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Food waste composting on a larger scale

by MAURA KELLER

mkeller@americanrecycler.com

While residential composting programs are being incorporated in many towns and cities across the U.S., more and more companies, schools and other large institutions are evaluating food waste composting throughout their facilities – with some jumping on board, while others are still evaluating the benefits.

Take the University of Richmond, for example. The University of Richmond had a composting program at its dining locations for years, but it was behind the scenes. COVID-19 accelerated the move to post-consumer compost collection because of the increase in single-use and disposable food service items.

“We jumped right in and went from no post-consumer compost collection in October 2020 to post-consumer compost collection at the outdoor seating area of our dining hall in November 2020, to post-consumer composting at all of our dining locations in February 2021,” said David Donaldson, Rethink Waste manager, University Facilities, University of Richmond.

In October 2021, Rethink Waste at the University moved from being a committee focused on waste diversion, with a heavy focus on composting, to an established entity within University Facilities and Custodial and Environmental Services, responsible for all aspects of waste management on campus. This change has allowed the school to merge the operational side of waste management to the educational and programmatic side of waste management on campus. And the University’s composting program also comes with a good deal of peer engagement. They have a student staff of 19 who are regularly out on campus at dining locations keeping up with unit managers.

“In the spring of 2022, our dining hall instituted a process in their dish room that resulted in them having the ability to capture all food scraps, napkins, compostable plates, etc. as compost. Anything else, waste brought in, ice cream wrappers, etc. is minimal and is pulled out and placed in a landfill collection bin,” Donaldson said.

In September 2022, the University kicked off a pilot residential composting program. They gave the opportunity to participate to students living in on-campus apartment housing. Capping the pilot at 40 apartments, the University gave each of them a countertop compost bin and placed the larger collection bins at dumpster enclosures.

“The participating students were responsible for getting their organic waste from their apartments to the col-



The University of Richmond gave students living in campus apartment housing the opportunity to participate in a composting pilot program. Capping the pilot at 40 apartments, the University gave each tenant a countertop compost bin and placed the larger collection bins at dumpster enclosures.

PHOTO BY KATIE NESLING | DREAMSTIME

lection bins outside of the buildings,” Donaldson said. “This program has been so successful that we are planning to ask to either continue the program into the next semester or to double the number of participating residents.”

Organic waste isn’t meant to break down in an anaerobic environment and will emit much more methane and other GHGs while decomposing in a landfill. For the University of Richmond, composting has a huge educational benefit.

“Not only are we exposing our students to the fact that waste doesn’t have to go to the landfill but we’re also showing them potential future employment opportunities, demonstrating a healthier way of living for the planet and for themselves, and we’re giving them skills and information that they can take with them when they travel the world or just go back home in the summer,” Donaldson said. “Further, the University has a goal of diverting 75 percent of waste generated on campus from the landfill by 2025. Composting will have to be a large portion of our diversion effort for us to hit our ambitious mark.”

An Uphill Battle

According to Stacy Savage, founder & chief executive officer of Zero Waste Strategies LLC, food waste makes up about 30 to 40 percent of the entire materials stream in the U.S. Many municipal governments are offering

curbside composting services to residents, but it’s the enormous volume of food waste from businesses that contributes most to that total percentage.

From Savage’s experience, many food-permitted businesses have not considered diverting food waste from landfills as part of their materials management system. They see composting as an additional expense, but don’t factor in the cost savings from the reduction of materials to the landfill dumpster. This efficiency upgrade can result in a contract renegotiation with the trash hauler for smaller dumpsters and less frequent weekly collections, which can offset the costs of new compost collection services and employee education needs.

Savage pointed to theme parks and sports stadiums getting a lot of press regarding large events being produced with materials diversion as a central focus.

“Business composting programs are more effective at sites that have a state-issued food permit and back-of-house (BOH) food prepping stations, such as employee cafeterias, campus catering services, hospitals, and entertainment venues, among others,” Savage said. “The BOH employees who are licensed to properly handle food are also easily trainable to properly handle food waste

See COMPOSTING, Page A4

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EPA grants \$100 million to support recycling

The U.S. Environmental Protection Agency (EPA) announced the availability of \$100 million in grants for recycling infrastructure, recycling education and outreach projects across the country. EPA has published two requests for applications (RFAs) for new recycling infrastructure grants and education and outreach grants totaling \$70 million. They also announced a new grant program for states and territories totaling \$30 million.

The new grant programs support improvements to local waste management systems and recycling education and outreach, meeting Congress' goal to create a stronger, more resilient and cost effective U.S. municipal solid waste recycling system.

"Too many communities are burdened by pollution and the negative environmental and health impacts that result from poorly managed waste," said EPA Administrator Michael S. Regan. These grants are funded by President Biden's Bipartisan Infrastructure Law, which invested \$375 million in funding for new recycling, reuse and waste prevention programs, the largest investment in recycling infrastructure to EPA in 30 years.

The Solid Waste Infrastructure for Recycling Grant Program

The Solid Waste Infrastructure for Recycling Grant Program for which EPA is seeking applicants includes:

- \$30 million in funding available for states, territories and the District of Columbia to improve solid waste management planning, data collection and program implementation; and

- \$40 million in funding available for counties, cities, towns, parishes and similar units of government to fund projects that improve post-consumer materials management and infrastructure, including collection, transport, systems and processes related to post-use materials that can be recovered, reused, recycled, repaired, refurbished or composted.

The Recycling Education and Outreach Grant Program

The Recycling Education and Outreach Grant Program for which EPA is now seeking applications includes:

- \$30 million in funding for projects to improve consumer education and outreach on waste prevention, reuse, recycling and composting. These education and outreach grants aim to reduce waste generation, decrease contamination and increase recycling rates across the country in a manner that is equitable for all.

EPA encourages eligible entities to obtain SAM.gov and Grants.gov identification numbers, which can take a month.

