



Drywall recycling continues despite dip

by MIKE BRESLIN

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Recycling waste drywall was a viable and growing sector until the financial crisis of 2008. Then it immediately declined along with the entire construction and demolition (C&D) industry. However, as landfill restrictions prohibiting drywall increase, it could very well become a booming sector of the recycling industry.

"We're still here despite the drop in construction. Last year we recycled approximately 20,000 tons," said Rick Sauder, project manager for USA Gypsum, headquartered in Lancaster County, Pennsylvania. His company gathers scraps of new drywall from large construction projects around the northeast and converts it into agricultural fertilizer and animal bedding, primarily for the dairy industry.

USA Gypsum does not want demolition drywall. It may contain paint, possibly lead-based paints, asbestos joint compounds, fiberglass, or other contaminants that may test as hazardous waste.

"New and old drywall must be separated before recycling and tested. If contaminated, then it must be treated and disposed of as hazardous waste," said Beatriz Sandoval at the CalRecycle Department of Resources, Recycling and Recovery.

USA Gypsum, in business since 1998, operates modern plants in Pennsyl-

vania that use automated machines that can process up to 12 tons of drywall per hour. "Based on the amount of new drywall shipped into the mid-Atlantic region, I estimate that only five percent of new drywall is actually recycled by the four drywall recycling plants located here," said Terry Weaver, president of USA Gypsum. His company finds that large, new drywall projects yield 18 to 20 percent waste and is very aggressive in acquiring scrap.

They offer several convenient ways for contractors and waste handlers to recycle. "We will do whatever works best for a contractor at a particular job. We have many different options. We set our dumpsters on site. Sometimes we send our crews to provide labor for the drywall crews and we scrap directly into our own trucks. That saves the contractor on labor, hauling costs and tipping fees," said Sauder.

Construction waste haulers can deliver roll-off containers to a job site and bring the loaded containers to USA Gypsum and receive documentation for LEED (Leadership in Energy and Environmental Design) certification.

Contractors can also stack drywall on pallets at the job site. When a trailer load is accumulated, USA Gypsum will pick up with a trailer that can be loaded with a forklift. USA Gypsum also works with a number of transfer stations, recyclers and waste handlers like Waste Man-



Demolition drywall may contain lead based paints, asbestos joint compounds, fiberglass or other contaminants that may test as hazardous waste.

agement to take their drywall. USA asks that drywall be separated and accumulated in a specified location. After a tractor trailer load is accumulated they can ship it to USA Gypsum, or USA Gypsum will pick it up with a trailer.

"At our plant we grind it up, separate the gypsum from the paper into two streams. The gypsum is pulverized and the paper is shredded into one to two inch pieces used for animal bedding," Sauder explained. "There's good demand for animal bedding. It's very absorbent and takes the place of wood shavings or straw."

USA's Gypsum's products come in three forms packed in 40 or 50 pound bags. A granular size can be spread with any fertilizer or lime spreader. Pulverized product is spread with Vicon-type spreaders, or drop and lime spreaders. Ultra-Fine is applied manually. Bag prices range from \$3.95 to \$4.50. It is sold primarily to produce farmers.

Terry Weaver commented on the landfill situation. "I am not factoring in landfill bans into my business plan and don't count on regulations to make my business successful. I believe there are

See GYPSUM RECYCLING, Page 6

Recycling a city – the aftermath of a disaster



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EPA begins cleanup of illegal dump sites as part of I-RID

Illinois Environmental Protection Agency (EPA) director Doug Scott announced that the Agency has begun the cleanup of two illegal dump sites located within Peoria County, one of which is in Hollis Township and the other in Radnor Township.

A contractor worked to remove up to 30 cubic yards of waste from the Hollis Township site and up to 20 cubic yards of waste from the Radnor Township site. The cleanup will involve the removal of general construction or demolition debris, household waste, white goods, furniture and

waste tires, which have been disposed of illegally.

The cleanup was conducted as part of the I-RID (Illinois Removes Illegal Dumps) Program, which continues to remove environmental hazards and protect Illinois' beautiful landscape.

Working with local and county officials to identify candidates for I-RID cleanups, Illinois EPA has cleaned up sites ranging from the tip of Southern Illinois near Cave-in-Rock to rural Central and Eastern Illinois and urban locations in the East St. Louis and Chicago metro areas.

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SWACO adds CNG powered vehicle to fleet



The truck: Peterbilt 320 Chassis, McNeilus 4385 cab and a Cummins ISL-G 320 h.p./2200 rpm engine, a dedicated CNG engine.

The Solid Waste Authority of Central Ohio's (SWACO) Green Energy Center, located in Grove City, Ohio, turns landfill methane gas from decomposing trash into compressed natural gas (CNG) for use in cars and trucks.

SWACO's Franklin County Landfill has been plumbed to harvest the methane as trash breaks down. Using Ohio-developed technology, The Green Energy Center cleans the gas to pipeline quality and then compresses it for vehicle use.

This green fuel has already been put to use in SWACO's fleet. CNG powered Honda Civics, light to medium duty Chevy and Ford pick-up trucks, a packer truck used for recycling collections, and even a riding lawnmower fill up at The Green Energy Center pump. Honda claims that CNG burns 75 percent cleaner in its vehicles.

At full capacity, phase one of the center can produce 250,000 gasoline gallon equivalents of CNG. EPA estimates show that phase one has the same benefits as removing the annual emissions of 6,503 passenger vehicles, sequestering as much carbon annually as 8,070 acres of pine or fir forests, reducing CO₂ emissions equal to 82,577 barrels of oil or reducing CO₂ emissions equal to 4,030,423 gallons of gasoline.

Construction on phase two of the center is expected to begin soon. That portion of the project will be owned and operated by SWACO partner, Firm-Green. When completed, The Green Energy Center will utilize all of the landfill gas available and have a capacity of 5 to 10 million gasoline gallon equivalents. However, gas from phase two could be directed to local utility pipelines.



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Over 600 colleges vie to reduce, reuse and recycle

RecycleMania began in mid January for a 10 week period. Running parallel to the college basketball season, colleges and universities are participating in a competition that increases recycling participation by students and staff, and raises awareness about the significance of waste reduction programs on campuses.

From January 17 through March 27, 607 schools representing 49 states, the District of Columbia and Canada will compete in 8 categories to see who recycles the most on a per capita basis, who produces the least amount of waste and who recycles the largest percentage of their overall waste stream. Colleges and universities choose to participate in either the formal competition which ranks them based on standardized weight measurements, or as part of the less formal "Benchmark" division. In both cases, schools submit weight data for paper, cardboard, cans and bottles, food waste and general trash each week, and are in turn able to see how they measure up against each other in the continuously updated results.

Indeed, RecycleMania is about more than simply winning. It is an opportunity for schools to raise awareness of their campus recycling programs as well as waste reduction and conservation issues in general. And, of course, it's also about simply recycling more. In 2009, 510 participating colleges and universities collected over 69.4 million pounds of recyclables and compostable organics.

\$50,000 in grants awarded in KAB sponsored program

Six Keep America Beautiful (KAB) affiliates were selected from a nationwide field of nearly 40 entries for the Keep America Beautiful/Anheuser-Busch Environmental Grant Program.

The grants awarded \$50,000 in total to programs sponsored by the following KAB affiliates: Keep Casper Beautiful, Casper, Wyoming; Keep Nassau Beautiful, Fernandina Beach, Florida; Keep West Baton Rouge Beautiful, Port Allen, Louisiana; Keep Palm Beach County Beautiful (West Palm Beach, Florida; Keep Pennsylvania Beautiful – Southwest, Greensburg, Pennsylvania and Keep Phoenix Beautiful, Phoenix, Arizona.

The grant applicants were matched up with their local Anheuser-Busch wholesalers to support a variety of environmental programs, including increasing awareness of the need to recycle beverage containers and providing infrastructure to do so.

The grants will help support the following programs:

- Keep Casper Beautiful/Casper Beverage – Platte River Revival Volunteer Day.
- Keep Nassau Beautiful/North Florida Sales – Fernandina Beach Park Recycling Program.
- Keep West Baton Rouge Beautiful/Mockler Beverage Company – Don't

The RecycleMania competition began in 2001 as a challenge between Miami University of Ohio and Ohio University. Today, it is independently owned and governed by the RecycleMania Steering Committee, which is made up of recycling managers from five participating universities.

The 2010 RecycleMania competition is administered by national non-profit KAB in conjunction with the Environmental Protection Agency's WasteWise program. The competition is made possible with the sponsorship support of The Coca-Cola Company, KAB and the American Forest & Paper Association.

RecycleMania has grown to 607 colleges and universities this year, increasing by almost 100 the number of participating schools from 2009. These colleges and universities represent more than five million students, and 1.3 million faculty and staff from 49 states, the District of Columbia and Canada.

The states with the most participants include Pennsylvania (52), Texas (42), Massachusetts (42), California (40) and New York (37). The list of institutions taking part is diverse, ranging from Brigham Young University to Yale University to Labette Community College in Parsons, Kansas. RecycleMania 2010 will include all 12 of the athletic Southeastern Conference universities as well as the 8 campuses that make up the Los Angeles Community College system.

Crawfish Backward, Recycle Forward Program.

• Keep Palm Beach County Beautiful/Brown Distributing Company – Boaters Recycling Program.

• Keep Pennsylvania Beautiful - Southwest Fuhrer Wholesale – Illegal Dump Cleanups in Washington County, Pennsylvania.

• Keep Phoenix Beautiful/Hensley Beverage Company – Special Event Recycling Program.

Earth911 releases results of its 2009 recycling report

Earth911.com, provider of the nation's leading Local Recycling and Disposal Directory, released the results of its 2009 Annual Recycling Report, with electronics such as computers, batteries and televisions leading the way.

"Electronics have always been popular searches on Earth911.com, but with the increased attention these devices have received, this past year was our highest yet," said Corey Lambrecht, president of Earth911. "Also, overall recycling searches increased 12 percent over 2008, as consumers want to know more about how to dispose of these items."

Top 10

products consumers researched in 2009 using Earth911's Database

- 1 **Computers**
- 2 **Batteries**
- 3 **Televisions**
- 4 **Paint**
- 5 **Aluminum Cans**
- 6 **Used Motor Oil**
- 7 **CFLs**
- 8 **Glass**
- 9 **Fluorescent Lamps**
- 10 **Christmas Trees**

Earth911.com also discovered additional insights into recycling and consumer behavior. For example, 40 percent of respondents to a poll conducted on the Earth911.com homepage noted that when they buy a product, the green factor they are most concerned about is its recyclability. Also, 35 percent of Earth911 readers responded that their main challenge to adopting more green practices is money.

Earth911 is able to provide this information through work with its business partners such as Call2Recycle, the American Chemistry Council and Masco Corporation.

The 2009 Annual Recycling Report also details the top 10 states that recycled using Earth911.com, as well as the top stories on the site.



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St. Louis composting facility privatizes operations

The City of St. Louis signed a three-year contract with St. Louis Composting, Inc. to manage and operate the city's 10-acre composting center.

The facility was previously operated by the City's Forestry Division and annually processed an estimated 50,000 cubic yards of green material. The eight full-time city employees who previously worked at the composting site have been re-assigned to other jobs within the division according to Forestry Commissioner Greg Hayes.

"Privatization just made sense," Hayes said. "Antiquated equipment made our operation inefficient. It saved the city from having to invest a significant sum in new specialized machinery. St. Louis Composting is a well-capitalized, accomplished specialist that knows the business inside and out," Hayes added. "Come next spring, residents will have access to a far greater selection of top-quality compost and mulch products at the Company's new retail operation than our division would not have been able to provide."

Under the agreement, the City's Forestry Division will continue to deliver all of its green waste to the site. Additionally, any resident of St. Louis City will be allowed to dispose of five cubic yards of green material free of charge the first Saturday of every month.

"We believe it is feasible to increase processing output in the first year to at least 100,000 cubic yards, effectively doubling the output of previous years"



St. Louis Composting is making improvements to the center throughout the winter months to increase the facility's processing capacity from 50,000 cubic yards in 2009 to more than 100,000 cubic yards.

said Patrick Geraty, president of St. Louis Composting.

Currently, Geraty's workers are focused on processing an estimated 50,000 – 60,000 cubic yards of green material stored on the site. They are also making improvements to a 3,750 square-foot equipment maintenance/warehouse building and to a covered, 200 foot-long loading dock that will be central to the retail operation the company will open next spring.

Geraty said the facility also hopes to begin accepting food waste and other

source-separated organics – a first for metro St. Louis – in early 2010. He said several well-known restaurants and food service operations appear poised to participate in a food waste recycling program.

"Many area restaurateurs have embraced the local food movement, using food produced in the community to feed the community," Geraty said. "By partnering with St. Louis Composting to recycle food waste, the process comes full circle – from garden to table and back again."

Alabama homes get single stream recycling

Through a program offered by Allied Waste Services of Birmingham, Helena, Alabama, residents will receive valuable rewards for recycling with RecycleBank. Allied Waste expects to have 10,000 households enrolled in the program by this summer and possibly expand throughout Shelby County. Helena is the first city in Alabama to offer RecycleBank.

In December, Allied Waste distributed 95 gallon recycling carts to Helena residents and began picking up recyclables in January. The carts are equipped with special tags that connect the address with individual RecycleBank accounts.

The new program also brings with it single-stream recycling, which allows all recyclables to go into one cart with no sorting. Allied Waste accepts plastics 1-3, plastic milk and detergent jugs, steel and aluminum cans, newspaper, cardboard, boxes and paper products.

A police recruit was asked during the exam, "What would you do if you had to arrest your own mother?" His answer: "Call for backup."

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Cities heed call of Cans for Cash

The U.S. Conference of Mayors, Novelis Inc. and Keep America Beautiful, Inc. (KAB) announced the winners in the sixth annual Cans for Cash: City Recycling Challenge at the U.S. Conference of Mayors in Washington, DC. The challenge pits cities of comparable sizes in a competition of creativity and execution, offering monetary awards to the cities that conduct the most innovative campaigns and collect the most aluminum cans. During October 2009, more than 40 cities collected over 125 million used beverage cans.

Novelis is committed to increasing the recycling rate for used aluminum beverage containers in the United States from 54 percent today to 75 percent by 2015," said Jean-Marc Germain, president, Novelis North America. "Each year, Americans still discard over 50 billion aluminum cans which end up in

landfills. Through campaigns such as this, awareness of the importance of recycling is increased and the message is spread that every can recovered is turned back into a new beverage can – saving energy, reducing greenhouse gas emissions, and decreasing the use of natural resources."

The 2009 campaign categories were modified to improve opportunities for smaller-size cities and encourage more innovative campaigns to promote aluminum can recycling.

Winners of the \$5,000 awards for the most aluminum cans recycled are:

First Place: Milwaukee, Wisconsin
Mayor Tom Barrett

Second Place: Mobile, Alabama
Mayor Sam Jones

Third Place: Fontana, California
Mayor Mark Nuami

Fourth Place: Bowling Green, Kentucky
Mayor Elaine Walker

Most Innovative Ideas:

First Place: Irvine, California
Mayor Sukhee Kang

Second Place: Canfield, Ohio
Mayor Bill Kay

Third Place: Wellington, Florida
Mayor Darell Bowen

Most Innovative Ideas for Cities partnering with KAB:

First Place: Montgomery, Alabama
Mayor Todd Strange & Montgomery Clean City Commission

Second Place: LaGrange, Georgia
Mayor Jeff Lukken & Keep Troup Beautiful

Third Place: Angleton, Texas
Mayor Patrick Henry & Keep Angleton Beautiful

Fourth Place: Newport News, Virginia
Mayor Joe Frank & Newport News Public Works Recycling

RecycleBank and Got-Junk? team up

1-800-GOT-JUNK? announced that they have joined forces with RecycleBank, a rewards program that motivates people to recycle. Starting today, this unique partnership allows residents in over 150 Southern New Jersey and Delaware communities to earn RecycleBank Points for proper junk removal. Both companies, committed to promoting responsible green actions, will roll out Phase 2 of this program in April as a national effort to divert from landfill and dispose of waste properly.

