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Municipalities begin to utilize new organic waste strategies

by MAURA KELLER
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With as much as 80 percent of municipal solid waste categorized as food and organic waste, municipalities are searching for ways to reduce tipping fees charged by landfills by diverting this waste away from landfills and towards composting facilities. From utilizing separate compost and organic bins to offering yard waste drop off events throughout communities, municipalities are working with waste and recycling companies to handle the growing amount of organic waste as efficiently as possible.

According to Ryan Battles, digital strategist at WasteBits, one of the largest digital waste profiling software companies, most communities with a curbside service program provide an additional yard waste pickup day, but food waste continues to mingle with the general household waste.

“A growing number of cities across the U.S. are implementing dedicated curbside food waste collection programs, but continued adoption is challenging due to a number of factors that must be considered before a community can adopt a food waste program,” Battles said.

First of all, as Battles explained, a community must be able to develop an infrastructure of haulers, either by leveraging existing haulers or contracting with new ones. In addition, a suitable location to collect and process organic waste should be within a reasonable distance.



PHOTO BY KHENG HO TOH | DREAMSTIME

“If none is available, the cost to develop such a facility must be considered,” Battles said. “All of these factors are then compared to the regional cost for waste at the local landfills. The higher the cost of disposing of waste at the local landfill, the easier it is to justify the cost of a community food waste composting program.”

One of the biggest challenges to organic waste recycling is contamination by non-organic material. “When the



Autumn leaves and bags of grass clippings are in a large container at a collection station prior to being processed.

PHOTO BY FISKNESS | DREAMSTIME

sorting process is left to the consumer, general waste and recyclables can be intermingled with the organic waste, leading to a mixture of waste that can neither be recycled nor composted,” Battles said.

Ryan Cooper, waste diversion manager and organics recycling lead at Rubicon, said different municipalities handle their food and yard waste in different ways because of a number of factors: landfill diversion goals, cost, infrastructure and knowledge being four key considerations.

“Jurisdictions have differing goals, access to capital, existing private and/or public infrastructure, and skills to create organics recycling solutions,” Cooper said. “Food waste collection for animal feed and other uses was common in some areas in the past, but has not been seen in most communities for generations. Many municipalities handle yard waste by composting and/or mulching the material because the level of permitting is relatively low and the material is easier to handle than food scraps or biosolids. Composting food waste and biosolids requires more permitting and tighter management. Mulch yards run the risk of fires, but composting facilities draw criticism because of odor if they are not managed correctly.”

As Cooper explained, more and more jurisdictions are moving away from landfilling or incinerating valuable resources such as yard waste, food waste and biosolids because of waste

diversion goals. In fact, many municipalities are adding food waste and fats, oils and greases (FOG) to existing anaerobic digesters at their wastewater treatment plants (WWTPs – now called water resource recovery facilities – WRRFs).

“Municipalities are adding digester capacity and depackaging capability as well,” Cooper said. “Private firms are also steadily increasing the number of composting and anaerobic digestion facilities in conjunction with depackaging infrastructure that can separate organics from packaging like plastic or metal.”

Innovations Aplenty

Industry players such as municipalities, haulers, designers, builders and operators also have varied levels of interest in organics recycling. As Cooper explained, many industry folks and venture capitalists are excited about the opportunity and others are more reluctant. Many are specialized organics recycling companies, but larger haulers and cities are getting in the game as well.

“Separation of materials into MSW, SSR and organics is becoming the norm in more progressive areas, while there are still many parts of the country with little to no infrastructure or recycling culture to drive these programs,” Cooper said.

Faster, more efficient methods of composting organic waste are being

See ORGANIC WASTE, Page A4

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Ecomaine unveils fire suppression system

Manufactured by Elkhart Brass, Ecomaine's fire suppressions system is comprised of a water cannon at the tipping floor of ecomaine's facilities along with controls enabling its operation inside the tipping hall, outside the building via a remote control, or even remotely from ecomaine's waste-to-energy control room, which is staffed 24 hours per day. Thermal cameras display temperatures on the tipping floors, with thresholds to alert staff to the presence of elevated temperatures.

Following a fire at ecomaine in December 2017 sparked by an improperly-disposed lithium ion battery, Roche and ecomaine's board of directors sought a better – and safer – solution.

"Unfortunately, fires are all too common in our industry," said Roche. "We are extremely proud to now have this unique method of combatting 'hot spots,' which will keep our workers safe and our plant operational. While we may not know when safety investments pay off – no news is good news, after all – we will always go for the safer approach."

Roche detailed the system to waste managers from around North America as part of WASTECON's Safety Summit, Catching Fire.

Gerber and Terracycle launch national recycling program

Gerber, an early childhood nutrition manufacturer, has partnered with international recycling company TerraCycle® to help give hard-to-recycle baby food packaging a new life. This partnership is rooted in Gerber and TerraCycle's shared values around eliminating waste and supports the recovery of hard-to-recycle baby food packaging on a national scale.

"Through this free recycling program, Gerber is offering parents an easy way to divert waste from landfills by providing a responsible way to dispose of certain hard-to-recycle baby food packaging," said TerraCycle chief executive officer and founder, Tom Szaky. "By collecting and recycling these items, families can demonstrate their respect for the environment not only through the products that they choose for their children, but also with how they dispose of the packaging."

As an added incentive, for every pound of packaging waste sent to TerraCycle through the Gerber Recycling Program, collectors can earn \$1 to donate to a non-profit, school or charitable organization of their choice.

Gerber believes the baby food industry should help create a world where babies thrive, and this partnership is one of many steps toward its goal to achieve 100 percent recyclable or reusable packaging by 2025.

The Gerber Recycling Program is open to any interested individual,



school, office, or community organization. Participation in the program is easy. Interested parties can sign up on the Gerber Recycling Program webpage and mail in packaging that is not municipally recyclable using a prepaid shipping label.

Once collected, the packaging is cleaned and melted into hard plastic that can be remolded to make new recycled products.

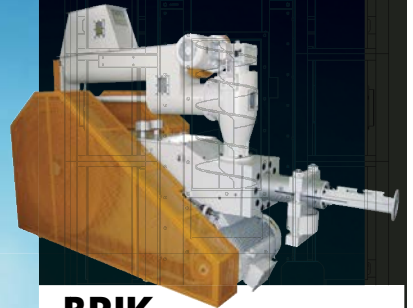
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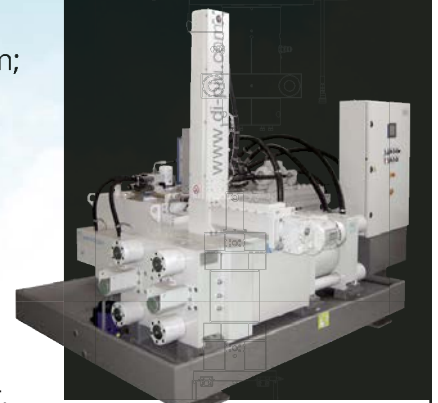
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Michigan EGLE offers grants for new diesel engines, alternative fuel or hybrids

A total of \$450,000 is available for clean diesel and alternative fuel engine and equipment replacement projects under a competitive grant request for proposal (RFP) announced by the Michigan Department of Environment, Great Lakes, and Energy (EGLE).

The 2020-21 Michigan Clean Diesel Program RFP targets efforts to replace old diesel equipment, vehicles, and engines with new diesel, alternative fuel, electric or hybrid versions. Applicants can be cities, townships and villages; county government agencies; public school districts;

private schools; public transit agencies; port authorities; metropolitan planning organizations; nonprofit organizations; or private businesses.

Applications will be accepted until 5 p.m. January 30, 2020, and projects must be completed by August 2021 in one of two categories:

•**Vehicle Replacement:** Funding may cover up to 25 percent of the cost of eligible diesel vehicle replacements, up to 35 percent of the cost of eligible vehicles that meet the California Air Resource Board's optional low oxides of nitrogen standards,

and up to 45 percent of the cost of an all-electric vehicle replacement. Eligible drayage vehicle replacement may be funded up to 50 percent.

•**Engine Replacement:** Funding includes replacing diesel engines with an engine certified for use with diesel or an alternative fuel or a zero tailpipe emissions power source. Funding for engine replacement may cover up to 40 percent for diesel or alternative fuel engines; 50 percent for low-nitrogen oxide and up to 60 percent for replacement with zero emission engines.

Organic waste

■Continued from Page 1

developed and tested in order to reduce costs and improve turnaround time. As Battles explained, some of the key biological innovations that help handle organic waste include:

•**Anaerobic Digestion Systems** – closed systems that process waste in an oxygen-depleted environment

•**Thermal Hydrolysis** – high-pressure boiling of waste followed by rapid decompression

•**Food Waste to Water** – nutrient-neutral water is created by aerobic bacteria and released safely into the sewer

Non-biological innovations include:

•**Food Waste Pulpers and Shredders** – waste is shredded, then water extracted to provide compost feedstock

•**Food Waste Dehydration** – heat and agitation evaporate moisture out, remaining pulp used as compost feedstock or potentially as animal feed or fertilizer

•**Pyrolysis** – thermo-chemical decomposition at high temperatures without oxygen

“The challenge of building infrastructure is creating a bottleneck that restricts the implementation of programs and hauling,” Cooper said. Contamination, because of lack of training and education, is also a huge challenge.

Many organizations are resorting to machines that can remove contaminants on the front end of the processing facility. “Pricing to the consumer and municipality is always an issue because of both the cost to build and operate organics recycling facilities as well as new trucks, drivers, and other equipment,” Cooper said.

Costs aside, Cooper pointed to many new technologies that are becoming more important as time goes on. For example, inside kitchens and cafeterias, technology is being developed to help businesses determine how much food waste they are generating in the first place, which can help them make better ordering decisions or ensure that items are used in other dishes instead of being discarded.

“Food packaging is constantly changing – because of pushback on certified compostable foodservice ware, foodservice operators are looking at solutions like reusables,” Cooper said.

“Dehydration, aerobic digestion, shredding and other on-site preprocessing technologies have the potential to change the industry. Depackaging technology is changing the way that facilities deal with contamination and also the mix of materials that ultimately wind up as animal feed, compost, or biogas. Other technologies are creating new products that can be converted from wasted food and other organics.”

C&D Organic Waste

Recyclable waste from construction and demolition (C&D) activity varies widely, but one thing's for sure: there is a tremendous amount of organic waste, specifically wood waste that can be recycled and put to use in a variety of ways.

Chris Batterson, account manager, construction & demolition recycling division at Rubicon, said that traditionally, the organic waste coming from a C&D project would be wood – whether as dimensional lumber or pallets.

As Batterson explained, dimensional lumber, which is uncoated but has odd lengths and sizes in scrap form, makes it difficult for any reuse or repurpose needs. It is instead recycled for wood chips, mulch, particleboard, and chipboard being the most frequent applications.

“It can also be used for biomass fuel, but currently that is a hot topic among the sustainability community and certification providers as to whether or not that is truly diversion,” Batterson says. At Rubicon, they focus on two other materials on every project that fall under the organics category. Gypsum, which today mainly ends up in the landfill is one focus for Rubicon. Utilizing the company's organics network they are able to get this material to composters and farmers to utilize in their soil at a lower cost than landfill or even in some cases, to sell it as a commodity to that network.

“We still work on closed loop solutions for gypsum where possible, but the infrastructure just does not exist today nationwide, and the costs for freight along with the GHG emissions associated with that long distance trucking make it hard to justify as a benefit,” Batterson said.

