



# American Recycler

NewsVoice of Salvage, Waste and Recycling

AmericanRecycler.com

## FOCUS: Organic Waste

### Municipalities' interest in organic recycling grows



#### WHAT'S INSIDE

- Republic Services opens its most advanced facility. Page A9
- Forest and paper industry reports on sustainability progress. Page A10
- Ohio Senate passes motorist safety legislation. Page 15
- Goodwill Industries expands used oil filter recycling. Page A16
- Meridian Waste launches commercialization plans for biomass facility. Page B3

Service Spotlight ...**NEW!**..... 8  
 Events Calendar..... 16  
 Salvaging Millions..... 16  
 Classified Advertisements..... 20  
 New Product Showcase..... 22  
 Equipment Spotlight..... B4  
 Industry Profile: A Closer Look .... B6  
 Scrap Metals MarketWatch ..... B7

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# Privatization of waste hauling expands nationwide

by MAURA KELLER

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There's one thing we know – it is becoming more difficult for municipalities to manage and maintain their waste facilities and fleets in a cost-effective manner.

Josh Allen, chief executive officer of Global Disposal, said that many municipalities are switching from open market programs and non-exclusive franchises to exclusive franchise programs.

“The commodities market is incredibly volatile, making it challenging to set prices for services,” Allen said. “Furthermore, new regulations such as requiring clean-fuel trucks, cost municipalities a lot of money to stay in compliance. For many municipalities, it makes more sense to outsource garbage pickup.”

Moreover, responsible waste and recycling solutions often require a combination of local, regional, out-of-state and overseas solutions, which may be challenging for municipalities to manage on their own. Allen said another key component driving this change is the passage of legislation such as California's SB 1383 (requiring 75 percent landfill diversion) which requires a more aggressive and progressive approach.

“This is often more than municipalities are willing or able to invest in,” Allen said.

By way of example, in Palm Beach County, Florida, the majority of its 39 municipalities have outsourced residential waste management. The trend is nationwide.

According to John Fumero, a government affairs and environmental attorney with the law firm of Nason Yeager who represents municipalities in waste hauling issues, more than half of U.S.



PHOTO COURTESY OF MCNEILUS

cities contract out all or a portion of their residential waste management services, including residential waste pickup.

“To be sure, waste management and pickup has become more and more costly, and complex, over the last two decades,” Fumero said. “Residences and businesses generate increasingly diverse quantities and types of waste, which results in a wider variety of waste collection requirements and needs. Many municipalities have found they are able to respond to these needs in a more fiscally prudent and efficient manner through outsourcing waste collection.”

Indeed, the key instigators behind municipalities making the move to privatize waste pickup services vary, but the primary driving factor is cost. It has been reported that many municipalities have found that privatizing waste management and pickup can result in savings that range from 20 to 40 percent. If properly carried out, private waste managers can

offer improved services at lower costs through economies of scale, as well as utilization of new technology such as computerized fleet and collection management.

Kristin Kinder, waste manager at Ecova, said franchising has been a trend for quite a while, but now the industry is seeing a few different models emerging. For example, some cities run their own infrastructure for hauling waste, some locations allow residents and businesses to contract with any waste hauler they prefer, and some cities contract with a professional hauling company or companies to collect all waste for them.

In the latter model, some cities elect to franchise just their residential waste, and others incorporate commercial waste collection with their franchise agreement.

“Moving from a model where cities hauled their own waste or where any waste hauler could collect waste to a

See PRIVATIZATION, Page 4

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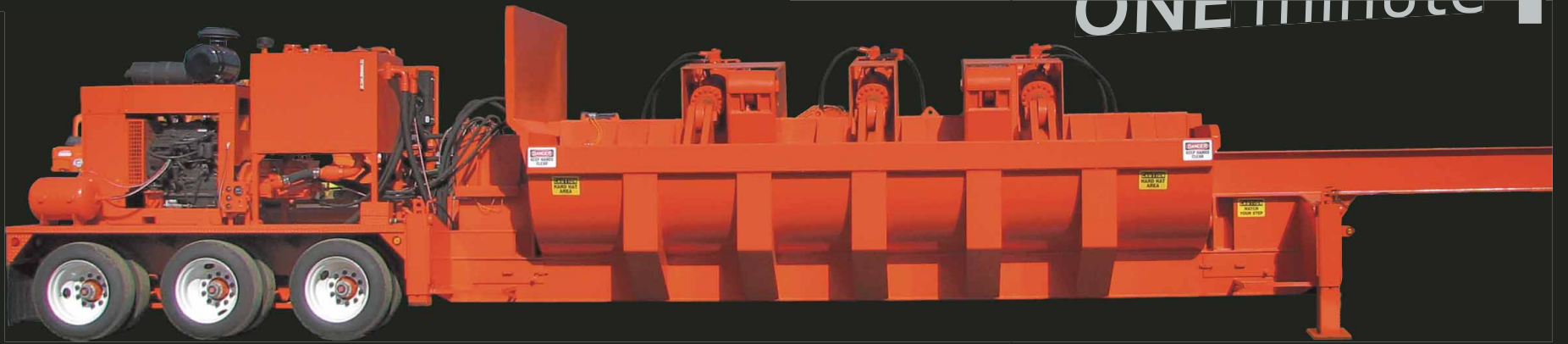
SEE PAGE A8



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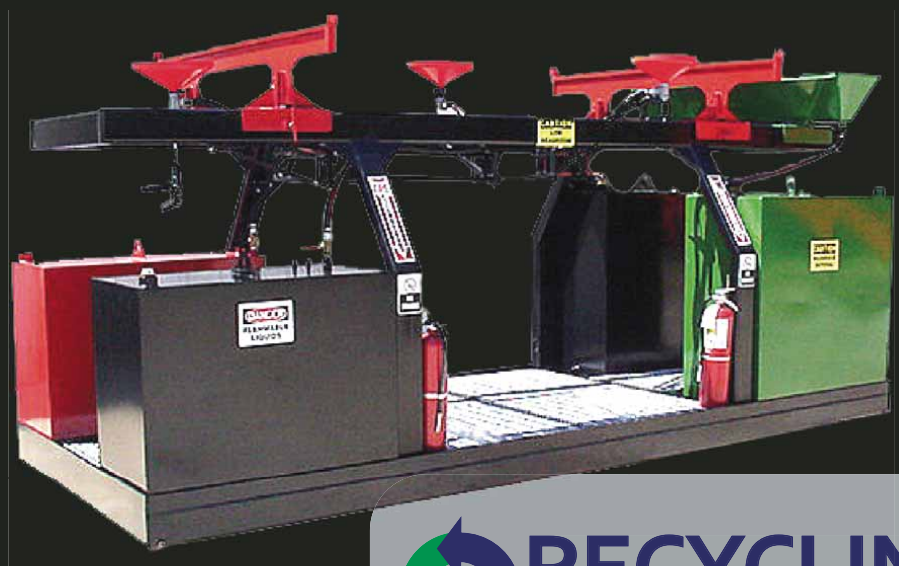
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# New recycling rule starts for self-haul customers in King County, Washington

Recycling is now a requirement for disposal customers with varying fees by material type

To reduce waste and save room in the landfill, the King County Solid Waste Division (SWD), beginning January 2, began to require customers at solid waste transfer stations and drop boxes to recycle cardboard, scrap metal, yard waste and clean wood at facilities where the materials can be recycled.

“The items we’re targeting in the new recycling rule account for about one third of what self-haul customers bring to our facilities to be disposed of as waste,” said Pat D. McLaughlin, SWD director.

The new rule applies to those that haul their own garbage, recyclable and compostable materials to King County transfer stations and drop boxes. Self-haul customers use the public lanes at the transfer stations.

“When recyclable materials are put back into the economy, they help create local jobs while conserving natural resources by reducing the need to create new products from virgin materials,” McLaughlin said.

Self-haul customers will find clearly marked recycling bins and areas for cardboard, scrap metal, yard waste and clean wood at SWD facilities that accept

those materials for recycling. Separating recyclable materials from garbage before coming to a station will save customers time.

There will be no change in garbage disposal fees as a result of this recycling requirement. And customers could save money by keeping cardboard, scrap metal, clean wood and yard waste separate from their garbage.

There is no charge to recycle cardboard and scrap metal at the King County facilities that accept those items for recycling. Paper, glass bottles and jars, aluminum and steel cans, plastic bottles, jugs and tubs, and textiles can also be recycled at no cost.

While there is a fee for recycling yard waste and clean wood (unpainted, untreated lumber, pallets and crates), that fee is 52 percent lower than the garbage disposal fee.

In 2016, recycling at King County transfer stations reduced harmful greenhouse gases by more than 33,000 metric tons, which is the equivalent of removing 7,000 cars from the road.

# Study finds nearly all lead batteries avoid landfills

A new study released in November found that lead batteries have a recycling rate of 99.3 percent, making them the number one recycled consumer product in the U.S. The near-perfect rate of recycling is attributed to industry investment in a state-of-the-art closed-loop collection and recycling system that keeps 1.7 million tons of batteries out of landfills annually.

The National Recycling Rate Study released by Essential Energy Everyday and Battery Council International (BCI), demonstrates the sustainability of lead batteries and their role in environmentally-friendly energy storage for automotive and industrial applications.

“Our goal for the lead battery manufacturing process is to collect and recycle and reuse lead batteries and their components. In essence, to create a ‘closed-loop industry’ that significantly reduces the demand on global resources,” said Mark Thorsby, executive vice president of BCI.

“On average, a new lead battery is comprised of more than 80 percent recycled lead battery material,” added Thorsby. “Every part of the battery, from lead and plastic to sulfuric acid, is recyclable and reusable in manufacturing new batteries. This reduces the need for new lead mining, reduces waste and helps keep lead out of landfills.”

In 2014, the EPA noted that the rate of lead battery recovery was almost 99 percent, the highest recycling rate among other more well-known recycled products such as newspapers (63 percent), aluminum cans (55.1 percent), tires (40.5 percent), glass containers (32.5 percent), PET bottles (32.2 percent) and more.

As the most accessible highly-sustainable battery technology, lead batteries’ innovative applications also reduce CO2 emissions from vehicles through start-stop battery technology, help power hybrid and electric vehicles and enable smart grid technology that improves the reliability of wind and solar farms.

The state-of-the-art closed-loop process that ensures lead batteries’ high rate of recycling is recognized by the World Economic Forum and MIT’s Center for Transportation and Logistics as the world’s most successful example of a circular economy – featuring the design, production, transportation, recycling and recovery of vehicle batteries.

The study was produced by Smith-Bucklin Statistics Group and was commissioned by BCI. The methodology for calculating the recycling rate considers new battery shipments, battery exports, imports of products containing a battery and imports of scrap lead and used batteries.

## Don't toss old toys

As you prepare to take out the old toys and bring in new, the Secondary Materials and Recycled Textiles Association (SMART) is encouraging people to donate and recycle rather than toss old clothes, bed linens, drapes, bath towels and even stuffed animals.

Items like your child’s old teddy bear can live a second life when you donate to a collection center. For example, SMART member Bank & Vogue Ltd sends stuffed animals on a journey to Central America. Collection locations across Canada and the U.S. package clean, soft toys and send them to countries such as El Salvador, where they are sold at thrift stores and end up at a new home with a child. In the past 2 years, Bank & Vogue Ltd has recycled approximately 1,400,000 lbs. of toys.

In addition to stuffed animals, nearly 100 percent of donated textiles are reused and recycled into three grades – usable clothing, fiber conversion grade and wiping cloth grade. This means a sock can be transformed into pillow stuffing, old denim into household insulation and an old towel into a wiping rag. Even if the item is stained, torn, overly worn, do not throw it away; it has a use in the textile recycling industry. Only items that are mildewed or have been used with a solvent-type liquid (gasoline) cannot be recycled.

To find the closest SMART member near you to recycle your textiles, visit [www.smartasn.org](http://www.smartasn.org).

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# Privatization

■Continued from Page 1

franchised model offers cities more centralized control to achieve their objectives with less responsibility," Kinder said. "Multiple haulers working in a city are often inefficient. In a franchised model, truck routing is more streamlined and organized, meaning fewer trucks are on the road. This model lowers greenhouse gas emissions and the wear and tear on roads."

The potential cost for a municipality to collect its own trash is more than just operating a fleet, but it includes potential liability and maintenance costs associated with having trucks on the road.

"Outsourcing this responsibility to professional waste haulers with large fleets and advanced systems not only cuts down on a city's operating costs, but it also limits safety liability," Kinder said. Ecova procures services for large, multisite companies. While Ecova's clients with sites in franchised cities are required to pay predetermined rates, the company focuses on helping them maintain service costs by right-sizing their equipment and optimizing their recycling programs.

"Typically, cities keep construction and demolition waste (C&D), recycling, and organics open market, so we have a lot of room to help clients secure competitive rates and improve their diversion," Kinder said.

With a constant dialog and interconnectedness, Ecova is also seeing that the franchise process encourages haulers and cities to build better partnerships and community.

"Contracting with one hauler also enables cities to better maintain and track quality of service, and find an instrumental partner to achieve their sustainability objectives, including tracking diversion," Kinder said. "They can also structure rates to encourage recycling."

## Challenges Facing Municipalities

According to Allen, the real challenge facing municipalities and their waste handling is successfully transitioning to exclusive franchise models and aligning the municipalities' goals and objectives with private haulers' desires to maximize profitability.

"If municipalities don't plan carefully, cost, quality and long-term goals can be hard to manage once the private haulers control the programs if transparent, flexible programs are not kept," Allen said. "It's difficult to blame waste haulers for choosing to only meet minimum objectives when exceeding those objectives is going to decrease profitability and keep them from hitting Wall Street expectations."

For example, a city may have long-term goals to remove as much waste from the landfill as possible, but in the agreement, the hauler must prove through the reporting process that a minimum 75 percent landfill diversion is met. The hauler may choose to only hit the 75 percent diversion rate when a 90 percent diversion rate is possible in order to maintain a higher level of profitability.

One additional drawback to the franchised approach is that franchise contracts typically last 7 to 10 years, so cities have limited flexibility to adapt to market changes quickly.

"It can also take a lot of work to implement these programs initially and manage contracts effectively," Kinder said.

Geoff Aardsma, vice president of client services at Enevo, a provider of waste and recycling services and analytics solutions, said the main drawback of outsourcing waste collection to private hauling companies for the municipalities is that they lose some control.

"The city has less oversight of the management of their pickup services, which are now being handled by the hauler who likely has several other customers," Aardsma said.

The biggest legal issue that municipalities face in outsourcing their waste collections to private haulers is contract compliance.

"It's important to set reasonable contractual terms for the hauler relationship that incorporate flexibility for changing market conditions in a way that is both enforceable and in the best interest of the city and waste management company," Aardsma said.

## Benefits Aplenty

One of the biggest benefits of using a franchise model is that waste providers, and in particular the recycling industry, are able to capitalize from economies of scale as they are awarded more municipal service contracts. "Under this concept, the private waste provider's cost per unit serviced decreases as the number of units served increases," Fumero said. "Simultaneously, this savings can be passed on to the municipality and, ultimately, the consumer."