1-800-GOT-JUNK? hauls consumers' goods and, wherever possible recycles or donates items to thrift stores and charitable organizations. With service to both residential and commercial markets, truck teams may be spotted hefting old junk from a neighbor's attic, removing leftover items from a commercial storage locker, or clearing renovation debris from a construction site.

Sennebogen opens new American headquarters



Sennebogen is a family-owned business founded in 1952 in Straubing, Germany. Sennebogen LLC is the United States-based subsidiary that supports Sennebogen equipment domestically.

The American headquarters with a new parts and training facility announced by Sennebogen LLC has now opened its doors in Stanley, North Carolina.

Sennebogen manufactures specialized material handling machines used in scrap, recycling, ports, logging and forestry and many other industries.

Sennebogen LLC is the United States-based subsidiary of the Company, established in 2000 to introduce and support Sennebogen equipment throughout America. Its 54,000 sq. ft. facility with 6 bays for shipping and receiving occupies a

secure 32 acre site located about 20 minutes from the City of Charlotte.

The center is designed to accommodate a significant increase in employees as the business achieves expected growth targets.

The site is close to Charlotte Douglas International Airport and is well served for air travel and truck transportation. The facility itself comprises two main areas: one to warehouse replacement parts for distribution to equipment dealers, and one for training dealers' and customers' staff on the operation and maintenance of the equipment.

Nebraska awards \$1.9 million to recycling, litter programs

Nebraska Department of Environmental Quality director Mike Linder announced the awarding of \$1,890,250 in 67 grants for litter cleanup, recycling and public education programs and activities. Funds for the Litter Reduction and Recycling Grant Program are generated from a fee charged to certain manufacturers, wholesalers and retailers of products that commonly contribute to litter.

Trailblazer Resource Conservation & Development was awarded \$23,057 to conduct Household Hazardous Waste Collection Events in seven counties on two consecutive weekends. The events will be done in conjunction with county and community boards, the Little Blue Natural Resources District and the Lower Republican Natural Resources District. These events constitute free and safe disposal methods for unwanted and potentially dangerous material and also reduced the potential for ground or surface water contamination.

Keep Kimball Beautiful was awarded \$27,864 to enable them to continue operation of the recycling program serving the city and county of Kimball. In less than 2 years, the program has resulted in a 63 percent increase in the collection of recyclables. In addition, the funds awarded will pay for a forklift to help in loading materials for shipment to market.

The City of Lincoln was awarded \$21,065 to purchase over 400 Clearstream recycling containers to be used initially at 17 event and sporting competition locations for the Special Olympics to be held in Lincoln in 2010. The events will be promoted as "Litter Free" and "Zero Waste" events. The containers will continue to be used at future events by the participating partners after the Special Olympics have concluded.

For a complete listing of grantees, view this article on www.AmericanRecycler.com.

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Gypsum recycling

■Continued from Page 1

two forces driving the growth of drywall recycling. Even though landfills accept drywall, most prefer not to because of the risk of hydrogen sulfide problems. The other factor is the green building movement and LEED certification."

USA Gypsum earns income on both the incoming scrap and outgoing products. For incoming scrap, it charges fees ranging from \$15 to \$35 per ton depending on quantity and quality of the material. This is considerably less than tipping fees that range from approximately \$55 per ton in Lancaster County to the \$90 per ton range in the Philadelphia area. "We can move everything we can get our hands on. I could double our output in a few years if I had the raw material," Weaver concluded.

There is a paradox in recycling demolition drywall. Who is going to take the time and spend the money to test each piece in a load? That's why today most goes untested into landfills. But things are changing. It has been over 32 years since the United States Consumer Products Safety Commission banned lead paint, so drywall installed after 1978 is likely not contaminated by paint, at least. Recyclers of demolition drywall hedge their liability by saying they do not accept contaminated and rely on the integrity of the provider. Meanwhile, drywall manufacturers are reluctant to use demolition gypsum because of purity concerns.

Chemically, the mineral gypsum is hydrated calcium sulfate ($\text{CaSO}_4 \cdot 2(\text{H}_2\text{O})$), essentially calcium and sulfate but may contain small amounts of other minerals. Gypsum comprises over 90 per-

cent of the weight of a piece of drywall, the balance heavy paper, both useful commodities if they can be recycled economically.

Recovered gypsum can be used in the manufacture of new drywall, in the production of cement and as an ingredient in many commercial products. It is also widely used as a soil amendment to improve drainage and plant growth, as a major ingredient in the production of fertilizers and used as an additive for composting operations.

Unfortunately, most drywall in North America is still disposed in landfills. Challenges to widespread recycling include collection, separation and testing costs, relatively low landfill tipping fees and the need for greater education of potential end users.

Gypsum has many positive agricultural uses because of its chemical composition and because it is dispersed thinly and evenly, but can have negative effects in landfills when deposited in large, concentrated amounts. Most that is dumped in landfills is old and may contain contaminants. New or old, when it gets wet in an environment that lacks oxygen and contains organic matter, the sulfate in the gypsum dissolves in water (about 17 percent of gypsum is sulfate) and if it reaches groundwater, contamination may result.

The other major concern is the conversion of dissolved sulfate into hydrogen sulfide which has the awful stench of rotting eggs, which can be detected for miles even at low levels. It can also irritate the eyes, nose, and throat, cause nausea, fatigue, shortness of breath and chest pain. In high enough doses, it is lethal. The wet and anaerobic conditions of a landfill are the perfect conditions for generating hydrogen sulfide. Since drywall

accounts for approximately 15 percent of C&D waste, this problem is gaining attention of lawmakers and state EPAs along with other C&D disposal issues and is likely to affect future landfill regulations, either with outright bans, higher tipping fees or compulsory recycling.

British Columbia appears to be on the leading edge of North American drywall recycling and portends of what may come in the states. Vancouver, for example, has banned drywall from landfills and it must be taken offsite for recycling or treatment. In 2008, the Regional District of Central Okanagan (RDCO) in British Columbia prohibited landfilling drywall and instituted a C\$145 per metric ton fee, prorated by weight, for taking drywall. "The resident or business pays us to accept the drywall and then we pay a contractor to take it away and recycle it. It's our responsibility to collect a clean product, and to date, we have not had a problem with contamination," said Peter Rotheisler, waste reduction manager for RDCO.

"We get our raw material from new construction and demolition job sites, and RDCO," said Gavin Pheiffer, owner of Okanagan Gypsum Recycling. He started the business of recycling drywall 14 months ago and in 2009 processed 6,000 metric tons. Contractors deliver drywall to his plant and pay him a fee to take it. Otherwise, they would have to haul it to RDCO and pay there. Like USA Gypsum, Okanagan Gypsum's end products are paper animal bedding and granulated gypsum that goes into either new drywall or to fertilizer. "In Canada we also have LEED which is mandated for government construction. Now we are seeing private companies following it. With that kind of drive behind it, it's certainly a growth industry."

In the United States, a number of states are considering strategies that may result in the ban of drywall from landfills. Massachusetts is in the vanguard. At the 4th Annual Environmental Business Council Construction and Materials Regional Summit held in January in Framingham, Massachusetts, Jim McQuade of MassDEP made a presentation that stated: "MassDEP will hold a meeting among interested parties on the advisability of expanding the disposal ban to include gypsum wallboard." MassDEP currently has a draft regulation package under review proposing to ban the disposal of clean gypsum wallboard.

"When we first started to find ways to recycle wallboard, we did it in Massachusetts for that reason," said Al Zucco, USG's director of energy and sustainability.

USG Corporation is a leading producer of gypsum wallboard, joint compound and other products for construction and remodeling. USG recycles its own waste during manufacture and uses 100 percent recycled paper. "USG is currently in the process of developing a national gypsum recycling program. However, we have recycled gypsum on individual basis for particular jobs with various customers," stated Zucco.

"Wallboard is a big, awkward, heavy and a relatively inexpensive product. To put the effort into separating clean wallboard scraps is usually not worth the labor because it may get mixed with foreign materials. "We have tight engineering specs on the gypsum we use and have to make sure what we get in recycled meets our standards for purity and safety," Zucco added.



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ALTERNATIVE ENERGY

Massachusetts energy company finds solar site

Western Massachusetts Electric Company has announced its plan to develop the first of several large-scale solar energy facilities. The selected site on Silver Lake Boulevard combines two parcels of land owned by WMECo and the Pittsfield Economic Development Authority (PEDA) at the William Stanley Business Park. The 8-acre site will accommodate up to 1.8 megawatts (MW) of solar capacity.

WMECo officials joined local officials and PEDA representatives in announcing the agreement to combine these brownfield properties into one of the largest solar facilities in New England.

Chosen site will accommodate up to 1.8 megawatts of solar capacity

The Commonwealth has a goal to install 250 MW of solar by 2017. Under the landmark Green Communities Act, each Massachusetts electric utility may own up to 50 MW of solar generation, subject to approval by the Department of Public Utilities.

WMECo is the first utility to receive DPU approval and is currently authorized to install 6 MW of solar. The Company's solar program reflects a close collaboration with the Attorney General's office and other key Massachusetts and industry stakeholders.

WMECo's Silver Lake Boulevard project combines a six-acre parcel owned by the utility and a two-acre parcel in the William Stanley Business Park. A WMECo substation is situated between the two parcels, providing an efficient connection to the utility's local distribution system.

Large-scale solar energy facilities are still relatively new to Massachusetts and New England. Approximately 10 MW of solar generation is currently on-line in the Commonwealth. Comprised of approximately 1,100 individual photovoltaic systems, the largest one is approximately 500 kilowatts (0.5 MW). WMECo's first solar project can be as large as 1.8 MW and the Company expects it to cost considerably less than existing photovoltaic systems.

The project will bring \$10-12 million of construction to the region and is expected to contribute more than \$200,000 of annual property tax revenue to the city of Pittsfield. Pittsfield is one of the two Gateway Communities in WMECo's service territory and is home to some 24,000 WMECo customers.

A wizard worked in a factory. Things were great except that folks, taking advantage of him, would steal his parking spot. This kept up until he put up a sign: "This parking space belongs to Wizard. Violators will be toad."

Local permitting for the project is underway and WMECo expects to begin construction in the second quarter of this year. The Company continues to evaluate other sites for the remaining scope of its 6 MW solar program.

WMECo's solar program focuses on larger-scale facilities (1 MW or greater), emphasizing landfill, brown-field and utility-owned properties as ideal locations. Such properties typically have few alternative uses and are very compatible with the construction of solar energy facilities. WMECo also seeks to develop the market for larger-scale solar facilities – the Company's program makes extensive use of competitive bidding and relies heavily on the expertise of the solar industry.

WMECo has currently qualified 16 solar firms to bid on its projects. The Company is also evaluating 25 sites owned by municipalities and private developers located in WMECo's service territory. The Company expects to draw upon these prospective sites as it develops additional projects during 2010. WMECo will complete the remainder of its 6 MW program by 2012.

Uncertain EPA regulation causes Georgia Power to delay biomass conversion

With the uncertainty of how future United States Environmental Protection Agency (EPA) regulations might affect industrial boiler emissions, Georgia Power has decided to delay the conversion of coal-fueled Plant Mitchell in Albany, Georgia to biomass until the EPA rules are better defined in April 2010.

The anticipated industrial boiler Maximum Achievable Control Technology rule, or "IB MACT," would regulate emissions of hazardous air pollutants, such as certain acid gases, organics, metals, and possibly other pollutants, from industrial boilers and would likely affect biomass boilers like the one planned for Plant Mitchell.

"Georgia Power is committed to furthering the development of renewable energy in Georgia," said Jeff Burleson, Georgia Power's director of Resource Policy and Planning. "We're disappointed to have to delay this large biomass project and the benefits it can deliver. However, by delaying capital

spending on the project we're significantly reducing the cost risk to customers."

Georgia Power had originally planned to begin retrofit construction at Plant Mitchell in April 2011 with the unit becoming operational in June 2012. A new project schedule has yet to be determined.

Once the new EPA rules are better defined, Georgia Power will evaluate the potential impact they might have on the conversion project at Plant Mitchell. The Company plans to study other boiler technologies in the event the rules significantly impact the cost of the biomass boiler conversion currently planned for the plant.

Upon conversion, Plant Mitchell will have lower emissions and will be one of the largest wood biomass plants in the United States. It will also have lower fuel and operating costs when compared to continued operation using coal, thereby making the plant more cost-effective for customers.

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ON TOPIC — Q & A

by Irwin Rapoport

Gypsum drywall is a common construction material – a staple of the industry – that can be recycled and should be diverted from C&D landfills. While some recycling does occur, those involved in this sector of the industry want to see it expand across the United States.

American Recycler recently put several questions to Terry Weaver, the owner of Reinholds, Pennsylvania-based USA Gypsum.



—Terry Weaver

Has the amount of gypsum being diverted, collected and processed for recycling increased over the past five years? If so, why is that the case?

Weaver: Yes. I believe that the Green Building movement (primarily LEED) is the key.

According to the United States Geological Survey (USGS) shipments of new drywall to the Mid-Atlantic Region (New Jersey, New York and Pennsylvania) during 2008 were 2.8 million tons. Based on our experience we believe 20 percent or 560,000 tons were wasted. Based on our production and representations by our competitors the amount recycled in this region is approximately 35,000 tons or 6.25 percent.

Why is it important to divert gypsum from landfills? Are the various levels of government aware of its value as a recyclable?

Weaver: Landfills in our region do not want it because of sulfate problems in both air and water. When gypsum is deprived of oxygen in the presence of moisture and organic materials the sulfate can be released in the form of hydrogen sulfide which has a very noticeable odor similar to rotten eggs. Hydrogen sulfide gas is very corrosive and is a problem for landfill gas collections systems. In addition, dissolved sulfates may find its way into the leachate system of the landfill.

What are the major uses of recycled gypsum? Is there an adequate supply of material available to ensure a constant flow of feedstock to recyclers?

Weaver: For USA Gypsum the markets are agricultural, both as a soil amendment and as animal bedding. Drywall is a difficult material to process. Dust is the major issue and adding water for dust control causes the material to become sticky and difficult to handle. We have experienced a steady increase from 1998 until 2008 and 2009 which have been steady in spite of the drop in construction.

Who are key purchasers of recycled gypsum products? Are the various markets expanding and historically speaking, has it been difficult to create markets for this material? Have green credit systems been developed in some states to increase sales?

Weaver: Our customers are farmers and their suppliers. Gypsum is directly land applied and used as animal bedding primarily for dairy cows. For new recyclers it could be cement or wallboard manufacturers. In the northeast United States, synthetic gypsum is flooding the market and gypsum prices are close to \$0. We have not seen “green credits” from

Pennsylvania or surrounding states. However, cities and municipalities such as Philadelphia have passed ordinances that require LEED status for government projects.

Is there anything that the federal, state and local governments can do in terms of legislation, incentives and tax breaks to promote the diversion of gypsum from landfills?

Weaver: There have been discussions at the State and Federal level about incentives for recycling gypsum. The discussions have ranged from bans to incentives. However, I don't see anything happening in the short term as most states are in budget crises. Both the EPA and area states have been supportive of our efforts. However that has not extended to grants or financial support.