For a direct link to the grant application site, view this article on www.AmericanRecycler.com.

Owens Corning officially launches asphalt shingle recycling pilot project

Owens Corning held a ribbon cutting ceremony to celebrate the activation of a shingle recycling pilot established in partnership with ASR Systems, CRS Reprocessing Services and Indiana Shingle Recycling. The ceremony marked the completion of pilot equipment construction and official launch of the company's work to reclaim asphalt shingle components and repurpose those raw materials into new shingles.

The event was held at the pilot site on the grounds of Indiana Shingle Recycling in Indianapolis.

"Owens Corning is focused on sustainability and making the world a better place. We want to help distributors and contractors advance sustainability through high-performing, recycled shingles that protect homeowners' most valuable asset," said Gunner Smith, roofing president. While acknowledging ongoing efforts in research and development that inform this recycling work, Smith credited the role played by Owens Corning teams and pilot partners in advancing this effort from lab scale to pilot scale. "As we start this next phase, we recognize those within Owens Corning and our collaborators who are sharing their knowledge, experience and expertise in the pilot operation," he said.

Owens Corning's Circular Economy Aspiration

In early November, Owens Corning announced advancements toward its circular economy aspiration through enhanced shingle recycling efforts. The company intends to recycle two million tons of shingles per year in the U.S. by 2030.

Focused workstreams for shingle recycling include the pilot effort to recycle shingles into new shingles and recycling shingles into asphalt pavement. The pilot effort to recycle shingles into new shingles utilizes proprietary, patented processes at the



A ribbon cutting ceremony was held to commemorate the pilot facility to deconstruct post-consumer and post-industrial shingles to extract and reuse individual component raw materials in the construction of new shingles. By 2030, Owens Corning aims to recycle two million tons of shingles annually in the U.S. From left: Steve Ragan, Dan Horton, Gunner Smith, Liesel Ray, Mark Leo.

pilot site to effectively deconstruct post-consumer and post-industrial shingles and extract raw materials for reuse. Following extraction, the materials will be transported to Owens Corning manufacturing facilities for testing in the production of new shingles made with recycled content.

To recycle shingles into asphalt pavement, the company is leveraging its expertise in asphalt innovation. By working closely with paving contractors, Owens Corning scientists have

provided technical guidance for incorporating recycled shingles in an asphalt mix design that meets federal and state paving performance requirements.

The company has diverted 40 million pounds of used shingles from the landfill into pavement since 2020 and is focused on proactively expanding this offering to additional markets to increase the volume of shingles diverted from landfills.



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Composting

■Continued from Page 1

if a composting program is accessible to them.”

Where Savage typically sees businesses getting into trouble is when they offer front-of-house (FOH) food waste composting systems to office employees, especially if they're not properly trained on how to use the food waste bin correctly or they bring in foods from outside restaurants that provide packaging and utensils that are not compostable.

“Cross-contamination can be extremely expensive. As an example, one of my business clients had a BOH and FOH composting program. The BOH food waste stream was very clean with only fruit and vegetable peels, meat and dairy scraps, and liquids,” Savage said. “The FOH food waste stream was littered with plastic wraps from sandwiches, single-use plastics, like cutlery, cups, and straws, and to-go condiment packages and sauce cups with lids, etc. The food waste hauler charged my client a minimum of \$2,700 per month (\$32,400/year) for these issues as their workers had to sort through and pick out the contaminants so its compost soil could be processed as a clean product to sell to its clients.”

To offset these types of issues, Savage recommends materials management companies that handle recycling and composting operations offer to provide training for their clients' employees. This can be done via scheduled in-person meetings, educational resources and handouts, or a video training portal.

They can also ensure their clients' interior and exterior bins are properly color-coded and positioned for convenient accessibility, have consistent/better signage with a dual language format (usually English/Spanish), and graphics showing what is and is not allowed in each bin.

“They should be ready to renegotiate contracts with established clients who want to reduce waste to landfill by incorporating new systems for food waste diversion through composting.



PHOTO BY KHENG HO TOH | DREAMSTIME

Landfill trash hauling contracts will need ‘right-sizing’ when these new services are engaged,” Savage said. “And they should become sales affiliates of other companies that offer compostable bin liners and food wares, such as biodegradable food and beverage containers and cutlery. This will assure their business clients that these wares purchased from them are compatible with their own composting process and can lessen contamination fees.”

Looking Ahead

Recycling organics doesn't need to be hard, but it does come with its challenges. As Vinnie Bevivino, senior director of organics at Bioenergy Devco explained, it's often easier to just throw everything away, as it takes more time and effort to separate organics from the remainder of the waste stream. However, to address this challenge Bioenergy Devco has adopted depackaging technology to separate plastics and other packaging from food waste at our composting sites.

“We have a tolerance for a certain amount of packaging, and mechanically remove that prior to the food waste being recycled. Large entities bringing waste to us for composting don't have to be as meticulous with separation,” Bevivino said. “The other challenge is simply finding an organic recycling facility that has capacity. We're seeing more and more composting and anaerobic digestion facilities being planned and built.”

Bevivino further pointed out that the industry is moving away from the “build it and they will come” mentality that's driven most of the organics recycling facility development to date and moving to facilities being developed

based on long-term partnerships between organic waste generators and recyclers.

“This gives the recycler steady and predictable waste processing to finance and operate their facilities, and waste generators then have dedicated recycling capacity and long term waste disposal prices,” Bevivino said.

Challenges aside, Savage said the good news is that waste reduction is the lowest hanging fruit of any operational efficiency for the strongest opportunity for cost savings. Workers and consumers now expect that businesses offer higher standards of sustainability. Internal recycling and composting are two key solutions that can be instituted.

For example, Zero Waste Strategies serviced a Catholic convent in Houston through a waste audit. The residents were angered that the administrative offices of the diocese chose to serve all convent meals with single-use plastics and foam trays. They stated that this activity was shortsighted and prevented them from fulfilling their sacred vows to protect the planet.

