silver Anvil Awards from the Public Relations Society of America, the public relations profession's most prestigious honor.

Ginny Whelan has worked in the automotive recycling industry for the past 35 years in various capacities. She was a principal owner in her family-owned full-service automotive recycling facility, as

well as in a self-service automotive recycling facility and a mobile car crushing business. She launched the first branded automotive recycling trading group in the United States and Canada that started a trend in the industry.

Whelan served as ARA's first woman president and was the first woman honored with a Lifetime Honorary Membership to ARA. She was president of the ARA Educational Foundation from 2004 to 2009 and currently serves as its managing director. She is the founder and managing director of ARA University (www.arauniversity.org), an online resource to educate the industry.

Betsy Beckwith, known for her efforts to develop the ECAR Center, an online environmental compliance resource for automotive recyclers, will expand her role with ARA, bringing a wealth of government relations knowledge and association management expertise. Her career began on Capitol Hill where she gained on-the-ground experience in the office of a New Jersey Congressman and on congressional committees responsible for issues relative to science and technology and merchant/marine fisheries. Following that, she became immersed in the professional association arena, representing the government relations interests of the health profession both in Washington, D.C., and in the states.

Interested in broadening her scope of work, Beckwith ventured into consulting. In 2006, ARA brought Beckwith

on board to develop the ARA/Environmental Protection Agency (EPA) joint venture, the ECAR Center, a role that she continues today as its manager. In this role, Beckwith has acquired key insights into the automotive recycling industry. She will continue to advance the interests of recyclers by strengthening relationships and networks in EPA and other agencies.

Beckwith combines her federal agency and congressional experience to assist ARA's governmental affairs department on an ongoing basis. Together with Vermette, Beckwith will track legislative and regulatory measures that could affect the practices of automotive recyclers and work with members to advance their interests. Her focus will help ARA in their expanded monitoring of state and international issues.

In his consulting role with ARA, D.J. Harrington will focus on membership recruitment. Harrington is the president and chief executive officer of Phone Logic, Inc., an international training company based in Atlanta, Georgia. He serves as a consultant and trainer to over 1,000 privately owned businesses throughout the country. His years as a sales trainer and motivator for a variety of companies have provided Harrington with an outstanding background which he brings to his new role with ARA. Harrington is a longtime supporter of the ARA, and related automotive industries, and will be an asset to building the ARA organization to strengthen its efforts.

Salvaging Millions

by Ron Sturgeon
Autosalvageconsultant.com

Your website can earn more money Part 3 of 3

In prior articles I discussed how clients don't typically understand the web, and webmasters don't typically understand your business. So both parties don't know what they don't know, and the end result is a web site that disappoints the business owner and doesn't produce sales. Most of the time it's about lack of search engine optimization, in conjunction with the business issues not being a good fit with the web developer's skills.

Following are more definitions and tips.

- Registering your business with Google & Yahoo Local – oftentimes you can't get on the first page for a given term, but you can make it on the map there. And after you make it, ask customers and friends to give you some reviews.

- Reports to track your progress – you must track your exposure for your keywords, growth in traffic and where it comes from.

- Track your competitors – before you start, go look at their sites. There are lots of free tools to tell you what their keywords are, and about the "guts" of their site. Or just choose View>Source to see their code, while on their page.
- Understand page rank – you must understand it, and watch it grow for your site. Google it and you will find more than I could write here.

- Know your customer acquisition cost – use this to evaluate your advertising methods. Did it cost you \$400 to run that ad? Did you get four calls? Did you make 1 sale for \$1,000? Your customer acquisition cost is \$400. That's humbling. I recently worked with a client that phased out an outside sales staff (\$300k per year) after analyzing acquisition cost. He worked on his site, spend-

ing a fraction of the savings, his business is up, and he spends more time golfing. Yep, it's possible.

- Create a content plan – you must have an ongoing plan for who will produce fresh content like pictures of incoming cars and blog postings.

- Capture e-mail addresses – make sure your sales staff is gathering e-mail addresses in a serious way, and you are e-mailing a monthly or quarterly newsletter. Contact customers that want to hear about new arrivals more regularly. There are plenty of traps with distributing e-mails in quantities above 100 or so. You may want to use a vendor like Constant Contact. Expect them to ask you how you got your list, and if you have too many bounces or get reported for spam, you can be dead, so pay attention.

Don't be afraid to e-mail me for more tips or with a question. I've helped lots of recyclers and other businesses reach success on the web. I don't build sites, or want to, so that helps me help you without any conflicts.

Recommended resources:

- www.URLTrends.com (to study competitors).

- Google AdWords (just type it in) to research traffic for given terms.

- WebTrends or other services to track your progress for exposure for selected keywords. If you aren't on page one, you didn't make the cut!

- Google Analytics – just type it in to find it. Your web provider will have to put the code on your pages but he knows how.

- Other terms to Google to find free tools – "Keyword Extractor," "SEO," "website evaluator," "SEO tools."

Frito-Lay to use electric trucks

PepsiCo's Frito-Lay North America division is setting in motion what will ultimately be the largest fleet of commercial all-electric trucks in North America. New York City will become the first city to receive the fully-electric delivery trucks.

In total, Frito-Lay will be deploying 21 electric trucks this year. The company projects it will roll out 150 additional trucks in 2011, making Frito-Lay the largest commercial fleet of all-electric trucks in North America. The trucks, designed by Smith Electric Vehicles, generate zero tailpipe emissions and operate for up to 100 miles on a single charge.

The initial rollout in New York was funded through a grant from the New York State Energy Research and Development Authority.

With the seventh largest privately owned fleet in the United States, Frito-Lay has set a goal of becoming the most fuel efficient fleet in the country.

Frito-Lay is working with Smith Electric Vehicles, a manufacturer of battery-electric commercial trucks. Smith Electric produces the Newton, which is the only all-electric commercial truck on the market.

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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.

PLASTIC

Senate rejects California bag ban bill

A broad coalition of Californians, including the California State Conference of the NAACP, the California Hispanic Chamber of Commerce, the California Manufacturers and Technology Association, and the American Chemistry Council, applauded the California State Senate as it rejected a bill to ban plastic bags and place a hidden tax on paper bags.

The bill, AB 1998, threatened 1,000 manufacturing jobs for Californians, placed a hidden tax on grocery bills and created a \$4 million new state bureaucracy.

AB 1998 was opposed by a group of more than 500 small retailers, business associations, and organizations throughout the state.

A growing number of states and cities around the United States – including California, New York, Delaware, Rhode Island, Chicago, New York City and Tucson – have passed legislation to promote at-store recycling programs as a practical and effective means to reduce waste from plastic bags and wraps. Plastic bag makers support these approaches and are working cooperatively with grocers and retailers in many communities to establish and expand recycling programs.

For direct link to a list of those that opposed the ban, view this article on www.AmericanRecycler.com.

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PAPER

Recovered paper consumption rises

According to the July 2010 Recovered Paper Monthly Report published by the American Forest & Paper Association (AF&PA), total United States industry consumption of recovered paper was 2.7 million tons, an increase from June 2010 of 4 percent. July's consumption was 9 percent higher than in the same month last year. The United States consumed 8 percent more recovered paper in the first 7 months of 2010 than during the same period last year.

United States exports of recovered paper were down 4 percent in June compared to May. Total recovered paper exports in 2010 are 2 percent lower than during the same 6 months in 2009.

July 2010 Kraft paper sector report

According to the American Forest & Paper Association (AF&PA), July's 2010 Kraft Paper Section Report indicated that total Kraft paper shipments were 126.7 thousand tons, an increase of 7.9 percent compared to July 2009. Shipments, however, dropped 5.8 percent from June 2010. Total inventory was 74.1 thousand tons, 7.0 thousand tons higher than last month.

Paperboard report for July 2010

According to the American Forest & Paper Association's July 2010 United States Paperboard Report, total boxboard production increased by 4.8 percent compared to July 2009, and 4.4 percent from previous month. Year-to-date production was up 4.2 percent over 2009.

Verizon requests to stop delivery of residential directory

To improve efficiency and reduce the environmental impacts associated with printed directories, Verizon in August requested the Delaware Public Service Commission to waive the existing requirement to deliver residential white pages.

The company noted that significant resources are expended annually to print and automatically distribute directories to customers who may not want or use them.

Residential white pages usage has decreased considerably due to the Internet and mobile search. The discontinuation of the residential white pages directories is expected to keep approximately 150 tons of paper out of the Delaware waste stream.

The Delaware Public Service Commission granted Verizon's request to provide customers with an online, electronic version, with printed versions available upon request.

Iowa recycler raises donations for children



Over 40 City Carton Recycling friends, family and team members volunteered to assist with the 16th Annual Charity Golf Outing.

City Carton Recycling/Ockenfels Family Foundation has raised \$104,763 to date from their 16th Annual Charity Golf Outing.

The outing benefits the American Cancer Society's (ACS) children's programs, including their scholarship fund. Outing proceeds also are donated to "Children's Cancer Connection", a non-profit organization providing support services and programs for children with cancer and their families. One hundred percent of the Outing's proceeds are donated thanks to the Ockenfels Family Foundation, who pays all outing expenses.

The outing is held in memory of Deborah Ockenfels, daughter of City Carton Recycling founders Mort and Marcy. Deborah died of cancer at the age of 17.

Over 160 golfers, from across the United States and Canada teed off at the outing. Over 45 more friends, family, and City Carton Recycling Team Members assisted with the event.