What role does the United States Environmental Protection Agency and its state counterparts play in helping to promote the recycling of gypsum? What role does the construction industry play and is it in their interest to support recycling initiatives?

Weaver: At this point I believe that gypsum recycling is under the radar as the EPA considers regulating “Coal Combustion Products,” which could include synthetic gypsum used in wallboard as hazardous waste, states in the northeast consider the impact such a ruling would have. New end markets we have approached have declined to consider recycled gypsum until this issue is resolved.

Is it an expensive investment for C&D recycling centers that do not process gypsum to establish such operations? What type of support and information is available to those interested in adding gypsum recycling to their operations?

Weaver: Most of the C&D recyclers do not generate the volume to justify the capital cost to recycle drywall. I estimate minimum capital costs to be \$1 million. Commercial machines to recycle drywall are available from Andela Products in Richfield Springs, New York.

Where do you see the gypsum recycling industry and the markets for these products in the next five years?

Weaver: We believe that drywall recycling will continue to grow pushed by the Green Building movement and led by landfills that do not want the drywall and cost avoidance (economic) incentives. As the C&D recycling industry diverts other materials such as metal, wood and cardboard for which markets are established it is a natural next step to separate the drywall if there is a market and they can lower costs by doing so.

ALTERNATIVE ENERGY

Blue Lithium engages Boart for Clayton Valley Lithium Drill

Black Hawk Exploration, Inc.'s wholly owned subsidiary, Blue Lithium Energy Corp., announced that it has engaged Boart Longyear Limited (Boart) to commence its Clayton Valley Lithium drill program.

Blue Lithium previously received an affirmative decision from the United States Department of Interior, Bureau of Land Management (BLM), Tonopah, Nevada for its Clayton Valley, Nye County lithium exploration. A financial guarantee bond was required and has been duly submitted and accepted by the BLM, Branch of Minerals Adjudication to warranty complete reclamation of any environmental disturbance to the drill area and keep within Black Hawk Exploration's corporate “Green Policy.”

The Bureau of Land Management determination notice will remain in effect for two years from the date of the Blue Lithium Energy approval decision. The original Notice of Drill Exploration was filed by Blue Lithium Energy in late November, 2009 and the engagement of Boart Longyear will allow management to fast track its drill program and confirm the Lithium brine levels at the Clayton Valley, Nevada claims.

N-Viro submits permit application for pilot facility in Pennsylvania

N-Viro International Corporation (N-Viro), an environmental and materials operating company, has submitted permit applications with the Commonwealth of Pennsylvania Department of Environmental Protection, for a pilot facility capable of producing an appropriate amount of N-Viro Fuel to carry out necessary testing at various power generators.

Once approved by the Commonwealth of Pennsylvania, N-Viro intends to be in production of the N-Viro Fuel product and conduct other scheduled test burn demonstrations. These tests will require the utilization of local supplies of biosolids from municipal wastewater treatment facilities. The Company expects to receive permit approval and begin production during the first half of this year.

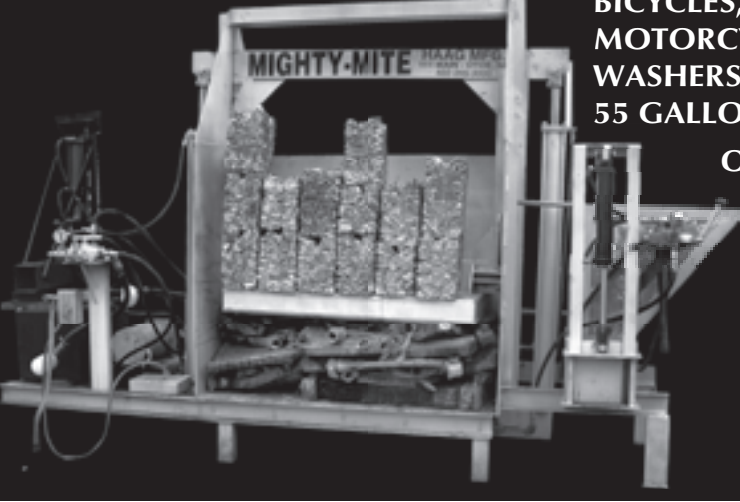
The portable pilot facility will be capable of demonstrating a full-scale production of N-Viro Fuel. The Company expects to make use of this pilot for several test burn applications where N-Viro Fuel can be blended with coal, waste coal and even biomass types of fuel. Additionally, this plant will further validate the N-Viro Fuel technology and provide valuable analytical data for future and developing projects.

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Republic Services transfers ownership of landfill covers

In a move to continue development of solar landfill cover technology for the solid waste industry, Republic Services Inc. transferred the ownership of its solar landfill cover technology to Carlisle Energy Services, Inc., a wholly owned subsidiary of Carlisle Construction Materials Incorporated (CCM) and a Pennsylvania-based solar systems provider.

"Our core business is managing society's waste," said Brian Bales executive vice president of business development, Republic. "We best serve our customers and shareholders by focusing on that mission while supporting continued technological advances for the solid waste industry. Our alliance with Carlisle will enable them to further develop and market this technology."

In April 2009, Republic combined a first-of-its-kind solar cover technology with an existing gas-to-energy system to turn its Tessman Road Landfill in San Antonio, Texas into a sustainable energy

park. The solar energy cap covers a portion of the closed area of the landfill with flexible, laminate-type photovoltaic solar collection strips that are adhered directly to synthetic geomembrane. The solar strips convert sunlight directly into electricity and complement the amount of renewable energy provided by the landfill.

"The industry has struggled for years with beneficial uses of landfill caps," said Brian Bales, "This solar cap is an innovation that allows us to realize considerable benefit for the landfill and generates clean, renewable energy. Geomembrane covers are already in use across the country, but Republic is the first to integrate flexible solar cell technology to create an energy-producing cover system."

Republic is planning to place a solar cap on a portion of its Hickory Ridge landfill in Conley, Georgia in 2010. The technology will be implemented at other company landfills where appropriate.

Louisiana DEQ conducts pilot program for E&P waste

The Louisiana Department of Environmental Quality (DEQ) is conducting a pilot program to allow exploration and production waste, also known as E&P waste, to be disposed of at three Type I landfills which are designed to accept industrial solid waste. E&P waste is waste that is produced during oil and natural gas exploration and production. It includes drilling mud and waste derived from cleaning up oil spills.

Louisiana regulations state that E&P waste may be disposed of at facilities approved by the Department of Natural Resources or at a facility designated by DEQ. In July, DEQ issued administrative orders on consent allowing three facilities that are currently permitted to accept industrial solid waste to temporarily accept E&P waste. Those landfills are Riverbush in Jefferson Parish and CWI-White Oaks in Ouachita Parish, and LaSalle/Grant in LaSalle Parish.

All landfills in Louisiana which are permitted to accept industrial solid waste

have liners, groundwater monitoring systems and leachate collection systems. The permits for these facilities have testing parameters in place to monitor the leachate, groundwater and surface water. The AOCs require additional parameters to be monitored.

Prior to the orders, no landfills in Louisiana were allowed to accept E&P waste. However, DEQ is allowing the three Type I landfills to accept the industrial solid waste because of the increased oil and gas production in the state, the proximity of landfills capable to accept industrial solid waste and the environmental regulations placed upon these landfills.

Under state regulations, E&P waste is under the jurisdiction of the Department of Natural Resources. However, the Department of Natural Resources regulations provide for the option to dispose of E&P waste in a DEQ-approved landfill. Once E&P waste is disposed in a DEQ-regulated landfill, it becomes subject to DEQ's solid waste regulations.

Environmental Logistics to expand Apex Landfill, raise tonnage limits

Environmental Logistics Services, Inc. (ELS) has received their final permit approvals from the Ohio Environmental Protection Agency (EPA) for the expansion of their Apex Landfill located in eastern Ohio. The expansion will increase the vertical capacity of the landfill while also extending the site life of the solid waste management facility for several years. Additional daily tonnage limits will be increased to 7,500 tons per day from a current 5,250 tons per day while volumes of construction and demolition waste delivered to the

site will not count towards daily permit limits.

The management team has pursued an aggressive strategy of vertical integration using several transfer stations acquired in the New Jersey and New York Metropolitan market to feed their landfill in Ohio.

ELS is currently engineering and will shortly submit plans to build a green energy power plant at the site that will use methane gas from the landfill to create renewable power for 16,500 homes locally.

Michigan decreased solid waste volumes in 2009

The Report of Solid Waste Landfilled in Michigan for fiscal year (FY) 2009 was released by the Department of Environmental Quality (DEQ) and showed that Michigan landfills disposed of 47,837,680 cubic yards of solid waste in FY 2009.

Waste disposed of decreased by 5,284,953 cubic yards, about 13 percent, to 34,751,326 cubic yards, and waste imported from other states and Canada also decreased this FY by 4,119,906 cubic yards, approximately 24 percent, to 13,086,354 cubic yards. Imported waste made up 27 percent of all waste disposed of in Michigan, down from 30 percent the prior year.

The largest source of waste imports into Michigan continues to be from Canada, equaling about 19 percent of all waste disposed of in Michigan landfills. In FY 2009, 9,054,371 cubic yards were received from Canada, a decrease from FY 2008 of about 16 percent.

Michigan's \$.21 per ton fee is the lowest in the Great Lakes region.

Based on the capacity used during FY 2009, the reduction of waste disposed, and additional permitted landfill capacity, it is estimated that Michigan landfills have approximately 25 years of remaining disposal capacity.

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PAPER

Recovered paper usage predicted to surge by 2014

China will generate the majority of the growth in recovered paper demand over the next five years, and while governments and papermakers attempt to boost domestic recovery of paper in China, this will not meet forecast demand as much is used for packaging goods which then leave the country.

China will generate the majority of the growth in recovered paper demand over the next five years

The fifth edition of Outlook for Global Recovered Paper Markets, published by RISI, an information provider for the global forest products industry, provides the current and forecast developments in recovered paper markets around the world.

International trade in recovered paper will continue to boom and Asian papermakers will search worldwide for

new supplies as recovery rates are tested in the developed world.

The report reveals India's growing demand for imported recovered paper, and new to this edition of this report are pulp and recovered paper demand and trade for over one hundred countries.

The report details usage, recovery rates, trade balances and price forecasts until 2014.

The study team leader, Rod Young, who has been analyzing the fiber and paper markets for over thirty years, predicts "that the supply side of the recovered paper market will see a lot of activity in the upcoming five years. Rising prices for recovered paper, along with huge increases in demand, would imply that larger companies will both be needed and interested in the supply side of this market." He continued, "Mergers and acquisitions should be an active field in this industry." Leading users and suppliers of recovered paper globally and by region are covered in the final chapter of the study.

Rod Young is supported on the study team with Bill Moore and Esko Uutela, the founding author of the study with EU Consulting, and RISI Economists Kurt Schaefer, Hannah Zhao and Levi Li.

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

Biomass Report details new draft rules for BCAP Program

The Wood Biomass Market Report commented that new "draft" rules announced by the Farm Services Agency for the Biomass Crop Assistance Program (BCAP) come closer to providing assurances that wood for higher-value products will not be diverted for use as biomass. The Report, published monthly by RISI, the leading information provider for the global forest products industry, has reported since the program's inception last year on the concern among traditional forest products players that BCAP would drive up prices for composite panel furnish, OSB raw material, pulpwood and even some low-grade sawlogs.

The Report also stated that payments made through the BCAP program are just now flowing to the market in earnest from a \$517 million allocation that is good through March 31, 2010. While these payments do not appear to have had adverse effects to date on pulp

and panel producers, this is due almost solely to market conditions and should not be a signal as to the true effect the BCAP program could have if new rules are not enacted.

William Perritt, executive editor of the Wood Biomass Market Report, said, "It appears the FSA is finding a deeper understanding of the possibly damaging cross-currents BCAP may have in wood markets. The recent draft rule at least makes an attempt to establish a wall between true wood biomass and the fiber sources more suited to higher and better use at both wood-based panel and pulp mills."

RISI has also recently published a study on wood biomass policies in the United States and Europe entitled 2010 Wood Biomass Policy Review.

For a direct link to this report, view this article on www.AmericanRecycler.com.

Metso to convert Domtar's fine paper machine to fluff pulp

Metso has been contracted by Domtar Corporation to rebuild their fine paper machine at their Plymouth, North Carolina, mill for fluff pulp production. The rebuild project will be completed in the fourth quarter of 2010. The value of the order will not be disclosed.

The existing fine paper machine will be rebuilt and converted to fluff pulp production. Metso's delivery will include a new wet end and a rebuild of the finishing equipment needed for fluff pulp production.

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Catalyst idles paper machine, de-inking plant

Catalyst Paper announced that its Crofton No. 1 paper machine will be curtailed indefinitely due to weak newsprint and directory paper demand. The machine, which produces 140,000 tons of commodity grades on an annualized basis, was temporarily idled.

In a related move, the company's paper recycling facility in Coquitlam, which supplies the Crofton paper machines with de-inked pulp, will be indefinitely shutdown in mid-February. Approximately 70 employees – 36 at Crofton – will be laid off as a result of these curtailments.

"There was a steep decline in market demand for the products made at our Crofton paper mill in the past year and the consumption outlook for these commodity grades remains weak. Reduced recycled pulp requirements, combined with the higher cost and constrained availability of quality recovered paper are contributing factors in our decision to indefinitely close our paper recycling facility," said Richard Garneau, president and chief executive officer.

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Time extension secured for Cash for Clunkers crushing

The National Highway and Traffic Safety Administration (NHTSA) has issued its final ruling which allows automotive recyclers an additional 90 days, for a total of 270 days, to crush or shred vehicles traded in under the Consumer Assistance to Recycle and Save (CARS) program. The final rule amends regulations implementing the CARS program – also known as “Cash for Clunkers” – initially published on July 29, 2009.

The Automotive Recyclers Association's (ARA) executive vice president Michael E. Wilson commented, “By providing the consumer increased access to economical green recycled automotive parts harvested from vehicles that were traded in under the program, consumers will benefit along with the businesses that sell those parts. Without this extension, some cars with quality parts might have been crushed in order to meet the original deadline.”

The NHTSA final rule states that “the additional time will allow the public to benefit from the availability of lower cost used vehicle parts from vehicles traded in under the (CARS) program and will provide disposal facilities with an opportunity to derive more revenue from those vehicles prior to crushing or shredding.”

NHTSA initiated an official agency proposed rulemaking on November 27, 2009, that lasted 20 days to allow for public comments. ARA, along with many members, offered the Agency overwhelming support for the extension.

By extending the consumer program, three times as many cars were traded in than were expected, almost 700,000 in all, but the disposal period remained the same. This ruling now offers automotive recyclers more time to process the cars, which in turn keeps more recycled parts available to the consumer, as well.

FAA/EPA to close Alaskan vehicle waste disposal wells

The Federal Aviation Administration (FAA) has pledged to permanently close over two dozen motor vehicle waste disposal wells in Alaska. The FAA action resulted from an administrative order on consent issued by the United States Environmental Protection Agency (EPA).

The FAA Alaska Region has committed to closing the wells, known as injection wells, by 2012. The injection wells, built mainly in the 1940s and 1950s and located across the state, were used by FAA to dispose of fluids collected through maintenance facility floor drains. Disposed fluids likely included motor vehicle waste such as engine oil, brake fluid, fuel, cleaning solvents and other materials. FAA has not used the injection wells for motor vehicle waste in years.

He who feels that he is too small to make a difference has never been bitten by a mosquito.

Under the Safe Drinking Water Act, EPA banned this category of wells in 1999 and required their closure in Alaska by 2005. Motor vehicle waste disposal wells can contaminate underground sources of drinking water. Since FAA self-identified its wells to EPA in 1996, it has already closed half its inventory and has been actively working to close the rest of its injection wells to comply with the law.