Down the Road

There is a history of banning yard waste from the landfill, and already multiple U.S. cities and states have passed regulations that encourage or

require diversion of food scraps from the landfill. So what does this mean for the future of organic waste?

“As the industry is becoming more aware of the issues surrounding organic waste recycling, there has been an influx of legislation and regulation,” said Matthew Hollis, co-founder/president of Elytus, a waste management company that uses technology to help clients receive better waste removal services and become more sustainable in the process. “Part of the challenge is that these laws mandate organic waste recycling, yet do not facilitate the infrastructure to do it. This disjunction between policy and pragmatism has left the industry in a scurry to build out the infrastructure to comply.”

Whenever there's an inefficient process, there exists a large opportunity for innovation. Hollis and his team at Elytus is seeing advancements in dehydrators, digestors, and grinding programs that transform the organic waste into a slurry.

“The extent to which these technologies can take off may depend on how much impact they have on the bottom line,” Hollis said.

As beneficial use of organics like food waste and biosolids increases, more and more infrastructure will be created. However, as Cooper pointed out, it is very much a case of the chicken and the egg.

“Jurisdictions pass regulations that encourage organics recycling and then the industry and affected generators scramble to keep up. As soon as they do, new phases of regulations start the process all over again. Places that consider these types of initiatives important will continue passing more and more progressive rules, while areas that do not consider this a priority will not,” Cooper said. “This creates an uneven playing field for generators, haulers, and processors alike. Business and consumers that travel from place to place will continue to be bewildered by organics recycling programs that vary based on location. As more municipalities and private companies pass organic waste regulations, develop infrastructure, and educate the citizenry about organics recycling, residents and businesses will continue to adopt the practice of separating these materials to create valuable products such as fertilizer, energy and fuel.”

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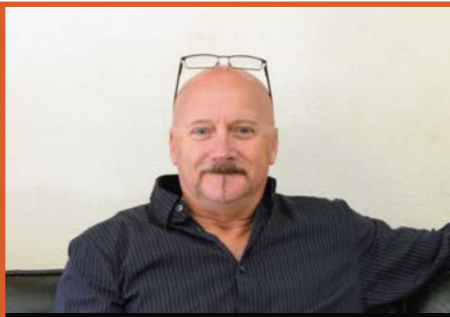
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NYC names competition winner

The NYC Department of Sanitation (DSNY), Van Alen Institute, the Industrial Designers Society of America and the American Institute of Architects New York announced that Group Project is the winner of the BetterBin Competition.

The BetterBin Competition offered designers an opportunity to reimagine New York City's iconic green, wire mesh litter basket. Two finalist teams each produced 12 full size prototype baskets that were tested in three New York City neighborhoods over a 90 day period. The judging panel selected the winner based on prototype performance, public response, and feedback from the Department's Sanitation Workers.

Produced by the interdisciplinary New York City-based team Group Project, the winning design consists of a light-weight and recyclable liner nested within a durable stand designed to blend in across all New York City neighborhoods. The design received positive feedback from both Sanitation Workers and the public for its sleek esthetic, bold recycling messaging, and significant ergonomic improvements. The interior liner is nearly 50 percent lighter than the current wire mesh basket, making it easier for Sanitation Workers to service. The liner also features eight comfortable grips for proper lifting compared to only two on the current basket.

The winning design prototypes were placed into service starting in December 2019 along 5th Avenue between 88th and 92nd streets in Manhattan. The prototypes will replace the



Group Project design team with Sanitation Workers and Commissioner Kathryn Garcia.

green wire mesh baskets currently in those locations. The Group Project team will continue to work with DSNY for further design development to be able to mass-produce the basket and make adjustments based on the learnings from the prototype testing period.

New York City is home to over 23,000 litter baskets. The most widespread design — the green, wire mesh basket — dates back to the 1930s. The BetterBin Competition offered designers a chance to envision a new litter basket with a sustainable, environmentally conscious, and ergonomic design that could improve the quality of life for New Yorkers and the service experience for Sanitation Workers.

In December 2018, two finalists were selected by a panel of nine jury members, including industrial design specialists and the president of Teamsters Local 831, the union that represents Sanitation Workers. The finalists worked closely with BetterBin Competition organizers to refine their designs and produce 12 full size prototypes that were tested in 3 New York City neighborhoods in summer 2019. The judging panel selected the first-place winner based on prototype performance, public response, and feedback from the Department's Sanitation Workers.

Judging panel members for the competition included: Keri Butler, Deputy director, Public Design Commission; Vijay Chakravarthy, Representative, IDSA; Kathryn Garcia, Commissioner, Department of Sanitation; Jeffrey Kapec, Executive Vice president, Tanaka Kapec Design Group and Visiting Professor at Pratt Institute; David van der Leer, Principal, DVDL Design Decisions; Cara McCarty, Curatorial director, Cooper Hewitt, Smithsonian Design Museum; Victoria Milne, Principal, 6c Design; Harry Nespoli, president, Uniformed Sanitationmen's Association; and Heron Preston, Designer.

Proposals sought for mattress recycling ideas

The Mattress Recycling Council (MRC) is seeking innovative proposals to make recycling more efficient and create new or better uses for hard-to-recycle mattress components. The initiative is part of MRC's \$1 million annual research fund to improve how discarded mattresses and box springs are recycled and identify new markets for reclaimed mattress materials.

"The number of used mattresses dismantled by MRC recyclers and the amount of steel, foam and other materials reclaimed is steadily growing each year. To sustain future growth, it is vital that we help identify new economically viable uses for those materials," explained Ryan Trainer, president of MRC. "To help solve this challenge, MRC welcomes ideas and proposals from potential innovators, including manufacturers of the original components, who may hold the key to identifying new and better uses for reclaimed materials."

MRC is funding a series of innovative research projects to kickstart new markets for the following materials: polyurethane foam, memory foam, latex foam, quilt panels (the top layer of a mattress), shoddy pads (mixed fiber insulating felt layer), various types of fiber batting and pocketed springs.

"MRC anticipates entering into multiple research projects over the next several years that support our recycling objectives. Up to \$100,000 per project is available, but MRC will consider increasing that contribution for innovations that show special potential, according to Mike Gallagher, MRC's research consultant leading the process. "MRC is most interested in ideas that show technical merit and feasibility, along with the best potential for commercial use in achieving the targeted use of the recycled material."

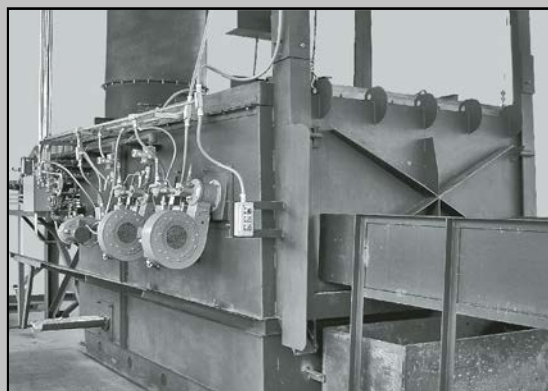
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California issues \$3.6 million enforcement action against CVS for redemption issues

Certain retailers are required to take redemptions or face a \$100 per day fee

The California Department of Resources Recycling and Recovery (CalRecycle) announced a \$3.6 million enforcement action against CVS Health Corp. for failing to meet its obligation to redeem Californians' deposits on recycled bottles and cans at stores throughout the state.

This enforcement action is part of California's broader effort to support and expand recycling while ensuring consumers have access to convenient recycling options as the recycling industry contends with changing global market conditions. State subsidies to recyclers have increased each of the last four years to cover the declining prices for scrap recyclables, resulting in \$176 million in payments to recyclers in 2018.

Under California's beverage container recycling law, retailers located in convenience zones that are not served by a recycling center must redeem California Redemption Value (CRV)

beverage containers in store or pay a \$100 per day fee.

An investigation by CalRecycle found that 81 of CVS Pharmacy's 848 retail stores in California refused to redeem CRV beverage containers in store, failed to pay the required \$100 a day fee for not redeeming or failed to submit an affidavit to CalRecycle stating how they would comply with in-store redemption standards.

"Today's action sends a message that we will hold retailers accountable for refunding consumers their nickel and dime recycling deposits," said Jared Blumenfeld, California Secretary for Environmental Protection. "Everyone must do their part as we work to protect our environment and ensure that all Californians have convenient access to recycling."

The enforcement action seeks to recover \$1.8 million in \$100 a day fees that the 81 stores had failed to pay as of October 31 and an additional \$1.8 mil-

lion in \$100 a day civil penalties. The action also seeks to recover CalRecycle's administrative costs of investigating and pursuing the action.

CalRecycle filed the enforcement action against the retail chain on December 5, 2019. As part of the administrative law process, CVS is entitled to an evidentiary hearing presided over by a hearing officer or administrative law judge.

"California has one of the highest recycling rates in the nation because of our shared commitment to the environment," said CalRecycle director Scott Smithline. "Retailers face financial consequences if they do not fulfill their legal takeback requirements. This \$3.6 million action is part of our ongoing enforcement of the bottles and cans program that includes intensified inspection efforts and ongoing recycling fraud crackdowns."

CalRecycle has increased enforcement against retailers that are obligated

to redeem the recycling deposit (CRV) for beverage containers in store, resulting in an additional 2,180 inspections and prioritized enforcement on retailers with the largest number of violations and penalties owed.

Through the budget and legislative processes, the state has also allocated an additional \$15 million in the past six months to support recycling centers and innovative redemption projects such as mobile redemption in areas with high rents and community resistance to recycling centers.

Since the state's Bottle Bill was enacted in 1986, Californians have recycled nearly 400 billion beverage containers. Last year Californians recycled 18 billion beverage containers, the second highest ever, accounting for 76 percent of the 24 billion CRV beverages sold in California. The state is on track to recycle 18 billion bottles and cans in 2019.

Pennsylvania launches litter reduction initiative

The Pennsylvania Departments of Environmental Protection (DEP) and Transportation (PennDOT), in partnership with Keep Pennsylvania Beautiful, announced an initiative to reduce littering and presented results of the first statewide litter study in over 20 years at a meeting attended by more than 125 local government, legislative, business, and community organization partners.

"Pennsylvania has a littering problem. Trash lines many of our roads and neighborhood streets. Hillsides and streambanks are strewn with tires and other garbage illegally dumped," said DEP secretary Patrick McDonnell. "This presents health hazards, it contaminates the soil and water, and cleaning it up is costly to the commonwealth and taxpayers."

"DEP has funded annual community and illegal dump site clean-ups around the state for over two decades. Thanks to these volunteer events, millions of pounds of litter have been removed from our land and water, but trash is accumulating faster than anyone can keep up with," said McDonnell. "DEP is committed to achieving an even greater impact, working with PennDOT, Keep Pennsylvania Beautiful, and other partners to develop and implement a framework of litter reduction measures that, for the first time, will be guided by state-specific litter data and a nationally recognized model of behavior change."

The Pennsylvania Litter Research Study was conducted in 2018-2019 with funding from DEP, PennDOT, Keep America Beautiful and Keep Pennsylvania Beautiful. A phone sur-

vey collected 500 residents' views on litter and littering. Field teams performed on-the-ground litter counts in 180 locations statewide, including state and local roads and urban and rural areas.