“The Sisters worked with us to determine the percentages of food waste, recyclable items, and single-use components that could have been diverted, had the appropriate programs been in place, or simply avoided altogether,” Savage said. “The findings were so shocking that they were presented to the Archbishop for distribution to educate other dioceses across Texas.”

Donaldson thinks that as time goes on post-consumer compost collection will just become part of how we do things. “The more ubiquitous compostable items become, and the closer we get to creating an environment where there is no question about which bin to toss your cup in, the better and easier our program, or any post-consumer composting program, will be,” he said. “The easier we make compost collection and disposal, the more successful these programs will be.”

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NextCycle Michigan lines up teams to participate in recycling challenge programs

The Michigan Department of Environment, Great Lakes, and Energy (EGLE) has selected 16 teams from around the state to participate in two upcoming NextCycle Michigan Innovation Challenge program tracks: Foods, Liquids, and Organic Waste Systems (FLOWS), focused on organics recovery; and Recycling Innovation and Technology (RIT), focused on novel recycling technologies.

NextCycle is an EGLE initiative that provides tools, resources, expert consulting, and investment pathways to support growing businesses and organizations focused on material recovery, reuse, recycling and manufacturing using recycled content to advance Michigan's circular economy. Projects can create Michigan jobs, have positive environmental and climate impacts, and provide equitable opportunities for individuals and communities from all corners of the state. NextCycle is designed to connect entrepreneurs, companies, organizations, and communities to technical support, financial resources and capacity building for recycling, recovery and reuse initiatives.

NextCycle's Innovation Challenge helps teams develop investment-ready initiatives that support a resilient economy and equitable solutions in communities. The teams selected to move forward are primed for success to implement solutions in Michigan aligning with a 2021 gap analysis.

"NextCycle Michigan continues to identify innovative initiatives that will advance Michigan's circular economy and provide teams with the tools needed to succeed," said Matt Flechter, EGLE recycling market development specialist. "As we invest in teams, we are also creating more economic opportunity for Michiganders while positioning Michigan as a leader in climate action."

The 16 teams were chosen from among 36 applicants based on potential to address the waste material stream gap analysis, advance equity, and leverage collaboration and partnerships. During the next eight months, NextCycle will provide mentorship, subject matter expertise, partner networking, business plan and pitch development, funding preparation and more. In spring 2023, teams will showcase their accomplishments and deliver a pitch to state stakeholders, NextCycle Partners, and investors.

FLOWS track

The FLOWS track challenges teams to transform any aspect of organics recovery. Half of the cohort is in the startup phase, and 50 percent identify as owned by women or minorities. Selected teams are:

- City of Ferndale, developing an in-vessel composting system to process organic waste generated through its new residential and commercial food waste collection program.

- Metro Food Rescue, Oakland County, a food rescue nonprofit seeking to expand operations in Detroit.

- My Green Michigan, Dimondale, an organic company expanding by adding customers and material intake.

- Organicycle, Grand Rapids, an organics curbside collection program looking to increase customer growth to positively impact organics recovery markets in its home community.

- Partridge Creek Farm, Ishpeming, an organic waste hauling service seeking to create an aerobic digester to increase production and capacity.

- Plastus, Concord, a biotech startup that converts organic waste into 100 percent biodegradable bioplastics.

- ZE Place, Hancock, a testing facility using anaerobic digestion to produce biomethane and fertilizer while recovering waste food.

- Scrap Soils, Detroit, an organics collection and compost program that uses wood chips to create compost that can be used as a fertilizer and carbon sequestration method.

RIT track

The RIT track challenges teams to create innovations and technology. Half of the cohort is in the startup phase, with 75 percent of applicants coming from a qualified HUBZone federally supported small business growth area. The selected teams are:

- Nion Metals, LLC, Houghton, ready to scale the process of supplying

critical metal materials into U.S. electric vehicle market from synergizing lithium-ion battery recycling and mineral waste products.

- Post Rock-University of Michigan Taubman College, Ann Arbor, engineering a new building facade product from upcycled post-industrial plastic waste.

- SCOPS Coating Technologies, East Lansing, developing heat-sealable coating technology for paper to replace single-use plastic packaging.

- American Classic Dumpster Services, Bailey, evaluating the feasibility of a materials recovery facility to process construction and demolition materials in rural Michigan.

- Duro-Last Roofing, Saginaw, establishing infrastructure to increase recycling and diversion of PVC construction materials to increase the circularity of the product.

- Harvest Nano, Ann Arbor, seeking to scale the recovery and conversion of biomass waste into valuable nanocellulose products.

- Michigan Energy Options, East Lansing, creating a model to divert solar energy components by refurbishing and reusing panels and recycling end-of-life components.

- Goodwill Association of Michigan, Muskegon, designing textile recycling technologies and hub system to build a stronger, local circular economy.

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EQUIPMENT SPOTLIGHT

Containers

by MARY M. THORNTON

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Organic refuse can include food and food-soiled paper, non-hazardous wood and green waste, and landscape and pruning waste. Containers are used to help move these materials to landfills and other settings. Materials may also be recycled for use as a valuable agricultural fertilizer with high water retention that also reduces soil erosion and improves soil nutrients and crop yields. This wide ranging array of handling applications involves the same in containment options. The following product types provide some examples.

Steel containers manufactured by Custom Container Solutions (CCS) are used by those in environmental and municipal waste settings, as well as the recycling and scrap, construction and demolition industries. CCS products include small front load cans to 10, 20, 30 and 40 yard roll offs. Maci Bower, marketing/communications specialist commented, "In the long tradition of Pennsylvania manufacturing, CCS is committed to providing the highest quality products and service to our customers as they work to enhance our environment. Our team of skilled welders and technicians take great pride in producing the most durable and user-friendly containers in the industry. We sell to everyone who needs a dumpster but our top sellers are the rectangular roll off, front load, rear load, and tub-style roll off."