Underground injection wells are often used in areas where sewage treatment facilities are not available. When an injection well is used for fluid disposal, it is important to ensure that no harmful substances that could endanger drinking water sources are injected.

FAA entered into the order voluntarily and is working with EPA to document the well closures.



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METALS

Industry is successfully responding to thefts

Several recent examples of the cooperation between the scrap recycling industry and law enforcement on materials thefts demonstrate how this type of cooperation is paying real dividends by recovering the stolen materials and helping catch the criminals.

Det. Ronald Selleck of the Livonia, Michigan Police Department reported that three out of four ScrapTheftAlert.com (STA) alerts he initiated have resulted in recovered property and felony warrants. Some examples include:

Renu Recycling alerted police that they had recently purchased stainless steel listed in an alert has having been stolen. Police recovered the metal and were able, based on records maintained by Renu Recycling, to obtain a felony warrant for the seller of the stolen metal.

Police were notified by H&H Metal that they had purchased a zinc casting that had been reported stolen on ScrapTheftAlert.com. Police recovered the stolen property and were able to obtain a felony warrant for the seller of the stolen zinc.

"I have submitted four items to your ScrapTheftAlert.com site, and have recovered three out of four stolen properties," Selleck reported.

Georgia Power corporate security investigator Jason Tutterow recently wrote, "I would like to thank Ali Hailston and the rest of the Southern Metals Recycling team in Savannah, Georgia. Due to their quick thinking and assistance, Southern Metals Recycling notified Georgia Power about some suspicious wire that was brought into their facility. The wire was taken from the Georgia Power Headquarters in Savannah the day prior. All records and pertinent information on the suspect was collected by Southern Metals Recycling resulting in a theft case being solved."

Dr. Mike Biddle, president and founder of MBA Polymers of Richmond, California, reported that his company used the ScrapTheftAlert.com system after five air conditioning units on top of his factory were ripped open for the copper inside. After reporting the crime on the STA system, the thieves were caught.

"We didn't get our money back, but let's hope we put these thieves out of commission for a good amount of time."

Metso to buy back 300,000 shares

The board of directors of Metso Corporation has decided, in accordance with the authorization granted by the annual general meeting held in March 2009, to repurchase a maximum number of 300,000 of the Company's own shares, which corresponds to about 0.2 percent of all the outstanding shares of Metso. The shares shall be repurchased as part of the Company's incentive program, *i.e.*, Metso Share Ownership Plans, to be used as potential reward payments in accordance with the plan criteria.

The shares will be purchased with the Company's distributable funds and thus the repurchases will reduce the Company's distributable non-restricted equity. Shares will be purchased at market price in public trading on the NASDAQ OMX in Helsinki Exchange.



Scrap Metals
MarketWatch



Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$310.00	\$260.00	\$290.00	\$270.00	\$390.00
#1 Bundles	per gross ton	310.00	260.00	289.00	270.00	380.00
Plate and Structural	per gross ton	315.00	255.00	290.00	295.00	330.00
#1 & 2 Mixed Steel	per gross ton	300.00	260.00	295.00	290.00	310.00
Shredder Bundles (tin)	per gross ton	255.00	245.00	247.00	200.00	248.00
Crushed Auto Bodies	per gross ton	255.00	245.00	247.00	200.00	248.00
Steel Turnings	per pound	90.00	100.00	115.00	110.00	240.00
#1 Copper	per pound	2.90	3.00	3.02	2.75	3.00
#2 Copper	per pound	2.78	2.85	2.91	2.61	2.92
Aluminum Cans	per pound	.68	.60	.64	.69	.70
Auto Radiators	per pound	1.85	1.58	1.65	1.75	1.89
Aluminum Core Radiators	per pound	.60	.58	.60	.60	.63
Heater Cores	per pound	1.10	1.05	1.35	1.50	1.62
Stainless Steel	per pound	.80	.70	.79	.75	.82

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

DISCLAIMER: American Recycler (AR) collects pricing and other information from experienced buyers, sellers and facilitators of scrap metal transactions throughout the industry. All figures are believed to be reliable and represent approximate pricing based on information obtained by AR (if applicable) prior to publication. Factors such as grades, quality, volumes and other considerations will invariably affect actual transaction prices. Figures shown may not be consistent with pricing for commodities associated with a futures market. While the objective is to provide credible information, there is always a chance for human error or unforeseen circumstances leading to error or omission. As such, AR is not responsible for the accuracy or completeness of the information provided, or for outcomes arising from use of this information. American Recycler disclaims any liability to any person or entity for loss or damage resulting from errors or omissions, including those resulting from negligence of AR, its employees, agents or other representatives.

Alcoa revenues up 18 percent in 2009, but still not profitable

Alcoa announced it finished its fourth quarter 2009 free cash flow positive, the first such quarterly achievement since the second quarter of 2008 when the economic downturn began to impact results. The Company is ahead of its key financial goals for 2009, including being free cash flow neutral by the end of the year. In the fourth quarter of 2009, Alcoa generated free cash flow of \$761 million, a \$947 million improvement from the third quarter of 2009 driven by strong cash from operations performance of \$1.1 billion, a \$940 million increase from the third quarter of 2009. The Company also surpassed targets for each of its Cash Sustainability Program initiatives in 2009, a major contributor to the strong cash performance.

The fourth quarter of 2009 showed a loss from continuing operations of \$266 million, or \$0.27 per share. The results include net charges for restructuring, special items and discrete tax items of \$275 million, or \$0.28 per share. The third quarter of 2009 had income from continuing operations of \$73 million, or \$0.07 per share. The fourth quarter of 2008 showed a loss from continuing operations of \$929 million, or \$1.16 per share.

Net income for the fourth quarter 2009 was a loss of \$277 million, or \$0.28 per share. Net income for the third quarter 2009 was \$77 million, or \$0.08 per share, and net income for the fourth quarter of 2008 was a loss of \$1.19 billion, or \$1.49 per share.

Revenues for the fourth quarter 2009 were \$5.4 billion, an 18 percent increase from the third quarter of 2009. Revenues in the fourth quarter 2008 were \$5.7 billion.

The Company reduced overhead by \$412 million, more than 200 percent of the 2009 target. Procurement spending was reduced by \$2 billion in 2009, \$500 million above the target for the year. Reductions in working capital generated more than \$1.3 billion in cash or more than \$500 million above the 2009 target of \$800 million.

Cash from operations in the quarter was \$1.1 billion compared with \$184 million in the third quarter of 2009 and \$608 million in the fourth quarter of 2008. The Company finished the fourth quarter of 2009 with \$1.5 billion of cash on hand. The Company's debt-to-capital ratio stood at 38.6 percent at the end of the quarter, a 390 basis point improvement from a year ago. During the year, Alcoa reduced its total debt by \$759 million from the end of 2008.

For the full year 2009, revenues were \$18.4 billion, compared to \$26.9 billion in 2008. Income from continuing operations for 2009 showed a loss of \$985 million, or \$1.06 per share, compared with income of \$229 million, or \$0.27 per share, in 2008. The full year 2009 showed a net loss of \$1.15 billion, or \$1.23 per share, compared to a net loss of \$74 million, or \$0.10 per share, in 2008.

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AK8000	50-55 transmissions	3,000-3,200 lbs.
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METALS

Finished steel imports up 11 percent in December

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the United States imported a total of 1,396,000 net tons (NT) of steel in December 2009, including 1,119,000 NT of finished steel (up 1 percent and 11 percent, respectively, vs. November

final data). Total and finished steel imports for full year 2009 were 16.2 and 14.2 million NT, respectively, down 49 and 45 percent vs. 2008. In a domestic steel market that remains severely depressed, finished steel import market share was an estimated 17 percent in December and an estimated 22 percent for the year as a whole – down only slightly from 2008 (24 percent) and the same as in 2007.

Key finished steel products with increases in December 2009 compared to November include wire rods (52 percent), hot rolled bars (39 percent), cut length plates (32 percent), oil country goods (24 percent) and standard pipe (21 percent).

In December, the largest volumes of finished steel imports from offshore were from South Korea (104,000 NT, down 2 percent), Japan (103,000 NT, up 86 percent), Italy (49,000 NT, up 13 percent), China (47,000 NT, down 23 percent) and Germany (43,000 NT, up 35 percent). In 2009, finished steel imports from China were 1.5 million NT, 70 percent less than in 2008 but more than any other offshore supplier. Following China were offshore finished steel imports from other Asian suppliers South Korea (1.2 million), Japan (926,000) and India (551,000).

Salvaging Millions

by Ron Sturgeon
Autosalvageconsultant.com

Four things you can do
right now to make business better

As owners of small businesses, most of us are thinking about low cost ways to get and keep profitable customers. Here are a few of the things that I have been doing to get more business or to improve customer experience for ventures that I manage:

- Create a written business plan with quantifiable goals and realistic timetables. I operate all of my businesses with a clear vision of where I will be in one year, three years, and five years. I know that many of you do good annual planning and work from a written business plan that you re-visit and adjust regularly. However, in my many years of small business consulting, I have found that more than a few owners of small businesses don't take the time to write out a business plan. If you haven't got one, do it today!
- Get active or more active in your industry's association. One of the primary reasons that I was so successful in the auto recycling business was the work I did as a founder and member of our industry association. Being in the company of owners within the same industry forces you to think strategically. Membership exposes you to different perspectives and yields valuable connections.
- Search out best practices and implement them: I prospered in the recycling industry because I was part of a small group of salvage yard owners that met twice a year to compare metrics and share best practices. Sharing metrics revealed which of us were doing better at dismantling cars, turning over parts, making deliveries, etc. Participants served non-competitive markets and shared best practices freely. What I learned every six months as a participant in that group showed up every month in my bottom line. I have teamed with experts from a variety of industries to start such industry specific groups and will be adding more in the coming months.
- Create or improve your referral program and publicize it among your best customers: The vast majority of referrals come from established clients. Are you getting a steady stream of new business from these customers? Its fine to invest in attracting new customers, but don't forget to cultivate the ones who helped you get where you are. Examine your existing referral program, and talk with your customers about ways to make it better.

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.

U.S. IMPORTS OF FINISHED STEEL MILL PRODUCTS BY COUNTRY OF ORIGIN (Thousands of Net Tons)					
	DEC 2009	NOV 2009	DEC 2008	2008 Annual	% Change 2009 Annual vs. 2008
CHINA	47	61	486	4,821	-23.3%
SOUTH KOREA	104	106	113	2,305	-1.5%
JAPAN	103	55	115	1,614	86.0%
INDIA	29	19	123	1,102	50.7%
TURKEY	40	31	72	827	4695.4%
GERMANY	43	32	83	1,122	35%
TAIWAN	20	21	38	662	-5.3%
BRAZIL	24	50	27	436	-52.0%
All Others	711	666	794	13,067	6.8%
TOTAL	1,119	1,010	1,851	25,956	10.8%

Steel import permits on rise

Based on the Commerce Department's most recent Steel Import Monitoring and Analysis (SIMA) data, the American Iron and Steel Institute (AISI) reported that steel import permit applications for the month of January totaled 1,537,000 net tons (NT). This was a 12 percent increase from the 1,377,000 permit tons recorded in December 2009 and a 10 percent increase from the December preliminary imports total of 1,396,000 NT.

Import permit tonnage for finished steel in January was 1,179,000 NT, which was an increase of 6 percent from the preliminary imports total of 1,119,000 NT in December. January 2010 total and finished steel import permit tons would annualize at 18,447,000 NT and 14,153,000 NT, up 14 percent and down 0.1 percent, respectively, from the 16,201,000 NT and 14,165,000 NT imported in 2009

In January 2010, the largest finished steel import permit applications for offshore countries were for Korea (139,000 NT, up 34 percent from December), Japan (95,000 NT, down 7 percent), China (68,000 NT, up 45 percent), Italy (52,000 NT, up 5 percent) and The United Kingdom (39,000 NT, up 97 percent). Finished steel import market share in January is estimated at 17 percent

Finished steel import permits for major product categories that registered significant increases in January vs. the December 2009 preliminary include oil tubular country goods (up 97 percent), standard rails (up 77 percent), heavy structural shapes (up 44 percent), line pipe (32 percent) and standard pipe (up 16 percent).

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ELECTRONICS

EPA fines Monterey Park firm

The United States Environmental Protection Agency (EPA) issued an order seeking penalties up to \$37,500 per day to Monterey Park, California-based ZKW Trading for failing to properly manage electronic waste that it attempted to export to Hong Kong.

EPA issued the penalty order after ZKW failed to comply with a September 2009 order requiring ZKW to remove its cargo from the Port of Long Beach and to submit a plan for management of electronic

waste that ZKW had shipped to Hong Kong without providing required notice. The waste was part of a shipment of approximately 31,993 pounds of cathode ray tubes that had been rejected in Hong Kong and returned to the Port of Long Beach. ZKW failed to provide appropriate notice to EPA or to the receiving country as required by federal law. After receiving the earlier order, ZKW informed EPA that it would not comply with the order.

"EPA requires all exporters of e-waste for recycling to provide notification," said Amy Miller, who leads Resource Conservation and Recovery Act enforcement in EPA's Pacific Southwest region. "Companies that fail to comply will face significant penalties."

Commonly known as CRTs, cathode ray tubes are the video display components of televisions and computer monitors. The glass in these units typically contains enough lead to require managing it as hazardous waste when they are discarded or recycled.

In June 2009, ZKW Trading reportedly consigned 38 pallets of cathode ray tubes – listing the cargo as plastic scrap – for shipment to Hong Kong, where it was rejected by Hong Kong customs authorities.

The order gave ZKW Trading 30 days to remove the cargo, and 45 days to submit a plan to the EPA detailing how it will reuse, recycle, or discard the CRTs. ZKW Trading's failure to comply subjects it to fines of up to \$37,500 per day of noncompliance.

Events Calendar

March 7th-10th

The Southeast Recycling Conference & Trade Show. Hilton Sandestin Beach Golf Resort & Spa, Destin, Florida.
334-356-0200 • www.southeastrecycling.org

March 10th-12th

Waste & Recycling Expo Mexico. CIEC World Trade Center, Mexico City, Mexico.
+52 (55) 5545 4488
www.wasterecyclingmexico.com

March 14th-17th

ICSW 2010: The Twenty-Fifth International Conference on Solid Waste Technology and Management. Radisson Warwick Hotel, Philadelphia, Pennsylvania.
www2.widener.edu/~sxw0004/24agenda.html

March 18th-20th

Showpower 2010 Transmission/Undercar Expo. Nashville Convention Center, Nashville, Tennessee.
800-274-7890 • www.showpowerexpo.com

March 23rd

NERC's Spring 2010 Workshop. Northampton, Massachusetts.
802-254-3636 • www.nerc.org

March 28th-30th

C&D World Annual Meeting of the CMRA. Rio Hotel and Casino, Las Vegas, Nevada.
630-585-7530 • www.cdrecycling.org

April 12th-13th

Aluminum Association's 2010 Spring Meeting. The Westin Alexandria, Alexandria, Virginia.
703-358-2960 www.aluminum.org

April 26th-28th

8th Annual CARE Conference. La Posada De, Santa Fe, New Mexico
706-428-2127 www.carpetrecovery.org

May 3rd-6th

Waste Expo 2010. Georgia World Congress Center, Atlanta, Georgia.
800-927-5007 • www.wasteexpo.com

May 4th-8th

Annual ISRI Convention and Exposition. San Diego Convention Center, San Diego, California.
919-563-5291 • www.isriconvention.org

May 16th-19th

Federation of NY Solid Waste Associations Solid Waste & Recycling Conference with Trade Show. The Sagamore, Bolton Landing, New York.
631-288-2480 • www.nyfederation.org

November 3rd-4th

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

INTERNATIONAL

Europe expresses concern over invasive biofuel crops

Biofuel crops will impact biodiversity and natural ecosystems unless tightly controlled, said a panel of European experts.