Money is raised for the Outing in a variety of ways. A large portion is pledged in activity and hole sponsorships prior to the outing. "Premier" sponsors joining City Carton Recycling and the Ockenfels

Family Foundation in the event this year include Core Vens Insurance, Hills Bank & Trust, International Paper, IPS Balers, Kathy & Andy Ockenfels, L & P Wire Tie Systems, Machinex, Paradigm Benefits, Point Builders LLC, Pralumex, Quincy Recycle Paper Inc., Redhawk Transportation, Truck Country, Vecoplan, and Waste Management - Recycle America.

Over \$764,000 has been raised and donated to the American Cancer Society and children's cancer programs since the start of the Charity Golf Outing 16 years ago.

Three new members added to SFI Inc. board

Sustainable Forestry Initiative, Inc. (SFI) has added three members that were elected to its independent board of directors in support of its balanced approach to responsible forest management.

The new board members, announced during the 2010 SFI Annual Conference in Vancouver, are:

- John M. Hagan III, president, Manomet Center for Conservation Sciences;

- Stewart Hardacre, president and chief operating office, Habitat for Humanity Canada; and

- Charles Tattersall Smith, Jr., professor, faculty of forestry, University of Toronto.

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WASTE

Pennsylvania DEP and police step-up roadside inspections of trash haulers

The Department of Environmental Protection (DEP) and the Pennsylvania State Police have agreed to increase funding for inspections in the coming year that will ensure waste haulers are obeying state laws.

The unannounced roadside inspections, commonly known as FracNet and TrashNet, have removed hundreds of unsafe and illegally-operated waste vehicles from the roadways, including trucks operating in support of Marcellus Shale gas drilling operations.

"Pennsylvania is one of the largest importers of trash from other states and has also seen a dramatic increase in the number of vehicles hauling wastewater from Marcellus Shale drilling sites," DEP secretary John Hanger said. "This partnership with the state police has proven to be an effective method in addressing waste hauling safety and compliance issues throughout the state, and in putting drilling operators and their contractors on notice that we expect them to comply with our laws."

The two agencies have signed a memorandum of understanding that provides funding to the state police from the Waste Transportation Safety Account, which is supported by fees, fines and penalties paid by the waste-hauling industry. The agreement will enable both agencies to conduct roadside inspections with increased frequency and duration.

In the first half of 2010, roadside inspections by the state police and DEP found that more than 40 percent of the large trucks serving the Marcellus Shale natural gas industry were operating in violation of state motor carrier safety regulations. Nationally, since 2006, the trucking industry averaged only a 23-30 percent out-of-service violation rate.

In June, a three-day enforcement effort involving DEP, state police, the Pennsylvania Public Utility Commission and the federal Motor Carrier Safety Administration focused on trucks hauling waste water from Marcellus Shale gas drilling operations and

resulted in 250 commercial vehicles being placed out of service for various vehicle safety deficiencies. Under a similar interagency agreement in 2009, state police and DEP inspected more than 4,300 waste haulers along Pennsylvania roadways, placing 770 vehicles out of service and issuing 2,654 traffic citations.

During FracNet and TrashNet enforcement operations, DEP inspectors check to ensure that waste vehicles have proper signage and required authorizations, and that daily logs specifying the origin and type of waste are accurate and up-to-date. Vehicles are checked for weight and leakage, the presence of working fire extinguishers and to verify that loads are properly enclosed and secured.

State police teams check vehicle braking systems, exterior lighting and other equipment that plays a role in operational safety. They also check drivers for appropriate operator licenses.

Casella Waste revenues up

Casella Waste Systems, Inc. reported financial results for the first quarter of its 2011 fiscal year that included growth in both revenue and operating income.

For the quarter ended July 31, 2010, Casella reported revenue of \$139.8 million, up \$7.3 million or 5.6 percent over the same quarter last year. Operating income was \$14.5 million for the quarter, up \$5.4 million from the same quarter last year, including a \$3.5 million gain on divestitures.

The gain on divestitures resulted from the sale of various properties for consideration of \$7.8 million on July 1, 2010. A net loss applicable to common shareholders was (\$2.9) million, or (\$0.11) per common share in the quarter, compared to net loss of (\$2.8) million, or (\$0.11) per share for the same quarter last year.

Waste Management expands organics recycling

Waste Management, Inc. has acquired a majority equity interest in Garick LLC, a manufacturer, marketer and distributor of organic lawn and garden products that will accelerate the expansion of Waste Management's organics recycling services and development of value added organic products.

Garick's operations will add over one million tons of processing capacity as well as commercial and consumer organic products to Waste Management's organics recycling business, which could lead to the development of composting and bagging facilities at Waste Management facilities throughout North America. This expansion of organic recycling services and products will be beneficial to the company's residential, commercial and industrial customers seeking to convert their organic

wastes into products such as compost, mulch and organic soil amendment.

The market for composting services is growing as consumers are increasingly demanding alternatives to conventional fertilizers for lawn and garden care, and municipalities and companies are seeking to increase the recycling of organic materials for beneficial use. Organic compost is considered a part of the green retail market, which has been growing at 20 percent annually.

North America generates over 80 million tons of organic waste each year. In the United States, approximately a third of municipal solid waste is organic, including food, yard and wood waste. Approximately 65 percent of yard waste and 2.5 percent of food waste collected in the United States is currently diverted from disposal.

This investment complements Waste Management's other investments in organic recycling. In January of this year, Waste Management invested in Harvest Power to expand its organics processing facilities across North America and to develop innovative anaerobic digestion technology to accelerate the decomposition of organic materials that may produce renewable energy. In 2009, the company also invested in Terrabon to generate renewable transportation fuels from organic waste via a unique Mix-Alco™ technology.

Fewer worker deaths in solid waste industry

According to a recent report by the United States Department of Labor, the number of fatalities by solid waste collection workers declined substantially in 2009 compared to 2008. In its Census of Fatal Occupational Injuries, the Bureau of Labor Statistics (BLS) reported that the fatality rate during 2009 for both solid waste collection and landfill employees continued to decline, as it has in recent years.

The BLS report indicates that the fatality rate for solid waste collection workers (both refuse and recyclable material collectors) decreased from 31 fatalities in 2008 to 19 fatalities in 2009, a 39 percent drop. The report indicated that the number of fatalities for all waste management and remediation service employees (including collection, landfill workers, etc.) fell from 74 to 43 during the same period, a 42 percent drop.

NSWMA safety director David Biderman stated, "We are very pleased that the solid waste industry reduced the number of workplace fatalities in 2009. According to NSWMA data, the leading cause of waste collection worker fatality is being struck by another vehicle, and we will continue to work with members, regulators and others to educate the public about this hazard. Seven collection workers were killed in struck bys in 2009, and there have been at least 4 fatal struck bys so far in 2010."

Biderman urged all haulers and local governments to participate in NSWMA's safety programs, including the Be Safe Be Proud and Slow Down to Get Around (SDTGA) programs, and communicate the importance of working safely to their employees.

Penfund invests in Florida waste hauling business

Penfund, an independent provider of junior capital to middle market companies, announced a \$15 million investment in Choice Environmental Services Inc. The terms were not disclosed.

Headquartered in Fort Lauderdale, Florida, Choice is one of the largest independent waste collectors in the southeastern United States. Since its founding in 2004, Choice has won several significant municipal collection contracts and has successfully completed multiple tuck-in acquisitions. The company provides collection, transfer station and material recovery services to a diverse base of customers throughout South and Central Florida.

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INTERNATIONAL

Guanwei Recycling Corp. reports increased revenues

Guanwei Recycling Corp., China's leading clean tech manufacturer of recycled low density polyethylene (LDPE), reported that a second quarter plant expansion and refurbishment, and lower gross margins, produced lower than planned revenue and profit comparisons in its second quarter ended June 30, 2010. Revenues in the 2010 second quarter grew 16.59 percent to \$9,116,737, from \$7,819,356 in the same period last year. As gross margins declined from 48.52 percent in last year's second quarter to 31.01 percent in the 2010 second quarter, net income declined 32.17 percent to \$1,670,985, compared with \$2,463,329 in the same period last year. EPS in the 2010 second quarter was \$0.09.

In the second quarter ended June 30, 2010, the Company sold 8,501 tons of recycled LDPE – an increase of 10.55 percent from 7,690 tons sold in the corresponding period of 2009. This gain was much lower than anticipated due to the decision to expand and upgrade the company's washing and smashing plant, a project that was completed in July. Nevertheless, the volume gain in the quarter was accompanied by price increases. The average selling price of recycled LDPE increased 4.61

percent from approximately \$996 per ton in the three months ended June 30, 2009 to approximately \$1,042 per ton in the same period in 2010. In fact, average selling prices of recycled LDPE have been steadily increasing and in July and August have been above \$1,100 per ton. Coupled with strong demand for the company's products and anticipated sales gains, this is expected to positively impact revenues going forward.

During the 2010 second quarter, the company's cost of revenues – consisting of imported plastic waste, transportation, custom tax and labor – increased substantially. The increase was primarily due to the fact that in early 2009, the company took advantage of its strong financial position to stockpile raw materials at abnormally lower prices immediately following the global financial crisis and, accordingly, material costs in the three months ended June 30, 2009 were comparatively lower. Average manufacturing costs of recycled LDPE and sorted non-LDPE materials increased from approximately \$467 per ton in the 2009 second quarter to an average cost of \$647 per ton for the same period of 2010.

A lady opened her refrigerator and saw a rabbit sitting on one of the shelf.