"CCS provides containers that keep our country clean, green, safe and growing. Our products make it possible for thousands of companies and their employees to safely dispose of residential and commercial waste and recycling material of all types.



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Our containers can also help ensure proper handling of hazardous materials from spills or industrial processes and aid contractors as they transform the landscape. Our motto is 'Built to Move...Built to Last'."

FleetGenius is a container and compactor solutions company for the environmental services industry. A manufacturer of metal waste containers and compactors in North Carolina since 1981, FleetGenius offers specialty organic food waste containers for composting industries.

Jackie Sanders, inside sales representative noted, "Organic materials present a unique set of containment challenges. The unique and durable design of our specialty organic containers can meet those challenges. As the trend of redirecting food waste from the landfills continues to grow, FleetGenius has developed special collection containers to properly contain the liquid waste generated by



FleetGenius

organics. The containers are watertight and built to withstand bucket lift and front end load truck applications. A special epoxy coating protects the container interior and metal surfaces against highly corrosive organic waste. Custom designed, lock down lids control access and help avoid contamination."

Nova Products designs and manufactures recycling and organic waste collection containers to help make municipal waste diversion programs more efficient, cost effective, and successful. The Nova team recommends a few key components to ensure any organics collection program is successful and industry compliant. This includes education via clear messaging with custom branding (hot-stamp-



Nova Products

ing) on the containers, containers that are easy to clean, and most of all, performs well despite the rigors of manual collection and outdoor conditions. Also, "we recommend providing options to our clients. Recycling and organic collection programs vary from city to city, and residents have unique needs, in terms of which container suits them best. Throughout the container design and production stages, we prioritize product durability and sustainability, and consider the diverse needs of the end-user," explained Kayla Kleber, sales manager.

Nova Products has developed three sizes of containers designed for household organics collection. For outdoor collection, Nova's wheeled 13 gallon curbside organics bin comes equipped with an animal lock to prevent pest access. "Containers are made from 100 percent high density polyethylene, are BPA-free and easy to clean. The taller handle design makes the bin easy to use. Organic collection and diversion have been common practice at Nova Products for many years, and our team is ecstatic to see more and more municipalities embracing food waste collection programs," Kleber stated. "With increased legislation and policies surrounding food scraps and organic material landfill diversion, Nova Products manufacturing has expanded to meet demands. We have invested in additional tooling to support increased customer orders. It remains our top priority to supply our customers with durable and dependable products and to exceed customer expectations by providing prompt lead times on all orders." said company president, Jake Bolton.

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METALS

Steel imports up 7.2 percent in October

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 2,403,000 net tons (NT) of steel in October 2022, including 1,955,000 net tons of finished steel (up 7.2 percent and 5.1 percent, respectively, vs. September 2022).

Total and finished steel imports are up 3.7 percent and 19.1 percent, respectively, year-to-date vs. 2021. Over the 12 month period November 2021 to October 2022, total and finished steel imports are up 13.5 percent and 26.8 percent, respectively, vs. the prior 12 month period. Finished steel import market share was an estimated 23 percent in October and is estimated at 24 percent over the first ten months of 2022.

Key steel products with a significant import increase in October compared to September are heavy structural shapes (up 94 percent), cut length plates (up 21 percent), hot rolled bars (up 20 percent), wire rods (up 20 percent) and ingots, billets and slabs (up 18 percent).

Products with a significant increase in imports over the 12 month period November 2021 to October 2022, compared to the previous 12 month period include oil country goods (up 60 percent), heavy structural shapes (up 56 percent), standard pipe (up 49 percent), line pipe

U.S. IMPORTS OF FINISHED STEEL MILL PRODUCTS						
BY COUNTRY OF ORIGIN (Thousands of Net Tons)						
Preliminary	OCT 2022	SEP 2022	YTD 2022	Prev 12 mths to OCT 2022	Prev 12 mths to OCT 2021	% Change 2022 Prev 12 mths vs. 2021
CANADA	561	539	5,811	6,896	6,756	2.1%
MEXICO	422	316	4,637	5,645	4,245	33.0%
SOUTH KOREA	202	305	2,445	2,909	2,633	10.5%
BRAZIL	202	188	2,374	2,775	4,028	-31.1%
JAPAN	104	79	1,038	1,266	962	31.5%
VIETNAM	56	48	870	1,212	644	88.3%
TURKEY	67	101	928	1,123	887	26.5%
TAIWAN	57	102	914	1,095	791	38.4%
GERMANY	108	77	927	1,084	1,267	-14.4%
RUSSIA	0	0	465	878	1,224	-28.2%
INDIA	47	57	586	695	303	129.9%
CHINA	79	51	571	685	415	65.1%
NETHERLANDS	67	37	485	614	590	4.1%
ALGERIA	10	15	452	546	259	110.2%
ROMANIA	44	1	390	467	301	55.5%
All Others	377	323	3,729	4,517	3,238	39.5%
TOTAL	2,403	2,241	26,621	32,407	28,542	13.5%

(up 49 percent) and wire rods (up 48 percent).

In October, the largest suppliers were Canada (561,000 NT, up 4 percent vs. September), Mexico (422,000 NT, up 34 percent), South Korea (202,000 NT, down 34 percent), Brazil (202,000 NT, up 7 percent) and Germany (108,000 NT, up 40 percent). Over the 12 month period

November 2021 to October 2022, the largest suppliers were Canada (6,896,000 NT, up 2 percent compared to the previous 12 months), Mexico (5,645,000 NT, up 33 percent), South Korea (2,909,000 NT, up 11 percent), Brazil (2,775,000 NT, down 31 percent) and Japan (1,266,000 NT, up 32 percent).