In late 2009, the Standing Committee of the Council of Europe Convention on the Conservation of European Wildlife and Natural Habitats (known as the Bern Convention) adopted a recommendation on potentially invasive alien plants being used as biofuel crops (Recommendation 141, 2009). They warn that some biofuel crops are able to escape as pests, and in so doing impact on native biodiversity. As rural communities plan to grow more biofuel crops, the likelihood of new and harmful 'invasions' will increase apace.

Therefore the Council of Europe made recommendations, which are legally binding on member states:

1. Avoid the use of biofuel crops already recognized as invasive;
2. Carry out risk assessments for new species and genotypes;
3. Monitor the spread of biofuel crops into natural habitats and their effects on native species;
4. Mitigate the spread and impact on native biodiversity wherever biofuel crops escape cultivation.

These measures were prompted by a report submitted by ISPRA (the Italian Institute for Environmental Protection and Research, an agency of the Italian Ministry for the Environment) to the Bern Convention group of experts. While recognizing the growth in energy demand,

linked to rising populations and the economic and environmental costs of fossil fuels, the report made a compelling case to farm biofuel crops in an environmentally sustainable manner.

Several biofuel species share common traits with invasive, aggressive species, selected inter alia for their rapid growth, high seed production, and resistance to pests and diseases. The evidence is clear. Without these measures, escaped biofuel crops cause loss of native biodiversity and farmland functionality, with knock on effects on yield.

It is therefore important, say the experts, to introduce pre-cultivation screening for each proposed genotype and region. Cultivation criteria to limit the dispersal and recruitment capacity of the invasive crops need to be introduced. Biological buffer zones between crop fields and natural vegetation are also key to limiting invasions. The more invasive the crop, the bigger the buffer zone.

In the long-term, biofuel crops with invasive traits need to be limited in number and scope, even if this affects the agronomic efficiency and financial bottom line. Complying with these Bern Convention recommendations will conserve Europe's wild flora and fauna and their natural habitats, while producing sustainable and renewable sources of energy.

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BUSINESS BRIEFS

Kris Lane named GM of nonferrous operations

■ Upstate Shredding LLC, announced that Kris Lane has joined the company as general manager of nonferrous operations. Nonferrous operations include the acquisition, processing and recovery of metals other than iron and alloys without appreciable amounts of iron, such as aluminum, copper, zinc and brass.

Before joining Upstate, Lane was joint product manager for Schnitzer Steel at the Company's Everett, Massachusetts port facility. There he managed daily operations and technology upgrades for a plant that produced up to 4.5 million pounds of nonferrous metals per month, primarily for international export.

Prior to Schnitzer, Kris Lane was operations manager for NFR Northeast in Auburn, New York and continued there in that position when it was acquired by the Reserve Management Group in 2003. While at NFR, Lane worked with engineers and leading technology partners to design and build a heavy media plant employing eddy current technologies, the primary method of separating nonferrous from ferrous metals.

Advanced Disposal refinances credit facility

■ Advanced Disposal Services Inc. located in Jacksonville, Florida, said it has approximately \$80 million available for acquisitions and general corporate purposes after having refinanced its existing credit facility with a new \$400 million first lien bank credit facility.

"The new \$400 million credit facility allows Advanced Disposal to continue its disciplined growth strategy by providing sufficient liquidity over the next four years," said Advanced Disposal CEO Charlie Appleby.

Earlier this month they acquired multimaterial recycler Sumrall Recycling Services Inc., based in Hattiesburg, Missouri. Advanced Disposal provides integrated waste services in the Southeast and is part of Highstar Capital's portfolio of companies under its Star Atlantic Waste Holdings, L.P. which also includes Interstate Waste Services and North East Waste Services.

Agromin recycles over 365,000 tons green waste

■ Agromin, the green recycler for more than 50 communities in Ventura, Santa Barbara, Los Angeles and Orange counties, recycled 366,800 tons of green material from residents and businesses in 2009. The amount recycled was a 21 percent increase over 2008 when 302,139 tons were recycled.

Green material, primarily grass clippings, leaves, trees, brush and wood, is collected and delivered to Agromin's recycling facilities. Non-green items (*i.e.*, plastics, bottles, paper) are removed before the material is chopped and composted into soil products. The process takes about 60 days. The soil products are then distributed to growers, landscapers and consumers.

Covanta completes acquisition of Veolia EfW

■ Covanta Holding Corporation announced that it has successfully completed its previously announced acquisition of a 3,000 ton per day operating contract in Miami-Dade County, Florida. The businesses acquired from Veolia consist of the operating contracts associated with six energy from waste (EfW) businesses, ownership and operation of a seventh EfW facility located in Montgomery County, Pennsylvania and one transfer station, also located in Pennsylvania. Each of the businesses acquired includes a long-term operating contract with the respective municipal client.

The aggregate purchase price for the businesses acquired was \$450 million and the acquisition is expected to contribute approximately \$60 million of operating cash flow during 2010. Covanta's portfolio now includes operation of 45 EfW facilities that annually convert approximately 20 million tons of municipal solid waste annually into renewable energy.

Waste Pro acquires Delta Sanitation in Mississippi

■ Waste Pro has closed on the acquisition of Delta Sanitation in Gautier, Mississippi. This is the largest acquisition made by Waste Pro. The acquisition includes a residential, commercial and roll-off hauling company that employs 124 people, a recycling facility and 2 C&D / Industrial landfills. The acquisition consideration consisted of cash and Waste Pro stock.

Delta is the predominate waste collection company in the coastal Mississippi area of Biloxi and Gulfport. This now brings Waste Pro's southeast United States presence up to six contiguous states.

Greenstar North America appoints new CEO

■ Houston-based Greenstar North America announced the appointment of Michael Simmons as its chief executive officer.

Simmons, who joined Greenstar in December 2009, brings an exceptional track record with 20 years operational leadership experience in senior positions. Most recently, Simmons came to Greenstar from Q Investments where he served as senior operating partner. Q Investments is a multi-billion dollar, multi-strategy hedge fund. Simmons also spent 20 years at General Electric where he held international leadership positions in corporate finance, mergers and acquisitions, business development and operations.

Simmons will replace Mike Wynne, who has been serving as interim CEO during Greenstar's chief executive search. Wynne will continue in his role as chairman and chief executive of NTR's international recycling operations. NTR, the international renewable energy group, is a leading developer of renewable energy and recycling, based in Dublin, Ireland.

Navistar announces new name for mixer business

■ Navistar International Corporation introduced Continental Mixers as the latest addition to the Navistar portfolio of brands.

The new name of the Company, Continental Mixers, LLC, signals a new chapter in the already strong heritage of Continental Manufacturing Company, which Navistar acquired in December 2009. Continental Mixers will offer a full lineup of rear discharge mixer products sold under both the Continental Mixers and CBMW Mixers brands. Continental Mixers will continue to operate independently with operations based in Houston, Texas.

In addition to current Continental Mixers' sales and service locations, Navistar is finalizing plans to add approximately 30 additional locations throughout the United States and Canada within the year. These locations will be affiliated with existing International® truck dealerships and offer a full line of service parts for both mixers and chassis. In addition, service locations will have the equipment and capability to perform comprehensive chassis and body maintenance, from oil changes and tire rotations to complete mixer drum replacement and maintenance.

Steve Wilkening appointed engineering manager

■ Tubelite Inc. has hired Steve Wilkening as an engineering manager helping to expand the Company's architectural aluminum products nationwide. Wilkening will report to company president Ken Werbowy and manage the engineering and product development staff.

Along with thermal performance, Wilkening will aid Tubelite in its product development and verification of hurricane-resistant and blast-mitigating systems.

Wilkening draws from a 25 year career in engineering fenestration, entrances and related building products. Most recently, he worked as the vice president of engineering for Caldwell Manufacturing Company in Rochester, New York. During his time with this supplier of window counter balance hardware, he supported residential and commercial window manufacturers. These have included Tubelite's sibling, Wausau Window and Wall Systems.

Prior to joining Caldwell, Wilkening served as director of engineering and product development for Weather Shield Manufacturing Inc. in Medford, Wisconsin; SNE Enterprises Inc. of Mosinee, Wisconsin; and Peachtree Windows and Doors in Atlanta. Prior to this, he worked for 14 years at residential building products manufacturer ODL, Inc. of Zeeland, Michigan.

A banker fell overboard from a friend's sailboat.

The friend grabbed a life preserver, not knowing if the banker could swim, and shouted, "Can you float alone?"

"Obviously," the banker replied, "but this is a heck of a time to talk business."

Doosan Infracore announces new dealer

■ Doosan Infracore Portable Power has appointed Air Compressor Sales of Macon, Georgia as an authorized dealer of its Ingersoll Rand-branded line of portable air compressors, mobile generators, light compaction equipment and lighting systems for central Georgia.

Air Compressor Sales has been a full-service dealer of quality compressed air solutions for the commercial, industrial and construction segments for 45 years. The Company provides new sales, rental, parts and service of both portable and stationary air compressors, from small reciprocating air compressors to large industrial compressors. With the addition of the entire portfolio from Doosan Infracore Portable Power, Air Compressor Sales now offers the full line of Ingersoll Rand-branded portable air compressors from 90 cfm to 1,600 cfm, the entire line of mobile generators from 25 kVa to 570 kVa, as well as light towers, rammers, walk-behind plate compactors and rollers.

Steve Angell signs with ENVIRON in Chicago

■ ENVIRON announced that Steve Angell has joined the firm as business development director for North America.

Angell has over 25 years of experience in professional services client relationship development and management, which will enhance ENVIRON's ability to serve its clients.

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BUSINESS BRIEFS

Smurfit-Stone opens new European sales office

■ Smurfit-Stone Container Corporation's Recycling division announced the opening of its European office in Rotterdam, Netherlands.

The Rotterdam office is part of Smurfit-Stone Recycling International, which represents the Company's recycling and waste solutions business outside North America.

The Rotterdam location will source recovered paper in Europe for sale in China through the Company's Shanghai office. The material will also be sold to Smurfit-Stone's customers elsewhere in Asia as well as in Europe and Central and South America.

Smurfit-Stone is investing in automated sort systems and focusing on strategic partnerships with municipalities, waste haulers, communities and environmental organizations in order to mine deeper into the waste stream.

SouthWaste Services acquires processing facility

■ SouthWaste Services, LLC, a portfolio company of Rock Hill Capital, announced its acquisition of a waste processing facility in central Florida. This fully permitted municipal liquid waste stabilization process site has a current permit capacity of 15.3 million gallons of waste material per year. The terms of the transaction were not disclosed.

The permitted entity, Central Florida Disposal Interests, is located near Orlando, Florida where SouthWaste maintains a liquid waste collection operation.

China Recycling Energy appoints new member

■ China Recycling Energy Corp. (CREG), an industrial waste-to-energy solution provider in China, announced that the board of directors approved the increase in the size of the board from six members to seven members and has appointed, Robert Chanson, as its seventh board member.

Chanson was also appointed by the board as a member of its Compensation Committee and as a member of its Corporate Governance and Nominating Committee. In connection with the appointment of Chanson to the Compensation Committee, Timothy Driscoll resigned his position as a member of the Compensation Committee and was appointed as a member of the Audit Committee.

Chanson has served as the chairman of Calventis SA, Switzerland since 2009 and the chairman of Samba Minerals Ltd, Australia since 2008. He previously served as the chairman and chief executive officer of AmbioCare Holding from 2001 to 2007, a director of Plant Health Care plc in the U.K. from 2004 through 2008, a director of Plant Health Care, Inc. in the United States from 1995 through 2004, and a director of EHC Viridian Ltd. in the U.K. from 1999 to 2001.

Leonard Cherry elected to board of directors of HCA

■ Leonard Cherry, owner of Houston-based Cherry, has been elected to the board of directors of the Houston Contractors Association (HCA) for a two-year term.

Action Carting acquires two transfer stations

■ Action Carting Environmental announced that it has reached an agreement to acquire select New York City assets of Republic Services, Inc. Action also announced that it has completed the acquisition of privately-held East End Sanitation, Inc. Terms of both transactions were not disclosed. The transactions are expected to close in the second quarter, subject to customary regulatory approvals.

With these acquisitions, Action Carting will add 20 vehicles to its existing fleet of 100, two transfer stations to its operations, and increase its on-the-ground workforce to over 350. Transfer stations are where materials are processed for sorting and disposal.

Smurfit names Matt Denton senior vice president

■ Smurfit-Stone Container Corporation announced the promotion of Matt Denton to senior vice president of business planning and analysis.

Denton joined Smurfit-Stone in 2006 as vice president of business transformation. In that role, he created a detailed scaling plan for the Company's container division to support the division's capital investment and overall transformation.

Prior to joining Smurfit-Stone, Denton worked for Georgia-Pacific from 1992 to 2006, where he held positions of increasing responsibility, including vice president of strategic sourcing.

Nucor vice president Joe Rutkowski to retire

■ Nucor Corporation executive vice president of business development Joseph A. Rutkowski announced his plans to retire at the end of February after 21 years of service with Nucor.

Effective March 1, 2010, R. Joseph Stratman assumed responsibility for business development activities while continuing his role as executive vice president of Beam and Plate Products. Stratman began his Nucor career in 1989 as controller of Nucor Building Systems, Waterloo, Indiana. He then served as controller of Nucor-Yamato Steel Company from 1991 to 1998; general manager of Nucor Steel, Norfolk, Nebraska from 1998 to 1999; and general manager of Nucor-Yamato Steel Company from 1999 to 2007. He was promoted to vice president in 1999 and to executive vice president in 2007.

New container board paper mill to be built in UK

■ A new recycled paper mill capable of producing approximately 400,000 tons of material is to be built in Trafford, Manchester.

The facility, to be built by Spanish paper and packaging group SAICA, should help divert the export of some 450,000 tons of recovered paper by using it in the UK.

Construction on the project is expected to begin soon, with the mill starting up in February 2012. State-of-the-art equipment will be used at the facility and a combined heat and power plant will generate energy for it.

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BUSINESS BRIEFS

Catalyst Paper announces departure of CEO

■ Catalyst Paper announced that Richard Garneau, the Company's chief executive officer, will be leaving the Company on April 28, following the Company's annual meeting of shareholders. Garneau advised the board of directors that for personal reasons he will be moving back to eastern Canada to be closer to his family.

A search for a successor will begin immediately.

California American Water appoints Monica Na

■ California American Water has appointed Monica Na as its new water conservation manager.

In her new role, Na will oversee the Company's water efficiency programs throughout the state. Her responsibilities will include managing conservation field staff as well as formulating and implementing conservation programs to fulfill the Company's mission to significantly reduce water use in each of its service districts. She will also oversee the Company's effort to cut water waste within its own operations.

Na comes with a strong background in analytical and organizational management having managed numerous interdepartmental projects within the Mayor's office in Chicago to her most recent role of performing complex financial and program analysis as a management auditor for the City of San Francisco's board of supervisors.

Dick Gust appointed to Liberty Tire's new EAC

■ Pittsburgh-based Liberty Tire Recycling, a provider of tire recycling services in the United States, announced the appointment of Dick Gust as co-chairman for the newly-formed Environmental Advisory Council (EAC) of the Tire Industry Association (TIA).

In his role with the EAC, Gust will help oversee the 12-member organization, which was designed to provide strategic information, advisory services, educational programs and governmental assistance to promote green operations and environmental awareness throughout the tire industry. Gust serves as president, national accounts at Liberty Tire Recycling.