Over 96 percent of survey respondents said littering is a problem in Pennsylvania. Field results indicate an estimated 500 million pieces of litter on Pennsylvania roads. The most common items are cigarette butts and plastics, such as plastic food packaging, bottles and bags. Motorists and pedestrians are leading litterers, followed by improperly secured truck loads.

"PennDOT spends upwards of \$13.9 million yearly to pick up trash along state-owned roadways," said PennDOT secretary Leslie S. Richards. "This enormous amount of resources spent on clean-up means there's less funding available for improving our roads and bridges. Clean-up is not a sustainable strategy. PennDOT is proud to join forces with DEP, DCNR, and Keep Pennsylvania Beautiful to take action to shift the focus to changing behavior to prevent littering."

"Thankfully, environmental education programs and organized clean-ups help curtail littering at our 121 state parks, but illegal dumping remains a chronic problem in some state forests throughout the state," said DCNR deputy secretary Michael Walsh. "Managers of Michaux State Forest, in the south central section of the state, are actively deploying surveillance cameras in an attempt to deter roadside dumping, which often leaves the district facing high disposal costs."

ScrapSource awarded for growth


ScrapSource, a boutique scrap management firm that helps companies make smarter scrap metal recycling decisions, has been named a winner of the 29th Annual SMU Cox Caruth Institute Dallas 100™ Awards as one of the

area's fastest-growing companies.


Caruth Institute for Entrepreneurship ranks the top 100 Dallas entrepreneurial companies annually based on percentage growth and absolute dollar growth over the previous three years.

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AUTOMOTIVE

Pennsylvania awards clean energy vehicle grants

The Wolf Administration awarded more than \$700,000 in grants for three clean energy vehicle projects in northwest Pennsylvania that will help improve air quality and public health in the region.

“Replacing gasoline- or diesel-powered vehicles with lower-emissions alternative fuel vehicles makes a world of sense,” said Department of Environmental Protection (DEP) Secretary Patrick McDonnell. “It makes Pennsylvania’s communities and environment healthier; helps to slow the increasingly urgent impacts of climate change we’re seeing; and saves owners money on fuel costs.”

Funded through DEP’s Alternative Fuels Incentive Grants (AFIG) program, the projects in northwest Pennsylvania are expected to reduce annual greenhouse gas emissions by more than 928 metric tons.

The AFIG program supports replacement of older shuttles, school buses, waste-hauling trucks, and other vehicles

with cleaner natural gas and electric vehicles, as well as installation of fueling stations for such vehicles.

Grants were awarded to:

•Snyder Brothers, Inc.: \$463,064 to upgrade and expand capacity to meet increasing demand at two fast-fill compressed natural gas fueling stations in Armstrong County that serve their fleet and are also available to the public.

•TC Recycling: \$240,000 for six new CNG trash collection trucks at their Mars site in Butler County.

•Progas Inc.: \$5,800 to replace a gasoline vehicle with a propane-fueled vehicle to increase their propane fleet and train six technicians to do propane vehicle conversions and repairs at their site in Butler County.

School districts, municipalities, non-profit organizations and businesses are eligible to apply for AFIG grants. The next grant availability is in the spring.

SALVAGING Millions

by Ron Sturgeon
Autosalvageconsultant.com

Get rich slowly: It doesn't happen by accident

It's easy to say, but harder to execute. Twenty years have passed since I wrote my first consulting article, but I see it over and over – folks are trying to get rich fast. If you are young and are reading this article, you really do have a lot of time, but you need to stay focused. Find something you love to do, and then focus on it. Don't become distracted or bored. Just keep shooting the gun.

The other important part of getting rich slowly is to live within your means and be thinking about how to invest so that you can achieve your financial goals. People often ask me, “What are the biggest hurdles to success I've seen in the automotive industry?”

Two come to mind. The first hurdle is failure to invest in something other than your business. Invest just a little here and there, and in a decade, you won't believe what you will have. People call me and ask what they should do with the \$25,000 they just got unexpectedly. They usually put it in the stock market, which I guess is safe, but you're never going to make over five percent or so a year over a long period. Instead, I advise them to buy a rental house. Do you know that if you were to buy two rental houses a year for 20 years, in 30 years you

would be worth about \$10 million dollars? That's a nice retirement plan!

The second hurdle is being distracted. The biggest distraction I see in the automotive world is racing. If you love racing and want to have an expensive hobby that will drain you for your entire life, racing is it. I won't judge you for choosing racing as a hobby, unless you gripe about not having enough money. For many people in the automotive industry, racing is enticing enough that it will keep you distracted from executing on number one above or from doing most anything else that you could have used the time, energy and money on.

Start thinking about getting rich slowly by reading my book, *Getting to Yes with Your Banker*, because you will need credit. You can't get really rich without leverage. You can't do it while trying to be debt free. You need other people's money helping you! I am working on what will likely be my last book, *Homeless to \$100 million*. I've been giving business advice for years, but have never advised on how to build wealth, with an actionable road map. The mantra of the book is to build wealth, not income, because they are not the same.

Remember, only you can make BUSINESS GREAT!

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

RUBBER

USTMA urges action to develop new sustainable scrap tire markets

During its eighth Scrap Tire Recycling Conference, the U.S. Tire Manufacturers Association (USTMA) issued a nationwide call to action to grow and develop new sustainable, circular end-use markets for scrap tires. Conference co-sponsors USTMA, Michelin North America, the South Carolina Department of Commerce and the Scrap Tire Research and Education Foundation (STREF) joined more than 200 conference attendees to identify and promote solutions for economically viable and environmentally sound uses for scrap tires.

Approximately 250 million scrap tires are discarded in the U.S. each year. Of these, roughly 81 percent are reused or recycled into other uses like rubber-modified asphalt, tire-derived fuel, molded and extruded automotive products, micronized rubber powder and reclaimed carbon black, creating beneficial end-use markets.

“If South Carolina can be a national leader in tire production and exports, it also can be a national leader in the sustainable management of scrap tires,” said Rick Toomey, director of the South Carolina Department of Health and Environmental Control. “DHEC remains committed to working with stakeholders at all levels, including the U.S. Tire Manufacturers Association, to become that leader.”

Tire manufacturers, auto manufacturers, recyclers, retailers and environmental regulators from across the country explored emerging trends in the circular economy including challenges and opportunities for new and existing markets for scrap tires. Stakeholders also discussed the importance

of robust state scrap tire programs and the enforcement of scrap tire regulations, and the outlook for emerging markets such as pyrolysis and devulcanization. Innovative markets like pyrolysis and devulcanization help to advance the circular economy by converting scrap tires into raw materials which can then be used to manufacture new tires and rubber and plastic products.

“We have come a long way, but we have more work to do,” said Anne Forristall Luke, president and chief executive officer of USTMA. “Building effective partnerships, talking about important issues, and driving effective solutions is our charge. In less than 30 years, we've grown the portion of scrap tires entering end-use markets from 11 percent to 81 percent. To reach our goal of 100 percent scrap tires entering sustainable end-use markets, we need to continue to work with our state, industry and academic partners to grow existing markets and develop new ones.”

“Sustainability is at the heart of Michelin's global business ambition to give people everywhere a better way forward,” said Joanie Martin, chief administrative officer at Michelin North America, based in Greenville. “Michelin's sustainable development plan was launched more than 18 years ago. Michelin has defined an ambitious target: By 2048, Michelin tires will be produced with 80 percent sustainable materials and 100 percent of Michelin tires will be recycled. We can only achieve the goal with an open and good-faith exchange with stakeholders across the mobility value chain.”

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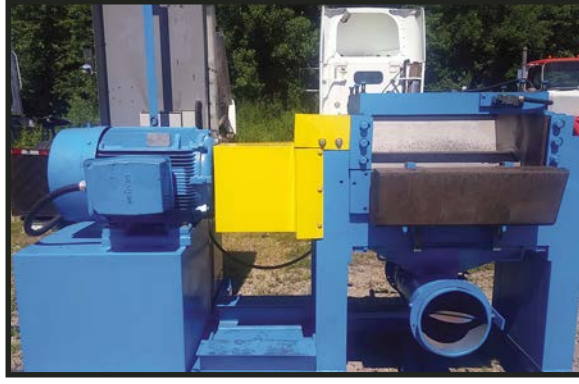
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METALS

California metal recyclers file suit for relief from harmful regulation

After years of attempting to work with the Department of Toxic Substances Control (DTSC), the California Metal Recyclers Coalition has filed a complaint against DTSC to prevent the unlawful imposition of “hazardous waste” facility permitting requirements on metal shredding and recycling facilities.

Scrap metal has never been classified as a “hazardous waste” under either federal or California law – and therefore metal recycling facilities have never been considered “hazardous waste” treatment facilities under either federal or state law.

The metal recycling industry is already extensively regulated by a wide array of federal, state, regional and local authorities, including federal and state air and water quality laws, regional water quality control boards, regional air quality districts, and local fire departments as well as other government entities that address local land use and permitting.

DTSC’s action is unlawful and threatens to undermine the scrap metal recycling industry in California. Californians have enthusiastically embraced recycling because they know that recycling helps reduce pollution, reduces the need for raw materials, preserves natural resources and reduces the energy used to mine and process native ores. California, which has always been a national leader

in recycling, is already facing a crisis, as hundreds of recycling operations have closed down.

Now it seems state government, through DTSC, is about to worsen the recycling crisis by threatening to put the largest, most successful, and most viable remaining recycling operation out of business by making it infeasible to recycle scrap metals like junk cars, used refrigerators, and many other thousands of end of life metal products.

Instead of being recycled into new products and reducing waste, this hazardous waste designation by DTSC will result in such materials accumulating in huge quantities, increasing urban blight and creating eyesores, and causing potential threats to health and safety by being abandoned in back alleys, yards, neighborhood streets, vacant lots – and through a geometric increase in “midnight dumping” along roadsides or in empty fields.

The California Metal Recyclers Coalition seeks a determination from the Court that the Hazardous Waste Control Law does not authorize DTSC to require hazardous waste treatment facility permits for metal processing and recycling operations conducted at California metal shredding facilities. The complaint also seeks injunctive relief.

Steel imports down 16 percent

U.S. IMPORTS OF FINISHED STEEL MILL PRODUCTS BY COUNTRY OF ORIGIN (Thousands of Net Tons)

	OCT 2019	SEP 2019	2019 Annualized	2018 Full Year	% Change 2019 Annual vs. 2018
SOUTH KOREA	170	157	2,663	2,764	-3.7%
JAPAN	74	71	1,308	1,383	-5.4%
GERMANY	79	64	1,092	1,339	-18.4%
TAIWAN	39	61	921	1,069	-13.8%
VIETNAM	28	51	747	1,110	-32.7%
BRAZIL	59	38	612	479	27.7%
CHINA	27	30	598	696	-14.1%
ITALY	17	24	513	605	-15.2%
All Others	985	1,034	13,556	16,249	-16.6%
TOTAL	1,479	1,532	22,012	25,694	-14.3%

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 2,177,000 net tons (NT) of steel in October 2019, including 1,479,000 net tons (NT) of finished steel (up 14.5 percent and down 3.5 percent, respectively, vs. September final data).

Through the first 10 months of 2019, total and finished steel imports are 24,770,000 and 18,343,000 net tons (NT), down 15.9 percent and 17.0 percent, respectively, vs. the same period in 2018.

Key finished steel products with a significant import increase in October compared to September were wire rods (up 24 percent), plates in coils (up 13 percent), sheets and strip hot dipped

galvanized (up 13 percent), mechanical tubing (up 13 percent) and heavy structural shapes (up 12 percent).