Republic settles with EPA

The Department of Justice and the Environmental Protection Agency (EPA) announced a proposed Clear Air Act settlement with Republic Steel, a steel manufacturer in Canton, Ohio, which will require the company to reduce its facility's lead emissions that have caused airborne lead levels in the surrounding area to exceed the National Ambient Air Quality Standards for Lead. The settlement terms are included in a proposed consent decree filed with the U.S. District Court for the Northern District of Ohio. In addition to securing air pollution reductions, the settlement requires a \$990,000 civil penalty.

The complaint, filed simultaneously with the consent decree, alleges that Republic Steel is operating in violation of its Clean Air Act permit for failing to conduct emissions tests and for exceeding lead emission limits. Under the consent decree, Republic Steel will install and operate new control technologies at its Flexcast Vacuum Tank Degasser and associated cooling tower to reduce lead emissions from the facility. EPA estimates that the new controls will result in the reduction of over 1,000 pounds of lead emissions per year.

The settlement is subject to a public comment period that will end on January 13, 2023, and final court approval.

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MarketWatch

Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
FERROUS						
#1 Bushelings	per gross ton	\$355.00	\$359.00	\$360.00	\$365.00	\$380.00
#1 Bundles	per gross ton	349.00	352.00	357.00	350.00	371.00
Structural	per gross ton	294.00	304.00	320.00	325.00	354.00
#1 & #2 Mixed Steel	per gross ton	280.00	280.00	289.00	309.00	350.00
Crushed Auto Bodies	per gross ton	162.00	164.00	175.00	189.00	199.00
Shredded Auto Scrap	per gross ton	349.00	350.00	357.00	359.00	355.00
NON FERROUS						
#1 Copper Bright	per pound	3.36	3.45	3.45	3.62	3.59
#2 Copper Wire & Tubing	per pound	3.17	3.21	3.26	3.41	3.39
Aluminum Cans	per pound	.69	.68	.71	.69	.70
Al/Cu Radiators	per pound	1.69	1.71	1.72	1.75	1.80
Aluminum Radiators	per pound	.59	.59	.60	.62	.64
Heater Cores	per pound	1.49	1.50	1.49	1.55	1.57
Stainless Steel	per pound	.51	.54	.55	.58	.59

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

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RUBBER

National infrastructure investment creates opportunity to improve tire recycling rates

A new report from the U.S. Tire Manufacturers Association (USTMA) shows opportunities to expand end-use tire markets and improve tire recycling rates to keep pace with annual scrap tire generation.

The 15th 2021 Scrap Tire Management Report found that markets consumed 71 percent of annually generated scrap tires in 2021, down from about 76 percent reported in 2019. This decrease is due primarily to a nearly 13 percent increase in scrap tire generation, while markets to consume them increased by six percent. However, even with this small reduction, scrap tires outperform metal, glass, aluminum, plastic and paper recycling rates. Only automotive batteries and corrugated cardboard have a higher recycling rate.

USTMA has identified three areas of focus required to grow end-use markets:

Seize historic infrastructure opportunities

With the recent passing of the Bipartisan Infrastructure Law (BIL), USTMA is focused on expanding opportunities to grow scrap tire markets that offer sustainable infrastructure solutions. This year, USTMA worked with congressional leaders to identify provisions in the BIL that support scrap tire recycling and the use of scrap tires in rubber modified asphalt (RMA) and tire derived aggregate in civil engineering projects. USTMA also identified six specific policy proposals – ranging from tax incentives to additional research dollars and procurement commitments – that support the implementation of scrap tire infrastructure technologies.

Ensure robust state scrap tire management programs

Scrap tire management is primarily the responsibility of state governments. Therefore, it is important for states to have robust scrap tire management programs that generate revenue streams to fund research that develops and assesses existing and emerging markets and addresses scrap tire abatement. USTMA continues to work closely with states to encourage the adoption of effective elements of state scrap tire programs.

Improved collaboration and increased partnerships

USTMA works with numerous stakeholders to encourage the growth of circular, sustainable scrap tire markets. In 2021, USTMA collaborated with The Ray – a philanthropic organization dedicated to the discovery and implementation of sustainable transportation technologies – and researchers at the University of Missouri-Columbia to produce a State of Knowledge report on RMA. USTMA

expects to release similar research about tire derived aggregate in partnership with the Tire and Rubber Association of Canada (TRAC), Liberty Tire Recycling, First State Tire Recycling and the University of Wisconsin. These studies summarize existing literature to understand what is known about performance, economic and environmental benefits, identify knowledge gaps and offer recommendations for future research and investment. Additionally, USTMA is planning its ninth scrap tire conference in 2024 to further expand collaborative networks and partnerships.

Key scrap tire report findings:

Ground Rubber

The ground rubber market increased by 29 percent since 2019, making it the largest scrap tire market, consuming roughly 28 percent of all scrap tires in the following areas:

- Molded and extruded products: Products like rubber mats and flooring increased by 25 percent and consumed 485 thousand tons.

- Rubber mulch: Increased by 54 percent and consumed 391 thousand tons. Home and facility improvement activities during Covid shutdowns are credited in part for this.

- Rubber modified asphalt: Consumed slightly less than the 2019 report showed with 141 thousand tons of scrap tires. Covid interruptions to construction funding and market development impeded the growth of this promising market.

- Fine ground rubber: A material used in new tires, coating, sealants and exports consumed another 79 thousand tons of scrap tires.

Tire Derived Fuel

Tire Derived Fuel (TDF) is now the second largest market for scrap tires, decreasing 15 percent since 2019. TDF consumed about 28 percent of scrap tires in the following areas:

- Cement kilns: Consumed 682 thousand tons of scrap tires, a reduction of more than 16 percent since 2019. Covid disruptions to construction and the demand for cement account for this.

- Pulp and paper mills: Consumed 524 thousand tons of scrap tires, an increase of 8.8 percent since 2019. Strengthening demand for TDF is attributed to increased energy prices.

- Electric and industrial utility boilers: Consumed 187 thousand tons since 2019 and has decreased nearly 50 percent. This sector continues to decrease as coal-fired plants shut down and emission limits tighten.