The EAC replaces the Tire and Rubber Recycling Industry Council. The new council will work to encourage TIA members and others in the tire industry to be more energy efficient in their operations, reduce waste, ensure safety and reuse, repair or recycle tires as much as possible.

Gust served as past chairman of the Tire and Rubber Recycling Advisory Council, is a 16-year board member of the Tire Industry Association and served as past president of the Tire Industry Association. Gust's previous honors include the Industry Leadership Award from the International Tire and Rubber Association and the Governor's Corporate Recycling Award from the State of Illinois.

Rosenberg appointed VP of business development

■ OPX Biotechnologies Inc. (OPXBIO), a renewable biochemical and biofuel company, announced the appointment of Michael J. Rosenberg as vice president of business development. Rosenberg brings 24 years of alternative energy and environmental business experience to OPXBIO where he is responsible for creating strategic partnerships to accelerate the commercialization of bio-based chemistry and fuel products.

Prior to OPXBIO, Rosenberg was vice president of business development at Evergreen Energy, a cleaner coal technology company. From 1998 to 2008, he held senior management positions at the hydrogen fuel cell company, Ballard Power Systems, including director – corporate development and strategy, director – business development, and business director – material handling. While at Ballard, he helped form Chrysalix Energy Limited Partnership, a venture capital firm in the cleantech industry.

Prior to Ballard, Rosenberg was senior treasury manager with Genentech, Inc. and held various positions in finance, environmental project management and engineering with McKesson Corporation and ExxonMobil Company USA.

Cereplast recruits sales and marketing veteran

■ Cereplast, Inc. announced that it has appointed David J. Homyak as West Coast regional director, sales and marketing.

Homyak has been an executive level sales professional for over 30 years. His numerous successes in the highly competitive plastics industry include leading 210 percent business growth over a 4-year period while serving as Western business region general manager for General Electric Plastics; the development of 20 million pounds of product growth in new market opportunities in his role as Western regional sales manager for PolyOne; and his efforts to put Spectra Color on a course to exceed its sales goals by \$50 million by the year 2012.

Vortex appoints Iberfluid Instruments as agent

■ Vortex Valves Europe, Ltd. announced the appointment of Iberfluid Instruments, S.A. as Vortex's official agent in Spain and Portugal.

As an authorized agent of Vortex Valves, Iberfluid Instruments will manage technical inquiries and service for Vortex's full line of problem-solving slide gates and diverters.

Iberfluid was established in 1972 and maintains several divisions, including a solids handling division managed by Xavier Miquel. Headquartered in Barcelona, the company also maintains offices in Balboa and Madrid, with a proposed office in Lisbon.

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Award winning Flip Screen will officially launch their E50 to the United States market during ISRI's Success Expo to be held May 4-8th.

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DOOSAN COMPRESSOR FEATURES LATEST TECHNOLOGIES

Doosan Infracore Portable Power introduces its newest portable air compressor, the Ingersoll Rand C185 compressor. The Ingersoll Rand C185 compressor produces 185 cfm at 100 psi, runs off a high-performance 49 hp Kubota diesel engine and has an 8-hour runtime. The C185 weighs only 1,825 lbs. and has two service air ports for multi-tool use, creating the best value in a 185-cfm compressor size. The C185 is compact, with an overall width of 66" and an overall height of 58".



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2004 & 2006 MHL 350 (rubber), 50' reach, hydraulic cab, gen-set and grapple.
2001, 2003 & 2005 MHL 340 REBUILT (rubber), 41' reach, hydraulic cab, gen-set and grapple.
1995 & 1998 MHL 350 REBUILT (rubber), 50' reach, hydraulic cab, gen-set and grapple.

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2001 A934 REBUILT (rubber), 51' reach, hydraulic cab, gen-set and grapple.
2001 A924 REBUILT (rubber), 40' reach, hydraulic cab, gen-set and grapple.
2001 A316 (rubber), 30' reach, hydraulic cab, gen-set and grapple.
2000 R914 REBUILT (crawler), 38' reach, 4' cab riser, gen-set and grapple.
2000 A904 REBUILT (rubber), 35' reach, 4' cab riser, gen-set and grapple.
1999 R934EW REBUILT (crawler), 50' reach, 4' cab riser, gen-set and grapple.
1998 A922 REBUILT (rubber), gen-set, grapple and magnet, no riser.
1994 A932 REBUILT (rubber), hydraulic cab, gen-set and grapple.

CATERPILLAR
2005 M325C REBUILT (rubber) with 50' reach, hydraulic cab, A/C, gen-set and grapple.
2003 M320 REBUILT (rubber), 39' reach, hydraulic cab, gen-set and grapple.

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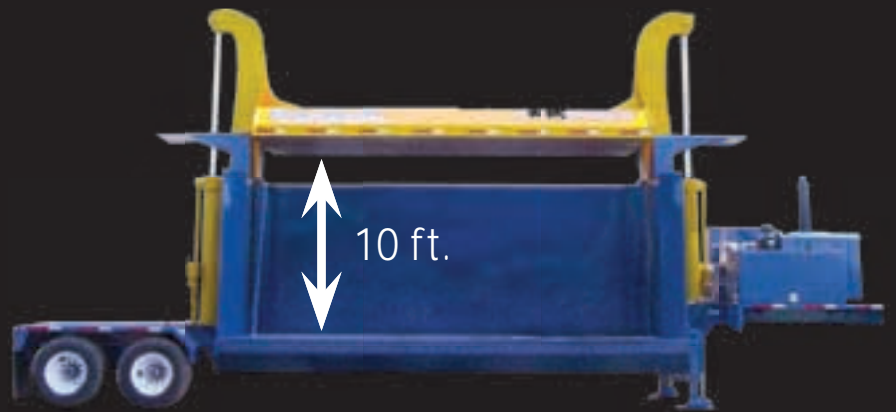
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Haiti in the aftermath – recycling a city?

by MIKE BRESLIN

mbreslin@americanrecycler.com

People looked on in shock at the horrific devastation in Haiti. The capital city of Port Au Prince looked like it was hit by a giant wrecking ball. Whatever has been left standing by the 7.0 earthquake and numerous aftershocks is likely cracked beyond repair and will have to be demolished.

Close up shots from news footage reveal low quality concrete, cement and mud block construction. A closer look shows little or no rebar and lightweight wire mesh reinforcement. Port Au Prince, the largest city and principle port, developed slowly from Colonial times on a well laid out grid pattern, but with barely any construction codes or standards. Because it has been a historically poor country, building was done on

the cheap. Many structures were also weakened by earlier earthquakes, hurricanes, civil strife and fires.

Greg Moro, operations manager for Independence Recycling of Florida (IRF) has been working on a plan to move two mobile crushing and screening plants to Port Au Prince to recycle earthquake debris for use in new construction. "I have had three groups approach us about going down to Haiti. One is a group from Utah, Proactive Energy Concepts, is working through retired General Leslie Clark to put a package together to go to Haiti for a 10-year recovery program. The first part of their program is demolition and clean-up, providing saltwater desalinization and wind and solar energy. We fit into the early phase of this program and don't know how long we would be there. They want us to demolish buildings and recycle them into whatever useable products we can make, for example aggregates to be used in new concrete for future development."

IRF operates six receiving yards for construction and demolition debris in Florida serviced by three mobile crushing plants. Through the collection of concrete, block, rock and other aggregate based materials IRF produces recycled aggregates and road base for reused in new construction. The crushers are moved from yard to yard to handle stockpiles and are also moved to customer locations for major on-site crushing and recycling projects.



Thousands of buildings suddenly became rubble, turning waste management into an overwhelming task.



For concrete demolition debris, one mobile crusher can process between 1,800 to 2,400 tons per day, and crush asphalt at anywhere from 3,000 to 4,000 tons per day.

Depending on the economy, IRF recycles approximately three million tons of concrete and asphalt per year.

IRF is one of nine DiGeronimo Companies, which includes Independence Excavating, headquartered in Cleveland, that has 10 mobile crushers in its fleet as part of a diversified national capability in heavy industrial construction, site development, concrete, demolition and environmental solutions. The DiGeronimo family is also involved in aggregate distribution and manufacturing construction equipment, including the fabrication of IROCK crushers.

"I would say a quarter of a percent of what we crush is waste. We might crush 40,000 tons of concrete and only have one or two 20-yard dumpsters of trash that we pay to take to a landfill. All of the steel gets recycled and 95 percent of our production is sold to the private sector. Incoming raw material is about 50/50 private and government. In Florida, for example, DOT instituted a new spec to use recycled aggregate for roads, but there are two problems. One, the engineers are not writing the road specs, and two, there's not enough raw material to crush to keep up

See HAITI CLEAN UP, Page 7

Construction spending drops to six year low

Construction employment grew in only 4 out of 337 metropolitan areas in 2009 as spending on construction projects dropped by \$100 billion in December to a 6-year low of \$903 billion, according to an analysis by the Associated General Contractors of America.

"The impact of the stimulus is clearly being overshadowed by the sweeping downturn in overall construction demand," said Ken Simonson, the association's chief economist. "Without those public investments however, a bad employment situation will only get worse during 2010."

Simonson noted new Census Bureau figures show that private non-residential spending dropped 18 percent compared to December 2008. He added that only

See SPENDING, Page 2

Florida C&D pit stirs up controversy

by PAM BRANNON

news@gulfbreezenews.com

A permit for a construction and demolition (C&D) pit within one mile of wells that provide drinking water for the south end of Santa Rosa County, Florida was recently approved by commissioners.

Most of the commissioners voiced concerns over approving the permit, while pointing out that legally they had no choice.

Commissioner Lane Lynchard from Gulf Breeze, land-use attorney, said he did not want to

vote yes. "I wish there was a way for me to vote no legally," he said. "If we did have a right to say no, this would be an easier decision. But as I see it and as our county attorney sees it, if they met the criteria of our ordinance when they first applied, and have checked all the boxes to meet the requirements, we do not have the right to reject the permit."

Suncoast Concrete Inc. had requested a permit to turn 7 acres of their 60-acre parcel into a C&D pit. After their request, months of discussion and petitioning by residents concerned with the drinking water followed.

Fairpoint Utility Co. has six wells that provide water to the south end of Santa Rosa County and is located within a mile of the Suncoast property. Several residents petitioning the county to reject the proposal outlined potential problems with groundwater and pit leeching.

Last September, commissioners changed their ordinance to more stringent requirements and also prohibited any C&D pits

See FLORIDA C&D, Page 3



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A Letter from the Editor

Dear readers,

According to the old adage, March roars in like a lion, and leaves quiet as a lamb. So far, March's commodities prices, while perhaps not roaring per se, have certainly been stronger compared to months past.

And that, of course, is fantastic news for an industry that's seen its share of woes during this recent economic downturn.

Of course, only time will tell whether or not prices will be sustained at this level, but with jobs legislation in the works, and infrastructure spending around the bend, odds are good that commodities prices won't be quieting down any time soon.

At deadline, a scaled-back jobs bill is up for vote. On paper, the main elements of the bill look like they could have a fairly positive impact on our industries. Between funding for big state infrastructure projects, tax breaks for hiring unemployed workers, and incentives for small businesses to invest in new equipment, the legislation could be the catalyst that helps pull commodities prices up and gets equipment sales rolling once again.

Or it could fail spectacularly and be just another waste of taxpayer dollars.

Aimed at reducing the incredibly high unemployment rate, it's hard to guess at whether or not it'll succeed. But considering popular opinion and the government vying to regain some sort of public approval, chances are good that some iteration of the bill will pass in fairly short order.

I'm curious as to how the people doing the hiring, firing and buying feel about it. Would government incentives encourage you to hire additional help or to purchase new equipment? Or are the government-mandated handstands not worth the effort?

Of course, many of the questions won't have answers until a final bill has been hashed out and passed. But once that happens, I'd love to hear your take on it. So please drop me a line and walk me through your thought process when considering whether to buy that piece of equipment or hire some extra help.

Anyways, expect that commodities will keep gaining, despite the success or failure of the jobs bill. Perhaps with a little work and time, these gains will grow into a roar that'll put to rest the clichéd idea of March's lamb-like transition into April.

Have a good month everyone,



Dave Fournier
Focus Section Editor
david@americanrecycler.com

Energy-efficient building initiative launched

The Obama administration announced a multi-agency initiative to spur economic growth while making buildings more energy-efficient.

Seven federal agencies issued a combined funding opportunity of up to \$129.7 million over five years to create a regional research center. The center will develop new building efficiency technologies and work with local partners to implement the technologies in area buildings.

Building conditions account for nearly 40 percent of United States energy consumption and carbon emissions. Improve-

ments in building efficiency will provide significant benefits – reducing energy use, lowering utility bills and decreasing carbon emissions.

The agencies are working together through Energy Regional Innovation Cluster (E-RIC) that is centered on an Energy Innovation Hub. This Energy Innovation Hub, one of three proposed by the administration and funded by Congress in the FY10 budget, will bring together a team of researchers to conduct research and to solve priority technology challenges.

The E-RIC will work to disseminate new technologies into the local marketplace and share best practices with the public and private sectors. It will be supported through agency investments in technology and business development, and will include support for workforce education and training. By linking researchers at the Hub with local businesses and supporting specialized workforce education in the area, the initiative will create an economically dynamic region focused on building efficiency technologies.

Lockheed Martin Center for Leadership Excellence earns LEED Silver green building certification

The Lockheed Martin Center for Leadership Excellence has earned the U.S. Green Building Council's (USGBC) LEED® Silver certification. The USGBC's Green Building Rating System™, is an internationally accepted benchmark for the design, construction and operation of high performance green buildings.

The CLE, a 300,000 sq. ft. conference center and lodging facility located adjacent to corporate headquarters in Bethesda, Maryland, supports company training courses, business meetings and confer-

ences. The center includes a 250-seat amphitheater, 8 large training rooms, 18 conference rooms, a full service restaurant and a fitness center for employees.

The center, which opened March 2009, was designed, built and operates with environmentally efficient features, including:

- Compacting, composting and recycling systems which divert more than 90 percent of the site's waste stream from landfills.
- Low-flow plumbing which reduces water use by approximately 43 percent.

- Construction products contained 23 percent recycled materials.

- 100 percent of the site's paints, sealants and adhesives are low-emitting and contribute to better air quality.

- Reflective roofing which reduces heat emittance.

- More than 5,000 energy efficient light bulbs which reduce energy consumption.

- Energy savings from the CLE avoids over 318 metric tons of carbon per year.

Spending

■Continued from Page 1

power construction increased from year-ago levels, by 14 percent. Developer-financed categories recorded especially

large declines, including lodging (down 46 percent); retail, warehouse and farm (down 37 percent); and office (down 35 percent).

In contrast, publicly-funded construction increased by 1.0 percent between December 2008 and 2009, Simonson noted. He added that stimulus spending helped boost highway and street construction by 3.7 percent, making it the largest public category. Educational construction, however, dropped 4.0 percent during the year. Private residential construction dropped 11 percent for the year as multi-family construction tumbled, even though spending on single family housing has increased for 7 months in a row.

Simonson said the declines in construction spending were leading to layoffs in almost every community in

America. Leominster-Fitchburg, Massachusetts lost a larger percentage of its construction work force (38 percent) during 2009 than any other metropolitan area, according to the latest Bureau of Labor Statistics figures. The agency includes mining and logging with construction in most metro areas to prevent disclosure about industries with few employees.

Other areas experiencing sharp declines in construction employment during the year include El Centro, California (36 percent); Santa Fe, New Mexico; Pocatello, Idaho; and Kokomo, Indiana (all 29 percent). Meanwhile, the Houston, Texas area lost the most construction jobs (25,500) between December 2008 and 2009.