In fact, the future benefits to municipalities and the recycling industry could be massive. Allen said the hope is that extensive data could be collected and used to facilitate the recycling of commodities which aren't cost-effective to recycle, so that municipal waste and recycling services could be improved. In addition, long-term pricing could be controlled with the right franchise management.

While recycling is open market for businesses in most franchised models, franchised models offer more control and reporting for municipal sustainability goals.

Kinder also stressed that this model strengthens the connection between city initiatives and the haulers and processors who are instrumental in achieving them.

"The benefits to municipalities include standards and reporting for recycling volumes and ensuring that recyclables are being properly handled for their residents," Kinder said.

Municipalities may also contract with recycling processors to sort and market their recyclables. In this model, they have a little more direct control over which recyclables are accepted and what happens to them after they leave the curb. That said, recycling processors are often squeezed between municipal commitments for collecting recycling and volatile market fluctuations.

In addition to getting more value for the cost of waste collection through privatization, municipalities also benefit from a limited risk and cost control for significant expenditures, such as maintenance for an aging fleet. "Also, in facing the driver shortage of today's waste industry, cities have access to more consistency with personnel when outsourcing their collection services," Aardsma said.

It's important for cities to not only evaluate their options when selecting a hauling partner for outsourcing waste and recycling collection. Those involved should also better understand the behavior and waste generation of their residents and businesses so they can match their contract with actual client needs.

"Switching to a franchise system is a cumbersome political process that is usually met with some of the standard legal issues that surround any big change in a municipal system," Allen said. "A more transparent market-place that allows data to flow freely will allow market changes to be less volatile and help decrease the costs of necessary programs as well as spur innovation. I think the waste industry is ripe for change and is still waiting for an Uber-like disruption that would help society reach or even exceed the recycling reformation it desires."

The future, as many industries are seeing today, will be powered by connected, innovative technology. Today, waste container sensors can monitor the amount of waste produced and provide data and insights to improve waste management programs. IoT technology replaces assumption with data in the waste and recycling industry. Technology enables more efficient and accurate collections and provides validation to the hauler's clients that the services are delivered as required.

"We are excited about the future of waste management as a technology-driven company, but also for the benefits it will have for waste generators," Aardsma said. "Technology will enable municipalities as well as other waste generators to be more educated about their waste needs. And with that transparency, they will not only be able to take advantage of more efficient and cost-effective waste and recycling collections, they will also regain some of the control in their waste management."

Fumero predicted that we'll continue to see an increasing number of municipalities look to privatization as the regulation of waste disposal and recycling becomes more complex. Especially in the past decade, many communities have taken on an increasingly green "eco-conscious" ethic. Communities want to know their waste disposal and recycling is done in a "sustainable" manner.

"Responding to these demands requires increased capital for new technologies that the private sector is typically in a better position to handle," Fumero said. "Municipal government can engage in public-private partnerships to privatize their waste pickup and management in a manner that is responsive to the demands of their community."

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# Recycling leaders and innovators honored in New Jersey

A construction recycling program with a 95 percent waste diversion rate, a school that consistently ranks as state champion in a recycling competition, and a nonprofit organization that supports economic development in low-income countries by collecting and shipping used or unwanted bicycles overseas, are among those honored as New Jersey recycling leaders.

William R. Bausmith of Princeton University in Mercer County; Egg Harbor City Community School in Atlantic County; and David Schweidenback of Pedals for Progress in Lebanon Township, Hunterdon County, were among the 10 businesses, organizations and people recognized during the 37th annual Association of New Jersey Recyclers (ANJR) symposium.

New Jersey in 1987 became the first state to require recycling, with the passage of the New Jersey Statewide Mandatory Source Separation and Recycling Act. Three decades later the Christie Administration continues developing policies to further raise recycling rates, while adapting recycling strategies to match current lifestyles. To that end, DEP requires counties to meet recycling tonnage targets and, with help from local and county partners, promote public participation in recycling programs.

In addition to the honors given by category, Dominick D'Altilio received a special Commissioner's Award for his more than 20 years of service with ANJR, and his important role in New Jersey's recycling efforts. D'Altilio has served more than three decades as Assistant Director of Public Works and Recy-

cling Coordinator for the City of East Orange in Essex County.

## Recycling Awards

**Business:** Humanscale, which manufactures ergonomic office furniture, achieved a 90 percent waste diversion goal for its facility in Piscataway, Middlesex County, by identifying all possible sources of waste diversion and then getting company employees on board with recycling plans. The result: recycling is profitable for the company, when it was previously an expense.

**Business:** Janssen Pharmaceuticals, a wholly owned subsidiary of Johnson & Johnson, has achieved several key environmental milestones, including a nearly 78 percent waste diversion rate in 2016 for its recycling program; LEED Gold Certification in 2014 at its Titusville, facility; reduction in medical and hazardous waste disposal from 2011 to 2012; and development of a food waste composting program in effect since 2011.

**Education:** Essex County Vocational Technical School - West Caldwell Campus The school in 2014 developed a school-wide recycling program thanks to a 2014 grant from the National Future Farmers of America Organization and CSX Corporation. The program has since expanded from everyday classroom recyclables to include cardboard, cans and food waste.

**Education:** David Alexander, Senior Naturalist at the Essex County Environmental Center, developed a recycling curriculum for students that not only facilitates trips to the center, but helps students use math to calculate average resident rates of waste disposal and recy-

cling. The program's successes have helped students develop stewardship practices at their schools and in their communities.

**Institution:** Egg Harbor Community School The Atlantic County school, which serves approximately 230 children, was the Keep America Beautiful Recycle Bowl National Champion in 2015, ranking first among nearly 1,300 schools nationwide for its recycling efforts and successes. The school also was named Recycle Bowl New Jersey State Champion in 2013, 2014 and 2016.

**Leadership:** William R. Bausmith, Associate Director of Construction and Management in the Department of Design and Construction at Princeton University, has developed and managed a construction recycling program that averages a 95 percent diversion rate for all construction and demolition waste. Bausmith achieved the high rate by developing contract standards, providing incentives for positive behavioral changes, and creating web-based recycling reporting systems.

**Source Reduction, Resource Management, And Sustainability:** Pedals for Progress, a nonprofit organization, has diverted an estimated 100,000 lbs. of materials in 2015 and 88,000 lbs. of materials in 2016 from landfills and other waste streams by collecting and shipping used bicycles and sewing machines to partner organizations. Since its founding in 1991, Pedals for Progress has diverted more than 4.5 million lbs. of materials from the waste stream.

**Source Reduction, Resource Management, And Sustainability:** New Jersey

Habitat for Humanity ReStores Habitat for Humanity ReStores are building supply outlets that sell new and gently used building supplies, furnishings and appliances to help promote neighborhood revitalization while reducing landfill waste. The Northern Ocean County Habitat ReStore in fiscal year 2016 diverted nearly five times more waste than it did in 2001, while the Warren County ReStore has seen a steady improvement of 5 percent annually.

**Rising Star:** Camden City School District The Camden County district has implemented recycling programs, training for educators and administrators, and focused efforts in classrooms, the cafeteria and districtwide. Due to those efforts, the district has reached its recycling goals, and is meeting standards once difficult to achieve.

**Government:** Perth Amboy Office of Recycling The Perth Amboy Office of Recycling, a division of the Middlesex County city's Department of Public Works, has developed the Recycling Buddy Bag Program, which instructs residents on how to recycle.

**Commissioner's Award:** Dominick D'Altilio received a special Commissioner's Award for his instrumental role of more than two decades for promoting and advancing recycling through ANJR. D'Altilio, who has served for 35 years as Assistant Director of Public Works and Recycling Coordinator for the City of East Orange in Essex County, joined the ANJR Board in 1993 and served as president from 2003 to 2017 until stepping down earlier this year and becoming a board member emeritus.

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# BEKA breaks ground on new plant in Wannberg



With a new 110,000 sq.ft. facility being built, Bekaworld is responding to the increased demands for their products and engineering skills.

As a result of the steady growth of Beka and its global operations, along with the introduction of many new product lines serving industries across the globe, Beka is expanding its manufacturing facility in the Pottensteiner district of Wannberg.

Beka is a global provider of automatic lubrication systems for industrial, over-the-road and off-road applications.

According to Sven Pitman, president of Bekaworld, the 110,000 sq.ft. facility with 300 work stations will be created to help meet the market demand

for the new product lines. It will also house the administrative offices and is expected to be completed by this time next year.

In keeping with the corporate philosophy, Beka management announced that this state-of-the-art facility will incorporate energy efficiency and sustainability. "Not only will it have an environmentally friendly heating system using biomass pellets and heat pumps," said Pitman, "but the heat of the pumps will also be recovered and recycled back into the system."



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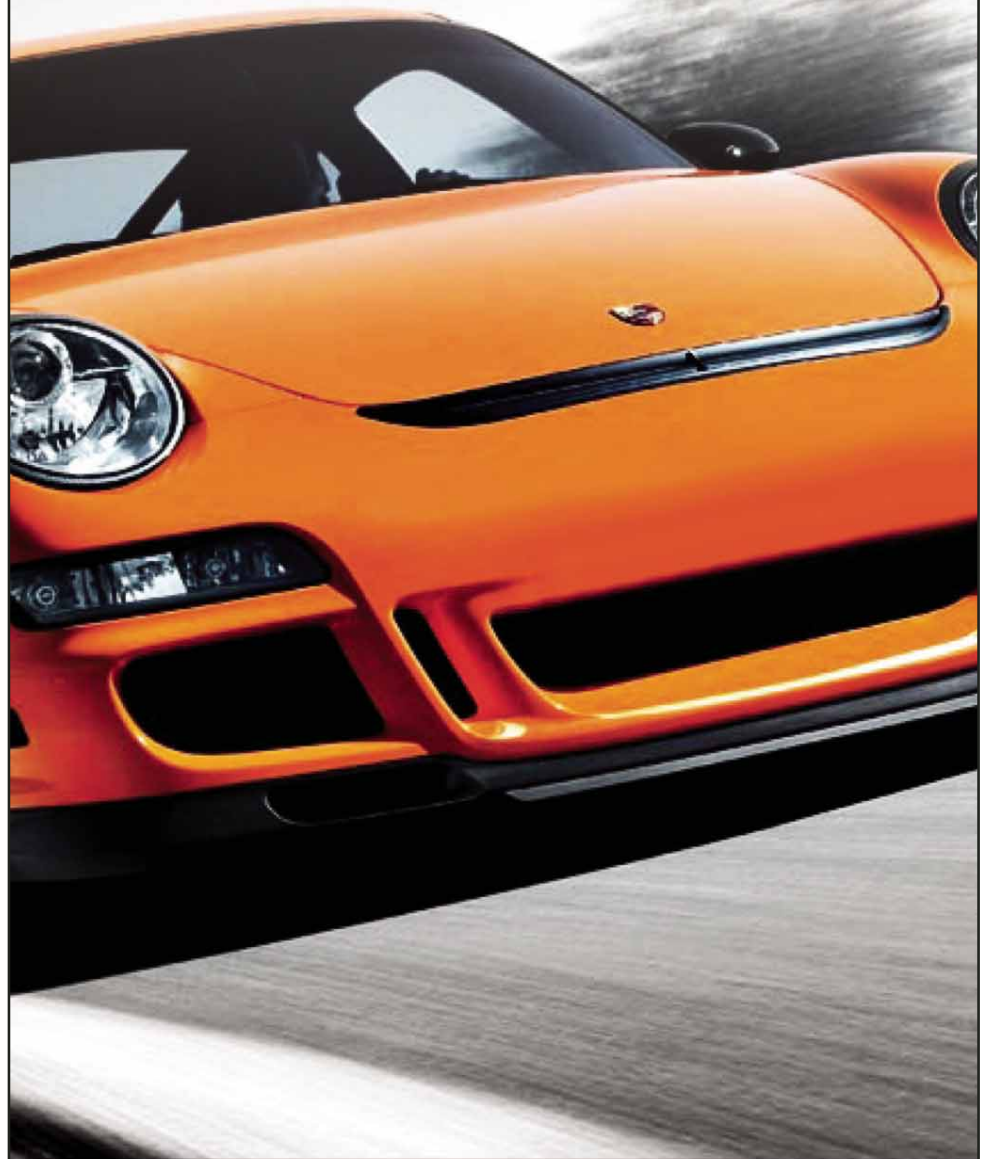
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# WASTE

## Aemerge RedPak opens new medical waste treatment center

Aemerge RedPak, a pioneer in technology resulting in cleaner, smarter and more renewable approaches for handling waste and producing energy, has opened a medical waste treatment facility that destroys and sterilizes medical waste, converts it to clean energy and diverts up to 95 percent of treated waste from landfills. The new \$55 million facility will create 30 jobs.

To commemorate, RedPak was joined by California's Business Incentives Gateway, the City of Hesperia and the Governor's Office of Business and Economic Development for a ribbon cutting ceremony and open house at the facility.

"With no previous alternatives, California currently disposes much of its infectious medical waste by hauling it to incinerators across the country, which is not only inefficient, but also has significant negative impacts on the environment and surrounding communities," said Adam Seger, president of Aemerge RedPak.

Since 2001, when California's last medical waste incinerator was shut down in Oakland, approximately 720 million pounds of medical waste have been hauled long distances to be treated

in other states as far as Maryland, Indiana, Kentucky, Alabama, North Dakota, Oregon, and Utah. Certain categories of medical waste such as pharmaceuticals, trace chemo, pathological, and anatomical require high heat treatment and incineration and out of the State's borders was the only option, until now.

Aemerge RedPak operates the only fully permitted "high heat" treatment facility in California for all categories of medical waste, including pharmaceutical, pathological, trace chemo, sharps and biohazardous materials. It treats all these forms of waste through a first-of-its-kind advanced patented technology system called the Carbonizer.

The Carbonizer system works by processing organic waste in a negative pressure, no oxygen environment with high heat. The result of waste treatment is three simple, sterile co-products: synthesis gas (syngas) which is captured and converted to clean energy, treated glass and metals which are recycled, and carbon char which is repurposed as alternative fuel. As a result of this process, 95 percent of waste treated is diverted from landfills.

## NY expands benefits for sanitation workers

New York Governor Andrew M. Cuomo signed legislation to provide enhanced disability retirement benefits to uniformed police officers, firefighters, corrections officers and sanitation workers in New York City. The new legislation will expand accidental disability benefits for eligible uniformed workers, regardless of whether or not they are eligible for a normal service retirement benefit. Additionally, the new law will allow retirees who are receiving an accidental disability pension to continue to do so.

"In New York City, uniformed workers serve on the front line of preserving the safety, health and wellbeing of residents – it is crucial that we offer them the same level of support in return," Governor Cuomo said.

Under the previous law, members of uniformed services were not eligible for a three-quarters disability pension after reaching the benchmark for a regular pension – after approximately 20 years of service.