- TDF exports: Exports of scrap tires as TDF account for 1.7 percent of generation, decreasing by over a third.

- Electric arc furnaces: Remained flat in the 2021 report at 1 percent.

Others

Markets that showed additional increases in the 2021 report include civil engineering applications, which consumed about 6 percent of scrap tires; a large variety of smaller markets that were combined for this report consumed 6 percent of scrap tires and include agricultural, baled with markets, punched and stamped products, pyrolysis and others; and land reclamation, which consumed about 1 percent of scrap tires.

Stockpiles

States continued to reduce illegal or abandoned stockpiled tires from a U.S. EPA (Environmental Protection Agency) estimate of more than 1 billion in 1990 to less than 50 million nationwide in 2021. This substantial reduction of over 95 percent is the result of decades of progress developing the scrap tire recycling industry and remediating stockpile sites. Texas stockpiles, which account for almost 24 percent of the total stockpile inventory, continue to achieve progress in the reduction of inventory. Approximately 11.5 million scrap tires are spread across the country with four states – Washington, New Mexico, Virginia and New Jersey – exceeding 1 million, and with 44 states under 1 million.

Bridgestone awarded \$35 million grant

Bridgestone Americas has been awarded a \$35 million climate-smart grant by the U.S. Department of Agriculture (USDA) to invest in desert shrub guayule to expand natural rubber production in the U.S. and offer a solution for growers amid the ongoing water crisis in the Southwest with a more environmentally sustainable crop. As part of the USDA Partnerships for Climate-Smart Commodities Initiative, the \$35 million investment in guayule will allow Bridgestone to expand natural rubber production in the Southwestern U.S. with lowered greenhouse gas emissions and create jobs in the region for local U.S. farmers and Native American tribes to build a rubber bioeconomy based on climate-smart and sustainable practices.

The USDA Partnerships for Climate-Smart Commodities was established to expand markets for America's climate-smart commodities, leverage the greenhouse gas benefits of climate-smart commodity production, and provide direct, meaningful benefits to production agriculture, including for small and underserved producers. Bridgestone was awarded the \$35 million grant as part of the first pool of partnerships for Climate-Smart Commodities funding opportunity.

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Know how your world will change when you start running a business

Many successful people start businesses because they have a skill to create something for which there is a market. Unfortunately, they may or may not have the other skills it takes to be an outstanding businessperson.

A great chef produces fantastic food and he may even be outstanding at getting the team to deliver peak performance in the kitchen. However, once he opens a restaurant, he is taking on a completely new set of responsibilities.

As the owner of a small business, the employees are counting on him. They know he can cook; being a great chef is not enough to give the enterprise a good chance of success.

To make the new restaurant, or any other type of enterprise, a success, the fledgling entrepreneur needs to learn how to hire and fire, how to deal with clients, how to do the marketing to attract patrons, how to handle the legal stuff, and how to keep track of the money.

Until you've learned these skills, you are going to be frustrated as a business owner. Your team will be frustrated, and you won't be an effective leader.

Once you open the doors, you do not have the luxury of a lot of time to learn a new skill. It may have taken years to learn to cook, but you won't have years to master these business skills.

You may not have time to go back to school and take a semester long course in marketing, management, human resources or finance, but you can go to a one day seminar. You can read articles on those topics in trade publications for your industry.

If you have mastered the technical part of your business, but are struggling with some of the business skills, I recommend reading *The E-Myth Revised: Why Most Small Business Don't Work and What to Do About It* by Michael Gerber. No time to read? Get the audiobook and listen on the way to work.

Think about the skills that you need to improve. Be truthful with yourself. What skills should you work on now to be a more effective leader? Can you find ways to delegate some of those tasks to people who can do them better with the right direction?

Delegating effectively is the topic of another article in this series.

One of the most effective ways to move ahead quickly is to find a mentor. I mentor some promising entrepreneurs. They're good mentees because they are ambitious, they want to make a lot of money, they are competitive, they have thick skins, and they listen. If you have not yet found your mentor, what should you do in the meantime?

My main recommendation – read. Find a list of the best business books over the last decade, and dedicate yourself to reading one per month. Read or use your commuting time to listen to quality business audiobooks on marketing, leadership, finance, communications and leadership. Follow this self-improvement program and apply its insights, and you will be a more successful businessperson.

Of a hundred of your competitors, how many recognize the need for change? To improve their sales or reduce their expenses? It's easy to say that half might. Therefore, if you recognize the need to change, you've just beat 50 percent, or 50 of your 100 competitors.

Now, of those remaining 50, how many are capable of working through all the issues and understanding what change is needed? Growth in sales? Reduction in expenses? How many can really work through all that and arrive at the right answers? I would say half is optimistic, so only 25 recognize the need for change and can identify what to do about it.

Now, of those left, how many can actually prepare a sound written plan, based in metrics and finance, to address those issues? A bridge plan (discussed in another article in this series or Google it) on delivering the goal? Half? That's a charitable estimate. If you can do these steps, or get help with them, you've just surpassed half of the 25 left. At this point, you're already ahead of 87 of 100 competitors.

Executing the plan is not easy. To do it, you will need to hold people accountable, measure, meet, and modify the plan on the fly. Executing well is hard. Half of those left might be able to do it. So, execute well, and you only have 6 of the original 100 competitors in front of you. Not bad!

Pennsylvania DEP launches initiative to electrify truck fleets

The Pennsylvania Department of Environmental Protection (DEP) launched "Electrifying Truck Fleets for Cleaner Air in Our Communities," a \$12.7 million Driving PA Forward initiative to improve air quality by supporting local freight truck electrification.

Projects serving environmental justice areas, high traffic density areas, and Act 47 financially distressed municipalities are a top priority for funding.