In October the largest volumes of finished steel imports from offshore were from South Korea (170,000 NT, up 8 percent from September final), Germany (79,000 NT, up 22 percent), Japan (74,000 NT, up 4 percent), Brazil (59,000 NT, up 54 percent) and Taiwan (39,000 NT, down 37 percent). For the first ten months of 2019, the largest offshore suppliers were South Korea (2,219,000 NT, down 11 percent vs. the same period in 2018), Japan (1,090,000 NT, down 7 percent), Germany (910,000 NT, down 17 percent), Taiwan (768,000 NT, down 16 percent) and Vietnam (622,000 NT, down 30 percent).

Steel import permit applications decrease in November 2019

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 1,864,000 net tons (NT).

This was a 28.1 percent decrease from the 2,594,000 permit tons recorded in October and a 14.4 percent decrease from the October preliminary imports total of 2,177,000. Import permit tonnage for finished steel in November was 1,201,000, down 18.8 percent from the preliminary imports total of 1,479,000 in October. For the first 11 months of 2019 (including November SIMA permits and October preliminary imports), total and finished steel imports were 26,634,000 NT and 19,545,000 NT, down 16.3 percent and 18.6 percent, respectively, from the same period in 2018. The estimated finished steel import market share in November was 14 percent and is 19 percent year-to-date (YTD).

Finished steel imports with large

increases in November permits vs. October preliminary imports included black plate (up 353 percent), cut lengths plates (up 39 percent), line pipe (up 28 percent), reinforcing bars (up 18 percent) and hot rolled bars (up 16 percent). Products with significant year-to-date (YTD) increases vs. the same period in 2018 include black plate (up 90 percent), steel piling (up 34 percent) and tin free steel (up 20 percent).

In November, the largest finished steel import permit applications for offshore countries were for South Korea (175,000 NT, up 3 percent from October preliminary), Japan (75,000 NT, up 1 percent), The Netherlands (71,000 NT, up 133 percent), Germany (56,000 NT, down 29 percent) and Taiwan (35,000 NT, down 9 percent).

Through the first 11 months of 2019, the largest offshore suppliers were South Korea (2,394,000 NT, down 10 percent from the same period last year), Japan (1,165,000 NT, down 9 percent) and Germany (966,000 NT, down 21 percent).

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METALS

Cleveland-Cliffs to acquire AK Steel common stock

Cleveland-Cliffs Inc. and AK Steel Holding Corporation have entered into a definitive merger agreement in which Cliffs will acquire all of the issued and outstanding shares of AK Steel common stock. Lourenco Goncalves, chairman of the board, president and chief executive officer of Cliffs, will lead the expanded organization.

Under the terms of the merger agreement, AK Steel shareholders will receive 0.40 shares of Cliffs common stock for each outstanding share of AK Steel common stock they own. Upon completion of the transaction, Cliffs shareholders will own approximately 68 percent and AK Steel shareholders will own approximately 32 percent of the combined company, respectively, on a fully diluted basis.

The fixed exchange ratio implies a consideration of \$3.36 per share of AK Steel common stock and represents a premium of 16 percent based on the closing share prices of Cliffs and AK Steel common shares, respectively, as of December 2, 2019, and a premium of 27 percent based on the 30 day volume weighted average price of AK Steel common shares. The transaction implies an aggregate consideration to AK Steel shareholders of approximately \$1.1 billion on a fully diluted basis, a total enterprise value of approximately \$3.0 billion for AK Steel and an acquisition multiple of 5.6x LTM Adjusted EBITDA.

The transaction will combine Cliffs, North America's largest producer of iron ore pellets, with AK Steel, a leading producer of innovative flat-rolled carbon, stainless and electrical steel products, to create a vertically integrated producer of value-added iron ore and steel products. The combined company will be ideally positioned to provide high-value iron ore and steel solutions to customers primarily across North America.

Key strategic and financial benefits

- Brings together complementary businesses to create company with full suite of value-added products: The combination will create significant opportunities to generate additional value from market trends across the entire steel value chain and enable more consistent, predictable performance through market cycles. The integrated supply chain provides AK Steel self-sufficiency in iron ore supply. Together, Cliffs and AK Steel will have a presence across the entire manufacturing process, from mining to pelletizing to the development and production of finished high value steel products, including Next generation advanced high strength steels for automotive and other markets.

- Solidifies demand for Cliffs' pellet offtake, with potential for growth into merchant pig iron: The combined company will ensure pellet volume commitments to AK Steel's blast fur-

naces along with Cliffs' Toledo hot briquetted iron facility, to complement its existing long-term minimum volume pellet offtake agreements with other key integrated steel producers. Further, the potential startup of pig iron manufacturing at AK Steel's facility in Ashland, Kentucky would create future opportunities for pellet demand and more metallics products without significant additional capital expenditures.

- Accretion through significant annual synergies: The transaction offers significant potential for operational synergies, which will contribute to long-term value creation for investors. The combination is expected to generate approximately \$120 million of annual cost synergies to be fully realized within the first 12 months after closing, primarily from consolidating corporate functions, reducing duplicative overhead costs, and procurement and energy cost savings, as well as operational and supply chain efficiencies.

- Stronger company with compelling pro forma financial metrics: The combined company is expected to benefit from a larger and more diversified base of customers, with less overall emphasis on commodity-linked contracts. For the last 12 months, the pro forma combined company has generated net revenue of \$8.2 billion, Adjusted EBITDA of \$1.3 billion and unlevered free cash flow of \$923 mil-

lion. The transaction will also be leverage-neutral with pro forma Total Debt to Adjusted EBITDA of 3.5x.

Additional transaction details and governance

Following completion of the transaction, with Goncalves leading the expanded organization, Newport will retire as chief executive officer and a director of AK Steel. Three existing members of AK Steel's board of directors will join the Cliffs board, and two existing Cliffs board members will step down, bringing the Cliffs board to 12 members in total. AK Steel will become a direct, wholly-owned subsidiary of Cliffs and will retain its branding and corporate identity. Cliffs will continue to be listed on the NYSE with its headquarters in Cleveland, while maintaining a significant presence at AK Steel's current offices in West Chester, Ohio along with its Research and Innovation Center in Middletown, Ohio.

The transaction is expected to close in the first half of 2020, subject to approval by the shareholders of both companies, receipt of regulatory approvals and satisfaction of other customary closing conditions.

Cliffs has obtained an approximately \$2 billion financing commitment from Credit Suisse in connection with a new Asset Backed Loan and the refinancing of AK Steel's 2023 senior secured notes.




Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$261.00	259.00	267.00	278.00	302.00
#1 Bundles	per gross ton	252.00	242.00	263.00	259.00	293.00
Plate and Structural	per gross ton	245.00	238.00	250.00	254.00	278.00
#1 & 2 Mixed Steel	per gross ton	186.00	215.00	221.00	234.00	249.00
Shredder Bundles (tin)	per gross ton	125.00	131.00	140.00	140.00	144.00
Crushed Auto Bodies	per gross ton	125.00	131.00	140.00	140.00	144.00
Steel Turnings	per gross ton	82.00	82.00	92.00	134.00	138.00
#1 Copper	per pound	2.39	2.33	2.33	2.49	2.46
#2 Copper	per pound	2.21	2.18	2.18	2.33	2.28
Aluminum Cans	per pound	.56	.56	.49	.50	.51
Auto Radiators	per pound	1.37	1.25	1.40	1.45	1.44
Aluminum Core Radiators	per pound	.58	.47	.40	.39	.35
Heater Cores	per pound	1.03	1.05	1.02	1.05	1.15
Stainless Steel	per pound	.55	.53	.49	.47	.48

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

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WASTE

NYDEC collects 77,000 pounds of chemicals in CleanSweepNY

New York State Department of Environmental Conservation (DEC) commissioner Basil Seggos announced that successful CleanSweepNY events were held in Riverhead and Melville. CleanSweepNY helps promote a healthy and sustainable New York by providing opportunities for proper disposal of unwanted and/or obsolete pesticides and other chemicals.

The fall CleanSweepNY events collected a total of 77,458 pounds of chemical wastes from 103 participants in Nassau and Suffolk counties. The event collected: 70,227 pounds of pesticides; 3,005 pounds of school chemicals; 2,948 pounds of paint; 4,943 aerosol containers of disinfectant spray, insect repellent sprays, and old spray paint; 515 pounds of old motor oil; and 763 pounds of various non-hazardous liquid wastes such as used engine coolant.

DEC staff visited three sites for the collection of waste chemicals to ensure pesticide containers in poor condition and waste chemicals were transported safely. In addition, the Agricultural Container Recycling Council, currently managed by the Long Island Cauliflower Association, provided for the collection and transport of recyclable plastic from CleanSweepNY collection sites.

DEC schedules and organizes CleanSweepNY events in collaboration with the

New York State Department of Transportation (DOT). Collection events were held at DOT facilities.

This was the 28th collection event organized and administered by the DEC's Bureau of Pesticides Management. Since the CleanSweepNY program's inception in 2002, more than two million pounds of chemical wastes have been collected across New York State, as well as more than 910 pounds of liquid elemental mercury.

Approximately 6,100 plastic pesticide containers, including many 55- and 30 gallon triple-rinsed pesticide drums, which would otherwise have been disposed of in landfills, have been collected and properly recycled. The program is endorsed by Cornell Cooperative Extension, the Agricultural Container Recycling Council, Soil and Water Conservation Districts, the New York Farm Bureau, and related agricultural associations.

CleanSweepNY services are available to agricultural and non-agricultural professional pesticide applicators, schools, and certain businesses which use pesticides such as golf courses, cemeteries and marinas. Homeowners cannot participate, but information about reducing household hazardous waste is available on DEC's website.

ELECTRONICS

E-waste handler busted for recycling fraud

Company falsified names and data to receive payments for discarded electronics

An Orange County based electronic waste handler owes up to \$154,836 in restitution to the California Department of Resources Recycling and Recovery (CalRecycle) following a multi-year recycling fraud investigation.

"The E-Waste Recycling Program is meant to ensure that hazardous material is handled properly and does not harm our environment," CalRecycle director Scott Smithline said. "Companies who try to take advantage of the program will find out that there are real consequences for their actions."

In 2014, CalRecycle's E-Waste Recycling Program staff found that Recycle Your City, a now defunct company based in Costa Mesa, had discrepancies in collection logs, including inflated counts of materials and falsified names and addresses of individuals who supposedly discarded the electronic waste, as well a lack of source information. After this discovery, the department disallowed the approved recycler's e-waste recycling payment claims for material from Recycle Your City. The E-Waste Recycling Program staff alerted the Califor-

nia Department of Justice, which launched an investigation and prosecuted the case.

On October 27, 2017, Glen Davis, owner of Recycle Your City, pled guilty of attempt to file false/forged instrument and grand theft. On January 29, 2019, he was sentenced to probation community service, and restitution. On May 14, 2019, Orange County Probation Department approved a maximum restitution amount of \$154,836.

Davis was a handler, someone who collects and transfers electronic waste to a collector approved by the E-Waste Recycling Program. The approved collectors must provide compliant collection logs to CalRecycle for materials to be eligible for payment.

The Electronic Waste Recycling Act of 2003 and associated regulations established a funding system for the collection and recycling of certain electronic waste. The E-Waste Recycling Program is intended to provide all Californians convenient ways to recycle certain electronic waste to keep hazardous materials from ending up in landfills.