The newly enacted legislation expands accidental disability benefits so that all of the 64,000 members of New York City's uniformed services are eligible for the three-quarters disability pension, regardless of the amount of years served. State Police are already entitled to the three-quarters pension benefit, and this new law restores parity all across the board.

# SERVICE SPOTLIGHT

## Junk Haulers

by MARY M. COX

maryc@americanrecycler.com

There is a lot of "stuff" out there and clearly, some of it is unwanted, making it "junk". Some stuff may or may not be worth anything or worthy of recycling. Many of us don't have the time or the energy to decide these possibilities, whether the situation exists in a private or commercial setting. We just have junk and we'd like to be relieved of it. Whether choosing a national or regional source for help, the solution is just a call away.

JDog is a national company providing a full range of junk removal and hauling services. No job is too big or too small for JDog and choosing them over other vendors is easy because JDog arrives on time and guarantees the lowest price for their customers. The firm's unique mission supports veterans as the company awards franchises exclusively to military veterans and veteran family members – people who understand the notion of service to our country, hard work, and dedication. The

company was started in Chesterbrook, Pennsylvania by Jerry Flanagan and his wife Tracy. They decided to offer franchises to provide more opportunities for veterans to be their own boss. "The community JDog has built across the country brings back that same ethos of brotherhood you may have once had in the military. We're more than just a franchise system, we're a family," stated Lauren Lampe, director of marketing.

JDog has awarded more than 250 territories operating in 36 states and will continue to expand that movement, nationwide. Lampe said, "You can learn more about JDog and the opportunities we have for veterans and their families by attending one of our Discovery Days. The event provides the chance to visit our headquarters in Philadelphia, meet our team, and gain all the information you need to establish a successful career while utilizing your military experiences."

A regional firm located in Austin, Texas also began with a

husband and wife team. Junkbusters USA began in 2004 and the company requires only three easy steps to help those who call. First, call or book online to set a time for them to visit you. Next, a friendly, uniformed team member will call you 30 minutes before arriving, as a reminder that they are on the way. Last, one of their shiny, clean, lime green trucks will be efficiently loaded with your junk and team members will also do a general clean-up of the area before leaving. Junkbusters will recycle and donate everything they can to local charities such as Goodwill, Salvation Army or Habitat for Humanity. The company then disposes of any left-over items and calls you the next day to confirm that you were pleased with their work.

Junkbusters USA is run based on the following foundational goals – act with sincere care for the customer, always do the right thing, take care of employees, make a difference in the world, take care of the planet, give back to the community and have fun along the way.

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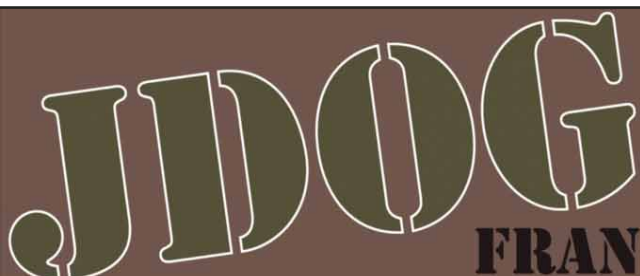
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## WASTE

### Republic Services opens its most advanced facility

Republic Services unveiled its newest and most advanced hauling facility which is expected to serve customers throughout North Texas for generations. The new 25,000 sq.ft. facility features a contemporary workspace for employees, various employee amenities and modern infrastructure to support hauling and maintenance operations.

The new facility was designed as a model for future Republic hauling divisions, incorporating sustainability principles into both planning and construction. This involved using recycled steel in the building frame, high-efficiency heating and cooling systems and an LED lighting system. In addition to contemporary employee workspaces and sustainability features, the facility is

home to a modern eight-bay truck shop and maintenance area. This includes stylish, custom lockers for front line personnel that are equipped with USB chargers and multiple storage compartments for personal belongings.

Republic Services of North Texas employs more than 1,400 people in the Dallas-Fort Worth area. This team serves approximately 53,000 commercial and industrial customers as well as roughly 423,000 residential customers, including 96 community collection agreements. Throughout the Metroplex, Republic owns and operates 655 collection vehicles, including 105 vehicles powered by compressed natural gas (CNG), eight hauling divisions, six active landfills and one recycling center.

### NWRA applauds house decision

The National Waste and Recycling Association (NWRA) sent a letter to House Small Business Committee Chairman Steve Chabot (R-OH) thanking him for holding a hearing on the impact of federal regulations on the small trucking industry.

Darrell Smith, president and chief executive officer of NWRA said, "We applaud Chairman Chabot for holding a hearing on such an important issue. NWRA represents the private sector waste and recycling services industry and few industries touch every taxpayer and business like ours. Most federal reg-

ulations apply to all market participants regardless of their size and business model. Regulations designed for long-haul trucking operations are not necessarily helpful or beneficial to haulers who operate daily routes with frequent starts and stops. A one-size-fits-all approach to the regulatory process does not encourage job creation or expansion and can work against short-haul trucking operations, especially smaller companies. It is important Congress understands the impact federal regulations have on small businesses, particularly in the waste and recycling industry."

### Canada recognizes grand opening of solid waste transfer facility

The Government of Canada is committed to developing sustainable waste management systems through modern infrastructure, operations, training and partnerships in consultation with our First Nation communities.

The Honourable Jane Philpott, Minister of Indigenous Services, congratulated the Louis Bull First Nation for the grand opening of the Louis Bull Solid Waste Transfer Facility. The Transfer Station was an initiative of the Louis Bull Tribe, Keepers of the Land, in support of their efforts to conserve, protect, enhance, restore and manage the environment.

This government knows that investments in solid waste management systems on reserve are critical both to protecting human health and safety and the environment. These facilities provide communities like Louis Bull with the tools to protect their environment and families.

This facility was made possible through extensive collaboration with the Louis Bull Nation and nearly \$1.3 million from the First Nations Infrastructure Fund, with a further \$409 million dollars being invested over the next five years through the First Nations Waste Management Initiative through Budget 2016.

### Waste optimization plant planned

TransAct Energy Corp has signed a conditional purchase agreement for an 18.4 hectare, greenfield, industrial site located in the industrial zone of El Salto, Jalisco Mexico. The plans

This site will now undergo technical reviews to assure its compatibility including geotechnical, hydrogeological, seismic and environmental impact studies. The site was selected based on its perceived compliance with zero emissions waste optimization plant (ZEWOP) guidelines.

Subject to the land being approved for use and ownership, TransAct will pay approximately \$10.5 million. The land is larger than required, the balance can be sub-divided off and resold.

"The Agreement marks a major milestone for TransAct. With the land now under contract, we can focus on moving forward with introducing the first ZEWOP to Mexico. Our next step will be to obtain the requisite permits and permissions," said TransAct chief executive officer, Rod Bartlett.

### EPA removes the Shpack Landfill from the priorities list

The U.S. Environmental Protection Agency has removed the Shpack Landfill, a superfund site located in Attleboro and Norton, Massachusetts, from the National Priorities List (NPL, aka Superfund). Deleting sites from the NPL may occur once all response actions are complete and all cleanup goals have been achieved. EPA added the site to the NPL in 1986.

EPA and the State of Massachusetts concluded that all appropriate Superfund financed responses under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), have been implemented and that no further cleanup by responsible parties is appropriate for the Site, except for wetland restoration monitoring. Moreover, EPA and the Massachusetts have determined that cleanup actions conducted at the site to date continue to be protective of public health and the environment.

The Shpack Landfill operated as a private landfill from 1946 to 1965. It received industrial and domestic wastes, with the major use of the landfill occurring between 1951 and 1965. A court order closed the landfill. In 1978, the Nuclear Regulatory Commission (NRC) was contacted by a citizen who detected elevated radiation levels at the site. The NRC investigated and confirmed the presence of radioactivity above natural levels. The primary contaminants found were radium-226, uranium-238 and uranium-235.

It is not known exactly when these radioactive materials were deposited, but

an NRC investigation determined that the former M&C Nuclear, Inc., of Attleboro (which merged with Texas Instruments, Inc., in 1959) had used the landfill for the disposal of trash and other materials, including zirconium ashes, associated with nuclear fuel operations at the facility from 1957 to 1965. In 1980, the site was added to the Department of Energy's Formerly Utilized Sites Remedial Action Program (FUSRAP) to address the legacy of the nation's early atomic energy programs. Responsibility of FUSRAP was later transferred to the U.S. Army Corps of Engineers (USACE).

Cleanup of the site was implemented in two parts, first with the USACE completing the FUSRAP remedial action to address the radiological contamination in 2011, followed by the CERCLA or Superfund remedial action to address non-radiological contamination.

EPA expects that no further Superfund response is needed at this Site to protect human health and the environment. Following standard procedure for completed cleanup work under Superfund, EPA will continue to conduct reviews of the Site every five years, starting in 2018, to ensure that human health and the environment remain protected. EPA may initiate further action to ensure continued protectiveness at a deleted site if new information becomes available that indicates it is appropriate. The first statutory five year review report will be completed prior to June 12, 2018.



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## PAPER

# AF&PA releases updated paper reports for October

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

### Containerboard

Containerboard production was up 5.1 percent compared to October 2016. The month-over-month average daily production compared to September 2017 was 3.1 percent higher. The containerboard operating rate for October increased from 95.9 percent to 101.3 percent, which was 6 percentage points higher than October of last year.

Year-to-date production of containerboard for export is up 3.5 percent, with the October volume surging 16.2 percent above the same month last year.

### Printing-Writing Paper Report

According to the October 2017 printing-writing monthly report from the American Forest & Paper Association, total printing-writing paper shipments decreased seven percent in October compared to October 2016. Shipments of uncoated free sheet managed a year-over-year increase but this was more

than offset by decreases in the remaining three major printing-writing grades. U.S. purchases of printing-writing papers also decreased, down nine percent in October. Total printing-writing paper inventory levels decreased nine percent from September 2017.

•October uncoated free sheet (UFS) paper shipments increased year-over-year for the second time this year. Imports of UFS decreased by 12 percent year-over-year in September – the fourth consecutive decrease of 12 percent or more. Meanwhile, exports of UFS papers continue to climb, up 26 percent year-over-year in September, the fifth consecutive increase of 17 percent or higher.

•Recent mill shuts leave coated free sheet (CFS) paper shipments down year-over-year. This is a significant change from the previous month's peak for the year, as two recent mill shuts factor in to the decline this month. U.S. imports of CFS papers decreased 17 percent year-over-year in September,

the third consecutive year-over-year decline. Meanwhile, exports of CFS papers increased 4 percent year-over-year in September, the seventh increase in the past nine months.

•Coated mechanical (CM) paper shipments declined year-over-year in October for the fifth consecutive month. Imports of CM increased in September, up 23 percent compared to September 2016. Exports of CM decreased, down 9 percent in September to 24,200 tons – the lowest level in more than 5 years.

•Shipments of uncoated mechanical (UM) papers have declined year-over-year in every month when compared to the same month in 2016. Imports of UM decreased 13 percent year-over-year in September and exports of UM decreased 4 percent year-over-year in September.

### Boxboard Report

Total boxboard production increased 3.5 percent when compared to October 2016 and increased 3.0 percent from September.

Unbleached Kraft Boxboard production increased over the same month a year ago and increased compared to September.

Total Solid Bleached Boxboard & Liner production increased when compared to October 2016 and increased compared to September.

The production of Recycled Boxboard increased compared to October 2016 and increased when compared to September.

### U.S. Packaging Papers & Specialty Packaging

Total Packaging Papers shipments were 223,400 tons, 1.6 percent lower than October 2016.

Bag & Sack shipments are up 3.3 percent year-to-date, while Food Wrapping shipments are down 7.1 percent over the same period. The operating rate for October 2017 was 85.5 percent, while the year-to-date rate was 88.3 percent. Inventories were 167,800 tons, down slightly since September.

## Forest and paper industry reports on sustainability progress

The International Council of Forest and Paper Associations' (ICFPA) launched its 2017 Sustainability Progress Report. It is the sixth biennial report highlighting members' progress on the sustainability commitments agreed upon in the 2006 Leadership Statement on Sustainability.

"We are proud to announce our global industry's continuous progress, which represents our commitment to social and environmental aspects associated with forest management and the manufacture of forest-based products," said ICFPA president Jane Molony.

"The U.S. pulp, paper, packaging, tissue and wood products manufacturing industry remains devoted to advancing sustainability performance," said American Forest & Paper Association president and chief executive officer Donna Harman. "In 2016, our Better Practices, Better Planet 2020 sustainability initiative reported a 16 percent greenhouse gas (GHG) emission reduction, surpassing the 15 percent reduction goal ahead of schedule. Our members quickly moved to set a new GHG reduction goal of 20 percent by the year 2020 and are focused on contributing that progress to worldwide sustainability achievements."

The global sustainability performance of the forest product industry is improving, with all aggregate indicators for reporting associations showing progress from their respective baseline years:

•Since 2004/2005, ICFPA members reduced their greenhouse gas emissions intensity by 16 percent, and increased the share of bio-energy in the fuel mix by 10.3 percentage points.

•The total sustainable forest management-certified area used to supply the global industry reached 54 percent in 2015, up from just 12 percent in 2000.

•The global paper recycling rate reached 58.9 percent in 2015 – a 12.4 percentage point increase from 2000.

•Members improved their on-site energy intensity by 1.1 percent since the 2004/2005; reduced their SO<sub>2</sub> emissions by 48 percent from 2004/2006; and reduced their use of process water by 7.2 percent since 2004/2005.

•Members' recordable incident rate was improved by 24.5 percent since 2006/2007.

The ICFPA represents 19 pulp, paper, wood and fiber-based associations that encompass 36 countries, including many of the top pulp, paper and wood producers around the world.

For a direct link to the report, view this article on [www.AmericanRecycler.com](http://www.AmericanRecycler.com).

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# PLASTICS

## Polystyrene recycling up

For the past two decades, the expanded polystyrene (EPS) industry has consistently developed better recycling methods and increased waste diversion, despite negative media coverage and legislative ban initiatives that continue to say it's not recyclable.

Growth in EPS recycling can be attributed to ongoing EPS recycling innovations and a willing effort. For example, San Diego City Council decided against a polystyrene ban and instead incorporated EPS into their existing curbside program; they are now benefiting from polystyrene recycling along with 56 other cities.

According to the 2016 Expanded Polystyrene Recycling Rate Report, the spread of EPS recycling is not limited to cities and municipalities. The report shows that over 118 million pounds of EPS were recycled in 2016, a figure representing 45 companies and independent recyclers. Compared to just four years ago, the amount of EPS recycled has increased by more than 25 million pounds.

In an effort to see EPS recycling continue to grow; Agilyx and FoamCycle are two companies expanding collection access: Agilyx has established the first commercially viable pyrolysis system that chemically recycles polystyrene, opening a new plant in Portland, Oregon earlier this year. FoamCycle, in operation since 2015, created an all-in-one EPS recycling station that can be placed in almost any location.

## Scrapo facilitates recyclables trading

More than 90 percent of plastic products are not recycled and almost 75 percent of them find their way in the landfills. This has resulted in more than 6 billion tons of plastics being dumped in landfills so far and that number increases every year. It takes more than 500 years for most of these plastic materials to decompose completely.