"Our newest Driving PA Forward initiative aims to support transformational scale electrification of local trucks to improve air quality in communities with some of the highest air pollution levels in Pennsylvania," said DEP Acting secretary Ramez Ziadeh. "A growing number of communities are proactively pursuing healthier air quality and greenhouse emission reductions. They're interested in zero-emission electric options for the kinds of trucks that travel their neighborhoods on a regular basis. To help their transition to electric vehicles, DEP will provide at least 75 percent and, in some cases, 100 percent of funding to electrify local freight truck fleets."

In addition, DEP announced \$1.7 million in Driving PA Forward State Clean Diesel Grants to three projects to replace old diesel trucks with zero- or low-emission trucks.

Driving PA Forward is the set of grant and rebate programs the Wolf Administration established in 2018 with Pennsylvania's share of the national settlement with Volkswagen Group of America for cheating on U.S. Environmental Protection Agency (EPA) emissions tests. To date, more than \$70 million in Driving PA Forward funding has been awarded to reduce air pollution by replacing old diesel vehicles with cleaner transportation options and encouraging the adoption of zero-emission vehicles by investing in electric vehicle charging infrastructure statewide.

A total of \$12.7 million is available to local governments, businesses, and nonprofits to replace at least five old diesel trucks with new, all-electric versions. (For smaller fleets, an exception may be made to support three electric trucks.)

Funding will cover local freight trucks, such as garbage, recycling, utility, and delivery trucks, as well as charging infrastructure and installation. Grantees will have two years to scrap their old diesel vehicles and get the new electric truck fleets on the road.

DEP will provide 90 percent of project funding to local municipalities, or 100 percent if a municipality is in

"Recipients are to share future performance data."

Act 47 financially distressed status. DEP will provide 75 percent of project funding to nongovernment applicants.

Projects that are located in or serve communities in Environmental Justice areas and high traffic density areas are a top priority.

Grant recipients will provide data on how they purchased their electric trucks and installed charging and, once the vehicles go into use, operational data on fleet performance.

State Clean Diesel Grants Awarded to Three Electric Truck Projects

In addition, DEP awarded \$1.7 million in Driving PA Forward State Clean Diesel Grants to three projects to replace old diesel trucks with zero- or low-emission trucks.

•SMS Mill Services: \$1,176,367. The steel scrap recycler will replace three older diesel aggregate material handlers with three new all-electric material handlers at its facility in Coatesville, Chester County. The project annually will remove an estimated 1.315 tons of oxides of nitrogen (NOx), 954 pounds of carbon monoxide, 238 pounds of fine particulate matter (PM2.5), 249 tons of carbon dioxide (CO2), and other pollutants from the air in an environmental justice area.

•Metalico Pittsburgh: \$499,202. The scrap metal processor will replace one older diesel material handler and one older diesel material loader with a new, all-electric handler and a new, clean-diesel loader at its facility on Neville Island, which is an environmental justice area. The project annually will remove an estimated 5.25 tons of NOx, 52 tons of carbon monoxide, 596 pounds of PM2.5, 400 tons of CO2, and other pollutants from the air.

•Dietz & Watson: \$83,250. The delicatessen foods company will replace one older diesel transportation refrigeration unit (TRU) with a new, all-electric TRU at its facility on Tacony Street in Philadelphia. TRUs are used to refrigerate perishable goods in on-road trailers and shipping containers. The project annually will remove an estimated 422 pounds of NOx, 146 pounds of carbon monoxide, 34 pounds of PM2.5, 24 tons of CO2, and other pollutants from the air.

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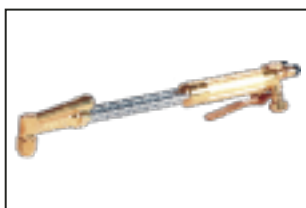
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McCloskey International has unveiled the new J4 jaw crusher, boasting powerful new features for hard rock applications. The J4 delivers high production due to its jaw chamber design and enhanced material flow. The large 42" x 28" jaw opening handles large feed sizes.

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BUSINESS BRIEFS

Terex Corporation promotes Babson Kaplan

■ Terex Corporation promoted Stacey Babson Kaplan to senior vice president, chief sustainability and compliance officer of Terex Corporation. With this expansion of duties, she will add sustainability to her longstanding role heading Ethics & Compliance for the company. She serves on the Terex executive leadership team and the Environmental, Social and Governance Executive Steering Committee, reporting to John L. Garrison, Jr., chairman, president and chief executive officer.

Babson Kaplan joined Terex in 2002 as corporate counsel, human resources compliance. In 2005, she was appointed vice president, deputy general counsel, employment & global diversity. She was named vice president, chief ethics & compliance officer in 2008.

CMC selects West Virginia site for its fourth micro mill

■ Commercial Metals Company has selected Berkeley County, West Virginia, as the site of its fourth micro mill. The project, budgeted to cost approximately \$450 million net of incentives, is expected to have an annual capacity of 500,000 tons and employ approximately 230 people on a full-time basis.

Based on anticipated timelines, the new plant is scheduled to begin operations in late calendar 2025.

Kattar joins WIH Resource Group as senior advisor

■ WIH Resource Group (WRG), a Scottsdale, Arizona-based waste, recycling, and transportation management consulting firm, has announced that Rick Kattar has joined the team of experts as the senior advisor for recycling & material recovery facilities.

Kattar will be providing WRG's public and private sector clients with consulting for MRFs, recycling processing, and recycling facility optimization, and will also serve as a legal expert witness for WRG's attorney clients for contractual disputes, standards of care in recycling facilities and the industry, as well as related legal matters.

Kattar is an industry expert in recycling processing systems (MRFs, secondary processing, and niche processing), acquisition and sale negotiations of equipment systems and components, RFP development, evaluation, selection and contract negotiations with operational vendors to provide safe, efficient and cost-effective solutions for WRG's clients' MRFs and recycling programs.

He is uniquely qualified to meet the needs of private and public clients through his 30+ years of hands-on recycling operations experience throughout the U.S., Canada and the UK. He is also the principal of Swordfish Consulting Services and manages his Swordfish book of business as well.