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Recycled Tire Market Steady With New Applications for Rubber
According to the U.S. Tire Manufacturers Association (USTMA), in 1990 only 11 percent of annually generated scrap tires were consumed in beneficial end use markets. The rest went into stockpiles. But by 2017, approximately 81.4 percent of scrap tires generated in the U.S. were consumed and recycled in such ways as tire derived fuel, ground rubber and civil engineering applications...

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Did you read the most viewed articles from the June edition of American Recycler News?

Buyers Favor Online Auto Parts Marketplaces
As e-commerce trends continue to grow, traditional automotive recyclers with brick and mortar entities are taking notice. Automotive recycling companies agree that the online marketplace has had a huge impact on the automotive recycling parts industry...

China's Ban on Plastics and its Effect on the U.S. Economy
Frank Kiloran, director of circular solutions at Rubicon Global said the temporary plastics ban from China has two impacts from Rubicon's point of view...

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A hungry lion was roaming through the jungle looking for something to eat.

He came across two men. One was sitting under a tree reading a book and the other was typing away on his typewriter.

The lion quickly pounced on the man reading the book and devoured him.

Even the king of the jungle knows that readers digest and writers cramp!

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

UPCOMING TOPICS

- FEB Dust Control
- MAR Granulators
- APR Magnets
- MAY Containers

EQUIPMENT SPOTLIGHT



Scales

by **MARY M. THORNTON**

maryt@americanrecycler.com

Truck scales are integral in the process of measuring organic waste material, as they provide accurate and dependable vehicle weighing and a record of related data. At a high traffic organic processing facility, costs can quickly mount due to scale failures and downtime, issues associated with organic waste pollution and load cell and wiring failures. The ability to diagnose and correct such issues is vital.

B-TEK Scales, an industrial weighing solutions provider, offers all types of scales from bench and counting scales to off road dump truck scales and all service parts relative to any commercial grade scale. “We specialize in custom scale projects involving unique applications. With in-house engineering and programming teams, we can design and code the perfect scale and software solution to fit any need. We’ve serviced scales for 90 years and have manufactured them for 25 years. Our extensive expertise led us to develop our flagship truck scale – the Centurion. It’s manufactured with more steel than any standard truck scale on the market and empowered with the smartest digital technology – TruDigital™. These scales utilize Nexia™ live monitoring software which sends scale service providers automated notifications regarding potential and current errors, including remote diagnostics. This ensures service technicians can arrive as soon as possible with the right parts to perform service on the first visit,” Blake Calloway, marketing manager, explained.

He continued, “As technology advances and we increase efficiency

through automation, The Internet of Things and Industry 4.0 are impacting the weighing industry as well. Data is crucial to managing an effective business. Until recently, whether via printed weighment tickets or jotting down figures in a spreadsheet, data was captured manually and usually located offline. B-TEK has developed a way to harness this information through online connectivity – providing customers with data required to achieve ultimate efficiency. Also, now in beta testing, B-TEK will soon offer software that functions as a full business management platform for



Cardinal Scale Manufacturing Co.

service providers. The product integrates an online portal with technician application, which assists in driving efficiencies at the servicer level. Incorporating everything from CRM to contract management, it will completely revolutionize the scale service industry.

Our highly trained staff of sales professionals, distributors and manufactur-

ing professionals is here to assist you with all your weighing needs.”

For 70 years, Cardinal Scale has offered truck scale solutions and a wide variety of different vehicle weighing technologies and applications. The company’s latest truck scale brand features the benefits of learning and improving vehicle weighing technology to provide the highest quality (and smartest) truck scale on the market. The ARMOR’s 50 ton CLC-rated weighbridge, SmartCell® digital load cells, and Cloud-based iSite remote monitoring systems provide safeguards against common problems that truck scale

owners face. Jonathan Sabo, vice president of marketing and customer support stated, “Cardinal Scale’s ARMOR® truck scales are used in many heavy capacity industries and provide many advantages beneficial to organics weighing. ARMOR’s high capacity decks and high CLC rating offer the most protection against repetitive, heavy duty weighing rigors. Digital load cells and remote iSite monitoring give users data and diagnosis tools for when issues arise, in real time. The simplified load cell wiring and easy load cell installation eliminate most of the time associated with set up and load cell replacement, which means the weighing operation can have a truck scale up and running fast and keep it running over the years dependably. The ARMOR digital truck scale has offered these technological advances for the last few years to keep organics facilities that process hundreds of trucks per day from losing valuable time and resources.”

With high repeated use, truck scale weighbridges may fail due to off set or shock loading damage. The corrosive

See **SCALES**, Page 16



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Scales

Continued from Page 15

nature of organic waste collected around the base of truck scales can damage load cells. “Our ARMOR structural integrity is superior to other brands because the I-beams run from headplate to headplate without cutouts. This design eliminates the possibility for stress concentrations in the corners. The weighbridge connecting support block is welded to one-inch-thick endplates, in direct line with the I-beams and load cell support blocks so this decreases torsion and stress points,” said Sabo.

Every facet of the ARMOR digital truck scale weighbridge and related electronics are specifically built for long lasting endurance, minimal upkeep, and IoT monitoring convenience. The scales feature 135 ton capacity, 50 on CLC, no moving parts below the scale deck, including the load cells, and more structural steel than similar products, SmartCell stainless steel waterproof digital load cells, baked-on tan powder coat paint and IoT-enabled iSite remote monitoring software.

Digital truck scales are gaining in market share. “Digital load cells allow for



Fairbanks Scales, Inc.

remote monitoring, elimination of junction boxes, simplification of load cell wiring, and wireless transmission of cell data to truck scale indicators. The ability to continuously monitor, receive alerts, and diagnose load cell issues eliminates much of the guesswork associated with electronic truck scales. Digital load cells are much easier to replace, more robust against corruption from moisture and filth, and much easier to connect when replaced. These benefits over electronic truck scales allow truck scale owners to save time in replacing, maintaining and correcting load cells, which equates to a lower cost of ownership,” Sabo concluded.

“The Talon aboveground steel deck

truck scale offers the longest-lasting construction of any steel deck truck scale in the industry. Incredibly strong modules, constructed with structural steel, are built to federal bridge standards. Cabling is protected with ArmourGuard stainless steel sheathing. Easily installed and maintained, our scales feature design achievements that make them stand out over the competition,” Robert Monroe, heavy capacity product manager, stated.

Scale longevity is reinforced by an open bottom design that eliminates internal corrosion failures and allows for air circulation and easy module inspection. “Contrast that with competitors’ sealed rib panels, which can form fatigue cracks in the welds,

allowing condensation and rust on the unpainted inside of the supports. Placing the load cells in easily accessible and serviceable areas beneath the scale instead of inside the deck eliminates the need for cover plates. The Talon design ensures a more structurally sound scale deck that resists metal fatigue, deflection and internal deck cracks,” Monroe said.

Featuring massive 10 and 12” structural support beams, Fairbanks’ Talon steel deck scales boast the lowest deflection in the industry, while standing up to the rigors of fast weighing cycles. There are several capacity and deck plate thickness options, including the HV with 1/4” deck plate for normal duty cycles and the 3/8” deck plate HVX for “extreme” duty cycles. Platform lengths range from 10 to 120’ standard, with custom lengths available. Standard platform widths come in 10, 11 or 12’.

Intalogix® Technology isolates and guards scale against power surges and dangerous electrical strikes. Sectional controllers optically isolate load cells, and encapsulated circuit boards protect against moisture damage. Rocker column load cells feature true hermetic seals designed to prevent moisture intrusion and retard corrosion in the most caustic environments.



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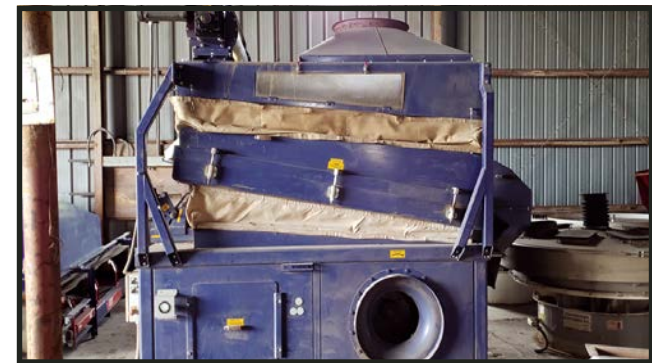
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BUSINESS BRIEFS

Eagle International launches new website

■ Eagle International has launched a new site to help improve the user experience when researching and buying the appropriate equipment for their tire recycling operations. The site offers up to date information and offerings that reflect the breadth of Eagle International's product lines.

Anyone interested in upgrading or improving their tire recycling capabilities can view all of Eagle's product lines and explore the different options and configurations that come with each machine.

The resources featured on the Eagle International site are meant to educate buyers and direct them to the correct seller in their region of the globe. Eagle has dealership representation in 12 countries outside of the U.S. including South Africa, Botswana, Namibia, Angola, Lesotho, Swaziland, Zambia, Russia, Kazakhstan, Ukraine, Argentina and Mexico.

The site is fully responsive on mobile devices. Those without access to a computer, out in the field, can research products and find contact information for their sales representative.

Wicklender named GM of ALL Sunshine Crane Rental

■ A veteran of the ALL Family of Companies, T.J. Wicklender, has been named general manager of ALL Sunshine Crane Rental Corp. of Orlando, Florida. Wicklender brings two decades of crane experience forged in the greater Chicago area, where he served in a multitude of roles at Central Contractors Service, also an ALL branch.

Wicklender began his career with the ALL family 19 years ago as a parts runner for Central Contractors Service. Over the years, he also worked in operations and dispatch and spent a decade and a half in sales before most recently serving as manager of the Alsip, Illinois, location.

In addition to the insight gained from having served in multiple capacities with the ALL Family of Companies, Wicklender's promotion is owed, in part, to his long tenure in sales and his experience in competitive construction markets. Wicklender is well-prepared to lead ALL Sunshine Crane Rental in Orlando, one of the fastest-growing cities in the U.S.

Steve Russell to retire from American Chemistry Council

■ The American Chemistry Council (ACC) announced that Steve Russell, vice president of its Plastics Division, has decided to retire from ACC in early February. Russell led the plastics division for more than a decade. Russell will step down following ACC's board meeting on February 7.

Russell joined ACC in 1995 and has overseen the division's sustainability programs, scientific research and public outreach.

Energyspar Corp. appoints new director of the board

■ Energyspar Corp. has entered into a further amending agreement with MindFull Capital Inc. in connection with the business combination agreement previously entered into on April 16, 2019. The deadline for closing of the business combination transaction has been extended to February 28, 2020.

Additionally, the company has appointed John-Peter Bradford to the board of directors of Energyspar, filling one of the two vacancies created by resignations following the AGM. Bradford comes from a strong management, research and governance background and, among other things, was founder and chief executive officer of Metro Photonics Inc. when it raised over \$75m in 2000.

It is Energyspar's intention to apply for a listing on the CSE for its new subsidiary company designed to carry on its business when the MindFull Transaction is completed.

Sharps Compliance names Trevino as VP of sales

■ Sharps Compliance Corp., a full service provider of waste management solutions including medical, pharmaceutical and hazardous waste, has appointed Vic Trevino as vice president of sales.