While one way to tackle this situation is to reduce the production of plastic materials by reducing the consumption itself, we all know plastic products have become an indispensable part of our daily lives. The other way is to ensure that plastic scraps are reused and recycled.

Scrapo, Inc., a Silicon Valley startup, believes that if we are able to bridge the gap between plastic scrap buyers and sellers, it would have a tremendous positive impact on the environment. Rashad Abbasov, the chief executive officer of Scrapo, Inc., noted, "We have to understand that if plastics continue to find a place in landfills or in the ocean instead of recycling centers or production plants, we are all going to suffer. So we thought why not help plastic scraps find the right place? Even if our efforts lead to a single percentage increase in the amount of plastics recycled or reused globally, we would be happy that we contributed towards making the world a better place."

Scrapo's idea is simple – make it easier for buyers and sellers of plastic scraps to instantly discover, negotiate



and close deals so that more plastic scrap is consumed. A seller can list their materials in Scrapo in seconds and receive bids from interested buyers from all across the globe. Best of all, with Scrapo mobile apps you can do it right from your phone. To facilitate trade in the platform, Scrapo has integrated real-time communication tools so that traders don't need to check their e-mails or place a telephone call anymore.

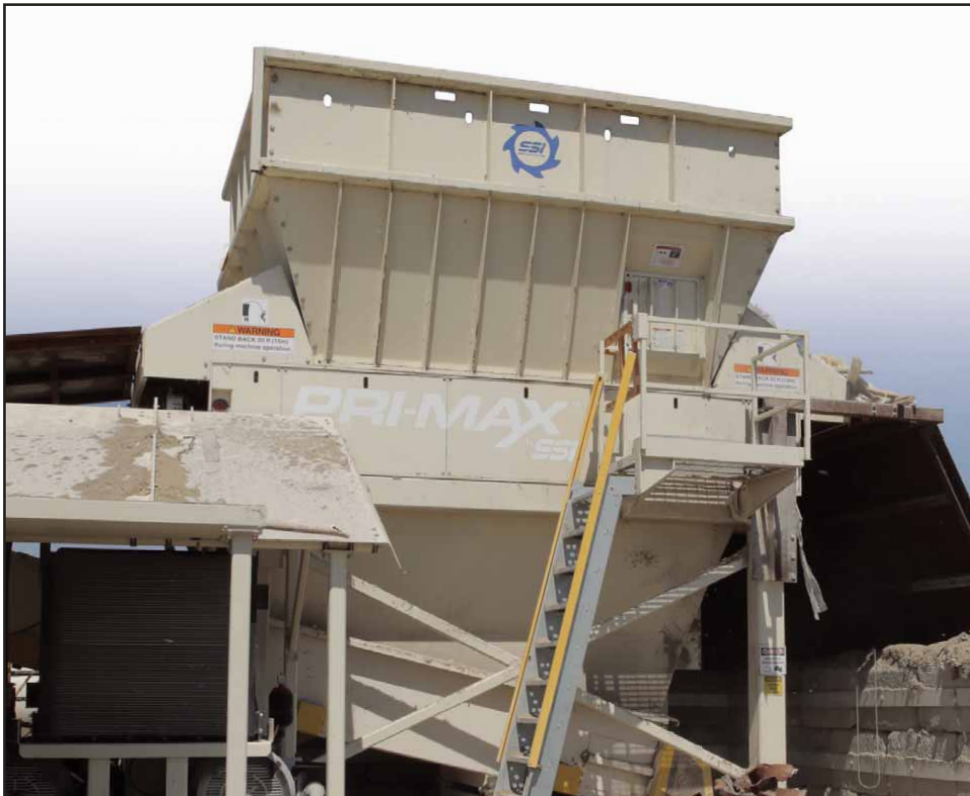
"The idea is to promote free market philosophy and increase participation through use of technology," added Abbasov, "If you as a trader, big or small, have access to hundreds of offers instead of a few, you are more likely to find a better deal and close it sooner."

One of the factors that undermine the market efficiency and create barriers for trade in this industry is the lack of trust between buyers and suppliers. Buyers in most cases don't know

suppliers, nor can they be sure of the quality of the material they should expect to receive unless they visit and inspect materials at the seller's site themselves. This is a greater concern for buyers who trade with sellers outside of their home country.

Similarly, from a seller's perspective, guaranteed on-time payment is a big concern. There are some marketplaces which verify a trader's identity online when they register on their platform. However, just verifying the identity is not enough. Guaranteeing quality and payment is equally important to facilitate a smooth and secure deal.

When asked what his take on the trust issue is, Abbasov said, "We understand that trust is the biggest concern surrounding this industry. That's why we have come up with an innovative solution – an on-demand service called ScrapoSure – to ensure trust and security. If a buyer is ready to move ahead with a deal which he has negotiated with the seller, he can opt to use ScrapoSure. Under this service, Scrapo's team personally visits the seller's site, verifies their identity, inspects the materials the seller has, supervises the loading process and assists with the logistics. Scrapo also provide escrow payment services so that if all goes well with the deal, the seller receives the payment as soon as the material is shipped. We want to make recyclables trading as easy and secure as buying a book on Amazon."



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# METALS

## Steel imports up 19 percent through October

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 3,119,000 net tons (NT) of steel in October 2017, including 2,493,000 net tons (NT) of finished steel (unchanged and down 0.4 percent, respectively, vs. September final data). Year-to-date (YTD) through ten months of 2017, total and finished steel imports are 32,850,000 and 25,449,000 NT, up 19.4 percent and 15.4 percent respectively, vs. the same period in 2016. Finished steel import market share was an estimated 27 percent in October and is estimated at 28 percent YTD.

Key finished steel products with significant import increases in October compared to September include wire rods (up 32 percent), cut lengths plates (up 27 percent), plates in coils (up 23

U.S. IMPORTS OF FINISHED STEEL MILL PRODUCTS BY COUNTRY OF ORIGIN (Thousands of Net Tons)					
	OCT 2017	SEP 2017	2016 Full Year	2017 Annualized	% Change 2017 Annual vs. 2016
SOUTH KOREA	372	328	3,812	3,993	4.8%
TURKEY	112	121	2,416	2,478	2.6%
JAPAN	72	170	1,798	1,568	-12.8%
GERMANY	156	154	1,192	1,392	16.8%
TAIWAN	122	120	1,083	1,378	27.2%
BRAZIL	89	110	823	945	14.9%
RUSSIA	68	78	310	869	180.3%
CHINA	57	59	862	835	-3.1%
All Others	1,444	1,366	14,043	17,080	21.6%
<b>TOTAL</b>	<b>2,493</b>	<b>2,504</b>	<b>26,338</b>	<b>30,539</b>	<b>16.0%</b>

percent) and standard pipe (up 10 percent). Major products with significant YTD increases vs. the same period in 2016 include oil country goods (up 231

percent), line pipe (up 68 percent), standard pipe (up 44 percent), mechanical tubing (up 34 percent), cold rolled (up 26 percent), sheets and strip all other

metallic coatings (up 25 percent), hot rolled bars (up 21 percent) and sheets and strip hot dipped galvanized (up 17 percent).

In October, the largest volumes of finished steel imports from offshore were from South Korea (372,000 NT, up 14 percent from September final), Germany (156,000 NT, up 2 percent), Taiwan (122,000 NT, up 2 percent), Turkey (112,000 NT, down 7 percent) and Brazil (89,000 NT, down 19 percent). For the first ten months of 2017, the largest offshore suppliers were South Korea (3,328,000 NT, up 2 percent vs. the same period in 2016), Turkey (2,065,000 NT, down 1 percent), Japan (1,307,000 NT, down 17 percent), Germany (1,160,000 NT, up 14 percent) and Taiwan (1,148,000 NT, up 35 percent).

## Nucor Corporation to build rebar micro mill in Missouri

Nucor Corporation will build a rebar micro mill in Sedalia, Missouri, about 90 miles east of Kansas City. Following its approval by the Missouri Development Finance Board, the project was formally announced at an event with Governor Eric Greitens held at Lowell Mohler Assembly Hall. The new micro mill project represents at least \$250 million in new investments and is expected to start up in 2019 pending the final approval and award of state and local incentives as well as required permits and regulatory approvals.

“This rebar micro mill project is consistent with our long-term strategy for profitable growth and builds on our position as a low cost producer,” said John Ferriola, Chairman, chief executive officer & president of Nucor. “Strategically positioning this micro mill in the Kansas City area will give us a sustained cost advantage over other domestic steel producers supplying rebar from outside the region.”

Rebar supply to the Kansas City, upper Midwestern and Plains markets currently travels long distances,

giving the micro mill in Sedalia a logistical advantage. This location will also allow the Company to take advantage of the abundant scrap supply in the immediate area provided by Nucor’s scrap business, The David J. Joseph Company.

The rebar micro mill investment is expected to create 255 full time jobs paying an average annual salary of approximately \$65,000. In addition, the project will create 450 temporary construction jobs.

“Happiness is a butterfly, which when pursued, is always just beyond your grasp, but which, if you will sit down quietly, may alight upon you.” —Nathaniel Hawthorne



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## METALS

# Steel import market share at 25 percent in November

Based on the Commerce Department's most recent Steel Import Monitoring and Analysis (SIMA) data, the American Iron and Steel Institute (AISI) reported that steel import permit applications for the month of November totaled 2,850,000 net tons (NT). This was an 8.8 percent decrease from the 3,123,000 permit tons recorded in October and a 10.5 percent decrease from the October final imports total of 3,183,000 NT. Import permit tonnage for finished steel in November was 2,207,000, down 13.6 percent from the final imports total of 2,554,000 in October. For the first 11 months of 2017 (including November SIMA permits and October final data), total and finished steel imports were 35,764,000 NT and 27,718,000 NT, up 17.9 percent and 14.6 percent, respectively, from the same period in 2016. The estimated finished steel import market share in November was 25 percent and is 27 percent year-to-date (YTD).

Finished steel imports with large increases in November permits vs. the October final included standard rails (up 1698 percent), hot rolled bars (up 13

percent) and tin plate (up 12 percent). Products with significant year-to date (YTD) increases vs. the same period in 2016 include oil country goods (up 226 percent), line pipe (up 69 percent), standard pipe (up 41 percent), mechanical tubing (up 31 percent), hot rolled bars (up 26 percent), structural pipe and tubing (up 22 percent), sheets and strip all other metallic coatings (up 22 percent), cold rolled sheets (up 18 percent) and sheets and strip hot dipped galvanized (up 15 percent).

In November, the largest finished steel import permit applications for off-shore countries were for South Korea (216,000 NT, down 45 percent from October final), Germany (171,000 NT, up 9 percent), Japan (110,000 NT, up 52 percent), The Netherlands (101,000 NT, up 105 percent) and Brazil (92,000 NT, down 2 percent). Through the first eleven months of 2017, the largest off-shore suppliers were South Korea (3,563,000 NT, up 0.6 percent), Turkey (2,142,000 NT, down 5 percent) and Japan (1,417,000 NT, down 29 percent).

## Aqua Metals offers common stock

Aqua Metals, Inc., which is proceeding to commercialize its proprietary electrochemical lead recycling technology called AquaRefining™, announced that it has priced its underwritten public offering of 7,150,000 shares of its common stock at a public offering price of \$2.10 per share in December. Aqua Metals expects the gross proceeds from this offering to be \$15,015,000, before deducting the under-

writing discount and other expenses. Aqua Metals has granted the underwriter a 30 day option to purchase up to 1,072,500 additional shares of common stock.

The offering of common stock was made pursuant to Aqua Metals' shelf registration statement filed with the Securities and Exchange Commission (SEC) and declared effective.




Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$224.00	\$225.00	\$248.00	\$292.00	\$334.00
#1 Bundles	per gross ton	221.00	225.00	235.00	275.00	325.00
Plate and Structural	per gross ton	223.00	218.00	220.00	265.00	280.00
#1 & 2 Mixed Steel	per gross ton	198.00	189.00	194.00	244.00	269.00
Shredder Bundles (tin)	per gross ton	170.00	165.00	160.00	185.00	170.00
Crushed Auto Bodies	per gross ton	170.00	165.00	161.00	185.00	170.00
Steel Turnings	per gross ton	92.00	97.00	94.00	146.00	179.00
#1 Copper	per pound	2.50	2.54	2.74	2.72	2.70
#2 Copper	per pound	2.39	2.40	2.61	2.51	2.58
Aluminum Cans	per pound	.59	.70	.67	.70	.68
Auto Radiators	per pound	1.75	1.59	1.70	1.49	1.78
Aluminum Core Radiators	per pound	.64	.60	.57	.74	.60
Heater Cores	per pound	1.18	1.02	1.19	1.19	1.49
Stainless Steel	per pound	.64	.55	.58	.60	.59

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.

## RUBBER

# Ohio Senate passes motorist safety legislation

## Bill prohibits installing unsafe used tires

The Ohio Senate passed motorist safety legislation that prohibits the installation of unsafe used tires. The U.S. Tire Manufacturers Association (USTMA) hailed the vote as an important consumer protection measure that will prevent crashes due to worn-out, damaged, or improperly repaired used tires.

"This is an important step toward reducing risk posed by unsafe used tires that too often find their way back into service," said Anne Forristall Luke, USTMA president and chief executive officer.

USTMA is leading a coalition to advance the bill, SB 223, sponsored by Sen. Frank LaRose (R-Hudson). Supporting organizations include all USTMA members, the Ohio Chamber of Commerce, the Ohio Association of Manufacturers, Ohio Tire and Automotive Association, Ohio Conference of AAA Clubs the Property Casualty Insurance Association and the Tire Industry Association.

USTMA research shows that more than 30 million used tires are available for sale nationally each year. SB 223 does not ban all used tires. It targets used tires that have specific, well-established, unsafe conditions.

Tires worn to 2/32nds of an inch are worn out and dangerous because they no longer provide sufficient grip on the road, particularly under wet conditions. Damage that exposes steel belts or other internal components threatens a tire's structural integrity.

Improperly repaired tires can suffer loss of inflation pressure or have hidden damage that may contribute to tire failure. Tires with bulges indicate possible internal damage that can lead to tread separation.

The National Highway Traffic Safety Administration (NHTSA) says that worn out tires are three times more likely to be involved in a crash than tires with sufficient tread depth. NHTSA crash statistics indicate that about 200 fatalities and 6,000 injuries are attributed to tire related causes annually.

A House committee approved a similar bill earlier this year. However, the Senate-approved measure now must be referred to the House where it will be assigned to a committee for consideration.

New Jersey enacted a similar USTMA-advocated used tire bill into law this year.