"Why are you in there?" she asked.

The rabbit replied, "This is a Westinghouse, isn't it?"

The lady said, "Why, yes," she said, "it is."

"Well," the rabbit said, "I'm westing."

China Armco reports financial results for the second quarter

China Armco Metals, Inc., a distributor of imported metal ore and metal recycler in China, announced its financial results for the second quarter of 2010.

Net revenues for the first six months of 2010 were \$25.6 million compared to the \$27.9 million recorded in the first six months of 2009. The decrease in revenue is largely due to a sharp decline in customer demand midway through the second quarter of 2010 resulting from the Chinese government measures to restrain the real estate industry from overheating. As a result, net revenues for the second quarter of 2010 were \$17.0 million compared to the \$22.5 million recorded in the second quarter of 2009. In the second quarter China Armco experienced a significant decline in metal ore sales as purchasers curtailed orders in light of these policies.

China Armco recorded a net loss of \$248,000 for the second quarter of 2010 compared to a net income of \$3.1 million recorded for the second quarter of 2009. This resulted in a loss per diluted share of \$0.02 as compared to earnings per diluted share of \$0.31 in the second quarter of 2009. The net loss for the first six months of 2010 was \$194,408 or \$0.02 per diluted share as compared to net income of \$3.4 million or \$0.34 per diluted share in the first six months of 2009.

Total carrier bag use continues to fall in UK

With the help of consumers, the United Kingdom's leading supermarkets have continued to reduce the total number of bags given out by 41 percent since figures were first recorded in 2006, Waste & Resources Action Programme (WRAP) announced. This figure compares to a 35 percent reduction recorded in 2009.

In 2006 a total of 10.9 billion bags (including single-use bags, bags-for-life and reusable bags such as cotton and jute) were used. That number has since decreased by 4.5 billion to 6.5 billion per year in 2009/10, reducing the amount of material used in bags by 39,700 tons per year.

Within that overall reduction, the number of 'single-use' carrier bags issued has been reduced by 43 percent. This is a reduction of 4.6 billion single-use bags per year (45,800 tons per year), compared to a 37 percent reduction recorded in 2008/9.

WRAP's other measurement – a spot check analysis of bag use during the month of May – has also recorded a reduction in total bag use. 395 million less bags were used in May 2010 than in May 2006 – a 44 percent reduction, compared to a reduction of 43 percent last year.

Within this measurement, the number of single-use bags has increased slightly from May 2009. In May 2010, 45 percent fewer bags were used than in May 2006, compared to 48 percent fewer in 2009.

This progress has been made against a back-drop of 6.3 percent sales

growth by signatory supermarkets between 2006 and 2009 with the number of items sold up from 48.5 billion to 51.5 billion.

In 2010, WRAP has reported additional 'annual trend data' as this represents a more comprehensive picture of UK carrier bag use.

In 2008, the United Kingdom Governments, the British Retail Consortium and leading supermarkets agreed to a voluntary approach to cut the number of single-use bags given to customers by 50 percent by spring 2009.

Events Calendar

October 11th-13th

Biopolymers Symposium 2010. Westin Tabor Center, Denver, Colorado. 207-781-9618 • www.biopolymersummit.com

November 3rd-4th

NERC's Fall 2010 Conference. Hotel Northampton, Northampton, Massachusetts. 802-254-3636 • www.nerc.org

November 3rd-4th

Canadian Waste & Recycling Expo. International Centre, Toronto, Ontario. 877-534-7285 • www.cwre.ca

November 7th-10th

2010 Educational Conference on Litter Control and Solid Waste Management. Stonewall Resort State Park, Roanoke, West Virginia. 304-292-3801 • www.awvswa.com

January 24th-27th, 2011

US Composting Council's Annual Conference and Exhibition. Hyatt Regency, Santa Clara, California. 631-737-4931 • www.compostingcouncil.org

March 6th-9th

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

March 22nd-26th

ConExpo-Con/Agg 2011. Las Vegas Convention Center, Las Vegas, Nevada. 800-867-6060 • www.conexpoconagg.com

March 23rd

C&D World. Paris Resort and Casino, Las Vegas, Nevada. 630-585-7530 • www.cdrecycling.org

April 3rd-5th

Aluminum Association 2011 Spring Meeting. Sanibel Harbour Marriott Resort & Spa, Fort Myers, Florida. 703-358-2960 • www.aluminum.org

April 5th-9th

ISRI Annual Convention and Exposition. Los Angeles Convention Center, Los Angeles, California. 202-662-8544 • www.isriconvention.org

May 9th-12th

WasteExpo. Dallas Convention Center, Dallas, Texas. 800-927-5007 • www.wasteexpo.com

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November 7-10, 2010

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BUSINESS BRIEFS

John Mafrige joins DuPont Danisco Cellulosic Ethanol

■ John Mafrige has joined DuPont Danisco Cellulosic Ethanol (DDCE) as vice president of commercial development and a member of the company's senior leadership team. Mafrige has held leadership positions in petrochemicals, energy and renewable industries as well as in private equity investing. He has more than two decades of experience in business and corporate development and finance. Mafrige holds a B.S. from Sam Houston State University and an M.B.A. from the University of Houston – Clearlake.

Reporting to the CEO, John will lead DDCE's strategic business efforts in marketing, value chain development, licensing, business operations and regulatory affairs.

Hendrickson expands with facility agreement in China

■ Hendrickson entered a strategic cooperation agreement with Sinotruk (Hong Kong) Limited, an affiliate of China National Heavy Duty Truck Company (CNHTC), China's largest manufacturer of heavy-duty trucks. Under this agreement, Hendrickson will design, develop and manufacture suspension systems for use in heavy-duty trucks manufactured by CNHTC or its affiliates.

Hendrickson established a production facility in Jinan, Shandong Province, China. Operations began in the second quarter of 2010, with full production capability targeted for the fourth quarter 2010.

Gerdau completes plan of company arrangement

■ Gerdau Ameristeel Corporation and Gerdau S.A. announced the completion of the acquisition of Gerdau Ameristeel by way of a plan of arrangement.

Pursuant to the arrangement, Gerdau S.A. acquired all of the issued and outstanding common shares of Gerdau Ameristeel not already owned, directly or indirectly, by it for \$11 in cash per share.

De-listing of the common shares of Gerdau Ameristeel from the Toronto Stock Exchange and the New York Stock Exchange is expected to occur shortly. Concurrent with the delisting of its common shares, Gerdau Ameristeel will apply to all applicable Canadian securities regulatory authorities and to the Securities and Exchange Commission in order to cease to be a reporting issuer, and to withdraw its shares from registration.

Dirk A. Kempthorne joins Olympic Steel's board

■ Olympic Steel, Inc. announced that its board of directors elected the Honorable Dirk A. Kempthorne as a director, effective immediately. Governor Kempthorne will also serve on the nominating committee of the board.

Governor Kempthorne has served as the Mayor of Boise, Idaho (1985-1992), and a United States Senator from Idaho (1993-1999). He was also a two-term Governor of Idaho (1999-2006), and most recently served as the 49th Secretary of the United States Department of the Interior from 2006 to January 2009.

Covanta Holding names Sanjiv Khattri as CFO

■ Covanta Holding Corporation reported that Sanjiv Khattri has been appointed to the position of executive vice president and chief financial officer. Khattri is a seasoned executive with over 20 years of financial leadership experience including his tenure as chief financial officer of General Motors Acceptance Corporation, a global diversified financial services company.

Khattri will report directly to the chief executive officer and will be responsible for treasury, accounting, investor relations, strategy, financial planning, tax and information technology.

Khattri was most recently operating as a financial and strategic consultant working with major global corporations, private equity firms and hedge funds. In his last corporate position he was part of the General Motors Acceptance Corporation leadership team where he served for over four years in various capacities including chief financial officer and executive vice president of corporate development.

Liberty Tire Recycling expands operations

■ Pittsburgh-based Liberty Tire Recycling has expanded in the New York and Ontario market areas with the acquisition of High Tread International. The new Liberty Tire facility located in Lockport, New York complements previously acquired assets in the Buffalo area, and includes an experienced management team that has provided decades of innovation to the tire recycling industry. In addition to the Lockport facility, Liberty Tire has been working with the High Tread team on the design and construction of a new facility in Brantford, Ontario, Canada.

Brantford will be a showcase operation and consolidation point for all of Liberty Tire's activities in the province of Ontario. The site includes a 210,000 square foot building that will house all collection operations. The facility is expected to be operational later this year.

TIA announces board of directors election results

■ The Tire Industry Association (TIA) announced recent board of directors elections. There were six seats open; each with a three-year term. Those elected include:

- Ernie Caramanico, Amityville Firestone, Amityville, New York.
- Randall Groh, U.S. Oil Co., Inc., Combined Locks, Wisconsin.
- Tom Wright, Wright Tire Service, Anoka, Minnesota.
- Stu Zurcher, Dealer Strategic Planning, Inc., Angola, Indiana.
- Paul Dvorak, American Industrial Tire/American Discount Tire Corp., Dallas, Texas.

•Dan Rose, Tire Alliance Group, Scottsdale, Arizona.

The new board will take office on November 1, 2010.

IESI acquires recycling facility in North Austin

■ IESI Corporation, a subsidiary of IESI-BFC Ltd., announced it has acquired Central Texas Secure Shredding and its recycling facility in Pflugerville, Texas.