In his new role, Trevino will oversee the field sales team, including business development and national account managers, with a focus on accelerating the closing of existing sales opportunities, and meeting or exceeding sales budgets while growing the sales pipeline. Trevino is a healthcare industry veteran and plans to incorporate his expertise with the existing strength of the company's sales and marketing professionals to drive sales growth of all of Sharps' solution offerings.

Trevino has over 25 years of sales and marketing experience in the healthcare industry, most recently as vice president of sales and marketing for Micro-Tech Endoscopy. He was responsible for field sales, national accounts and new and emerging technologies. Earlier in his career, Trevino held various leadership positions in sales, marketing, corporate accounts, and sales training with Medtronic GI Solutions, Johnson & Johnson's Advanced Sterilization, Medtronic CardioVascular and Johnson & Johnson's Ethicon Endo-Surgery. Trevino earned a Bachelor of Business Administration from the University of Houston.

A mathematician wandered back home at 3 a.m. and proceeded to get scolded by his wife.

"You're late!" she yelled. "You said you'd be home by 11:45!"

"Actually," the mathematician replied coolly, "I said I'd be home by a quarter of 12."



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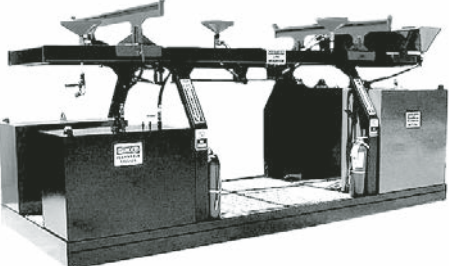
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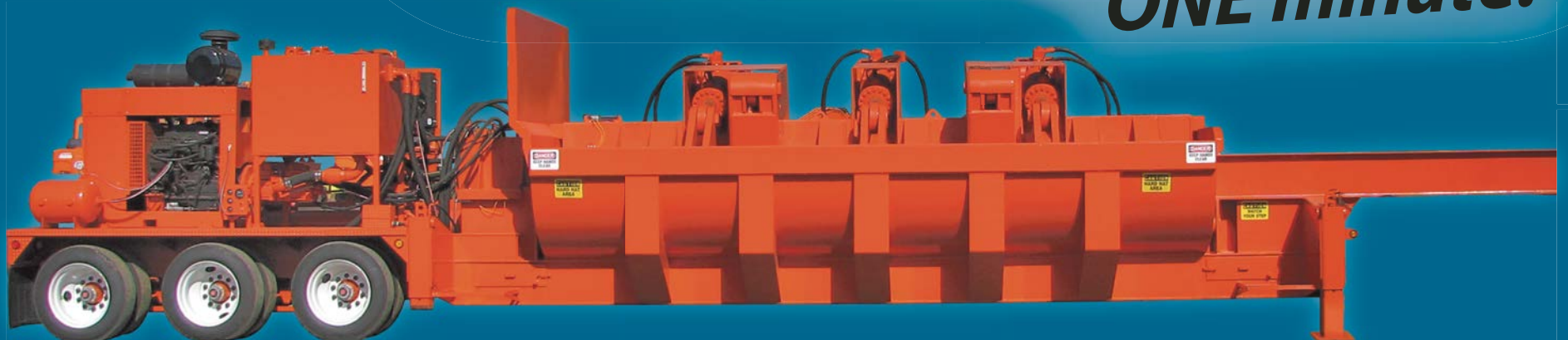


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AMERICAN RECYCLER BUYER'S GUIDE

SECTION B

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For an alphabetical listing that includes addresses, phone numbers, and websites please see page B4.

Auctions & Services

AUCTIONS

- Bailey's Auto Crushing & Recycling
- DADE Auctions, Inc.
- Rosen Systems
- Walloonmsac Metal Recycling

Automotive Recycling

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- S3 Software Solutions
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- Aquajet Systems AB
- AutoDrain
- Bailey's Auto Crushing & Recycling
- Bandit Industries, Inc.
- Best Process Solutions, Inc.
- Blackrock Plastics, LLC
- Builrite Manufacturing
- Burco
- Crow Environmental
- Crushed N2
- DJS Enterprises, LLC
- Equipment International
- Eriez
- E-Z Crusher/ R.M. Johnson Company
- Harris
- Hollander
- Holmatro
- Imabe of America
- Interstate Batteries Recycling, LLC
- Iron Ax
- Lamb Fuels Inc.
- LEFORT
- Metso
- Moley Magnetics Inc.
- OBC Industrial
- Prab Inc.
- S3 Software Solutions
- SAS Forks
- Steinert US
- Supershear, Inc.
- swissRTec America, Inc.
- Talbert Manufacturing
- Tufner Weighing Systems
- Valley Forge Equipment, Inc.
- Vortex De-Pollution & Recycling Equipment
- Walloonmsac Metal Recycling
- WEIMA America, Inc.

Aluminum & Steel Processing

BALERS & CRUSHERS

- Acadia Scrap & Salvage, Inc.
- AI-Jon by C&C Mfg
- Best Process Solutions, Inc.
- B-TEK Scales, LLC
- CPM Di Piu Systems
- Crushed N2
- Dade Scrap Iron & Metal, Inc.
- DJS Enterprises, LLC
- Ely Enterprises Inc.
- Eriez
- E-Z Crusher/ R.M. Johnson Company
- Grigas Brothers, Inc.
- Harris
- Himes Service Company
- International Baler
- Iron Ax
- Langston Companies, Inc.
- LEFORT
- Mallin Companies, Inc.
- Metso
- OBC Industrial
- Rise Equipment

- S3 Software Solutions
- Sierra International Machinery, LLC
- SP Industries Inc.
- SSP Technologies, Inc.
- Valley Forge Equipment, Inc.
- Vortex De-Pollution & Recycling Equipment
- Walloonmsac Metal Recycling

DENSIFIERS & FLATTENERS

- CPM Di Piu Systems
- Acadia Scrap & Salvage, Inc.
- Best Process Solutions, Inc.
- Crushed N2
- Dade Scrap Iron & Metal, Inc.
- DJS Enterprises, LLC
- E-Z Crusher/ R.M. Johnson Company
- Grigas Brothers, Inc.
- Harris
- Himes Service Company
- International Baler
- LEFORT
- Maren Balers & Shredders
- OBC Industrial
- Rise Equipment
- SICON America
- Sierra International Machinery, LLC
- Valley Forge Equipment, Inc.
- Vortex De-Pollution & Recycling Equipment
- Walloonmsac Metal Recycling

SHREDDERS

- Acadia Scrap & Salvage, Inc.
- AI-Jon by C&C Mfg
- American Cutting Edge
- Bandit Industries, Inc.
- BCA Industries
- Best Process Solutions, Inc.
- B-TEK Scales, LLC
- CM Shredders
- Dade Scrap Iron & Metal, Inc.
- DJS Enterprises, LLC
- Eriez
- Granutech-Saturn
- Grigas Brothers, Inc.
- Harris
- Himes Service Company
- Lamb Fuels Inc.
- Mallin Companies, Inc.
- Metso
- Moley Magnetics Inc.
- OBC Industrial
- Prab Inc.
- Rise Equipment
- Shred-Tech
- SICON America
- SSP Technologies, Inc.
- swissRTec America, Inc.
- Valley Forge Equipment, Inc.
- Vortex De-Pollution & Recycling Equipment
- Walloonmsac Metal Recycling
- WEIMA America, Inc.

OTHER ALUMINUM & STEEL PROCESSING

- Bunting
- Aquajet Systems AB
- Best Process Solutions, Inc.
- B-TEK Scales, LLC
- CM Shredders
- CPM Di Piu Systems
- Crow Environmental
- Crushed N2
- Dade Scrap Iron & Metal, Inc.
- DJS Enterprises, LLC
- E-Z Crusher/ R.M. Johnson Company
- Granutech-Saturn
- Langston Companies, Inc.
- LEFORT
- Mallin Companies, Inc.
- OBC Industrial
- Philippi-Hagenbuch
- Prab Inc.

- Recycling Services Intl, LLC.
- Rise Equipment
- Sierra International Machinery, LLC
- Talbert Manufacturing
- Valley Forge Equipment, Inc.
- Walloonmsac Metal Recycling

Conveyors

BELTS

- Andela Products
- Bunting
- Ely Enterprises Inc.
- Eriez
- Harris
- Himes Service Company
- Mallin Companies, Inc.
- Maren Balers & Shredders
- Moley Magnetics Inc.
- MPI Magnetic Products, Inc.
- OBC Industrial
- Prab Inc.
- Rise Equipment
- Sierra International Machinery, LLC
- Sparta Manufacturing
- SSP Technologies, Inc.
- Vecoplan, LLC
- Vortex De-Pollution & Recycling Equipment
- Warren & Baerg Manufacturing, Inc.

BULK HANDLING EQUIPMENT

- Ameri-Shred Corp.
- Andela Products
- BCA Industries
- Best Process Solutions, Inc.
- Bunting
- CM Shredders
- DJS Enterprises, LLC
- Ely Enterprises Inc.
- Eriez
- Himes Service Company
- International Baler
- Maren Balers & Shredders
- Moley Magnetics Inc.
- MPI Magnetic Products, Inc.
- OBC Industrial
- Prab Inc.
- Rise Equipment
- Sparta Manufacturing
- SSP Technologies, Inc.
- Valley Forge Equipment, Inc.

PNEUMATIC

- Ely Enterprises Inc.
- Mallin Companies, Inc.
- Moley Magnetics Inc.
- OBC Industrial
- Prab Inc.
- Vortex De-Pollution & Recycling Equipment

VIBRATING

- Action Equipment Company Inc.
- Ameri-Shred Corp.
- BCA Industries
- Best Process Solutions, Inc.
- Bunting
- CM Shredders
- Eriez
- Himes Service Company
- Joest Inc.
- Mallin Companies, Inc.
- Moley Magnetics Inc.
- OBC Industrial
- Prab Inc.
- Rise Equipment
- Sparta Manufacturing
- Vecoplan, LLC
- West Salem Machinery Co

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OTHER CONVEYORS

Andela Products
 BCA Industries
 CM Shredders
 Ely Enterprises Inc.
 Eriez
 Hallco Industries Inc.
 Himes Service Company
 Imabe of America
 International Baler
 Moley Magnetics Inc.
 MPI Magnetic Products, Inc.
 OBC Industrial
 Prab Inc.
 Rise Equipment
 Sierra International Machinery, LLC
 Sparta Manufacturing
 Tufner Weighing Systems
 Valley Forge Equipment, Inc.
 Warren & Baerg Manufacturing, Inc.

E-Scrap Materials**AUTOMATED SORTATION**

Ameri-Shred Corp.
 Moley Magnetics Inc.
 MSS, Inc.
 OBC Industrial
 REDWAVE Solutions US LLC
 SICON America
 Steinert US

CRT EQUIPMENT (GLASS CUTTING & SEPARATION)

Andela Products
 Crushed N2
 Eriez
 Moley Magnetics Inc.
 OBC Industrial
 SICON America
 swissRTec America, Inc.