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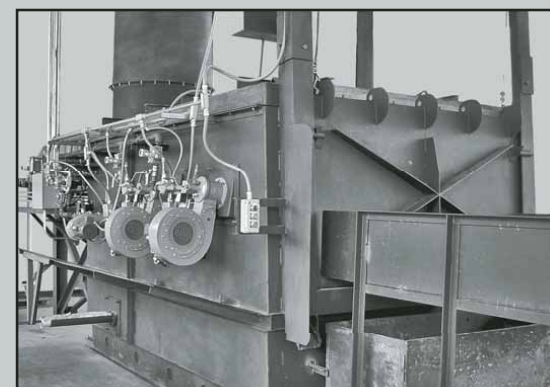
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## AUTOMOTIVE

### Goodwill Industries expands used oil filter recycling

Green Works, a subsidiary business under Goodwill Industries of Greater Detroit, has expanded its used oil filter recycling program to now include a collection service in partnership with Green Arbor Environmental.

Green Works' used oil filters recycling service now offers a "milk run" style pick-up service of both used oil filters and used motor oil from metro Detroit quick change/oil change shops and automotive dealerships. The operation of two Oberg SB-600 oil filter

crushers allows Goodwill's Green Works to process up to 400 tons of filters per month.

In keeping with Goodwill Detroit's mission to support and employ people with employment challenges, Green Works, along with the organization's Flip the Script program, has trained several of the region's returning citizens to operate the Oberg SB-600, which will result in multiple shifts of uninterrupted operation and the creation of additional new jobs.

### Green car awards granted

Green Car Journal has recognized the Chevrolet Colorado as the magazine's 2018 Green Truck of the Year™ and the Ford Police Responder Hybrid as its 2018 Commercial Green Car of the Year™ at the San Antonio Auto & Truck Show.

Earning recognition as the magazine's first ever 2018 Performance Green Car of the Year™ was Mazda's MX-5 Miata. These prestigious awards honor environmental leadership in the automotive field by identifying the best-of-the-best 'green' models in the pickup, light commercial vehicle and performance car fields.

Chevrolet's Colorado mid-size pickup offers nearly the same capacity, functionality, and features as this

automaker's full-size pickup, but with a more compact form and shorter turning radius that makes it easier to maneuver and park in tight city environs.

As the first pursuit-rated hybrid police car, Ford's Police Responder Hybrid promises to bring significantly greater fuel efficiency and environmental performance to police department fleets across the nation.

Mazda's redesigned, fourth-generation MX-5 Miata offers a sporty driving experience in roadster and new RF retractable fastback form. This lightweight two seat sports car is powered by a 2.0 liter SKYACTIV engine with a 6-speed manual transmission or 6-speed Sport automatic.

## SALVAGING Millions

by Ron Sturgeon  
Autosalvageconsultant.com

### Successful people make lots of lists

The first article in this series listed more than 25 tactics to increase your business success, all of them based on my experience. I started with nothing and didn't attend college, so I know you can achieve maximum success, regardless of your education

Are you a list maker? Try not to make too much fun of the person with a bunch of lists! Many studies have concluded that successful people make lots of lists.

Here are some kinds of lists you should make to be more productive:

- Daily to do list – Yes, it may be almost the same as yesterday's list, but it refocuses and reprioritizes your day. Sometimes, I even put the amount of time by each item that I think it will take, so I have an idea how realistic the list is. Sometimes, I number item on the list or color code them, for priority. If I have a stick-in-the-spokes deadline, I circle it or make sure it's first in line. As I work through the list, I even remind myself that can't go to lunch until I do that hot item. Yes, I give myself rewards. Another article in the series talks about doing the hardest or most distasteful stuff first, a good technique when you can reshuffle because it lets you face the hard stuff with peak energy.

- A master to do list – The dream list, everything but the kitchen sink. Things like working on my will. Who wants to do that? But you do have to get to it eventually, so having it on a master list makes me think about it.

- My MBWA list – Manage-by-walking-around list. I keep it in my phone. People think "Jeez, he never misses anything!" No I'm not smarter

and my memory isn't any better than most, but I write it all down. When I remember something I need to do or handle, I put it on that list.

- E-mail List – I have an app on my phone, that with one button e-mails me. If I recall something I need to do, I e-mail myself. This in conjunction with my policy of never deleting an e-mail until it's handled gets things done. You young'uns will want to text yourself, but you're unlikely to refer to texts to recall stuff you need to get done.

- Outlook List – No, I guess it's not really a list. I use Microsoft Outlook's calendar to put reminders. When did you last change the batteries in your smoke detectors? When is your next oil change? When was your air compressor serviced? What about that loan maturity in 5 years? Will you wait until the bank notifies you, or start working on it 6 months in advance because it was in your reminders? And silly me, sometimes I snap a picture of the calendar item and e-mail it to myself. That assures it's handled. More often than not, these items will be delegated via e-mail, when I get to them in my inbox the next day.

The list of my lists goes on and on. I break big jobs into smaller steps, which are in a list. I am writing this article because it's in a list of articles that I keep adding to when I think of a topic. And I know you love your computer and Excel, but sometimes a good old #2 pencil and a big chief tablet are still the best way to get a list going. Or Post-It notes! If you wait until you are in front of your computer to add to a list, you forget half of it.

### ADESA Canada makes numerous leadership changes

Adesa, a business unit of a global vehicle remarketing and technology solutions provider, Kar Auction Services, Inc., disclosed that Eddy Cusan has been promoted to vice president of commercial sales for Adesa Canada and Wesley Kent has been promoted to the newly created position of vice president of programs and operations for Adesa Canada.

In his new role, Cusan will be responsible for leading the executive sales team that manages Adesa Canada commercial client relationships and sales efforts for both physical auction and upstream remarketing services. He started at Openlane in January 2007 as a program director overseeing several North American private label programs. When Kar acquired Openlane, an internet-based business-to-business automotive remarketing company in 2011,

Cusan transitioned into an executive sales role for Adesa, and since 2015 has taken on additional responsibilities including contributions to sales team leadership and the comprehensive sales strategy for all Kar entities in Canada.

In his newly expanded role, Kent will enhance the customer experience across the entire Adesa Canada platform with technology and service improvements. He started at Adesa Halifax as an online coordinator in 1999 and in 2001 moved to Adesa Canada corporate office to join the new eBusiness team. Since 2004, Kent has overseen product development and online operations and taking his product expertise into the Adesa IT organization. In 2012, he was promoted to senior director of online operations to oversee Adesa Canada's internet remarketing initiatives, including the integration of Openlane.

### InstaVIN launches window stickers with original factory options

KAR Auction Services, Inc. has launched a new transparency product from its instaVIN business unit.

InstaVIN is a provider of comprehensive vehicle history and title reports for dealers, commercial customers and con-

sumers. The newly launched instaVIN Window Sticker with Factory Options adds to the company's product line with a unique offering that provides details specific to each VIN. The window sticker's expanded data shows the original factory-standard exterior, interior, safety and security equipment, and factory-installed options when new, as well as MSRP, factory warranty, EPA fuel economy and annual fuel costs.

"Each vehicle's value can vary by thousands of dollars for factory installed options," said Jim Irish, chief executive officer of instaVIN. "Our new window sticker will help dealers and consumers understand the vehicles options and costs more accurately."

InstaVIN has access to information on more than 25 manufacturers and 20 years of history for its window stickers. The online order process will provide a free VIN check to determine if the instaVIN Window Sticker with Factory Options is available on the requested VIN.

## Events Calendar

January 22nd-25th

**COMPOST 2018 Conference & Tradeshow.** Westin Peachtree Plaza Hotel, Atlanta, Georgia.  
301-897-2715 • [www.compostingcouncil.org](http://www.compostingcouncil.org)

February 11th-13th

**C&D World Exhibition & Conference.** Downtown Hilton, Nashville, Tennessee.  
866-758-4721 • [www.cdrecycling.org](http://www.cdrecycling.org)

February 19th-21st

**Association of Plastic Recyclers Membership Meeting.** Gaylord Opryland Resort & Convention Center, Nashville, Tennessee.  
202-316-3046 • [www.plasticsrecycling.org](http://www.plasticsrecycling.org)

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*This article was provided by [autosalvageconsultant.com](http://autosalvageconsultant.com), which was formed in 2001 by recyclers for recyclers, to help them improve their businesses.*



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# ELECTRONICS

## Sims Recycling Solutions reaches settlement

Sims Recycling Solutions (SRS), a provider of global IT asset disposition (ITAD) services, and the California Department of Toxic Substances Control (DTSC) reached an agreement to resolve issues resulting from Summary of Violations (SOVs) issued following August 2011 and March 2015 site inspections at the SRS Facility in Roseville, California. The settlement relates to large-scale indoor electronics shredding operations that were previously conducted at the facility. The settlement, made out of a desire to avoid costly, protracted litigation, consists of a \$275K civil penalty and a payment of \$125K to reimburse DTSC for its costs incurred in this matter. Long before the settlement was reached, Roseville had promptly addressed any issues identified by DTSC and as of last year no longer operates the Roseville shredder.

As is typical of all DTSC court-approved settlements, DTSC filed a complaint after settlement was agreed-to, as a means of lodging the settlement stipulation with the court. The stipulation settles all the claims made by DTSC in that complaint. While Sims agreed to

settle this matter through the Stipulation, it did not admit to any of the allegations or claims made in the complaint or stipulation. Most of those claims related to dust, either “baghouse dust” collected from the shredding process or fugitive dust that was present in the air around the shredder. Based on prior DTSC concurrence going back to 2007, Roseville believed it was entitled to manage the baghouse dust as an “excluded recyclable material” based on the valuable recoverable metals that are contained in the dust. According to DTSC, it subsequently changed its interpretation of the recycling provisions and withdrew the earlier approval, but it did so without advising Roseville. DTSC also asserted that the use of an atomized water misting system to control temperature and remove residual dust from the air around the shredder violated a prohibition against the addition of water to the “treatment” (shredding) process.

“All issues have long since been resolved,” says Steve Skurnac, president of SRS, “and SRS has since moved on from that Roseville shredder-based business.”

## DocuVault brings electronics recycling to community events

DocuVault now enables communities in the Delaware Valley to provide their residents with a convenient solution, by offering electronics drop-off for recycling as an added service option at document shred events. The service offers a simple way to safely get rid of many electronics that cannot be readily disposed of through regular trash pick up.

Keith DiMarino, president of DocuVault, noted that while electronics recycling events happen in different parts of the country, they are not common in the Delaware Valley. “We’re excited to fill the gap by facilitating secure e-waste disposal at community events our area,” he said.

The electronics drop-off can take place in conjunction with a document shred event if the event organizer arranges to have this added service.

Electronic items are placed in a secure DocuVault truck by a professional technician. They are then taken to a certified e-waste recycler that maintains a 100 percent zero landfill guaranteed process.

E-waste recycling averts damage to the environment that can happen when hazardous materials found in electronics leach into water, air and soil. It also helps prevent identity theft by ensuring that any data contained within items that are dropped off is securely wiped or destroyed.

To ensure each community event is a success, DocuVault provides clients with logistical support, safety recommendations, and an information packet with details on how to organize and promote a shred/recycling event.

Items accepted include computers, towers, laptops, tablets, phones, flat screen monitors, printers and others.

### \* Testimonial \*

I received your publication by mail. I can confirm I have never seen it before in its hard copy version. I like the layout and it is very informative, in a league of its own in terms of quality information. No wonder it is the only recycling publication quoted on Lumistar's blog. I look forward to upcoming issues.



I have read issues of your publication in the past by accessing digital archives at one of two libraries I am a member of. Your website is also fantastic.

—Paul Angel, LUMISTAR CORPORATION

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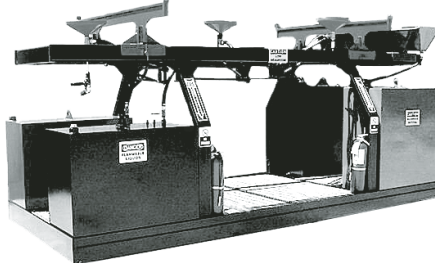
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## BUSINESS BRIEFS

### Foremost Machine Builders adds new sales manager

■ Foremost Machine Builders, Inc. has appointed Walter Folkl as manager of sales.

Folkl will have the responsibility to drive the sales and marketing strategy for Foremost's complete line of auxiliary equipment

Folkl brings extensive sales experience to his new role with a broad sales and marketing background in industrial equipment and systems, including time spent in direct sales and sales management positions. In the past, he has served as a sales engineer, regional sales manager and national sales manager for respected industry manufacturers.

Folkl will be based out of the Foremost headquarters in Fairfield, New Jersey.

Foremost Machine Builders, Inc. is a major U.S. based manufacturer of plastics auxiliary equipment and systems.

### Nucor Corporation increases cash dividend

■ The board of directors of Nucor Corporation increased the regular quarterly cash dividend on Nucor's common stock to \$0.38. This cash dividend is payable on February 9, 2018, to stockholders of record on December 29, 2017, and is Nucor's 179th consecutive quarterly cash dividend.

Nucor has increased its regular, or base, dividend for 45 consecutive years – every year since it first began paying dividends in 1973. Over the past 10 years, Nucor has returned more than \$5 billion in capital to its stockholders in the form of base dividends, supplemental dividends and share repurchases.

### American Pneumatic Tools names new sales manager

■ American Pneumatic Tools (APT), a provider of construction and industrial equipment, has named Joshua Djokic as the area sales manager for their southeast region, effective immediately.

In this role, Djokic will be responsible for managing sales throughout the southeast region of the U.S. covering the states of North Carolina, South Carolina, Tennessee, Alabama, Georgia and Florida. Additionally, he will develop new and existing customer relationships while expanding the APT brand.

Prior to joining APT, Djokic most recently worked as a branch manager for United Rentals where he was recognized as South Florida District's Branch Manager of the Year.

### ALLU USA names dealer for Southwestern U.S.

■ ALLU USA Inc. named Sonoran Process Equipment Company (SPEC), with locations in Ogden, Utah, and Elko, Nevada, as its newest dealer for the full line of ALLU Transformer™ material processing attachments.

The company provides sales and rental of ALLU's unique screener crusher buckets and soil stabilizing equipment, and offers complete after-market service and spare parts for customers in Nevada and Utah.

Founded in 2002, SPEC evolved as Metso Minerals' acquisition of Svedala Industries created an immediate need for a local trained staff with experience in aggregates and mining. Calling upon its combined 100-plus years of industry experience, SPEC continues to offer the finest equipment and aftermarket service available for the aggregates, construction, mining, power generation and industrial markets. Under new ownership in 2017, SPEC continues the long tradition of service and support in the Utah and Nevada markets.

### Republic Services names Jon Vander Ark COO

■ Republic Services, Inc. named Jon Vander Ark chief operating officer (COO), effective January 1, 2018. As COO, Vander Ark will be responsible for operationalizing the company's strategy and executing its business plan across its field operations.

Additionally, he will have functional responsibility for all operational support departments, including safety, engineering, environmental compliance and fleet management, which includes the seventh largest vocational truck fleet in the country. Vander Ark will continue to report to Don Slager, president and chief executive officer.

Prior to this appointment, Vander Ark was executive vice president, operations, responsible for maximizing Republic's field performance, ensuring superior service delivery, and achieving financial and operational results across the Company's operations in the eastern half of the U.S., which represents approximately \$5 billion of Republic's annualized revenues. Previous to this, he oversaw the western half of the company's operations.