Of the 4 metropolitan areas with an increase in construction employment during the past 12 months, 2 areas had gains of more than 100 jobs: Harrisburg-Carlisle, Pennsylvania (1,500 jobs, 13 percent gain) and Tulsa, Oklahoma (700 jobs, 3 percent gain). Two metro areas had gains of 100 jobs each in construction: Springfield, Ohio (8 percent) and Columbus, Indiana (5 percent).

Association officials cautioned that without new investments in infrastructure projects, construction employment will only get worse. They noted that the fiscal year 2011 budget request released by President Obama outlines some important new infrastructure investments, including establishing a national infrastructure fund and boosting investments in high speed rail and new air traffic control facilities. Many of those new investments, however, were offset by cuts for new water infrastructure projects and levee projects, for example.

Upcoming editorial FOCUS TOPICS

ISSUE	CLOSE	FOCUS
APR	3/17	Solid Waste
MAY	4/16	Metals
JUN	5/16	Plastics
JUL	6/17	Alternative Energy
AUG	7/16	Solid Waste
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Caterpillar expects higher revenues in 2010

Caterpillar Inc. announced sales and revenues of \$32.396 billion for 2009, a decrease of 37 percent from \$51.324 billion in 2008. Profit per share was \$1.43, down 75 percent. Excluding redundancy costs of \$0.75, 2009 profit was \$2.18 per share.

Fourth-quarter sales and revenues were \$7.898 billion, down 39 percent from the fourth quarter of 2008.

Profit per share for the quarter was \$0.36, down 67 percent from the fourth quarter of 2008. Excluding redundancy costs, profit for the fourth quarter was \$0.41 per share.

Sales and revenues for 2009 decreased \$18.928 billion from 2008, and profit of \$895 million was down 75 percent from \$3.557 billion in 2008. The decline in profit was primarily due to significantly lower sales volume.

The impact of lower volume was partially offset by lower costs, favorable income taxes and improved price realization.

Caterpillar expects 2010 sales and revenues to be up 10 to 25 percent from 2009, and profit is expected to be approximately \$2.50 per share at the midpoint of the sales and revenues range.

In addition to increased end-user demand, Caterpillar sales are expected to improve as a result of changes in dealer inventories. Dealers reduced new machine inventories by more than \$3.3 billion and new engine inventories by more than \$600 million during 2009. This means Caterpillar's sales in 2009 were below end-user demand by nearly \$4 billion.

The most significant positive factors driving the profit outlook are higher sales volume, lower material costs and improved factory efficiency.

Department of Labor awards grants for deconstruction job training

The Building Materials Reuse Association has identified seventeen grant awards which feature deconstruction job training, certification and workforce survey activities from three different Department of Labor programs.

While these grants are intended to create new jobs and encourage recycling, deconstruction can cost twice as much as a typical demolition job. This factor alone threatens the viability of entire projects.

The United States Department of Housing and Urban Development (HUD) provided a \$25 million grant to the State of Milwaukee. The state is waiting for a response on whether or not prevailing wages are a requirement of the grant.

The cost of deconstruction projects varies greatly depending on whether workers must be paid state or federal prevailing wages.

Prevailing wages often make the cost so high that no contractors bid on the jobs, eliminating any real benefit to anyone.

Some states utilize HUD grants but are not required to pay prevailing wages by using new workers still considered to

be in training. A training job is exempt from the rule.

Deconstruction contractors must calculate the value of the end-product, including funds derived from the sale of fixtures, building materials and other salvageable items from deconstruction. This amount offsets the higher cost of deconstruction, making the project more viable.

The Building Materials Reuse Association has identified 17 grant awards which feature deconstruction job training, certification and workforce survey activities:

Pathways Out of Poverty Grant Recipients:

The City of Minneapolis
The Consortium for Worker Education (Bronx, New York)
East Harlem Employment Services (NYC, New York)
Mi Casa Resource Center for Women (Denver, Colorado)
National Association of Regional Councils (Apache Junction, Arizona)
PathStone Corporation (Rochester, New York)

Providence Economic Development Partnership (Providence, Rhode Island)

SER – Jobs for Progress of the Texas Gulf Coast, Inc (Houston, Texas)

Southwest Housing Solutions Corporation (Detroit, Michigan)

Workforce Development of Seattle-King County (Seattle, Washington)

The WorkPlace, Inc. (Bridgeport, Connecticut)

Green Capacity Building Grant Recipients:

Co-Opportunity, Inc (Hartford, Connecticut)

Latin American Youth Center Youth-Build Public Charter School (Washington DC)

Youth Conservation Corps (Chicago-land, Illinois)

Episcopal Community Services of Maryland (Baltimore, Maryland)

Iowa Workforce Development (Des Moines, Iowa)

Energy Training Partnership Grant Recipients:

Heritage Health Foundation (Pittsburgh, Pennsylvania)

NDA shares agenda for 2010 convention

Lt. General (Ret.) Daniel Christman is slated as the keynote speaker at the 37th Annual National Demolition Association Convention March 20-23 at The Mirage in Las Vegas, Nevada. His presentation will be "Leadership in Times of Crisis".

Following General Christman's presentation, Bob Mellinger of Attanium Corp. will give advice on improving crisis communications and decision-making skills.

One day will include educational breakout sessions which include "Survive to Thrive: Making the Transition: Coping

with the Downturn and Planning for Recovery," presented by Greg Hoyle of Hoyle & Associates. Hoyle will provide tips on topics like managing cash flow and marketing. Mike Casbon with EMR Inc. will speak on "Safety and Your Bottom Line," addressing the subject of how well-planned and executed safety programs can

become profit centers. The third session is entitled "Green Marketing and LEED: Is There Money in it for You?" presented by John Lloyd of Lloyd's Construction Services and Jason Haus of Dem-Con Companies. The program will explain establishing a capital-intensive recycling program that really works.

Florida C&D

■Continued from Page 1

to be placed south of U.S. 90, which is where this new pit is to be located. But since Suncoast had already applied for their permit, county attorney Tom Dannheiser explained to commissioners that as long as the company meets the requirements of the ordinance in place when they first applied, the county had no choice but to approve the request.

Suncoast owner Ken Bryan addressed commissioners last Monday.

"I've been working on this for years trying to do the right thing," he said. "We have gone even above and beyond what we were asked to do by your engineers and by the state. If I felt for a minute that this pit was not safe, I would back away."

The county's ordinance for several years has required C&D pits to have liners. The state did not require liners until a month ago. Suncoast project manager Tony Mellini explained that the Suncoast pit has not only a plastic liner, as required by the county ordinance, but also a clay liner. He also explained in detail the plans to rid the pit of leaching materials, from

recirculating to spraying outside the pit and allowing some evaporation.

Suncoast representatives pointed out that there previously was a hearing with an administrative judge from Tallahassee held in Milton several months ago, and the judge recommended that the state must grant the permit because Suncoast had followed all the requirements of the state. They said Suncoast worked through eight months of challenges and petitioning, showing that they were meeting or exceeding all standards and requirements of both the state and county.

"We had originally a petition with 30 people wanting to stop the pit," resident Etta Lawlor said. "We ended up with only three going that day to the hearing. The rest got scared after they received calls or mailings from the attorneys representing the pit wanting to know what their objections were, etc. But the hearing did not look outside the pit – not at any water issues. It only looked at whether the pit itself met all the requirements of the state."

Suncoast's owner promised commissioners that he would do everything possible to keep the pit safe for the surrounding groundwater.

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EQUIPMENT SPOTLIGHT

Dust control

by **MARY M. COX**

maryc@americanrecycler.com

There are many reasons companies choose to invest in dust suppression technologies. Regulatory compliance and reduced health risks are among the most common motivators for employing dust management techniques. Dust inhaled by workers or nearby residents can irritate airways and exacerbate conditions such as asthma or allergies. Job site dust can also generate complaints from local residents and businesses, affecting community relations and potentially jeopardizing future operating permits. When equipment air intake includes significant amounts of dust, it can lead to more frequent maintenance and greater engine wear, causing higher operating costs and more frequent downtime. These are only a few of the reasons that a business might review market options for a dust control equipment purchase.

Tad Wollenhaupt is president of Air One, a company that offers engineered air quality control systems for industrial clients. The firm offers Disc Fans, Rotary Foggers, Monsoon and AirMation products for off-the-shelf dust control solutions. They also offer custom-engineered, facility-specific dust control systems that utilize atomized mist nozzle hardware and high-pressure pumps.



Air One Inc.

Most systems can be customized to client needs and all are designed, built, installed and serviced by Air One. "Our systems are used to control airborne dust around processing equipment, to protect employee health, and to prevent nuisance conditions and/or operating permit violations. The Monsoon units are for large handling facilities and outdoor demolition projects. They disperse water droplets up to 150 feet from the unit and are capable of projecting a water mist up to 50 feet in the air," Wollenhaupt stated.

"The majority of our products have been in use for at least 10 years in the solid waste industry. Our clients process between 50 and 1,500 tons of construction and demolition debris per day. Our portable equipment and turnkey systems allow users to utilize our products within a very short timeframe," Wollenhaupt said. He noted that federal and state industry regulations are growing stricter for the solid waste and recycling industries "and that results in a business increase for us. Air quality improvement is required on all new projects and rehabs of older facilities, which leads to more regulation and public scrutiny where it may not have existed before."



Buffalo Turbine

Buffalo Turbine (BT) has manufactured high-velocity and high-volume turbine style fans for spraying and debris blowing since 1945. Bradley Wesley, sales dealer, noted, "We provide officially licensed products for the PGA Tour for debris blowing and we're the official debris blower of the IHRA. We also manufacture specially-designed blowers utilized by the United States military in their work uncovering roadside bombs in Iraq and Afghanistan."

Wesley said BT Monsoon products utilize a gyratory atomizing nozzle which generates a fine mist of many very small, water droplets of consistent size that trap and remove airborne fugitive dust particles commonly created in C&D recycling and other processes. Monsoon products are available with diesel, electric, gasoline, hydraulic, and PTO power. Oscillation stands are optional and provide a user with over 10,000 square feet of coverage. Wesley pointed out that "Our products offer a cost effective solution for any organization concerned with dust control."



Dust Control Technology, Inc.

Dust Control Technology (DCT) is a supplier of dust suppression equipment, primarily used in outdoor or large indoor applications. According to Edwin Peterson, CEO, "While some equipment suppliers have added dust management as a sideline, it is the sole focus of our business." Most DCT customers are involved with bulk material handling, including municipal recycling, crushing, shredding, solid waste processing, composting, landfills and C&D recycling. The company's DustBoss product line, based on proven technology, delivers a dense mist of very small water droplets, sized specifically for airborne particles and surface dust control.

"One of the key differentiating factors of our equipment is the ability to employ Variable Particle Sizing™ (VPS) technology to customize nozzles, fans and other components, producing a range of droplet sizes and air speed that best suits a given application. Our product line includes powerful, mobile fan-driven units that deliver the atomized mist over a wide target area. The largest designs feature optional 180 oscillations, providing coverage of 80,000 square feet or more – a virtual dust blanket," explained Peterson. Set-up time for the DustBoss is minimal, requiring hookup to a water source and electrical power. Once set-up is complete, the machine can run unattended all day and a filter to accommodate non-potable water sites is also available.

John O'Brien, operations manager at NCM Odor Control, said the firm offers custom dust control systems for C&D settings, rail yards, recycling centers and more. "Our systems help improve air quality for people working on the sort line by eliminating airborne dust. We offer polymeric dust control, used with our high pressure misting systems in areas where just plain old water will not do the trick. Our customers benefit by not having to wear

dust masks and during the summer months, our system helps cool a building by approximately 15 degrees," O'Brien said. "Treating the hoppers and sorting screens is basically what our experience has been. We prefer to cover door openings so that dust will not escape the building and possibly create concern for those surrounding the area. We typically sell products to facilities that process from 500 to 2,000 tons of material per day. We have clients from New England to San Diego," commented O'Brien.

He said that motivation for obtaining dust control equipment varies with each client. "It can merely be a quality of life issue. Excessive dust in the workplace is undesirable."

Employers pay top dollar for health care and employee health is important for staff and for the good of the company. Clients may also want to keep dust confined to a specific area to extend the life of processing equipment," said O'Brien.



NCM Odor Control

Manufacturer List

Air One Inc.
Tad Wollenhaupt
508-291-4600
www.aironeinc.com

Buffalo Turbine
Bradley Wesley
716-592-2700
www.buffaloturbine.com

Dust Control Technology, Inc.
Edwin Peterson
800-707-2204
www.dustboss.com

Midwest Industrial Supply, Inc.
Shannon Noble
800-321-0699
www.midwestind.com

NCM Odor Control
John O'Brien
267-259-5190
www.ncmodorcontrol.com

Tracey Southerland
Precision AirConvey Corp.
302-999-8000
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Recycling shingles gains notice

by IRWIN RAPOPORT

iraport@americanrecycler.com

Of the estimated 11 million tons of oil-based tear-off asphalt roof shingles generated annually in the United States, nearly 10 million are landfilled. However, if fully recycled, they would help reduce oil consumption and greenhouse gases, and lengthen the lifespan of C&D landfills.

Almost 1 million tons of this material are recycled to provide feedstock for asphalt hot mix producers.

"Shingles are just ripe for the plucking," said Bill Turley, president of the Construction Material Recycling Association (CMRA). "If we used all of it, we could easily set up a system to do it."

Between 25 and 35 percent of a typical shingle consists of oil. Interest in using shingles is growing and last November at the CMRA's 4th Shingle Recycling Forum, 381 people attended, compared to 240 at the 2007 forum.

"The reason is simple – the economic benefits are becoming very obvious to many, especially hot mix asphalt plant operators," said Turley. "They save tremendously when using shingles to replace new virgin bitumen to their mixes, especially since the price of new bitumen has soared in recent years. But plant operators are reluctant to tell the shingle recyclers what value their shingles have, as they are still trying to get the recycled shingles for a very low price."

Many of the new attendees were representatives of hot mix producers.

"The number of states that accept this material and the amount of research into utilizing it has reached a critical mass," said Turley, "and now people are beginning to say this is no longer R&D, it is something I can implement myself. While not accepted in every state, asphalt made with recycled shingles is gaining acceptance and there is enough research to back it up so that people who are generally reluctant to try something new are willing to give it a try."

See SHINGLE NOTICE, Page 6

Wirtgen China will help to cut demolition waste on-site

Germany-based Wirtgen Group will introduce on-site recycling technology developed by its Kleemann GmbH subsidiary when it will be introduced in China at Bauma China in Shanghai, in November 2010.

Kleemann GmbH recycling plants take demolition waste, demolished concrete and spoil and convert it into high-quality aggregate for the construction industry. By recycling demolition waste on-site, the process can dramatically reduce the amount of energy and CO2 emissions required in hauling material away from a demolition site. Demolition waste can be used as aggregate for the next building project on that site and will reduce material costs and the need to extract fresh aggregate by quarrying.

The core of the process is an impact crusher which is fed with demolition material that has been screened

for size with particles larger than 60mm grain size, fed into the crusher while smaller particles are put aside for further processing. The crushed aggregate is then sorted and separated by size and is then cleaned from light materials. Recovered ferrous metals are then removed by electromagnets and are recycled.

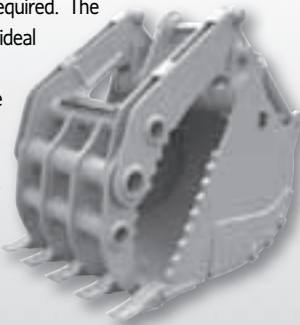
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Shingle notice

■Continued from Page 5

This is good news to recyclers as the market for shingles now has a solid base from which to expand.