Central Texas Secure Shredding provides secure document destruction processes that include the collection of documents in locked containers, transportation in locked vehicles, mixing of documents from multiple sources prior to shredding, baling and recycling of the materials.

The recycling facility will now be called IESI Central Texas Shredding and Recycling Facility. IESI plans to expand the facility's current document destruction processing services to incorporate a fully integrated single stream recycling process to efficiently serve the thriving communities in the Austin area by the third quarter of 2010.

The 20,000 square-foot IESI Central Texas Shredding and Recycling Facility will continue to provide secure document destruction processing and is, in addition, capable of processing 150 tons of recyclable material per day. The system will allow IESI the opportunity to expand its single stream processing capabilities. Because the facility will utilize the single-stream process, customers can combine paper, glass, metals, cardboard and plastics all in one large container.

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ATLAS COPCO ADDS TO HB BREAKER SERIES PRODUCT LINE

The Atlas Copco HB 2000 has a service weight of 4,409 lbs. and the Atlas Copco HB 4700 has a service weight of 10,362 lbs. Both are VibroSilenced, protecting carrier and operator. Both have AutoControl, which adapts the blow frequency and impact energy according to the material. These breakers include ContiLube II automatic lubrication system and feature the Power-Adapt system that shuts down the breaker when oil pressure exceeds maximum input value. An improved box system offers better stability and resistance. Service window and recesses for mounting bracket flange are reinforced.



Norco Equipment
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803-234-5754
www.norcoequipment.com

NORCO'S HORIZONTAL GRINDER REDUCES OPERATING COSTS

Norco Equipment has introduced its Dynamic 5240 horizontal model. Powered by a Volvo Tier III 425 hp engine, the grinder will produce up to 200 yd³/hr from infeed materials of up to 18" diameter.

The infeed hopper provides a generous 54" x 16' loading capacity. Processed material is sized through a selection of 1.5 to 5" screens.

Weighing less than 38,000 lbs., the wheeled Dynamic 5240 offers operators a horizontal grinder that transports easily and is agile enough to fit into almost any jobsite.



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Fans are available for flows to 440,000 CFM and pressures to 108" w.g. Wheels are typically high strength, low alloy structural steel capable of 800°F., with spark resistant aluminum available. High quality stainless and Duplex stainless steels are used for maximum corrosion resistance.



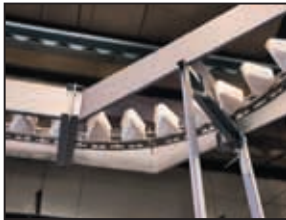
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BUILTRITE'S NEWEST AUTO DISMANTLING SYSTEM

The Builtrite Auto Dismantling System is designed to dismantle autos, readying them for a car crusher or shredder.

The hold down arms are mounted to the excavator's mainframe and include a pair of high pressure cylinders, capable of applying enough force to crush and hold the auto in place.

The auto dismantling grapple features a wide opening, 360° continuous rotation while the dexterity of the jaws allow the operator to perform precise maneuvers, making quick work of pulling engines, radiators, wiring harnesses, heater cores and more.



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GOUGH ECON LAUNCHES NEW 'GO ANYWHERE' CONVEYOR

The Gough Elecon Conveyor from Gough Econ, Inc moves material in three different directions for optimum flexibility in planning a material handling system. Known as the "Go Anywhere Conveyor," the unique multi-axis bucket conveyor and elevator system is the result of its patented chain design and cantilevered wedged shaped buckets that come together and overlap. The Gough Elecon is ideal for applications requiring gentle handling and most other industrial applications because of the buckets that move vertically, horizontally and can turn 90 degrees without transferring the load being conveyed.



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SHRED-TECH OFFERS MDS-30GT MOBILE SHREDDING TRUCK

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TEREX'S PT100G TRACK LOADERS OFFER MORE POWER

The largest compact track loaders in the Terex® lineup, the new PT-100G and the PT-100G Forestry, offer operators a 14.6 percent increase in tractive effort in low gear for more pushing power and increase horsepower to the attachment by 32 percent. They also offer a redesigned loader arm for greater reach and 13 percent more bucket-breakout force over their predecessors.

These models boast a class-leading 99.9 hp engine and 310 lb.-ft. of torque. These Terex loaders have an operating weight of 11,400 lbs., a tipping load of 8,000 lbs. and a lift height of 125".



Metso Recycling-Texas Shredder
11451 Jones Maltsberger
San Antonio, TX 78216
800-531-5927
www.metso.com/texasshredder

METSO OFFERS NEW TS 69/90 METAL SHREDDER

Metso Recycling-Texas Shredder has introduced the new TS 69/90 shredder, a compact yet powerful shredder. Although smaller in size, the machine is designed for processing a complete mix of scrap metal that is typical of larger shredders, including appliances, light scrap and loose material – both "peddler" scrap and car bodies.

Design features include: 40° feed chute, dual 30" feed roll, hydraulic roll drive, shredding chamber based on the proven Lindemann ZZ175 design, spider rotor, single DC drive motor and basic electrical controls.



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WASTEQUIP LOADED CONTAINER HANDLER OFFERS SAFE TRANSPORT

Wastequip's new Galbreath branded loaded container handler (LCH) offers a DOT compliant solution for safely transporting loaded containers at highway speeds. With the center of gravity in front of the rear axles and a design that allows loaded containers to sit level on the chassis, the LCH provides smooth and safe transport of loaded containers up to 8,000 lbs.

The unit is DOT compliant when used with 1 to 10 yard frontload containers and 1 to 6 yard rear load containers.

BUSINESS BRIEFS

Morbark expands East Coast dealer network

■ Morbark has signed a dealer agreement with Elliott & Frantz, Inc., based in King of Prussia, Pennsylvania. Elliott & Frantz, Inc. will sell and service Morbark's recycling and forestry product lines, in Maryland, Delaware and the District of Columbia, from their branch locations located in Jessup, Maryland and Delmar, Delaware.

Founded in 1962, Elliott & Frantz, Inc. has comprehensive experience in the construction equipment industry. They maintain a parts inventory in excess of two million dollars, a complete fleet of service vehicles and a full service staff.

Primary Energy appoints new board member

■ Primary Energy Recycling Corporation has appointed Douglas Graham, currently a portfolio manager at KVO Capital Management, to its board of directors. KVO Capital Management is a substantial shareholder of the company.

From 2009 to the present, Graham has managed a portfolio of investments for KVO Capital Management, a New Hampshire-based hedge fund. Prior to that, Graham held the position of portfolio manager with Onex Capital Management in New York. Graham's extensive background in the investment business also includes five years at Goldman Sachs in its private equity division.

In the past, he has served on the board of directors of Berry Plastics, a specialty plastics packaging company. Graham has declined compensation from Primary Energy to sit on its board of directors.

The company also announced that John Prunkl, its president and chief executive officer, has been awarded 5,500,000 fully vested stock options. 5,000,000 have an exercise price of Cdn\$1.00 and 500,000 have an exercise price of Cdn\$1.20 and may be exercised at any time during the next 10 years.

The award is contingent upon shareholder and Toronto Stock Exchange approval of the company's stock option plan. A special meeting of shareholders will be scheduled to obtain a vote of shareholders on the matter. The stock option plan and related voting materials will be mailed to shareholders in advance of the special meeting.

ALL Crane Rental of Alabama names manager

■ The ALL Family of Companies has appointed Brian Ledford as general manager of ALL Crane Rental of Alabama, LLC, in Whistler, Alabama.

Ledford started his career as a dispatcher at ALL Carolina Crane & Equipment, where he worked for four years. With extensive experience in the crane industry, he also worked in dispatch and sales at another crane company and is a certified crane operator through the National Commission for the Certification of Crane Operators.

Manheim opens new auction facility in Texas

■ Manheim's Total Resource Auctions has completed construction on its newest facility, located in Wilmer, Texas, near Dallas.

Built on 71 acres and featuring 26,000 total square feet, the new location incorporates 12,000 square feet of office space, 2 Simulcast sale lanes and a wash bay that can hold up to 30 cars. To decrease the facility's environmental footprint, recycled concrete was used on half of the 46 acres of developed surface. In addition, the facility will use an advanced geothermal heating and cooling system and reuse 90 percent of the water from its wash bays. With the addition of this facility, Total Resource Auctions now offers two locations to serve the greater Dallas area.

Universal Stainless names chief technology officer

■ Universal Stainless & Alloy Products, Inc. has named Arthur C. Reardon, Ph.D. as the new chief technology officer (CTO). The new position was created to significantly strengthen the company's technical support to customers as well as to provide the metallurgical expertise critical for its process improvement effort and product expansion strategy. As CTO, Reardon will lead metallurgical process development at Universal Stainless and will oversee all company laboratory capability testing and analysis.

Reardon most recently served as director of technology R&D for Newell-Rubbermaid Corporation, where he established fundamental research efforts and developed breakthrough technologies to bring new products to market in the cutting and hand tool industry. From 1995 to 2006, Reardon was senior process metallurgist for Crucible Specialty Metals Corporation, where he designed, maintained and improved manufacturing processes for high speed and tool steel grades and worked directly with customers to resolve complex technical issues.

ES Electronic & Metal earns ISO certification

■ GreenProfit Solutions announced that ES Electronic & Metal Management has completed their Environmental Management System training and received their ISO 14001:2004 certification.

ISO 14001:2004 is recognized internationally and is widely known as the world's green business certification.

ES Electronic & Metal Management is a provider of value added products and services to the nonferrous and e-scrap industries.