SHREDDERS

BCA Industries
 Holmatro
 OBC Industrial
 Vecoplan, LLC

OTHER E-SCRAP PROCESSING EQUIPMENT

Action Equipment Company Inc.
 American Cutting Edge
 Ameri-Shred Corp.
 Andela Products
 Aquajet Systems AB
 BCA Industries
 Bunting
 Crushed N2
 DJS Enterprises, LLC
 Eldan Inc.
 Granutech-Saturn
 International Baler
 Langston Companies, Inc.
 Metso
 Moley Magnetics Inc.
 OBC Industrial
 Philippi-Hagenbuch
 SICON America
 swissRTec America, Inc.
 Talbert Manufacturing
 Tufner Weighing Systems
 Vecoplan, LLC

Glass Processing**CRUSHERS**

Andela Products
 Blackrock Plastics, LLC
 Crushed N2
 Flipscreen
 Himes Service Company
 OBC Industrial
 Rise Equipment
 SP Industries Inc.

PROCESSING PLANTS

Andela Products
 CM Shredders
 Crushed N2
 OBC Industrial
 REDWAVE Solutions US LLC

PULVERIZERS & GRINDERS

Andela Products
 Crushed N2
 Granutech-Saturn
 Himes Service Company
 OBC Industrial
 Rise Equipment
 Shred-Tech
 SSP Technologies, Inc

OTHER GLASS PROCESSING

Andela Products
 Blackrock Plastics, LLC
 CM Shredders
 OBC Industrial
 Philippi-Hagenbuch
 Steinert US
 Talbert Manufacturing

Loaders & Forks**AUTO SALVAGE FORKS**

Acadia Scrap & Salvage, Inc.
 Bailey's Auto Crushing & Recycling
 Crushed N2
 Mack Manufacturing Inc.
 SAS Forks

BUCKET FORKS

Crushed N2
 Mack Manufacturing Inc.
 SAS Forks

MINI LOADERS

ASV Holdings Inc.
 Crushed N2
 MPI Magnetic Products, Inc.
 SAS Forks

WHEEL LOADERS

Acadia Scrap & Salvage, Inc.
 Bailey's Auto Crushing & Recycling
 Crushed N2
 Hitachi Construction Machinery
 Loaders America, Inc.
 SAS Forks
 Valley Forge Equipment, Inc.

SKID STEER LOADERS & FORKS

ASV Holdings, Inc.
 Mallin Companies, Inc.

OTHER LOADERS & FORKS

ASV Holdings, Inc.
 CPM Di Piu Systems
 Flipscreen
 Mack Manufacturing Inc.
 Mallin Companies, Inc.
 SAS Forks
 Sellick Equipment LTD.
 Talbert Manufacturing

Material Handlers & Processing**AIR CLASSIFIERS**

Action Equipment Company Inc.
 Eriez
 Himes Service Company
 Joest Inc.
 Mallin Companies, Inc.
 Rise Equipment
 SICON America
 Sparta Manufacturing
 Vecoplan, LLC

AIR KNIVES

Action Equipment Company Inc.
 Bunting
 SICON America
 Sparta Manufacturing

GRAPPLES

Acadia Scrap & Salvage, Inc.
 Bulfrite Manufacturing
 Equipment International
 Himes Service Company
 Indeco North America
 Iron Ax
 Kinshofer
 Mack Manufacturing Inc.
 Mallin Companies, Inc.
 Moley Magnetics Inc.
 Morbark Inc.
 Rise Equipment
 Sierra International Machinery, LLC
 Valley Forge Equipment, Inc.

MAGNETS & MAGNETIC SEPARATORS

Action Equipment Company Inc.
 BCA Industries
 Best Process Solutions, Inc.
 Bunting
 CM Shredders
 Equipment International
 Himes Service Company
 Iron Ax
 Mallin Companies, Inc.
 Moley Magnetics Inc.
 MPI Magnetic Products, Inc.
 OBC Industrial
 Prab Inc.
 Rise Equipment
 Sennebogen LLC
 SICON America
 Sparta Manufacturing
 Steinert US
 Valley Forge Equipment, Inc.
 Vecoplan, LLC

OPTICAL SORTERS

Himes Service Company
 Mallin Companies, Inc.
 OBC Industrial
 REDWAVE Solutions US LLC
 Rise Equipment
 SICON America
 Sparta Manufacturing
 Steinert US

SCREENS

Action Equipment Company Inc.
 Andela Products
 BCA Industries
 Best Process Solutions, Inc.
 Flipscreen
 Haver & Boecker Niagara
 Himes Service Company
 Joest Inc.
 Komptech Americas
 KPI-JCI and Astec Mobile Screens
 Moley Magnetics Inc.
 OBC Industrial
 Rise Equipment
 SICON America
 Sparta Manufacturing
 Vecoplan, LLC
 Vermeer Corporation
 West Salem Machinery Co

WEIGHING & HANDLING EQUIPMENT

Acadia Scrap & Salvage, Inc.
 Best Process Solutions, Inc.
 B-TEK Scales, LLC
 Bulfrite Manufacturing
 Equipment International
 Fairbanks Scales Inc.
 Fuchs USA
 Himes Service Company
 Maren Balers & Shredders
 MPI Magnetic Products, Inc.
 OBC Industrial
 Sennebogen LLC
 Tufner Weighing Systems
 Valley Forge Equipment, Inc.

OTHER MATERIAL HANDLERS

B-TEK Scales, LLC
 Eriez
 Flipscreen
 Fuchs - North America
 International Baler
 Interstate Batteries Recycling, LLC
 Iron Ax
 Kinshofer
 KPI-JCI and Astec Mobile Screens
 Langston Companies, Inc.
 MPI Magnetic Products, Inc.
 OBC Industrial
 Philippi-Hagenbuch
 Rise Equipment
 SAS Forks
 Sennebogen LLC
 Sierra International Machinery, LLC
 Sparta Manufacturing
 swissRTec America, Inc.
 Talbert Manufacturing
 Tufner Weighing Systems
 Valley Forge Equipment, Inc.

Metal Processing**BALERS (VERTICAL & HORIZONTAL)**

AI-Jon by C&C Mfg
 Acadia Scrap & Salvage, Inc.
 Crushed N2
 Dade Scrap Iron & Metal, Inc.
 DJS Enterprises, LLC
 Ely Enterprises Inc.
 Harris
 Himes Service Company
 Imabe
 International Baler
 Iron Ax
 JM Hydraulics, Inc.
 Maren Balers & Shredders
 Metso
 OBC Industrial
 Rise Equipment
 Sierra International Machinery, LLC
 SP Industries Inc.
 Valley Forge Equipment, Inc.
 Vortex De-Pollution & Recycling Equipment

METAL SORTING SYSTEMS

Action Equipment Company Inc.
 BCA Industries
 Best Process Solutions, Inc.
 B-TEK Scales, LLC
 Bunting
 Dade Scrap Iron & Metal, Inc.
 DJS Enterprises, LLC
 Eriez
 Flipscreen
 Himes Service Company
 Imabe of America
 Joest Inc.
 Moley Magnetics Inc.
 MPI Magnetic Products, Inc.
 MSS, Inc.
 OBC Industrial
 REDWAVE Solutions US LLC
 Rise Equipment
 S3 Software Solutions
 SICON America
 Sparta Manufacturing
 SSP Technologies, Inc.
 Steinert US
 swissRTec America, Inc.

Valley Forge Equipment, Inc.

SERVICES & YARDS

B-TEK Scales, LLC
 Dade Scrap Iron & Metal, Inc.
 DJS Enterprises, LLC
 Eriez
 Mallin Companies, Inc.

SHEARS (ALLIGATOR & GUILLOTINE)

AI-Jon by C&C Mfg
 Acadia Scrap & Salvage, Inc.
 American Cutting Edge
 DJS Enterprises, LLC
 Equipment International
 Himes Service Company
 Imabe of America
 Indeco North America
 Iron Ax
 Kinshofer
 Metso
 Moley Magnetics Inc.
 OBC Industrial
 Rise Equipment
 Sierra International Machinery, LLC
 Valley Forge Equipment, Inc.
 Vortex De-Pollution & Recycling Equipment

SWEAT FURNACES

Recycling Services Intl, LLC.
 DJS Enterprises, LLC

WEAR PARTS

American Cutting Edge
 DJS Enterprises, LLC
 Himes Service Company
 Holmatro
 OBC Industrial
 Rise Equipment
 SICON America

OTHER METAL PROCESSING

AI-Jon by C&C Mfg
 American Cutting Edge
 Aquajet Systems AB
 BCA Industries
 B-TEK Scales, LLC
 CM Shredders
 CPM Di Piu Systems
 Crow Environmental
 Dade Scrap Iron & Metal, Inc.
 DJS Enterprises, LLC
 Exporecy
 E-Z Crusher/ R.M. Johnson Company
 Flipscreen
 Granutech-Saturn
 Imabe of America
 Kinshofer
 KPI-JCI and Astec Mobile Screens
 Mallin Companies, Inc.
 Metso
 MPI Magnetic Products, Inc.
 OBC Industrial
 Philippi-Hagenbuch
 Prab Inc.
 Recycling Services Intl, LLC.
 SAS Forks
 SP Industries Inc.
 Supershear, Inc.
 swissRTec America, Inc.
 Tufner Weighing Systems
 Valley Forge Equipment, Inc.
 WEIMA America, Inc.

Miscellaneous**COMPUTER SOFTWARE**

Acadia Scrap & Salvage, Inc.
 Aero Industries
 DJS Enterprises, LLC
 Hollander
 Scrapright Software

DECALS & PROMOTIONAL PRODUCTS

Pro-Tainer, Inc.

DUST CONTROL

Buffalo Turbine
 Ely Enterprises Inc.
 Philippi-Hagenbuch
 Recycling Services Intl, LLC.
 SICON America
 WEIMA America, Inc.

SAFETY PRODUCTS

Best Process Solutions, Inc.
 Buffalo Turbine
 Crow Environmental
 Industrial Netting
 Industrial Netting
 Mallin Companies, Inc.
 Recycling Services Intl, LLC.
 Specialty Personal Products

OTHER MISCELLANEOUS

Aero Industries
 B-TEK Scales, LLC
 ClearSpan Fabric Structures
 Equipment International
 Industrial Netting
 JM Hydraulics, Inc.
 Mallin Companies, Inc.

Philippi-Hagenbuch
Recycling Services Intl, LLC.
RRS (Resource Recycling Systems Inc.)
Sterner Consulting
Supershear, Inc.
Talbert Manufacturing
Tufner Weighing Systems
VGF Leasing and Finance

Organics & Composting

CHIPPERS

American Cutting Edge
Bandit Industries, Inc.
BCA Industries
Morbarck Inc.
Vecoplan, LLC
Vermeer Corporation

SHREDDERS, GRINDERS, & HOGS

BCA Industries
Hogzilla
Indeco North America
Kompech Americas
Morbarck Inc.
OBC Industrial
Shred-Tech
Sparta Manufacturing
Vecoplan, LLC
Vermeer Corporation
West Salem Machinery Co

TUB GRINDERS

Bandit Industries, Inc.
CM Shredders
Morbarck Inc.

OTHER ORGANIC PROCESSING

Action Equipment Company Inc.
Aquajet Systems AB
BCA Industries
CPM Di Piu Systems
Imabe of America
Philippi-Hagenbuch
RRS (Resource Recycling Systems Inc.)
Steinert US
Talbert Manufacturing
Tufner Weighing Systems
Vermeer Corporation
West Salem Machinery Co

Paper Processing

BALERS

CPM Di Piu Systems
Ely Enterprises Inc.
Harris
Himes Service Company
Imabe of America
International Baler
JM Hydraulics, Inc.
Maren Balers & Shredders
OBC Industrial
Pro-Tainer, Inc.
Rise Equipment
Sierra International Machinery, LLC
Valley Forge Equipment, Inc.