Prior to Republic, Vander Ark served as partner at McKinsey & Company's Detroit office, managing clients across a variety of industries, including transportation, logistics, manufacturing and consumer products.

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## BUSINESS BRIEFS

### Bandit Industries to celebrate 35th anniversary

■ Bandit Industries will spend all of 2018 celebrating its 35th anniversary at its mid-Michigan facility, with a worldwide dealer network, and with many thousands of customers spanning multiple industries.

Bandit Industries started out as Foremost Fabrications in a small one-room shop by Mike Morey Sr. and Diane Morey. The first chipper was a Model 100 Brush Bandit. That chipper caught on in the industry, backed by their commitment to quality and their customers. The chipper became so popular in the industry that most people knew Foremost Fabrications as “Bandit,” so in 1986, the name was changed officially to Bandit Industries.

Bandit has grown by leaps and bounds in the last 35 years, continually refining their machines, adding new models, new product lines, growing their dealer network and customer base. Today, over 60,000 Bandit machines are in use all around the world.

### Bolden named director of CARE recycling program

■ Carpet America Recovery Effort (CARE) has named Jacy Bolden as the first full-time director of the California Carpet Stewardship Program.

Bolden comes to CARE with extensive experience in product stewardship, waste and environmental policy as the founder of the consulting firm The JBC Groups. Her work includes corporate sales, solid waste systems, recycling and composting operations and non-profit management, as well as municipal and local government program operations and policy development. In 2004, she was named Recycler of the Year by the California Resource Recovery Association.

In collaboration with Peoples and the CARE team, Bolden will be responsible for the management and administration of all aspects of the Program, including delivering services to its target audiences to increase reuse, recycling and diversion of post-consumer carpet discards in California.

### Bunting Magnetics names Miller as general manager

■ Bunting® Magnetics Co., a moving, removing and holding metal company, has appointed Kevin Miller as general manager of the company’s primary manufacturing facility in Newton, Kansas.

Bunting Magnetics Co. also has operations in suburban Chicago, Illinois; DuBois, Pennsylvania; and the United Kingdom. Miller will oversee all Newton operations including production, inside sales, engineering and purchasing.

Based in Newton, Kansas, Miller draws on nearly three decades of experience in manufacturing operations. Most recently, he was director of operations at Ametek Advanced Industries, a supplier of components and systems for the aerospace and defense industries. His manufacturing experience also includes operations and assembly positions at the Boeing Company and Spirit Aerosystems.

### Morbark acquires Rayco Manufacturing

■ Morbark, LLC has completed the acquisition of Rayco Manufacturing, Inc. (Rayco). This transaction represents the first addition since affiliates of the private equity firm Stellex Capital Management LP acquired Morbark in 2016.

Rayco is dedicated to the design and production of a line of environmental equipment. The current range of Rayco products includes stump cutters, crawler trucks, forestry mulchers, multi-tool carriers and attachments, brush chippers and the all new AT71 aerial trimmer.

The transaction is a strategic fit for both companies. Rayco brings a lineup of equipment into the Morbark family across multiple product categories.

Rayco founder, John Bowling, will continue his work with the team to develop new products and help improve the company’s existing product lines. He will continue to have an economic interest in the combined business and will be a member of Morbark’s board of directors.

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## Municipalities' interest in organic recycling grows

by MAURA KELLER

[mkeller@americanrecycler.com](mailto:mkeller@americanrecycler.com)

There is huge amount of interest in decreasing the amount of food that is wasted and also recycling or repurposing the food scraps that are generated. This interest spans across many sectors and types of organizations, but certainly includes municipalities. In fact, municipalities throughout the U.S. are making significant strides when it comes to organic recycling programs.

As an example, Tempe, Arizona has recently taken its green organics collection program to a whole new level. According to Melissa Quillard, public information office for the City of Tempe, in 2008-09, an audit of Tempe's bulk trash program showed that 40 percent of the material consisted of compostable green organics (yard trimmings, bushes, etc.). As a result, the Tempe City Council asked the solid waste and recycling services team to develop a green organics composting program.

"A pilot spanning 2,500 homes was launched in 2010, and residents were asked to separate their bulk trash from green organics during their regular bulk collection week," Quillard said. "Tempe began taking the green organics to a vendor, who ground and processed the material at their facility, and trained city staff on the scientific and operational requirements to successfully compost."

In 2013, City of Tempe staff prepared space for the new program and secured the necessary equipment to operate an on-site program, which included a front loader to move material around, assist with turning the green organics piles and load material into the grinder, and a water truck to wet the pile as part of the cooking process, control dust and prevent fires.

As Quillard explained, training included the proper carbon-to-nitrogen ratio, appropriate moisture content, proper temperature stages for cultivating healthy microbes, cooking time, dust control (particulate matter is a

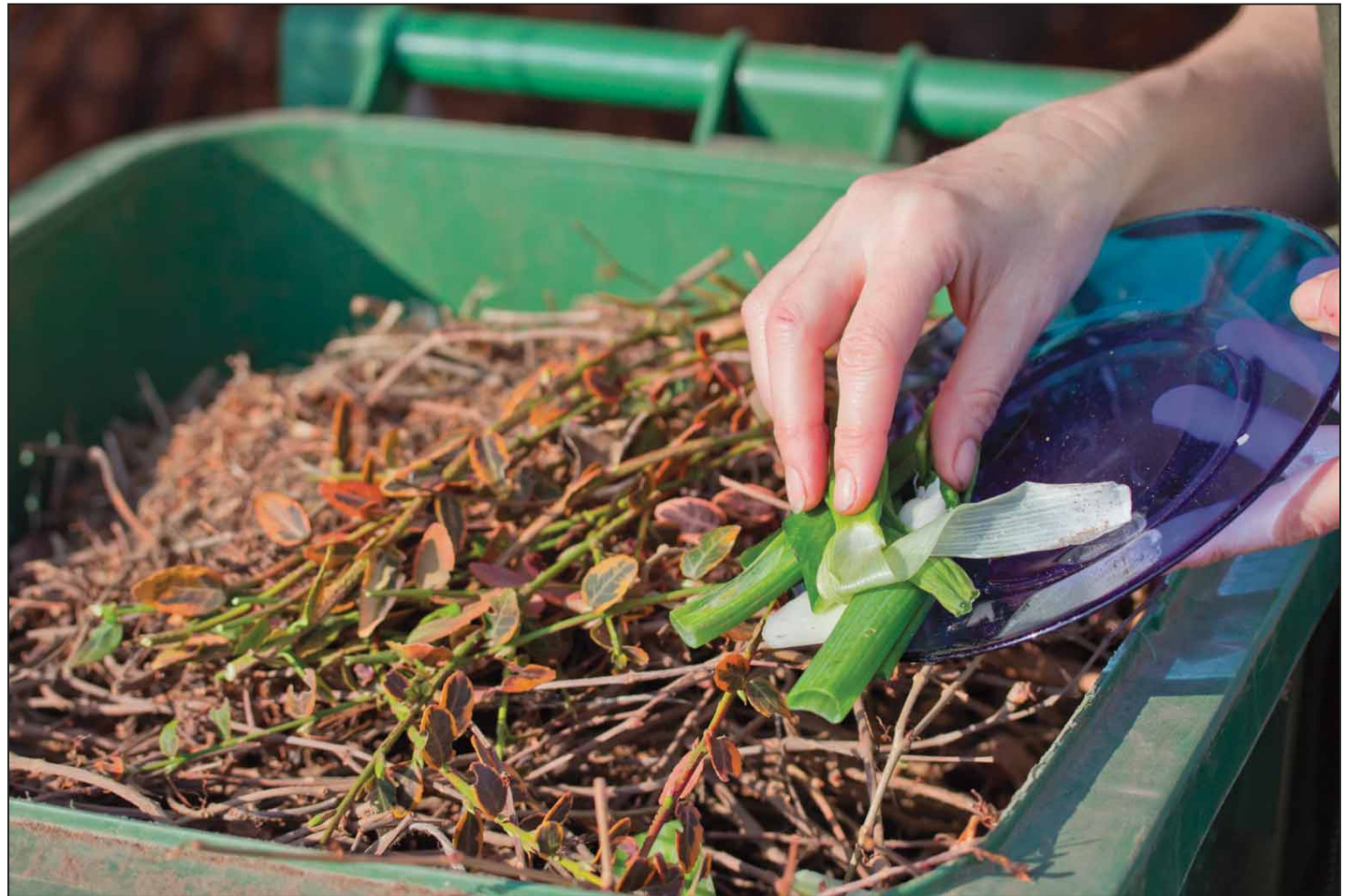


PHOTO BY JAROSLAV FRANK | DREAMSTIME

problem in the Phoenix area) and fire prevention. Other important information included the sun's impact on varying pile locations, the importance of laboratory testing via a third party, composting in the summer versus winter, reactivating dormant piles and avoiding certain materials such as palm fronds.

"As a result of the overwhelming success of the bulk trash/green organics program, in 2015, Tempe began offering residents three green organics pickups every year as part of the every other month bulk pickup program," Quillard says.

The success of the initial green organics collection, as part of the bulk trash program, enabled Tempe to begin full oversight of its own program during the 2015-2016 fiscal year.

"Acquiring expertise from a well-known vendor in the Phoenix area lent credibility to our operation and gave our staff the tools they needed to keep the compost yard running efficiently," Quillard said. "Had we scaled the initial part of the program too quickly, we would likely not have the successful operation that we have today."

Advancing the program in manageable steps has also allowed the city to come up with processes that work well for its particular facility. This includes creating carbon-to-nitrogen recipes with the materials they collect, including grass clippings and manure, and planning for the appropriate time to grind. Once fourteen to fifteen hundred tons of material is collected, the city rents a grinder and screener from a local company.

"Although we received accurate weights from our composting vendor that we hauled to in 2010 and 2011, when we started composting at our facility in 2013, we had to simply estimate weights based on yardage," Quillard said. "The installation of an industrial scale and scale house in January 2016 allowed us to more accurately track numbers and provide weight tickets to vendors. (With the exception of large-scale compost giveaways, vehicles are weighed upon their arrival and prior to their departure for accurate weights).

In December 2016, the City of Tempe further launched a pilot green organics curbside program and they targeted single-family lots with more vegetation as well as horse properties. As

See **ORGANICS**, Page B2

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# Organics

■Continued from Page B1

of February 2017, Tempe residents can now drop off their green organics at the city's compost yard and they are continuing to expand the number of commercial customers that they service including the Desert Botanical Garden, the Phoenix Zoo, Tempe PD Mounted Unit stables, area schools, our parks and untreated wood-producing businesses.

"Plans are also underway to accept green waste from commercial landscapers but a pricing structure must be approved by management and City Council before we can launch this program, which we anticipate will help curb some of the illegal dumping in the city," Quillard said. "Tempe is pleased to have a truly circular system that benefits the city and our residents. The city collects the green organics, turns it into compost and uses it in city parks and also provides it free to our residents."

Tempe City Council has adopted a citywide recycling diversion goal of 25 percent by 2020. To help reach that goal, Tempe's Solid Waste and Recycling Services Section launched a green organics composting program that coincides with the city's bulk trash collection. They currently offer a green organics bin pilot program in select Tempe areas. Over 1,800 Tempe residents already participate. City staff will utilize the data collected during the year-long pilot program to gauge community interest levels of participation, to analyze the content of the green bins and material diverted, and to assess the operational needs.

Green recycling is the future," Quillard says. "It's taking recycling to the next level and creating a more sustainable community. With advances in technology, Tempe is now able to accept palm fronds and oleanders, which were previously not accepted. As

technology advance we anticipate even more participation from the community. We are thrilled to be able to advance our green organics program and increase the amount of compost that is produced."

## Making Headway in New York

While there is no single program for food scrap management at the municipality level in New York State, some municipalities within New York run resource recovery facilities, and these municipalities tend to be the most advanced when it comes to food scrap management programs.

"That being said, the focus is still heavily on the business side of organics management in New York (i.e. collecting and processing food scraps from businesses) and programs for residential pick up or drop off are still very few," said Ava Labuzetta, pollution prevention engineer at New York State Pollution Prevention Institute at the Rochester Institute of Technology. "There is more and more interest in that regard though. New York City has implemented a pilot program for residential organics collection, and drop-off programs – where residents can drop food scraps off – have been implemented in some areas upstate.

As Labuzetta explained, two of New York State's biggest challenges are its size, and its landfill pricing. New York is quite large compared to a lot of states and because of the regional differences, what works in one area of the state doesn't necessarily work in another.

"It also means that transportation of organics gets expensive quickly, since organic waste, especially food scraps, are heavy," Labuzetta said. "On top of that, tip fees at landfills are quite low in many areas, making it difficult for organics collection to be cost competitive."

And while Labuzetta can't speak to any one municipal program specifically, the New York State Pollution Pre-

vention Institute has seen tremendous growth in interest in the topic.

"We have been contacted by municipalities who already have programs collecting food scraps and want to expand as well as municipalities that want to get into the space but haven't started yet, so we are absolutely seeing growth in interest," Labuzetta said. New York City has already implemented a food scrap landfill ban and there is proposed legislation in the works to carry that concept state-wide. This has helped to accelerate the conversation around food scrap management. The state has also adopted a number of sustainability goals and therefore has a vested interest in moving initiatives forward that have great social, economic and environmental benefits.

According to Carrie Roble, director of environmental education and stewardship at Hudson River Park, a 550 acre park and estuarine sanctuary on the west side of Manhattan, in 2015, Hudson River Park began composting horticulture waste, including grass clippings and pruned tree material, to help green the Park and support NYC's zero waste by 2030 goal.

"Our composting efforts not only cut the Park's carbon emissions because we were no longer trucking tons of horticulture waste to landfills, it also saves the Park money on landscaping materials like mulch," Roble said. To churn up the most nutrient rich compost, however, the Park continually needs the community's help. In June 2017 the Park launched its Community Compost Program in partnership with NYC's Department of Sanitation (DSNY) and Council Member Corey Johnson. Now at seven locations throughout the Park community members can drop off their food scraps from 7am-7pm daily.

"We mix these food scraps with the Park's horticulture waste to make healthy compost that then enriches our plant beds and trees to help the Park flourish," Roble said. "Hudson River Park's Community Compost Program provides great opportunity to decrease waste going to landfills."

In 2017, Hudson River Park's program already diverted over 26,000 pounds of food scraps (over 3 times its 2016 total) and 300,000 pounds of horticulture waste from landfills.

Hudson River Park's Community Compost Program strategically partners with DSNY in effort to align with city-wide compost efforts.

"DSNY is rolling out curbside composting for residents by neighborhoods, however, many people do not yet have convenient options for composting and not all buildings will have curbside composting," Roble said. "Therefore the Park plays an important role as Hudson River Park has the capacity to collect food scraps year round and also has great use for the finished compost in our garden beds, treescapes and lawns."

The Park will continue using strategic outreach and education tools to work towards its goal of increasing compost by 50,000 pounds this year.