Dan Krivit, a co-organizer of the 4th Shingle Recycling Forum and senior proj-

ect manager with Foth Infrastructure & Environment, LLC, a Minnesota-based engineering and environmental consulting firm, said, "Given the high oil content of shingles, it can save \$2 to \$4 per finished hot mix ton. The bidding for paving work and supplying hot mix asphalt for the trucks is competitive and the savings are significant."

A Closer Look

by Donna Currie

Recycled Materials Company

Rick Givan • 303-431-3701

Rick Givan has been president of the family-owned Recycled Materials Company for nearly a dozen years. The company itself was formed about 30 years ago, and has since evolved into a business that now operates in 14 western states, predominantly in Colorado and California.

Those states, according to Givan, are big markets because there are military bases, shipyards and aircraft plants that are being redeveloped. The redevelopment of the Stapleton Airport property in Colorado was what Givan called a "classic example" of what the business does. Material that was on runways one week was being re-used as house foundation material a month later.

Before joining Recycled Materials, Givan had a background in the bridge and road building industry, but said he was "drawn into" the uniqueness of an industry where "you never do the same thing twice." He explained that building one road or another is essentially the same, but that recycling is a constant challenge where every demolition job and every redevelopment project is different.

Recycled Materials accepts concrete and asphalt from contractors at its six Denver metro area recycling yards. There are also mobile plants that travel to customer locations where the aggregate is made onsite. "When we come to you, we charge a fee," Givan said, "but we leave the material."

Recycled Materials does demolition projects "hooked into a recycling assignment," Givan said. He explained that the business is not about the demolition, but is all about re-using the materials. The company processes the concrete and asphalt and takes other recyclables to processors who specialize in those materials.

Since he started in the business, Givan has seen an increase in the acceptance of the products. "The market understands that the recycled material is the same in specification as quarried materials," he said. Also, there has been an increase in applications, including concrete use "where that wasn't accepted before."

There is also a "dawning of recognition" that disposal of concrete in landfills is a waste of good material, and that it is needlessly taking up landfill space. "It's gone from 'this stuff is junk' to being widely accepted," he said.

He anticipates that eventually the states will have more uniform regulations for the use of recycled materials and that there will be some standard recycling specifications. For example, use of recycled materials in concrete is currently acceptable in Colorado, but is banned in other states.

There will always be some local differences, because local quarries provide different materials. Where one state might have a lot of limestone, another might have more granite, and the aggregate used in that area will reflect those local variations.

But no matter what the material, Givan said that states could save a lot of money by reusing the recyclable material taken from roadways, and could spend the money building more roads. Not only would money be saved by not needing to buy the material, but trucking costs are saved by keeping the material onsite.

Still, Givan finds that a lot of his job is education. "I'm a contractor and a recycler," he said, and when he explains how recycling will help the customer avoid disposal fees, some customers wonder, "Why is this guy telling me this?" There is some skepticism that being "green" can save the customer money rather than costing more, as is sometimes the case.

Givan said that he often needs to tie all the pieces together for the customer – that while the recycled aggregate might be more expensive compared to other aggregate, there are no disposal fees for the old material, and no trucking fees to remove the old material or bring in the new.

Besides making aggregate, Givan explained that Recycled Materials can make a very diverse range of products. For example, concrete can be colored for use in landscaping projects or broken into pieces for use as stone for garden walls. Different types of breaking equipment is used to create a range of sizes of end product, depending on what the customer needs.

"We're associated more with demolition," Givan said, "yet our real claim to fame is re-use and redevelopment." He said that he sees his business as "a window into the future," rather than a company that simply tears down and recycles, because after the tear-down, the areas are redeveloped into something new. "It's the renewal of the land."



—Rick Givan

"If you multiply the savings against all the tons that are used on roads, millions could be saved and when contracts become more competitive, the savings will be passed along. Recycling shingles makes great economic and environmental sense – it reduces GHG emissions because that is oil that doesn't need to be refined, purchased and added to hot mix. But the interest in shingles has been much steadier than the rising price of oil."

He added that in the worst case, roofing contractors or haulers pay the same amount as a tipping fee charged at a landfill to bring shingles to recycling centers, but that many people are now enjoying a 50 percent savings by taking the material to recyclers.

"Ultimately this means jobs and economic benefits that are spread across the system," said Krivit.

There is an American Association of State Highway Transportation Officials (AASHTO) specification for the use of shingles in hot mix for roads, and the CMRA is pushing a similar specification through the American Society of Testing Materials.

"The Federal Highway Administration is highly supportive of the use of recycled shingles – they know it makes economic sense and has engineering benefits," said Turley, "but it does not have control over the specifications. They can only advise and advocate their use."

Krivit is working with states that have approved the use of shingles and those looking to do so.

"AASHTO, which was developed in 1996, was amended in 2009," he said. "It is generally viewed only as guidelines by the states, but it does provide the context and a peer reviewed starting point."

The Departments of Transportation (DOT's) in Minnesota, Iowa, New Hampshire and Wisconsin, he added, have just approved the use of tear-offs in manufacturer specs.

"If the DOT adopts the spec, then the market is ready to take off," said Krivit. "Since 1986 Minnesota has had a spec for the use of manufacturers shingle scrap, but as of January 1, 2010 the Minnesota DOT now allows, on a permissive basis, tear-offs. The Illinois Tolling Authority has also been working to demonstrate the use of recycled asphalt shingles (RAS) in its hot mix asphalt (HMA) pavements. But Missouri has been the real leader, adopting and implementing its first permissive spec for tear-off RAS in HMA over six years ago."

Turley added that California and Oregon are looking into allowing tear-offs and that Colorado just conducted a positive pilot project.

Canada is also jumping on the bandwagon. Ontario has a spec for manufactured scrap shingles and is looking to add tear-offs. Nova Scotia has allowed tear-off shingles and British Columbia and Manitoba are considering specs.

Interest in shingles has led to states and cities initiating pilot projects, with at least 24 being planned for 2010 and investments to promote the development of markets for shingle.

"Most governments are trying to be as green as possible and have sustainable purchasing policies and there are examples of states and cities purchasing hot mix specifically to help stimulate the market for tear-offs," said Krivit, "so if it costs no more than a virgin product, they'll give a preference to

a recycled product. This is the case for copy paper and other products, but it will eventually trickle down to highway departments. They are already purchasing recycled asphalt pavements – the big brother of recycled asphalt shingles.

Asphalt shingle manufacturing plants are doing their part by either recycling the castoffs on-site or selling the scrap to hot mix plants, who bid for the product.

"The same will happen with tear-offs in 5 to 10 years," said Krivit. "We are close to tear-offs becoming a commodity."

Turley said it's not necessary for hot mix producers to unite to purchase tear-offs as the savings are proven and they generally do not want to share any information on production costs with their nearby competitors.

A major barrier to using recycled shingles is the asbestos issue. Prior to around 1975, some shingles were manufactured with asbestos in them. As a result many regulators have been afraid to allow grinding of tear-offs because of a fear the asbestos would become friable.

"But many state regulatory agencies have developed protocols to assuage these fears, and that is helping open up the market," said Turley, who stresses that asbestos "hasn't been used in more than 30 years, so there are hardly any shingles with asbestos left out there. A CMRA member has done nearly 100,000 polarized light microscopy tests and has had only 16 hits for asbestos. It's rare, but regulators are still concerned and they are going to require testing. Fortunately in the states and provinces with higher tipping fees recycling shingles still makes economic sense, despite the testing requirement, to do the tests."

The United States Environmental Protection Agency (EPA) and state environmental agencies are helping to promote shingle recycling, especially via the CMRA, which is working with the EPA to help spread the word.

Turley said that more and more legislators are aware of the benefits of recycling shingles and working with the industry.

"As a general rule engineers are cautious – they don't want to take chances until a new product is fully proven. Once they have the opportunity to review the wealth of research and development project results, they often realize that shingle recycling is feasible and can help lower costs of our public highways. We are finding a lot of support."

He added that while there are other potential market applications that are theoretically possible, the immediate future for shingles rests with hot mix production. However, while some states allow hot mix with recycled content, individual states still insist upon conducting their own pilot projects before giving the green light.

"There is a federal 'pooled fund study' led by Missouri DOT, so there is cooperation going on between the states," said Krivit, "but in general, the states do their own thing. There are legitimate engineering reasons for this – differences between southern and northern climates, which require specific mixes for asphalt."

Krivit noted that highway pavement engineers use a variety of performance tests, including density and smoothness, to ensure that asphalt made with recycled materials meets the same standards as traditional asphalt mix.

Doosan names new dealer

Doosan Infracore Portable Power has named Energy Systems of Stockton, California an authorized dealer of its Ingersoll Rand-branded line of mobile generators for north-central California.

Energy Systems is a full-service turnkey company providing sales, service and rental of power generation systems. Energy Systems offers systems for various applications, ranging from 10 kilowatts to 2 megawatts. It adds to its fleet the 10 models of generators from Doosan Infracore Portable Power ranging from 25 kVA to 570 kVA.

Energy Systems has been in business since 1992, serving the western United States and the countries of the Pacific Rim. Besides providing power generation equipment, Energy Systems has an expansive parts and 24-hour service department. All service technicians are fully certified and able to service any make of generator, as well as perform load-bank testing and diagnostic service.

Remediation team set for Florida site

The United States Environmental Protection Agency (EPA) and Stauffer Management Company (SMC) officials announced the selection of the remediation team for the Stauffer Chemical Site in Tarpon Springs, Florida.

O'Brien & Gere has been selected as Stauffer's construction manager for the remediation project.

Envirocon, based in Missoula, Montana, has been selected to perform the construction of the project, with Black & Veatch Special Projects Corp. to assist with construction oversight.

Cleanup is estimated to take eighteen months, which includes: the consolidation and capping of contaminated soils in the north and south parcels of the site; installation of a cut off wall to reduce movement of groundwater contamination at the site; and restoration of the eastern shore of Meyers Cove. The project schedule is currently being refined.

New Mexico contractor to pay penalty for violations during dorm demolition

The Arizona Department of Environmental Quality and Arizona Attorney General's Office announced that an Albuquerque, New Mexico contractor has agreed to pay a \$225,000 penalty under a consent judgment for asbestos air quality violations. The violations occurred during the 2007 demolition of the Bureau of Indian Affairs school dormitory in Holbrook.

In May 2007, a subcontractor for Gerald A. Martin Ltd., a New Mexico corporation, began demolition of the dormitory. As the general contractor that was responsible for overseeing the demolition activities, Gerald A. Martin Ltd. was required to ensure compliance with asbestos removal and handling procedures prior to the demolition of the building. In August 2007, analysis

revealed that materials containing asbestos were disturbed during the demolition of the dormitory.

In August 2007, ADEQ issued an Order of Abatement to Gerald A. Martin Ltd. requiring compliance with state and federal asbestos air quality requirements. After consulting with ADEQ on measures to reduce the health risks associated with the removal of the contaminated debris, Gerald A. Martin Ltd. reportedly spent more than \$900,000 handling and disposing of the asbestos in the demolition debris in accordance with approved procedures. All of the demolition debris was removed by Nov. 7, 2007.

The consent judgment is subject to court approval.

Haiti clean up

■Continued from Page 1

with the orders if they would start using it. We are not nearly seeing the demolition material in our yards as we did three years ago," said Moro.

Moving mobile crushers to Haiti and providing all the support logistics to keep them operational will be a large undertaking. Each mobile crusher requires between 9 and 11 heavy-haul loads to move from one location to another. A crusher will have to be moved from a Florida location to a port, loaded on a roll-on-roll-off vessel, off loaded in Port Au Prince and trucked to a work site. Typically, it takes about a day and half to set up a plant, but in Haiti it will undoubtedly take longer.

For concrete demolition debris, one crusher realistically can process between 1,800 to 2,400 tons per day, and crush asphalt at anywhere from 3,000 to 4,000 tons a day. Magnets remove ferrous metals during the screening process, which are recycled as scrap.

"We are geared for larger jobs, 20,000 tons and up. We are also known for delivering a product that always meets the spec. We take material through the crusher and then we put it through a screen plant. If a material comes through oversized, the screen captures it and it is sent back on a return to be re-crushed. We can screen down to sand if required," said Moro.

Recycling construction materials from natural disasters seems to make economic and environmental sense, but is rarely practiced in the United States. "In most cases after a hurricane they are in such a hurry to get things cleaned up that they don't sort the material and everything gets landfilled and you lose the concrete and other salvageable material," Moro lamented.

After the 2004 Hurricane Charlie hit Florida, clean-up companies were paid by the yard, so most every yard that went to landfills resulted in wasted material that could have been recycled

and it resulted in end of life for several landfills. "After Charlie I was sitting here thinking we were going to get a lot of concrete to recycle, but they were not sorting it and most all was landfilled. We had a high school that was damaged by Charlie. They tore it down and brought it to us and we weighed all the material that came in. The school got LEED credits for bringing it to a certified recycler. Then we sold back the crushed material to the school as road base under asphalt parking lots, which they also earned the high school LEED credits for using recycled material," Moro cited as an example of an ideal disaster recycling scenario.

Recycling construction and demolition materials on-site in Port Au Prince makes better sense. As a remote island nation, importing anything is highly expensive, particularly tons of construction materials. Besides, much of the port facilities were damaged by the earthquake and what remains can be put to more urgent needs.

"From what I've heard about Haiti, they are planning to quadrant off the city and move out the population. Companies will go in, scrape the earth clean and build it back up again with hurricane and earthquake resistant structures," said Moro.

The economics of recycling C&D material vary depending on the nature of the project. The bigger the project, the better the economics of scale and Port Au Prince may prove to be huge. In the United States, recycled aggregate usually costs less per ton than virgin.

"If virgin DOT specified No. 57 stone, ¾ inch rock, costs \$20 a ton, recycled aggregate may be \$17 or \$18. But if you own the debris it's a completely different story. Recently they were tearing down an old football stadium and called us in to crush on site and make two inch aggregate to use as road base for the parking lot. Doing it that way on-site is much faster and cheaper than buying virgin," Moro noted.

In Florida, IRF routinely takes concrete highway and house slabs and large

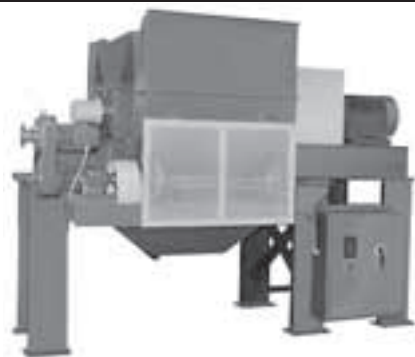
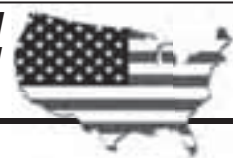
chunks from bridge demolition which contains large aggregate and crushes it back into smaller aggregates and road base. "After looking at the concrete they have in Haiti, you don't see a lot of aggregate. A lot of it looks like small, pebbly stuff which is very well suited to sidewalks, house slabs and many other building applications that use pump mix. We can crush it down to any size. They will have to decide what they want to use it for," said Moro.

For Haiti, IRF is planning on bringing two complete crusher packages including screen plants, loaders and

excavators with hammers and densifiers. IRF was told to bring experienced crews to get the plants up and running quickly. The plan is to eventually cross-train Haitians to do some of the work. At first Haitians will do more of the manual labor like picking debris not wanted in the crusher, but some Haitians may be trained as equipment operators.

"If we go to Haiti, the biggest challenge is we would have to be completely self-sustaining. We'd have to supply our own housing and all the resources to support our people and our equipment," Moro said.

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