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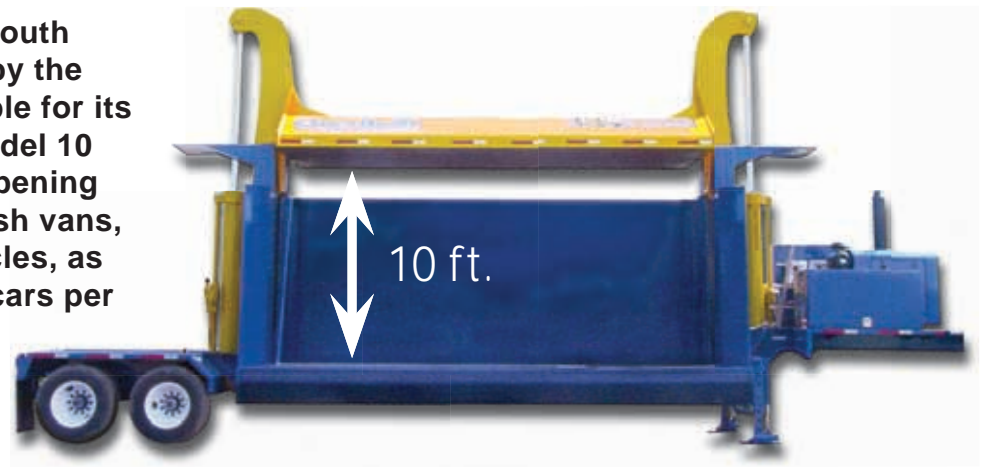
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E-waste and appliances begin to overlap

by MIKE BRESLIN

mbreslin@americanrecycler.com

The word “appliance” in its strictest sense is a piece of equipment for adapting a tool or machine for a special purpose. In common vernacular it has come to mean a broad spectrum of household and industrial electromechanical devices too broad to enumerate here. The products span everything from a hair curling iron to multi-ton rooftop air conditioners.

The household appliance industry divides appliances into three broad categories: 1) Major white-goods such as refrigerators, freezers and ranges. 2) Portable appliances which include kitchen countertop units, home comfort products like air conditioners, fans, alarms, humidifiers and personal care products like hair dryers and electric tooth brushes. 3) Floor care units such as vacuum cleaners, extractors, steamers and central vacuum systems.

That, of course, does not include handheld or stationary power tools, central air conditioners, water heaters, and myriad other electromechanical devices that have penetrated the home and workplace which are also considered “appliances.”

While 23 states presently have electronic waste regulations, it would appear that not many have specifically addressed the recycling of household appliances. Hazardous materials harbored in appliances such as refrigerants and mercury are governed by the United States Environmental Protection Agency (EPA) for collection and disposal.

Appliances generally contain a small fraction, by weight, of what are defined as



Large appliances stand ready to be recycled at Total Reclaim's facility. Currently, Total Reclaim dismantles everything by hand, but they are evaluating new equipment to better handle small appliances.

traditional e-wastes such as cathode ray tubes, flat screens and printed circuit boards. Appliances do have electrical plugs and wires, and some are battery powered. Many have electric motors and are valued by recyclers for laminated steel housing and copper. And the materials they are made of – metals and many plastics – have good scrap market value.

Compared to consumer and IT electronics, however, appliance circuitry is generally simpler and more basic; a switch, perhaps a small circuit board,

wires and a few electronic components. Yet, it is there. And, as appliances become smarter, there will be more of what some consider “e-wastes,” but still not a significant proportion compared to other materials of which they are made.

In the coming years, however, large and small appliances will likely be adding electronic weight. This will occur as more user-friendly features like touchscreen displays, scanners and sensors are added with the emergence of smart-appliances.

Utilities across the country have already installed millions of smart-meters, and more are on the way. Smart-appliances are beginning to enter the market to interface with smart-meters. They will incorporate demand response modules to give consumers, and in many cases utilities, the ability to program or remotely control appliances to reduce electric consumption and take advantage of lower time-of-use rates.

See APPLIANCES, Page 7

California AG files charges against sham e-waste recyclers

Attorney General Edmund G. Brown, Jr. announced criminal charges against the owner and two managers of San Jose-based electronic waste recycler Tung Tai Group, after the company submitted \$1 million in “fraudulent and fictitious” reimbursement claims for more than 2 million pounds of electronic waste that they never recycled.

“Tung Tai Group attempted to collect \$1 million in fraudulent and fictitious state reimbursements for millions

of pounds of electronic waste that didn't exist,” Brown said. “This brazen scheme is a violation of state law and the public trust.”

Two managers, John Chen, of Hillsborough, and Jason Huang of Foster City, were arrested last week and posted bail, set at \$1 million each. The owner, Joseph Chen of Hillsborough, is in China and arrangements are being made for him to return to the United States to be arraigned on the charges.

Together, the men face 17 criminal counts for submitting false documents, attempting to defraud the state, forgery and hazardous waste storage and handling violations. If convicted, the men face a maximum of nine years in prison.

“These arrests show that this department is committed to keeping e-waste out of our landfills and to rooting out those who would defraud our system for private financial gain,” said Maziar Movassaghi, acting director of the

Department of Toxic Substances Control.

Electronic waste recyclers break down televisions, computer monitors, laptop computers and other waste collected from California businesses and households. Recyclers break the waste into various recyclable parts and submit a claim for reimbursement to the Department of Resources Recycling and Recovery (CalRecycle). On average,

See CALIFORNIA AG, Page 6

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A Letter from the Editor

Dear Readers,

Thanks for picking up the October issue of American Recycler. This month we've turned our Focus to the maturing field of electronics recycling, as well as the rapidly growing problem of proper e-waste disposal.

One of the challenges facing those who deal with electronics disposal is that the definition of e-waste is constantly expanding. Traditional e-waste such as printed circuit boards, cathode ray tubes, flat screens and small processors are being found in some very untraditional places, and are no longer confined to the typical electronic sources like computers and electronic media players.

Author Mike Breslin explores some of these issues and how recyclers are addressing them in his Focus Section feature story. Appliances are getting smarter, and so are the recyclers who process them.

Finally, this is likely the last chance I'll have to address the readership of American Recycler before the upcoming November elections. I'd like to take this opportunity to remind everyone that small businesses are the backbone of our industries, and we would all be wise to support those candidates who will support us in turn.

There's been a lot of partisan reporting in the mainstream media, and I think that's a shame. Blind adherence to either extreme of the political spectrum is almost never conducive to the productive exchange of ideas, and an individual's association with one party or another doesn't necessarily make them the wrong person for the job. But one of the limitations of our two-party status-quo is that it tends to cast in black and white those candidates with ideas that more closely resemble some shade of gray.

So while I cannot point you to any specific party or politician in your local elections, please take some time to read up on your candidates and vote appropriately. Because while the economic recession may have "officially" ended, it doesn't necessarily feel that way yet, and we need pro-business politicians (if such a thing exists) who will work with us to get business flowing once again.

I hope you enjoy this month's edition of American Recycler. Have a good month, a happy Halloween, and I'll see you in November.

Thanks for reading,



Dave Fournier
Focus Section Editor
david@americanrecycler.com

Stena debuts LCD screen recycling process

By the year 2015, it is estimated that the EU's need for the recycling of flat screens will have multiplied to a dizzying 827,000 tons per year. The Stena Metall Group is now launching a closed process for handling LCD screens.

"The degree of recycling is high and there are major environmental benefits. Moreover, we are able to move away from manual dismantling," said Staffan Johansson, managing director for GRIAG Glasrecycling, a part of the Stena Metall Group.

In 2008, over 100 million flat screens were sold in Europe. TVs, computer monitors and laptops with LCD, LED or plasma technology have rapidly found a place in European homes. However, there is a lack of recycling processes that are both effective, environmentally sound and that reduce the risks for exposure to mercury for those dismantling the discarded screens.

"We have made great investments in solving the recycling of the rapidly growing mountain of discarded flat screens. We have developed an automated process. The degree of recycling is significantly higher than the requirements that will be set in the future with a tougher WEEE Directive – which states how much of Europe's electronic waste must be recycled," said Staffan Johansson.

In the process, clean fractions of iron, metals, plastics, circuit boards as well as glass with liquid crystal are separated. The closed process is important, not least when it comes to the handling of all the mercury lamps that are a part of an LCD screen.

"It is easy for mercury lamps to break during manual handling; this gives rise to health risks for those carrying out the dismantling. With our sealed and automated process, this risk can be avoided," said Snorre Kolseth, manager of the R&D department within WEEE, in the Stena Metall Group.

Moreover, traditional dismantling requires large space and is time-consuming.

"Today's recycling of electronics is very much about finding new ways to recycle large quantities of electronic waste quickly, complying with the leg-



Mercury exposure is a very real risk that accompanies hand-disassembly of LCD screens. Stena's automation seeks to mitigate that risk.

islation and with clear environmental and health benefits. Our new process for LCD recycling is a good example of this," said Johansson.

ECS Refining establishes ecollective network

ECS Refining, a recycling and end-of-life services company that specializes in electronic, industrial equipment and

hazardous wastes, is introducing an e-waste recycling initiative called ecollective to facilitate a national solution to a growing problem. The ecollective initiative aims to provide a convenient consumer drop-off location within 10 miles of most households in the United States, for recycling of consumer electronics.

For industry stakeholders such as collectors, electronics manufacturers, retailers and city municipalities, ecollective provides clear integration points to help them accomplish their goals, objectives and requirements for their e-waste take-back programs. In those states that have enacted e-waste legislation, ecollective offers a way for industry participants to better collaborate, but it does not require such legislation to provide an effective e-waste recycling framework.