Hudson River Park and other municipalities can continue making composting accessible, clear, and even fun.

"It can become a no brainer environmental behavior that people do because it's easy and we care about the health of our cities," Roble said. Hudson River Park's industrial composter is able to process 250,000 pounds annually and therefore, the Park's compost program can continue to develop."

## Going Green In California

The state of California has long been celebrated for its environmental stewardship. And San Francisco is often seen as leading the helm in organic waste recycling. According to Jack Macy, zero waste senior coordinator, San Francisco Department of Environment, the City and County of San Francisco initiated and expanded its organics collection program due to both a state mandate of 50 percent diversion from disposal by 2000 along with strong local sustainability goals.

San Francisco worked with its exclusive permitted service provider, now the Recology Companies, to start food scrap composting collection as a demonstration program in the commercial sector in 1996 and then began serving the wholesale produce sector and food service establishments, such as restaurants, in 1998.

As Macy explained, the program has continued to expand since to include all types of commercial and institutional generators including schools, colleges, hospitals, office buildings and small businesses with collection offered at least weekly up to daily. Participation was driven by outreach and assistance including providing customers with color coded collection bins, interior sorting containers, signage, program set up, and multi-lingual training, along with financial incentives of reduced service costs with "pay-as-you-throw" discounts and reduced trash costs.

"Participation in the composting collection program was initially voluntary being rolled out to all single family and a couple of thousand of the nearly 9000 apartment buildings as well as most food establishments and a portion of other sectors," Macy said. "The program was made mandatory by ordinance in 2009."

Using the mandatory law of everyone having to separate out food scraps and other compostables as a major outreach tool and a compliance verification process, the City was eventually able to get more than 99 percent of all properties to be compliant in having composting service. That is a large universe, which includes a population of over 850,000 residents and more than 60,000 businesses and institutions.

"This level of program penetration is the most comprehensive in the United States and among the highest in the world," Macy said.

The Recology companies that collect the compostables also transfer the material to their regional composting facilities that they operate to create an organics market. The compost they pro-

See **ORGANICS**, Page B6

## AR EQUIPMENT SPOTLIGHT

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## New England organizations honored by EPA for reducing food waste sent to landfills

Two Massachusetts organizations were honored nationally by the U.S. Environmental Protection Agency (EPA) for their work keeping wasted food out of landfills and incinerators and putting it to better use. Another 24 organizations across New England received certificates recognizing their work reducing food waste as part of EPA's Food Recovery Challenge.

Signature Bread in Chelsea, Massachusetts won the national "Data Driven Award" for achieving the highest percent increases in food waste diversion for the food manufacturing sector in a comparison of yearly data. Spoiler Alert in Boston won the "Narrative Award" in the education and outreach category.

"Food Recovery Challenge award winners serve as role models in their communities and for other organizations," said EPA administrator Scott Pruitt. "Their hard work and effective efforts to divert wasted food from landfills is paying off through social, financial and environmental benefits. I encourage other organizations to replicate the successful food recovery operations of our Challenge winners."

In 2016 in New England, EPA worked with 69 New England based Food Recovery Challenge participants to reduce wasted food, by diverting more than 56,000 tons of food for donation or composting. Nationally more than 950 businesses, governments and organizations participated in EPA's Food Recovery Challenge. These businesses and organizations – grocers, restaurants, educational institutions and sports and entertainment venues – together diverted 740,000 tons of food from being sent to landfills or incinerated. This saved businesses up to \$37 million in avoided waste disposal fees.

The waste prevention and diversion efforts of this year's award winners, as well as all Food Recovery Challenge participants and endorsers, contribute to the actions needed in order for the United States to meet the national goal to reduce food loss and waste by 50 percent by the year 2030. To prevent and reduce their wasted food, Food Recovery Challenge participants used cost-effective and creative practices that included reducing excess food from institutional cafeterias, sending food scraps off for animal feed and providing in-house food recovery training.

Wasted food is the single largest type of waste discarded each year in daily trash, equaling roughly 73 billion pounds of food discarded as trash each year. Wasting food costs families and communities money, and wastes the natural resources needed to produce and deliver food. About 12 percent of Amer-

ican households have difficulty providing enough food for all of their family members. In 2016, Food Recovery Challenge participants nationally helped address food insecurity by donating nearly 222,000 tons of excess, wholesome food, providing the equivalent of close to 370 million meals.

The Food Recovery Challenge is part of EPA's Sustainable Materials Management Program, which seeks to reduce the environmental impact of all kinds of materials. EPA recognizes Food Recovery Challenge participants and endorsers with awards in two categories: data-driven and narrative. The data-driven award recipients achieved the highest percent increases in their sector comparing year to year data. Narrative award winners excelled in the areas of source reduction, leadership, innovation, education and outreach and endorsement. The following 24 New England organizations received a "Regional Food Recovery Achievement Certificate" for their work reducing food waste:

### Connecticut:

- Mohegan Tribe of Indians of CT
- Southern Connecticut State University, New Haven
- Whole Foods Market, Milford

### Massachusetts:

- Berkshire Medical Center, Pittsfield
- Big Y World Class Markets, headquarters in Springfield
- Boston College, Chestnut Hill
- Café de Boston, Boston
- Clark University, Worcester
- College of the Holy Cross, Worcester
- Gillette Stadium, Foxborough
- Katharine Lee Bates Elementary School, Wellesley
- Northeastern University, Boston
- Raytheon Company & Eurest, Tewksbury
- Salem State University, Salem
- University of Massachusetts, Lowell
- University of Massachusetts, Dartmouth

### Maine:

- Hannaford Supermarkets, headquarters in Scarborough
- University of Southern Maine, Portland
- Colby College, Waterville

### New Hampshire:

- Parkland Medical Center, Derry

### Rhode Island:

- Johnson & Wales University, Providence

### Vermont:

- Harvest Market, Stowe
- Stratton Mountain Resort, Stratton
- Vermont Lake Monsters, Burlington

*A tiger was walking through the jungle one day and saw two men relaxing under a tree. One was reading a newspaper and the other was working feverishly on a manual typewriter.*

*The tiger leapt on the man with the newspaper and ate him up. The tiger did not bother the other man at all. That's because any predator knows that 'readers digest' but 'writers cramp.'*

## Meridian Waste launches commercialization plans for biomass facility

Meridian Waste Solutions, Inc., a vertically integrated, non-hazardous solid waste services and technology company, announced that its wholly-owned subsidiary, Attis Innovations, formerly Meridian Innovations, has initiated commercialization plans for its first biomass processing facility. Attis will immediately begin feedstock evaluation and assess potential locations for commercial scale operations.

Attis now holds an exclusive license to American Science Technology Corporation's (AST) patents and AST's biomass processing facility in Wausau, Wisconsin. Utilizing the acquired intellectual property rights and qualified personnel, Attis plans to take the next step and looks to build its first 60,000 ton per year commercial production facility in Minnesota.

Attis has begun evaluating potential feedstocks for conversion into pulp, cellulosic sugars and AST's unique melt-flowing lignin. Of particular interest for its first commercial scale facility is the hardwood and softwoods found in northern Minnesota as well as the agricultural crop residues from corn, soybean and wheat growers found in the southern part of the state. Collec-

tively, Minnesota generates approximately 27 million tons of forest and agricultural residues each year in addition to having a living tree inventory of about 465 million tons.

The Minnesota region is appealing not only for its abundant feedstock opportunities but also because of the Minnesota AGRI Bioincentive Program. Through the program, Attis will be able to apply for direct production payments from the state. Attis's unique grade of melt-flowing lignin will qualify for a \$0.06 per pound payment and, in many cases, Attis's cellulosic sugars will qualify for \$0.03 per pound produced. This incentive program will allow Attis to offset some of the costs associated with commercialization.

Attis believes it will be able to prosper where traditional pulp & paper operations have not as Attis technologies are capable of converting both cellulose and lignin into a wider variety of marketable products.

Attis is capable of generating between 35 percent and 100 percent more revenue than pulp, paper, and cellulosic fuel production facilities. Their technology applies to most any form of biomass.

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# EQUIPMENT SPOTLIGHT

## Tub Grinders

by **MARY M. COX**

maryc@americanrecycler.com

Tub grinders process organic waste via a hammer located at the bottom of the tub. Gravity facilitates in pulling the material through the machine, which is offered in a variety of models, market-wide.

The HogZilla® brand grinder for wood, C&D waste, tires and other types of waste was introduced over 25 years ago. The top of the line TCII-1564P diesel powered model has been the most requested, while more recently electric powered Hogzillas have gained considerable popularity. CW Mill Equipment Co., Inc. manufactures the product and they offer 20 standard models along with numerous options. The company has manufactured tub grinders for 45 years.



CW Mill Equipment Co., Inc.

“Heavy construction quality components and proven design have stood the test of time. Whether used for making mulch, clearing land, grinding up storm debris or shredding tires, customers have entrusted HogZilla for the production, reliability and profitability they provide,” Tim Wenger, vice president & sales manager, commented.

He noted that electric powered grinders became more popular when the price of diesel rose to approximately \$4.00 per gallon. However, they remain popular with many mulch producers as they look to minimize their production costs in the competitive marketplace. He added, “Avoiding diesel engine maintenance can save an hour per day in production time. The cost of filters, repairs, and the lack of exhaust are all extra benefits of using electric power. If your grinding operation can access sufficient electric power, you owe it to yourself and your organization to contact us.

“Over 25 years ago the first HogZilla was built to last a lifetime. That first machine is still in operation today, and some Hogzillas have been in use for over 30,000 hours. There are many HogZilla grinders with well over 10,000 hours, although some have required an engine rebuild. When production, strength and quality are the goals, and not cost — a lifetime of service becomes obtainable,” said Wenger.

Precision Husky Tub Grinder models range from the 250 hp ProGrind 900 to the 1,200 hp 5200. The 5200 and ProGrind 4000 are available with or without a Husky Knuckle Boom Loader attached. The ProGrind H3045 with 500 hp, the H3060 with 600 to 700 hp, and H4060 with up to 1,200 hp round out the firm’s horizontal grinder offerings.

“Precision Grinders have always been known for ease of maintenance and reliable operational controls. Our tub grinders are widely used by contractors, municipalities and national governments around the world. The machines are used for processing yard waste, forestry waste, pallets, construction waste, and storm cleanup. The users are involved in the manufacture of compost, fuel, mulch, etc.,” explained Steve Briscoe, ProGrind sales manager.

Briscoe said that the regulations for these machines and their operation have always been a challenge. Precision offers a remote controlled thrown object shield for tub grinders, which allows the units to be used in areas where space is tight. The regulation that affects all manufacturers of these machines is the EPA’s Tier Emissions Standards. This regulation impacts product pricing because it often requires most manufacturers to do some redesign for placement of engines. “Even with this requirement, Precision is excited about the design opportunities that are coming along in the next few months and years,” said Briscoe.

Precision Husky Corporation is a 50 year old international company that manufactures waste wood processing



Precision Husky Corporation

equipment for the forestry, sawmill, and recycling industries. Precision Husky purchased the Recycling Equipment Division from The Toro Company in 1998. Precision expanded the line, and now offers 6 different models of tub style grinders, and 3 horizontal grinders. The tub style grinders are offered as trailer mounted machines or track mounted units. The horizontals are offered trailer mounted, track mounted, or as stationary electric units.

Tub grinders manufactured by Vermeer are “loaded with innovative features to help improve efficiency and job-site safety. The machines are designed to handle stumps, regrind, and high-volume wood recycling and mulch operations. Ranging from 540 hp to 1,125 hp, our product line also includes an optional grapple loader and a unique bioscreen kit. The kit allows non-woody biomass material, such as hay or agriculture residue, to pass efficiently through the grinder without deteriorating the end product,” Matt Eul, product marketing specialist, explained.

Organic materials come in many shapes and sizes, and Eul said that Vermeer tub grinders offer high-volume regrinding, as well as processing of difficult wood waste and biomass material. Utilizing the patented duplex drum cutting system and multiple screen size options, the product offers the versatility needed by users. Eul further noted that efficiency and cost savings can most easily be affected by reducing maintenance and repair time, for example: it can be beneficial to have an easy method for replacing items such as replaceable, bolt-on wear parts. The ability to remove the drum, reverse the hammers, reverse the drum, etc., without the need to

weld parts together, also increases the efficiency and the life of wear parts.

Eul stated, “Vermeer continuously strives to assist customers in protecting their investment. We have recently invested in new technology referred to as a Damage Defense system. Damage Defense is a sensing technology that helps reduce the likelihood of major damage caused from certain metal contaminant material that may

enter the mill. The system is able to help identify this metal when it first hits the mill, while the material is still in the feed. If a contaminant is detected, the machine will shut down to give the operator the opportunity to remove the material before it can enter the hammermill. The Damage Defense system can help reduce the likelihood of significant damage and repair time.”

### MANUFACTURER LIST

**CW Mill Equipment Co., Inc.**  
Tim Wenger  
800-743-3491  
www.hogzilla.com

**Diamond Z**  
Pat Crawford  
800-949-2383  
www.diamondz.com

**DuraTech Industries International Inc.**  
Bob Strahm  
701-252-4601  
www.duratechindustries.net

**Morbark Inc.**  
Nate Everest  
800-831-0042  
www.morbark.com

**Precision Husky Corporation**  
Steve Briscoe  
205-640-5181  
www.precisionhusky.com

**Vermeer Corporation**  
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## Anaergia partners to build facility Facility will generate renewable energy

Anaergia Inc. entered into an agreement to construct an innovative waste organics facility at Waste Management's Sun Valley site. This project is designed to recover food waste from Los Angeles' municipal solid waste stream.

Anaergia will build a turnkey state of the art solid waste processing line at Waste Management's Sun Valley Recycling Park. This processing line will feature Anaergia's patented Organics Extrusion Press (OREX), a robust cutting-edge technology that recovers organics from contaminated municipal solid waste through high pressure extrusion. The OREX line will be used to extract up to 300 tons per day of organic waste from the Los Angeles municipal solid waste stream. The Sun Valley facility is expected to begin operations in 2019.

The organic waste diverted from the solid waste stream will be processed at Anaergia's Rialto Bioenergy Facility in Rialto, California. Using Anaergia's advanced anaerobic digestion technology, the organic waste will be converted into renewable electricity, renewable natural gas and

See ANAERGIA, Page B7

## Weltec Biopower expands biogas plant of milk powder manufacturer

The German plant manufacturer Weltec Biopower recently signed the contract for a biogas plant extension of the milk powder producer Estancias del Lago (EDL) in Uruguay. From late 2018, the plant with its eight digesters will generate a rated thermal input of more than six megawatt from cattle manure and fodder leftovers. The company will use the biogas for drying and steam generation purposes in the production process.

Founded in 2007, the agricultural company EDL now farms an area of about 37,000 hectare. On this area, the South Americans grow maize, sorghum and soya as feed for their approximately 14,000 dairy cows. The company foundation was accompanied by the establishment of a huge site in Durazno, north of the capital Montevideo. Apart from the cowsheds with milking centers and feed silos as well as the biogas plant, the premises now host a dairy and a grain mill. In Durazno, Estancias del Lago produces about 20,000 tons of milk powder per year for export. Most of the milk solids are sold to China, Brazil and the Middle East.