BALING WIRE SYSTEMS & SUPPLIES

Ely Enterprises Inc.
Himes Service Company
Langston Companies, Inc.
Maren Balers & Shredders
OBC Industrial
Rise Equipment

SORTING LINES

Himes Service Company
Imabe of America
Langston Companies, Inc.
MSS, Inc.
REDWAVE Solutions US LLC
Rise Equipment
Sparta Manufacturing
Steinert US
Valley Forge Equipment, Inc.
Steinert US

OTHER PAPER PROCESSING

Ameri-Shred Corp.
Aquajet Systems AB
BCA Industries
Blackrock Plastics, LLC
CM Shredders
CPM Di Piu Systems
Imabe of America
OBC Industrial
Pro-Tainer, Inc.
Rise Equipment
Talbert Manufacturing
Tufner Weighing Systems
Vecoplan, LLC
WEIMA America, Inc.

Plastic Processing

CLEANING SYSTEMS

Blackrock Plastics, LLC

CPM Di Piu Systems
OBC Industrial

DENSIFIERS

American Cutting Edge
CPM Di Piu Systems
Ely Enterprises Inc.
Harris
Himes Service Company
OBC Industrial
Rise Equipment
Sierra International Machinery, LLC
Warren & Baerg Manufacturing, Inc.

EXTRUDERS & PELLETIZERS

American Cutting Edge
Blackrock Plastics, LLC
CPM Di Piu Systems
OBC Industrial
Warren & Baerg Manufacturing, Inc.

GRANULATORS

American Cutting Edge
BCA Industries
CM Shredders
Granutech-Saturn
Miller Manufacturing
MPI Magnetic Products, Inc.
OBC Industrial
Republic Machine, Inc.
Shred-Tech
Valley Forge Equipment, Inc.
Vecoplan, LLC
WEIMA America, Inc.

MECHANICAL SEPARATION

Ameri-Shred Corp.
Bunting
Eriez
Imabe of America
Joest Inc.
MSS, Inc.
OBC Industrial
Sparta Manufacturing
Valley Forge Equipment, Inc.
Vecoplan, LLC

OTHER PLASTIC PROCESSING

American Cutting Edge
Aquajet Systems AB
BCA Industries
CM Shredders
Granutech-Saturn
Imabe of America
International Baler
JM Hydraulics, Inc.
Langston Companies, Inc.
MPI Magnetic Products, Inc.
OBC Industrial
Philippi-Hagenbuch
Republic Machine, Inc.
Sierra International Machinery, LLC
Steinert US
Talbert Manufacturing
Tufner Weighing Systems
Valley Forge Equipment, Inc.
Vecoplan, LLC
WEIMA America, Inc.

Services

DADE Auctions, Inc.
DADE Capital Corp.
DJS Enterprises, LLC
VGF Leasing and Finance
VZN Group, LLC.

Tire & Rubber Recycling

BALERS

AutoDrain
Bailey's Auto Crushing & Recycling
Crushed N2
Ely Enterprises Inc.
E-Z Crusher/ R.M. Johnson Company
Himes Service Company
International Baler
Langston Companies, Inc.
Maren Balers & Shredders
OBC Industrial
Rise Equipment
Sierra International Machinery, LLC
Valley Forge Equipment, Inc.
Vortex De-Pollution & Recycling Equipment

GRANULATORS

American Cutting Edge
CM Shredders
Crushed N2
Eidan Inc.
Granutech-Saturn
Kompech Americas
OBC Industrial
Shred-Tech
Valley Forge Equipment, Inc.
Vortex De-Pollution & Recycling Equipment

SHREDDERS

Ameri-Shred Corp.

American Cutting Edge

AutoDrain
Bailey's Auto Crushing & Recycling
Bandit Industries, Inc.
CM Shredders
Ely Enterprises Inc.
Granutech-Saturn
Morbarck Inc.
OBC Industrial
Republic Machine, Inc.
Rise Equipment
Shred-Tech
SSP Technologies, Inc.
Vecoplan, LLC
Vortex De-Pollution & Recycling Equipment

OTHER TIRE & RUBBER RECYCLING

AutoDrain
Bailey's Auto Crushing & Recycling
BCA Industries
CM Shredders
Eidan Inc.
Eriez
E-Z Crusher/ R.M. Johnson Company
Granutech-Saturn
Langston Companies, Inc.
OBC Industrial
S3 Software Solutions
Talbert Manufacturing
Tufner Weighing Systems

Trucking Equipment & Transportation

CRUSHED CAR HAULERS

Brothers Equipment
Demco
Industrial Netting

LIVE FLOOR TRAILERS

B-TEK Scales, LLC
Brothers Equipment
Demco
Hallco Industries Inc.
KNL Holdings-Steco Trailers

TRUCKS

B-TEK Scales, LLC
Brothers Equipment
Demco
Mallin Companies, Inc.

OTHER TRUCKING EQUIPMENT

Aero Industries
B-TEK Scales, LLC
Brothers Equipment
Demco
Industrial Netting
Smartlift USA
Tufner Weighing Systems

Waste & Recycling Collection

COLLECTION BINS

Call2Recycle, Inc.
Holmatro
Mallin Companies, Inc.
Max-R
Meese
Prab Inc.
Smartlift USA
SP Industries Inc.

MULTI-FAMILY EQUIPMENT SYSTEMS

SP Industries Inc.

ROLL-OFF TRAILERS & HOOK-LIFT SYSTEMS

B-TEK Scales, LLC
Brothers Equipment
Holmatro
Smartlift USA

TRAILERS

B-TEK Scales, LLC
Brothers Equipment
Demco
Hallco Industries Inc.
Holmatro
KNL Holdings-Steco Trailers
Mallin Companies, Inc.
Pro-Tainer, Inc

TRUCKS

B-TEK Scales, LLC
Brothers Equipment
Holmatro
Mallin Companies, Inc.
Shred-Tech

OTHER WASTE & RECYCLING COLLECTION

Call2Recycle, Inc.
Demco
Flipscreen
KPI-JCI and Astec Mobile Screens
RRS (Resource Recycling Systems Inc.)
Shred-Tech
Sierra International Machinery, LLC
Tufner Weighing Systems

Used Equipment

Bailey's Auto Crushing & Recycling
Crushed N2
DADE Auctions, Inc.
DADE Capital Corp.
DJS Enterprises, LLC
Ely Enterprises Inc.
Equipment International
Green Machine Sales LLC
Harmony Enterprises, Inc.
Himes Service Company
Recycling Services Intl, LLC.
ShredSupply, Inc.
Shred-Tech
SSP Technologies, Inc.
Valley Forge Equipment, Inc.

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www.AmericanRecycler.com

The image shows a screenshot of the American Recycler website. At the top, there are navigation links: "Visit Our Website", "Subscribe Online", and "Advertise in ARN!". Below this is the American Recycler logo and the tagline "NewsVoice of Salvage, Waste and Recycling". A prominent advertisement for "E-NewsVoice" is displayed, featuring a tablet showing a software interface and the text "FULLY COMPLIANT SCRAP BUYING SOFTWARE - \$149.99/MONTH". Below the ad is a "Season's Greetings" message from AR. The bottom section of the screenshot shows "Latest News" with three headlines: "Waste and recycling industry sees uptick in fatalities", "E-waste handler busted for recycling fraud", and "California metal recyclers file suit for injunctive relief to prevent imposition of unnecessary and harmful regulation".

Directory

3TEK

201 E Shady Grove Rd.
Grand Prairie, TX 75050
888-755-3383
www.3tek.com
bill@3tek.com

A BETTER DEAL AUTO & TRUCK RECYCLING

PO Box 31118
Portland, OR 97231
503-285-1808
Patrea.kordosky@yahoo.com

ACADIA SCRAP & SALVAGE, INC.

206 Standard Mill Rd.
Crowley, LA 70526
337-783-4621
larrythomas@kw.com



VIBRATORY EQUIPMENT

ACTION EQUIPMENT CO. INC.

PO Box 3100
Newberg, OR 97132
503-537-1111
www.actionconveyors.com
sales@actionconveyors.com

Action Equipment Company, Inc. manufactures heavy duty vibratory screening and processing equipment for the efficient handling of bulk materials. Action's successful installations can be found worldwide in foundry, aggregates, wood products, incinerator plants, and recycling industries (C&D debris, commercial waste, wood wastes, MSW, scrap tires, scrap steel, etc).

ADVANCE TIRE

1000 Rike Dr.
Millstone Township, NJ 08535
800-445-6647
www.advancetires.com
jerrys@advancetires.com



AERO INDUSTRIES

4243 W. Bradbury Ave.
Indianapolis, IN 46241
800-535-9545
www.aeroindustries.com
jboyd@aeroindustries.com

Founded in 1944, Aero Industries is one of the nation's leading providers of innovative tarp systems and accessories for the transportation industry. Headquartered in Indianapolis, Indiana, we serve our customers through satellite locations in Omaha, Nebraska; Kent, Ohio, and a nationwide network of dealers.

AL-JON BY C&C MFG

15075 Al-jon Ave.
Ottumwa, IA 52501
641-682-4506
www.candcmfg.net
curt.spry@candcmfg.net

ALLEGHENY MOUNTAIN RECYCLING

5763 Route 28 North
Brookville, PA 15825
814-389-3000
danfkutsch@gmail.com

AMERICAN BALER

PO Box 29
Bellevue, OH 44811
800-843-7512
www.americanbaler.com
sales@americanbaler.com



AMERICAN CUTTING EDGE, A DIVISION OF C.B. MANUFACTURING

4475 Infirmary Rd.
Miamisburg, OH 45342
800-798-6657
www.americancuttingedge.com
lharville@americancuttingedge.com

American Cutting Edge makes blades that help customers reduce downtime and improve profitability via extra wear and fewer blade changes. We consult with customers regarding which coatings and raw materials provide the best precision cut and longer blade life for your plastic, tire, and metal recycling operation. Visit www.americancuttingedge.com.

AMERI-SHRED CORP.

3490 US 23 N
Alpena, MI 49707
800-634-8981
www.ameri-shred.com
info@ameri-shred.com

AMWINS PROGRAM UNDERWRITERS INC.

214 Senate Ave Ste 201
Camp Hill, PA 17011
717-214-7603
www.amwins.com/
keith.george@amwins.com



ANDELA PRODUCTS

493 State Route 28
Richfield Springs, NY 13439
315-858-0055
www.andelaproducts.com
candela@andelaproducts.com

Andela Products is an industry leader in the designing and manufacturing of glass recycling equipment. Our recycling equipment turns glass into aggregates and sand. Glass crushers, pulverizers, trommel screens, hoppers, surge hoppers, windshield strippers, and complete systems provided. We bring the best technology available to solve their glass recycling needs.

AQUAJET SYSTEMS AB

1144 Village Way
Monroe, WA 98272
800-621-7856
aquajet@aquajet.se
keith.armshaw@brokkinc.com

ASV HOLDINGS, INC.

840 Lily Ln.
Grand Rapids, MN 55744
800-205-9913
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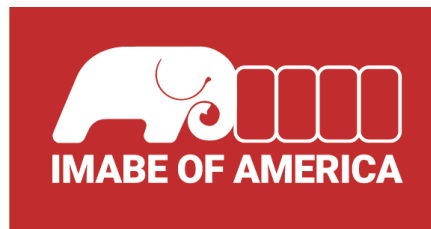
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