Electronic waste is fast becoming a top priority for the United States. The Environmental Protection Agency (EPA) has just added the disposal of e-waste to a list of the agency's top four environmental priorities, alongside issues such as climate change, air quality and access to clean water. Ecollective aims to implement a national solution to the problem by leveraging existing infrastructure, implementing best practices and employing public outreach and communication.

Ecollective will drive incremental business to partnering e-waste collectors through integrated marketing programs that direct consumers to the ecollective website, where they can locate a local e-waste collector affiliated with the program. All e-waste collected through the ecollective network will go to ECS Refin-

ing facilities, where it will be recycled properly and all data will be securely destroyed, enabling collectors to operate under a national brand that is trusted by consumers.

For manufacturers of consumer electronics, ecollective offers an e-waste recycling program that enables them to achieve regulatory compliance in extended producer responsibility states. The ecollective program can also be tailored to their needs by integrating sales promotions for customers who want to return consumer electronics products to the manufacturer.

Similarly, retailers of consumer electronics and office products are looking for a single, dependable e-waste recycling program to which they can direct their customers, many of whom already are asking what they should do with their electronic products. Ecollective enables retailers to implement a secure e-waste drop-off program that can enhance their existing take-back program.

Ecollective also provides a practical solution for the needs of state, regional and local governments, and other public entities that want to provide their residents with a simple way to responsibly recycle end-of-life electronics.

The ecollective program will initially focus on California, with planned roll-out to other markets with state legislative programs. ECS Refining is currently engaging with state-approved e-waste collectors across California, as well as electronics OEMs, electronics retailers and municipal solid-waste facilities looking to add e-waste collection to their residential refuse pickup.

Upcoming Section B editorial focus topics

ISSUE	CLOSE	FOCUS
NOV	10/18	Paper/Plastics
DEC	11/16	Metals
JAN	01/16	Auto
FEB	02/16	Rubber
MAR	03/17	C&D

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ecoATM draws Coinstar investment

ecoATM's automated kiosks provide recycling and immediate payment for mobile devices

Coinstar, Inc. has announced its investment in ecoATM™, an automated eCycling station that captures, tracks and recycles mobile devices. Investment details were not disclosed.

"Coinstar is continually looking for kiosk concepts that are innovative and compelling," said Gregg Kaplan, president and chief operating officer of Coinstar, Inc. "We believe ecoATM could be a viable business as it provides an easy way for consumers to properly resell and/or recycle the more than \$7 billion in used mobile phones that are annually retired in the United States while creating a sustainable secondary market for these devices."

Founded in 2008, ecoATM currently has pilot kiosks in a limited number of markets and plans to expand in the United States and internationally over the next several years. EcoATM kiosks visually and/or electronically scan used devices such as mobile phones and iPod® devices, to establish their precise value and pay consumers on the spot.

The collected devices are then either sold into worldwide secondary markets or responsibly recycled to reclaim the materials.

"We value Coinstar's expertise and longevity in the automated retail space and are thrilled with their support in the future success of our automated eCycling solution," said Tom Tullie, chief executive officer of ecoATM. "EcoATM delivers convenience and immediate financial incentive to consumers looking to retire used devices and simultaneously creates a new standard of accountability and responsibility for the reuse of electronic devices."

EcoATM was the winner of Coinstar's 2009 'Big Idea' Contest announced at KioskCom (now called Customer Engagement Technology World) in New York last November.



Florida facility earns R2/RIOS certification

AERC Recycling Solutions in Florida has attained R2/RIOS Certification.

The facility, located at 4301 Woodland Park Drive, West Melbourne, Florida is the initial Com-Cycle facility to acquire R2/RIOS Certification.

AERC/Com-Cycle West Melbourne is only the eighth facility in the United States to achieve the Institute of Scrap Recycling Industries, Inc.'s (ISRI) credential as a Certified Electronics Recycler®. This AERC location is one of two certified electronics recycling facilities in Florida.

AERC/Com-Cycle West Melbourne has been audited by Perry Johnson Registrars, Inc., an Accredited Certification Body for R2/RIOS Standards.

The company is also committed to obtaining R2/RIOS Certification for its other electronics processing com-cycle facilities, which are located in Hayward, California; Houston, Texas; Ashland, Virginia; and Allentown, Pennsylvania, by 2011.

Electronic Recyclers International introduces new glass recycling technology

Electronic Recyclers International (ERI), a recycler of electronic waste, has received approval from the State of California to utilize a technology system for the recycling of glass from old televisions, computer monitors and cathode ray tubes (CRTs).

Glass recovery and cleaning has long been a challenge for recyclers of electronics, but ERI's new technology, utilizing a proprietary cleaning system, solves the problem, enabling ERI to clean and process glass on site in a



—John Shegerian

safe and environmentally responsible way.

ERI is the first North American organization to use this glass cleaning technology, developed in Europe. It is already in place at ERI's Fresno, California location and is being installed at all other ERI locations around the country.

John Shegerian, ERI's chairman and CEO, said that ERI has gained the rights to utilize the technology in the United States after researching and evaluating its success in European countries such as Italy, Germany, Scotland and England. The technology is

has broad acceptance in Europe as the standard for glass processing and is now being used in 18 nations there.

A lady was picking through the frozen turkeys at the grocery store, but couldn't find one big enough for her family.

She asked a stock boy, "Excuse me young man, but do these turkeys get any bigger?"

The stock boy replied, "No ma'am, they're dead."

E-recycling firm offers next day pick up service in Florida

Florida E-Waste Recycling has announced their new next business day e-waste collection service. The company will pick up obsolete computers and electronics equipment from commercial and industrial offices and residential curb-side locations throughout the state of Florida, with the exception of the Keys and the Panhandle.

Their goal is to stand out from the competition by providing services to their customers that are not currently being offered in the recycling industry. The general public will no longer have to travel great distances to the nearest recycling center or wait

for a quarterly recycling event to dispose of their e-waste.

According to Mark Sage, managing partner, customers can schedule an on-site pick up of their items for a small fee, or they may drop off items for free at one of the company's GreenSite locations in Central and Northern Florida.

Florida E-Waste Recycling presently has 40 GreenSite drop off locations in Alachua, Hernando, Hillsborough, Pinellas, Polk, Manatee, Marion and Sarasota Counties.

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

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EQUIPMENT SPOTLIGHT

Wire Strippers/Choppers

by MARY M. COX

maryc@americanrecycler.com

Wire and cable recycling involves the extraction of reclaimable copper and aluminum scrap so the resultant clean metal can then be resold and reprocessed. The equipment used in that extraction process must be especially efficient to improve the purity of resulting material. To that effect, many processors have upgraded their equipment to better serve the growing global market demand.

According to processor Jeffrey Mallin of Mallin Brothers Company, "Production has remained constant. This is perceived as a good thing in this sector of the recycling industry. Also, there's stability in the amount of

speed drill, and is suitable for smaller operations that don't require high-volume processing.

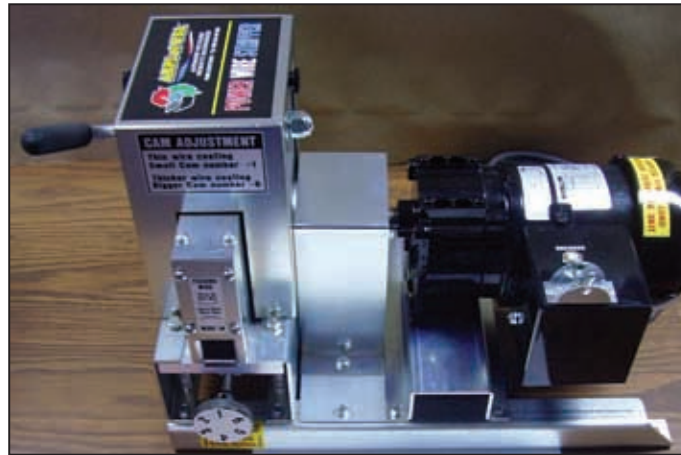
The company's other two models, the COMC and the RES, can process much greater volumes of wire – 3600 and 4200 feet per hour, respectively. All three models will strip the plastic insulation from wire diameters of 1/8" to 1 1/8".

ARPI's machines feature a patented cam design that allows their wire strippers to strip plastic insulation from small strand and solid electrical wire without splintering or shredding the wire, while maintaining the flexibility to also effectively strip much larger wire. ARPI products are employed by recycling centers, demolition companies, electrical contractors and individuals who value the machines' flexibility, utility and made-in-America quality.

Kirk Adkison, sales manager of Strip Technology, described his firm as, "a family-owned and

operated business with 40 years experience in the scrap industry. Our products were created as a response to scrap market demand for reliable, affordable machines."

Strip Technology units are completely manufactured at their Fort Worth, Texas facility, using only American-made parts. Adkison said, "We invite our customers to visit anytime and tour our facility. Just let us know when you'll arrive at the airport, and we'll be happy to give you a ride to our facility. In addition to seeing our operation, we always have one of our products at work in a nearby yard, and we'd be



ARPI of USA

happy to take you there to see that too!"

Adkison went on to explain that due to current copper prices increasing, "we have added employees and our machine and fabrication shops are running almost 24/7. Our current lead times are about 3-4 weeks out, but that varies depending on how work orders flow. Our challenges usually involve educating buyers regarding the proper operation and maintenance of our products. These units are like any machine. They need routine maintenance for optimum performance. Fortunately, our machines are very user-friendly and with our training, they can make premium copper chops in no time."