In 2013, Weltec had set up the first 800 kW biogas plant for EDL. Back then, expansion plans were already being considered. First, however, more cattle were needed. In the meantime, the number has therefore been stocked up from 8,000 to 14,000 cows. Now,



1,365 tons of cattle manure plus 8.4 tons of feed leftovers are available for the energy generation.

The AD plant structural preparations started in September 2017. In early 2018, Weltec Biopower will begin installing the 6 new 5,000-m<sup>3</sup> stainless-steel digesters and the two 1,050-m<sup>3</sup> pre-storage tanks for the slurry. With Weltec's custom-developed process control system CeMOS, the entire biogas plant will be fully automated from the end of 2018.

Two gas boilers use part of the 30,000 standard m<sup>3</sup> of biogas that is produced every day to generate heat for the biogas process. Most of the biogas is transferred to the close-by milk powder production facility via a pipeline. The biogas covers up to 35 percent of the heat required for the

drying process. 100 percent of the steam needed is generated with biogas.

All operational units of the entire site are run in a very sustainable way. EDL contributes to this by growing its own fodder. The digestate from the biogas plant is used as fertilizer. Moreover, the cycle is closed by raising its own dairy cows and processing the milk on site.

At the facilities located just 150 m from the cowsheds, the milk is processed to powder within four to eight hours. Another synergy has been established between EDL's fuel production and other parts of the business: Apart from soya oil for the biodiesel plant, the oil mill yields press cake that is fed to the animals.

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## INDUSTRY PROFILE

# A Closer Look

by Donna Currie

## Alex Lyon & Son Jack Lyon • 315-633-2944

In 1973, Jack Lyon was a recent college graduate with “a notion to do auctions.” Lyon’s father, Alex, was a livestock dealer, but Jack wanted to move beyond the family business. Together, Jack and Alex started doing liquidations of farm equipment and formed the company, Alex Lyon & Son.

The auction business was doing well when, as Lyon expressed, “we accidentally got into a construction auction” in 1984. Lyon said that they were a little naïve about the construction auction business, and didn’t realize that while farm auctions paid their customers almost immediately, construction auctions generally held the payment much longer. As a result, they suddenly found themselves with more and more customers in the construction industry.

Lyon said that he and his father understood when people were in trouble and when an auction was the solution to the problem. “We aren’t corporate America,” he said, so they knew what it was like for the farmers and the construction companies they worked with. “I’m no different than I was 30 years ago, when I was cleaning out behind the cows,” Lyon said.

He described the business as being like a new baby. “First we crawled, then we waddled, then we skipped and now we can run.” They’ve been running for quite a while, since they’re the largest privately-owned construction auction company in the U.S.

“Not everyone is in a bad situation,” he said. While some auctions are because clients need to generate cash or because a business is closing, there are many reasons companies will auction off old or excess equipment. And of course, auctions are good news for the buyers, who can purchase equipment they need at prices that are much less than new.

Besides operating auctions all over the U.S., the company also runs auctions around the world, and does that with just 80 employees. The majority of their work is in the construction industry, but they continue to do a small percentage of farm auctions as well.

Lyon said that many of their employees have been with the company for decades, bringing a lot of experience to the table. That benefit is also one of Lyon’s biggest challenges, since it’s difficult to find new employees when long-time employees retire. “We ride on our reputation,” Lyon said, and it’s important to have the right employees on the job.

While many auctions are held on the clients’ premises, the company has 12 permitted sites where customers can drop off equipment to be auctioned.

In addition, there is an annual auction in Florida that lasts nine days. Lyon said that as many as 10,000 lots are auctioned off. “It’s a tradition down there,” he said, and buyers come from all over the world. Representatives from many South American companies attend the auction, since it’s easy to ship equipment from Florida ports.

Buyers also attend the auctions online, with as many as 30 percent of the sales coming from online buyers. “People are buying from all over the world,” Lyon said. “The internet brought the borders a lot closer together.” The buyers no longer need to worry about computer lag when making purchases, since a distant mouse-click takes 1/10 of a second to take effect.

The way information goes to customers is also different. “We broke it down scientifically,” he said, and found out that people over 50 years old tend to like information on paper, including brochures, while those under 50 prefer online communications, like email blasts.

In his many years in the business, Lyon has done a lot of travel and has seen a lot of interesting equipment on the auction block, including Shelby cars, army tanks, helicopters from the Viet Nam war, and even a Volkswagen bus that had been to Woodstock. While he enjoyed much of the travel, he said that Columbia was a little scary due to security issues.

After all these years in the business, travel and meeting people is still fun for Lyon. “In my mind, we’re still a livestock company,” he said, and he finds it amazing that he’s sitting in meetings with the presidents of very large corporations.

“It all goes back to people,” Lyon said. “We’re honest. We tell it the way it is. We’re fair.” He said that in the seven weeks that it takes to put an auction together, they’re “married” to their client. “We’re a team of horses,” Lyon said. He and his employees are available to their clients any time they’re needed during the entire process.

Since its inception, the company has changed, evolved, and grown. “You have to keep up with the times,” Lyon said, “or the times will pass you by, and you’ll be a thing of the past.”

Looking to the future, Lyon’s grandson will be graduating from college in a few years and has expressed interest in the auction business. “He wants to take it over,” Lyon said. Something in his voice said that he’ll be pleased when that change comes about.

# Meridian attains licensing for bio-refining facility

Meridian Waste Solutions, Inc., a vertically integrated, non-hazardous solid waste services company, through its wholly-owned subsidiary Meridian Innovations LLC, announced its exclusive licensing of the patented AST-Organosolv Process Technology from American Science and Technology Corporation (AST).

Under the terms of its agreement, Meridian Innovations will have an exclusive commercial license to the AST patents and a lease for the AST biomass processing facility in Wausau, Wisconsin.

Meridian Innovations is confident that, using the AST technology alongside Meridian Innovations’ process engineering and biomaterial development resources, a sustainable commercial bio-refining industry can be immediately launched.

The Meridian technology platform is largely in response to the current inefficiencies and outdated technology used in the pulp and paper industry. While the industry has prospered using clean process technologies and sustainable land management practices, its core technology is more than 100 years old and unable to implement efficient separation and bio-refining upgrades. The current antiquated pulp and paper processing methods are designed to only recover and sell about 50 percent of the processed biomass into high-value applications, meaning that the remaining 50 percent must be incinerated to recover and recycle the sodium-based solvents.

In contrast to traditional pulping processes, AST uses organic solvents

to separate the biomass into fractions in lieu of sodium-based solvents. These organic solvents can be efficiently recovered and reused without incineration, allowing for the recovery of nearly 100 percent of the biomass constituents. The cellulose, hemicellulose and lignin can all be recovered and converted into high-value materials whereas traditional methods only recover cellulose.

One such high-value opportunity is created via AST’s ability to recover and produce a unique melt-flowing form of lignin. The production of a melt-flowing form of lignin is a major breakthrough that allows an otherwise under-valued lignin stream to capitalize on a host of new market opportunities that were previously thought too difficult to explore. As an example, when used as a high-performance resin extender in thermoplastics, lignin brings a value of \$600 to \$2,000 per ton, depending on the performance requirements, substantially greater than the \$50 per ton value when incinerated.

Furthermore, Meridian’s process engineers are able to cost-effectively build biomass processing systems that range in capacity from 200 to 2,000 tons per day. As cellulose content and scale are no longer business constraints, Meridian can build and locate processing systems that reach a wider variety of feedstock opportunities such as peanut shells, rice hulls, corn stover, cotton stems, peach pits, perennial grasses, woody biomass and other crop residuals.

## Organics

■Continued from Page B2

duce is then sold primarily to vineyards, fruit and nut orchards and produce growers in the valleys in the north and east of San Francisco. The compost made from food is a nutrient and microflora organic rich compost that has shown great results in increasing soil fertility, reducing use of chemical fertilizers, pesticides, irrigation, and also pulling carbon out of the atmosphere and storing it in the soil as a climate change mitigation. Some of the wine and food grown with the compost come back to feed the city creating a closed-loop nutrient and organic cycle.

“The biggest challenge is changing behavior and overcoming the long time practice of previously throwing food into trash,” Macy said. The challenge, of course, is about changing perceptions and cultural norms both for individuals and businesses. Another challenge is the increasing regulations

and cost of composting facilities and difficulties in siting new facilities, as is the case for siting most types of ‘waste’ facilities. Today, we are collecting close to 700 tons of organics in San Francisco every day.”

San Francisco’s composting program has been a model for communities around the globe and for many municipalities in the U.S., especially in California and the west coast. The number of cities starting food composting has been increasing over time and now the state of California has set a strong legislative mandate to get 75 percent of all organics, including food, out of landfills by 2025.

“The state has issued draft regulations for this mandate that is largely modeled after San Francisco’s that will require municipalities to mandate source separated collection of food and other compostable materials for composting,” Macy said. Green recycling initiatives like food composting programs or broader zero waste programs are key for long term sustainability.”

*A recent study found that the average American walks about 900 miles a year. Another study found that Americans drink an average of 22 gallons of beer a year. That means, on average, Americans get about 41 miles per gallon.*



## Eco-Products partners to turn trash into soil

Eco-Products is partnering with the National Aquarium on an innovative new effort to turn guests' trash into rich, fertile soil – rather than ending up in area landfills.

Eco-Products, based in Boulder, Colorado, is supplying thousands of compostable cups, plates, lids, utensils, containers and trays to the Aquarium's food service locations. This now replaces all conventional disposable foodware plastic products with reusable, compostable or more sustainable options.

"This change is at the heart of our conservation mission, eliminating sources of pollution both for ecosystem and human health, and inspiring our guests to do the same, even after their visit," said Kris Hoellen, chief conservation officer at the National Aquarium. "Utilizing innovative Eco-Products items promotes an essential life-cycle approach to materials, whereby what once went in a landfill is now helping our trees and plants grow."

The new effort actually simplifies things for guests. All plates, utensils and trays can go into the same bin for compostables – along with any leftover food.

"It's hard to get guests to first scrape the cheese off a plastic plate – and then toss the cheese into one bin to be composted and the plate into another," said Sarah Martinez, director of marketing at Eco-Products. "This makes it as easy as possible to divert materials from landfills. Guests can throw their plate, cup and any leftover food into the same bin."

Even better, the cups, plates, containers and lids from the Aquarium will have a second life: They'll be turned into nutrient-rich soil and mulch for area farms, gardens – and even Waterfront Park surrounding the Aquarium.

The compostable cups, plates, utensils and trays from the Aquarium will be combined with other organic waste at Recycled Green Industries, a commercial composting facility in Woodbine, Maryland. A portion of the resulting soil from this process will return to the Inner Harbor to be used in planters on campus, bringing the journey full circle.

Diverting food and packaging from the landfill has numerous benefits: Not only does it extend the life of landfills, but treating soil with compost also minimizes the need for irrigation and artificial fertilizers, which could have harmful effects on the world's ocean and aquatic animals.

The new effort culminates a multi-year effort to reduce the use of conventional disposable plastics across the Aquarium's operations. Working closely with on-site partners Sodexo, the Classic Catering People, Pepsi and others, the Aquarium had already eliminated all disposable water bottles, ended the use of plastic bags in the gift shops and eliminated conventional single-use plastics at catering events.

That effort now goes all the way to providing plates made from sugarcane for guests at the Aquarium. Now every compostable product serves as a reminder about being smarter when it comes to our natural resources.

## Reducing food waste from the start

Americans waste a shocking amount of food every year – up to 40 percent of all food produced in the U.S. goes uneaten, according to the USDA.

Yet, a recent survey sponsored by Plastics Make it Possible® indicates that a 91 percent of Americans say preventing food waste is "very important." Part of the problem may be that less than 1 in 5 Americans (18 percent) is aware of a very effective and affordable tool for helping reduce food waste, and it's already available for many grocery store items: plastic packaging.

Innovative, modern plastic packaging helps protect food products from

microbes, moisture and other invasive agents, offering an affordable solution to keeping food fresh longer.

Take for example, "salad-in-a-bag." The plastic packaging reduces exposure to oxygen by sealing the food in a package that contains a mixture of gases in controlled proportions that slow spoilage, thus helping reduce food waste.

The choices we make at the grocery store can reduce food waste. A small amount of plastic packaging can help foods last significantly longer and, in the process, reduce costs and our carbon footprint.

## Anaergia

■ Continued from Page B5

fertilizer. A portion of the renewable natural gas can be used to fuel Waste Management's compressed natural gas (CNG) trucks.

Anaergia's Rialto Bioenergy facility will utilize its industry high solids wet anaerobic digestion system. This facility is expected to reduce greenhouse gas emissions up to 220,000 metric tons of CO2 each year, the equivalent of taking about 47,000 pas-

senger vehicles off the road. These environmental benefits will result from diverting organic waste from landfills and from replacing fossil fuels with renewable energy.

"This technology expands our capability as a leader in organics recycling and sustainability by recovering organics from the waste stream and meeting the current and future organics diversion needs of Los Angeles" said Larry Metter, area vice president for Waste Management of Southern California.

## ABB Campus Montreal LEED includes indoor composting efforts

ABB announced that the Canadian Green Building Council has certified Campus Montreal with the LEED (Leadership in Energy and Environmental Design) Silver accreditation. This represents an exceptional standard for a building that houses a range of energy-intensive activities that include manufacturing.

Located in Technoparc Montreal, the building serves over 700 employees previously spread across six locations in Greater Montreal. The campus houses research and development, manufacturing, assembly (RDA) and testing for ABB's energy value chain in Quebec.

In order to meet the selection criteria, ABB was required to meet a minimum of 40 points, Campus Montreal scored a 54. Each point responded to a number of requirements that covers every aspect of a sustainable design including, energy performance of the site, the materials and resources used and the innovation involved.

Some of ABB's key achievements recognized in the LEED certification process include:

• Inside the structure – incorporating natural light throughout the entire building, including the RDA, unlike most industrial buildings. Open concept

flexible working spaces, green garden certified furniture, ergonomic and height adjustable work stations, eleven green walls, increased recycling capabilities, including shared compost and garbage bins, low consumption toilets, efficient heating and cooling including the re circulation of over 2 megawatts of heat generated through testing activities in the RDA back into the building, and efficient LED motion detection lighting in most of the structure.

• Outside the structure – the installation of three green roofs and a white roof (to reduce the absorption of heat) on the main structure, EV charging stations, bike racks for employees and visitors and a preferred parking program for carpooling and hybrid vehicles.

For ABB, sustainability is of the highest importance. It is about balancing economic success, environmental stewardship and social progress to benefit all stakeholders. ABB is committed to sustainable value creation. Sustainability considerations and principles are embedded throughout our business value chain – from how we develop and produce energy-efficient products, and the sourcing of materials, through to end of life recycling and waste disposal.

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**Call TODAY,  
won't last long!**