Triple/S offers complete processing systems for nonferrous wire, cable



Triple/S Dynamics, Inc.

and copper/aluminum radiators. Matt Mayo, application engineer, explained, "Our systems offer the highest separation efficiency and purity combined with return of metal content. The separate components include: pre-choppers, granulators, vibrating screens, gravity separators, stoners, fines

floaters, feeders, conveyors and other material handling equipment. We've been in this market over 35 years and we're a leader in efficient wire processing systems. Our clients are large-volume processors – average capacity on a gross basis is approximately 5,000 pounds per hour."

Mayo noted that competition has increased in the Chinese market and he also said, "Practical complications of lead in plastic insulation has declined, but I believe that is due to blending of different plastic compounds and not the trend of relaxed regulation within the plastic insulation industry over the last 15 years."

Manual strippers represent another portion of the wire-processing market. These machines are much lower in cost than motor-driven models, and as such are attractive to individuals and small electrical contractors getting into wire-stripping for the first time. However, for high-volume stripping, motorized machines will continue to be the gold standard.

Manufacturer List

ARPI of USA
Kim Adams
608-873-8659
www.arpiusa.com

Eldan Recycling A/S
John Crowley
716-731-4900
www.eldan.us

Gensco Equipment, Inc.
Alan Zelunka
800-268-6797
www.genscoequip.com

Strip Technology, Inc.
Kirk Adkison
800-426-4126
www.stripte.com

Triple/S Dynamics, Inc.
Matt Mayo
800-527-2116
www.sssdynamics.com



Strip Technology, Inc.

specialists that chop wire." Mallin noted that one market sector that seems to remain firm is the energy sector. "There is still work being done on the power grid, creating more opportunities for scrap from that sector, as opposed to the housing or construction sectors, which are still hurting. The utilities are starting to scale back on some of their projects though, as stimulus monies begin to wither away," he said.

Mallin believes that equipment manufacturers constantly strive to improve efficiencies in wire chopping and that extracting more metal from wire, more economically and with less maintenance is a uniform idea across most equipment-intensive industries.

Automated Recycling Products, Inc. (ARPI) vice president Kim Adams said that her company offers three models of wire strippers. The smallest, the DRM, is powered by a variable

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Redemtech fights illicit European e-waste exports

Despite laws and international treaties that ban export of electronic waste from Europe to developing countries, recent reports have spotlighted how this illicit trade continues to flow freely and devastate the environment in impoverished nations across Africa and Asia. Redemtech, a specialist in IT asset management and Technology Change Management (TCM), is the first company to achieve e-Stewards® Electronic Recycling Certification in Europe – a key advantage toward helping European Union and multi-national organizations ensure environmental responsibility and legal compliance.

E-Stewards is a globally accredited, third-party audited program developed by the Basel Action Network (BAN), with support from environmental groups and industry leaders. E-Stewards is the first certification standard available in Europe that ensures that recyclers do not deposit toxic e-waste in landfills or export it to the developing world.

E-Stewards certification enforces compliance with European WEEE regulations by demanding a level of accountability and audit control that is unprecedented in the industry.

The Redemtech TCM Centre in Surrey, United Kingdom, is the first e-Stewards-certified facility in Europe – and the first outside the United States. “E-waste is an ongoing problem across Europe, and we are committed to delivering solutions of the highest standard

for our clients, to ensure an efficient, cost-effective approach to essential due diligence,” said Robert Houghton, president of Redemtech.

While the EU has enacted advanced e-waste disposition policies, laws are not always applied evenly across all member countries and full enforcement is not possible, according to Jim Puckett, executive director of BAN.

“Redemtech has been a long-term advocate for globally responsible elec-

tronics recycling and is an e-Stewards Founder,” said Puckett. “With its expanding global presence and focus on reuse of computer equipment, Redemtech enables European enterprises to ensure the highest standards of environmental stewardship.”

Established in Europe in 2002, Redemtech serves large enterprises in a wide range of industries across the United Kingdom and European mainland.

“The e-Stewards standard is consistent with the operating practices we have employed at this facility since its inception,” said Robin Gue, managing director of Redemtech’s European operations. “The certification gives our clients added confidence that their electronic waste is not contributing to the global e-waste problem and is being handled in accordance with all local and international laws.”

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A republican and a democrat were walking down the street when they came to a homeless person.

The republican gave the homeless person his business card and told him come to his business for a job. He then took twenty dollars out of his pocket and gave it to the homeless person.

The democrat was very impressed, and when they came to another homeless person, he decided to help. He walked over to the homeless person and gave him directions to the welfare office. He then reached into the republican's pocket and gave him fifty dollars.

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

Wacom rolls out e-waste take-back program

Wacom® Technology Corp. announced the start of its e-waste take-back program for customers looking to recycle interactive pen display models that are no longer being used or ready to be retired. Wacom customers interested in participating can consult www.wacom.com/ewaste to access recycling data for all 50 states and the District of Columbia.

The site features a shipping label tool whereby customers can print out a UPS label for the nearest recycling center, affix it to a box containing the old equipment and drop it off at a UPS center or satellite office for shipment to the recycling location. The Wacom-sponsored take-back program currently covers the following 10 states: Hawaii, Indiana, Michigan, Missouri, North Carolina, Oklahoma, Texas, Virginia, West Virginia and Wisconsin. Nearly 100 percent of the display materials are recycled and the program is free to all participants.

E-waste legislation has passed in 23 states and sets mandatory manufacturer or

retailer participation in recycling programs as well as a ban on depositing computer monitors and other display types into landfills. Wacom participates through state administered recycling programs in 11 of these states including California, Connecticut, Illinois, Maine, Maryland, Minnesota, New Jersey, Oregon, Rhode Island, Vermont and Washington. New York and South Carolina also recently passed e-waste legislation, but the programs are not yet operational.

Wacom anticipates that e-waste initiatives will continue to gain traction in other states and might one day include recyclable products other than its displays.

A Closer Look

by Donna Currie

Ecoveery, LLC

Joe Szany • 251-272-3630

Ecoveery, in business for less than two years, may be a newcomer in the recycling industry, but its roots run deep. Joe Szany, the director of sales and marketing, has been with the company from its start.

Szany said that he started in the recycling industry in the 1960s and was already retired when he started doing consulting work for the fledgling Ecoveery. It wasn't long before he was officially working for the company. "I didn't like being retired," he said.

His introduction to the recycling industry was his first job after high school, when he started working for a baler manufacturer because it was close enough to walk to work. Over the years, he moved several times, worked for a few different companies, and had his own business for about 10 years, but he was "always in the sales and marketing department."

While at his last employer, he saw an opportunity when working on a project for a customer who wanted to destroy computer hard drives so they would never again be readable. He did some research and presented the idea to his employers, but they had no interest in moving into that field.

However, others were interested, including Ecoveery's founder and some investors. Szany said they saw "the opportunity to take recycling of electronic scrap to a new level," and that was the beginning of the company.

Ecoveery took advantage of tax incentives available for businesses that moved into hurricane-devastated areas, and started building in January of 2009. Equipment was purchased and installed, and by April, the first electronic scrap was processed.

Ecoveery takes "anything that ever had a plug or a battery in it, excluding white goods," according to Szany. That includes toys, home electronics and computer equipment. Some of the material isn't worth much, but the company would rather take it all than to make it complicated for customers.

The company doesn't buy from small peddlers or street traffic, but purchases from scrap dealers who collect the material and send it to Ecoveery. Szany said that many of those same scrap dealers had been consulted when Ecoveery was forming, and those dealers didn't think there were sufficient markets for pulverized and chopped materials, but now those same dealers are regular customers.

Helping the business along is the fact that there are laws in place that restrict the export of electronic scrap and ban the landfilling of electronics. "Demand has been created almost automatically," Szany said.

The processing, in short, is to "grind everything up," but it's a little more complicated than that, with the material being ground into very small pieces and sorted several times to separate each material "into its own commodity," including plastics and a wide range of metals.

Since Szany has always been the "equipment guy" he was very interested in the \$6 million dollars of equipment that Ecoveery uses to process the material that comes in, and the company has become a reseller and distributor of that equipment.

Unlike some businesses that keep their processes hidden from competitors, Ecoveery shows off their equipment and has sold everything from small equipment for auto wreckers to large machines used by the military to destroy old weapons. They're also their own customer, since they recently bought equipment that is so new that it wasn't available when they were setting up the business.

Although the company is young, it's already looking at growth. "We have a 30-acre plant site, and right now we've cleared 10 acres," Szany said. When the company was founded, they expected to be regional, but they are now bringing in material from all over the county.

Future expansion will focus on new materials, as well as new markets. "We now know that we can separate any two materials," Szany said. "It doesn't have to be electronics." An interesting idea is the possibility of re-processing shredder fluff to recover the fines. Szany said that there may be as much as 4 percent metal in the fluff, and most of it would be copper, which would make reprocessing worthwhile.

But the real fun, according to Szany is "the whole phenomenon of looking people in the eye and saying there's an alternative to disposal and a way to make money." He said that he's happy he decided to come out of retirement. "It's a fun place to work for to make a living, and it's good for society, too."

California AG

Continued from Page 1

CalRecycle pays 39 cents per pound of material recycled.

In late 2008, CalRecycle auditors contacted investigators at the Department of Toxic Substances Control after noticing discrepancies in the claims submitted by Tung Tai and the records kept by Golden State Records and Recycling, a company that collected and transferred materials to Tung Tai.

In July 2009, agents searched the Tung Tai facility and discovered two separate sets of records, which provided evidence that the company submitted claims to CalRecycle between January and September 2008 that grossly inflated the number of pounds of recycled material eligible for reimbursement.

For example, one set of records showed that a collector delivered 62,000 pounds of material to Tung Tai, but forms submitted to CalRecycle for reimbursement listed nearly 555,000 pounds. This deception increased the amount Tung Tai sought from the state by more than \$235,000.

In addition, Tung Tai submitted records to CalRecycle listing items that were never delivered to Tung Tai by any approved collector of electronic waste.

The state did not make payments on the falsified and inflated requests for reimbursement, which totaled \$1 million.

This follows a recent May incident in which Brown shut down three recycling fraud rings that smuggled cans and bottles worth more than \$3.5 million in recycling fees into California.

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Appliances

■Continued from Page 1

GE and other manufacturers are already offering smart-appliances. Early entries into the marketplace use separate demand response modules, wireless transceivers which plug into the back of the appliance and work with installed electronics and software, but as the technology advances it will eventually be built-in to the appliances themselves.

In Europe, the Waste Electrical and Electronic Equipment Directive (WEEE) was well intentioned. It imposed the responsibility for the disposal of waste electrical and electronic equipment on product manufacturers, but has been unevenly implemented and led to bickering and a slew of lawsuits.

Governments imposing responsibility was the easy part. Building the infrastructure to collect, transport and recycle materials in an ecologically-friendly manner, pay for it and fairly allocate costs among the participants has proven much more difficult. Return rates as measured by recent studies show that the WEEE system may not be the best approach.

Under a new law that takes effect on April 1, 2011 consumers in British Columbia will be able to return small appliances to municipal collection centers that will be set up around the province, or to as yet undetermined points. In one of the most ambitious programs of its type in North America, small appliances will be collected, transported and processed in an environmentally sound manner. The 2011 deadline is an extension of existing Extended Producer Responsibility (EPR) regulations that applied to electronic products. Details on how small appliances will be exactly handled are still being worked out, and the devil is in the details as WEEE discovered.

A trend appears to have emerged – as current electronics waste regulations spread among the states they may eventually be extended to encompass electrical devices and appliances.

But regulations covering major appliances may not be necessary because American recyclers are already doing an effective job and some municipal recycling programs are recovering large and small appliances with obvious scrap metal value.

A top appliance industry executive long involved with end-of-life appliance issues said, “Most white goods are dealt with very efficiently in the solid waste stream by either retail return programs, municipal recycling programs or entrepreneurs. In the States we believe that there’s about a 90 percent recycle rate for white goods. In Canada, studies have shown that over 95 percent of major appliances enter the recycling stream at end of life.”

An older refrigerator ready for recycling, for instance, yields a fraction of one percent in e-waste, yet it must be handled by a recycler certified to handle hazardous wastes regulated under the Clean Air Act. When accumulated, the scant electronics, motors and plastics yield some value that help offset recycling costs. Recyclers still recover Freon, clean it and recycle for use in older vehicles, but that market is fading away as those vehicles disappear. The primary income to white goods recyclers

comes from selling scrap metal and disposal fees.

Terry Zeien, owner of J.R.’s Advanced Recycling Services, based in Minneapolis, has been recycling appliances in the upper Midwestern states since 1988. “We don’t work with utilities, or manufacturers, mostly private sector and the government. Typically, our customers are everyone in a state. We service households to rental units to anyone dealing in appliances or have an appliance they want to dispose of, including municipal recycling facilities and county agencies.”

As a state certified appliance recycler, J.R.’s collects appliances with its own trucks or customers ship them to its processing facility. “There’s some degree of electronics in most everything nowadays. We do a huge amount of residential from waste haulers and from homes as well. In Minnesota, it typically costs \$30 to pick up one item at a home. You pick it up because that’s part of your job, not just for the scrap, but providing a service to dispose of it in an environmentally sound and legal way.”

When an appliance arrives at J.R.’s, it is evaluated to determine if the unit is new enough to have resale value. “We only refurbish two to three percent of our volume. We have two retail stores, one in Minnesota and one in Iowa, where we repair and put them back on the market. People are looking for better bargains on appliances. If you can buy a washer for \$200 versus \$500, what would you do? We do mostly mechanical repairs and offer a six-month parts and labor warrantee, a strong one. If an appliance lasts six months it usually lasts a long time.”

Appliances to be scrapped at J.R.’s are inspected for refrigerants and other hazardous wastes which are removed. Freon is tapped into cylinders, cleaned and resold. Mercury is recycled and PCBs are disposed of in an environmentally safe way. Motors and compressors go to a metal recycler. Electronic components are shipped out to an e-waste processor. Steel is sent to a local mill where it is shredded and made into rebar for highway construction.

“It’s our private policy that all our recycled metal stays in Minnesota. None is exported. We have tough environmental laws in Minnesota, are certified by state to handle hazardous wastes and inspected heavily by the Minnesota Pollution Control Agency,” said Zeien.

Edward R. Cameron, CEO of Appliance Recycling Centers of America, Inc. (ARCA), said, “We work mostly with electric utilities and manufacturers and have operations in 20 states and in Canada and Mexico. We go any place a utility will sponsor an appliance recovery and recycling program.”

In a typical ARCA-sponsored program, the electric utility offers a cash incentive for customers to turn in an old, working, inefficient refrigerator or freezer. “Utilities advertise to consumers, and in some cases we do, that if they have a working, energy inefficient refrigerator over 10 years old, they can call a number, have it picked up for free and be sent an incentive check ranging from \$25 to \$50 dollars, depending on the specific program.”

ARCA provides a complete service and is considered a partner because they

represent the utility. They operate a call center, schedule the pickups, dispatch trucks, bring the appliance to their recycling center, do the proper recycling of the appliance and send the customer the incentive check. “Then we bill the utility for our services,” Cameron noted.

“Any circuit boards we take out, we send to electronic recyclers. We give them that and they give us some metals, so we like to work with the e-recyclers. In the future, appliances will start being hooked up to the internet. We are also starting to see electronic boards in washers and other major appliances that are using touch screens. I think we are going to see growth in that area.”

“I think most small portable appliances wind up in landfills. I don’t know of any program in the United States that sorts them out of the solid waste stream,” said Rick Meyers, a recycling specialist at the City of Milwaukee Department of Public Works. “We don’t have a recovery program specific to portable appliances. If it’s an item that can be recovered as scrap metal then it’s part of our scrap metal recovery at our collection sites, but otherwise the only appliances we have programs for are the ones that have related regulations, certainly anything with refrigerants.”

“We do have a substantial electronics recycling program that’s been going for ten years. It was always just computer-related electronics until this year’s new Wisconsin law added TVs and other entertainment related items. It doubled our volume. As of September, 2010 there’s a landfill ban on residential computer related and entertainment electronics covered under the bill,” said Meyers.

As in most jurisdictions, Milwaukee does not mention portable appliances in their public information. Aside from curbside collection of cans, bottles and paper, most all small appliances go into the trash and there is no hand sorting in Milwaukee to pull them out.

“The infrastructure is there with the electronics recyclers and they could physically process and market materials from portable appliances, but there’s not much of an economic driver for that and there’s no producer responsibility bill covering those the way there is for electronic waste,” Meyers concluded.

Several e-recyclers were asked about small appliances. Most do not handle or solicit them and turn them away at collection events. Companies like Total Reclaim are taking a more proactive approach.

Over the past decade, Total Reclaim has established a state-of-the-art, high-capacity electronics recycling facilities in Seattle, Washington with satellite operations in Oregon and Alaska. The company offers a variety of environmental services for the management of electronics and other hard-to-handle materials, including fluorescent lamps, refrigerant gases and appliances.

Craig Lorch, co-owner, was asked about the future of small appliance recycling. He said, “I view it as the direction that things are going. If we look at the European Union and Canada with different product stewardship programs there’s a movement towards doing more and more devices. The recently enacted New York law for electronics is more comprehensive than any law before it. No question about it, state regulators and local waste officials are looking at how they can get more material out of their waste stream, how they can reduce toxicity or just make their landfills last longer.”

Total Reclaim is in the process of evaluating new equipment to better handle small appliances and is looking in Europe, Canada and Asia for ideas. Currently they are dismantled by hand. Lorch estimated that small appliances represent from one to two percent of current volume because there are no recycling mandates and few opportunities for substantial collections. “The challenges are huge: mixed or unidentifiable plastics, and the potential for batteries deep in equipment and devices that were never meant to be taken apart.”

Fees for disposal at Total Reclaim vary and depend on volume. They are a drop-off site for the Washington e-waste collection program and receive small quantities of small appliances mixed in with electronic gear. Customers wanting to recycle portable appliances are charged \$.25 to \$.30 per pound depending on the item.

“For small appliances, there’s interest on the side of the waste reduction and recycling advocates that say don’t throw this stuff away, and there’s interest on the part of anti-exporting advocates for materials to be managed domestically. From a resource perspective, there’s only so much copper on the planet and we should be able to do a better job with what we have already mined. There’s a lot of material out there and with some improvements in efficiency a lot of it can be handled,” Lorch concluded.

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2000 SENNEBOGEN 830M

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1990 MOSLEY 330 SHEAR

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2004 JOHN DEERE 200LC MATERIAL HANDLER

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