Plastics association names Glaser as senior director

■ The Plastics Industry Association announced that Matthew Glaser has been named senior director, industry engagement, effective immediately.

In this role, Glaser will serve as director for the association's Processors Council, responsible for managing all of the council's activities, enhancing member benefits while integrating broader association strategy regarding advocacy, communication, engagement, and sustainability into those activities. The Processors Council – one of three councils representing the association's primary constituent groups – is the main point of engagement for plastics industry processors and converters serving industry segments and end markets, this includes flexible and rigid packaging as well as transportation and other durable applications.

Glaser joins the association after working for the American Petroleum Institute, where he served as senior program manager for global business development. Glaser's wide-ranging career also includes executive positions with National Association of Chemical Distributors, as well as education and leadership posts at several other Washington-based associations.

Hear about the new restaurant called Karma? There's no menu: You get what you deserve.



JANUARY 2023

01/24-01/27
COMPOST2023. Ontario Convention Center. Ontario, California.
www.compostconference.com
301-897-2715

FEBRUARY

02/26-02/28
The 36th Southeast Recycling Conference & Tradeshow/SERC. Rosen Centre Hotel. Orlando, Florida.
www.southeastrecycling.com
850-386-6280

MARCH

03/14-03/15
C&D World 2023. Paris Las Vegas. Las Vegas, Nevada.
www.cdrecycling.org
866-758-4721

03/14-03/18
CONEXPO-CON/AGG 2023. Las Vegas Convention Center. Las Vegas, Nevada.
www.conexpoconagg.com
864-658-5740

BRIEFS

Ring Container receives packaging award

■ Ring Container Technologies, a plastic container manufacturer, announced that its BarrierGuard® OxygenSmart™ technology was honored by the U.S. Plastics Pact as part of its Sustainable Packaging Innovation Awards.

Through its Sustainable Packaging Innovation Awards, the U.S. Plastics Pact is showcasing businesses helping to keep plastic packaging in the economy and out of the environment and making progress on their four targets, all culminating in 2025.

ISRI Communications receives MarCom award

■ In recognition of strides to enhance overall member communication and advance member value, ISRI, the Voice of the Recycling Industry™, was named the recipient of eight 2022 MarCom Awards, including the Platinum Award – the organization’s highest honor – for the video *Recycled Materials Making a Difference in Our Lives*. The Platinum Award is presented to those submissions judged to be the most outstanding entries in the competition.

The MarCom Awards, presented by the Association of Marketing and Communication Professionals, are an international creative competition that recognizes outstanding achievement by marketing and communication professionals. Entries come from corporate marketing and communication departments, advertising agencies, public relations firms, design shops, production companies and freelancers.

There were over 6,000 entries in the MarCom Awards 2022 competition. The Gold Award is presented to those entries judged to exceed the high standards of the industry norm. Honorable Mention certificates are granted to those entries that meet the expectations of the judges.

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- Hydraulic landing gear and pushing blade
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AMERICAN RECYCLER BUYER'S GUIDE

SECTION B

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JANUARY 2023

Aluminum & Steel Processing

BALERS & CRUSHERS

Al-Jon by C&C Mfg
 American Baler Company
 Danieli Centro Recycling
 DeHart Recycling Equipment, Inc.
 DJS Enterprises, LLC
 Ely Enterprises Inc.
 E-Z Crusher/R.M. Johnson Company
 Halex Traders, Inc.
 Harmony Enterprises, Inc.
 Harris Equipment
 International Baler Corporation
 Iron Ax
 S3 Software Solutions
 Sebright Products Inc.
 Sierra International Machinery
 Vortex De-Pollution & Recycling Equipment

DENSIFIERS & FLATTENERS

DeHart Recycling Equipment, Inc.
 DJS Enterprises, LLC
 Ely Enterprises Inc.
 E-Z Crusher/R.M. Johnson Company
 Harris Equipment
 International Baler Corporation
 Maren Balers & Shredders
 SICON America LP
 Sierra International Machinery
 SP Industries Inc.
 Vortex De-Pollution & Recycling Equipment

SHREDDERS

Al-Jon by C&C Mfg
 Amos Manufacturing
 BCA Industries
 DADE Auctions, Inc.
 Danieli Centro Recycling
 DeHart Recycling Equipment, Inc.
 DJS Enterprises, LLC
 Ely Enterprises Inc.
 Granutech-Saturn Systems
 Harris Equipment
 SICON America LP
 Vortex De-Pollution & Recycling Equipment

OTHER ALUMINUM & STEEL PROCESSING

American Suppliers Corp
 Andritz ASKO Inc.
 Bateman Manufacturing
 Berkeley Scrap Metal
 Bomac Carts
 Chicago Pneumatic Construction Equipment
 Crow Environmental
 DeHart Recycling Equipment, Inc.
 DJS Enterprises, LLC
 Ely Enterprises Inc.
 E-Z Crusher/R.M. Johnson Company
 Granutech-Saturn Systems
 Halex Traders, Inc.

J.J. Scheckel Corporation
 Philippi-Hagenbuch
 Recycling Services Intl, LLC
 Sierra International Machinery
 Vortex De-Pollution & Recycling Equipment

Auctions

AUCTIONS

DADE Auctions, Inc.
 Halex Traders, Inc.
 Rosen Systems
 Myron Bowling Auctioneers

Automotive Recycling

BALERS & CRUSHERS

Al-Jon by C&C Mfg
 Danieli Centro Recycling
 DJS Enterprises, LLC
 Ely Enterprises Inc.
 Equipment International
 E-Z Crusher/R.M. Johnson Company
 Imabe of America
 Iron Ax
 LEFORT America
 OverBuilt/OVB Holdings LLC
 Recycling Services Intl, LLC
 S3 Software Solutions
 Sebright Products Inc.
 SICON America LP
 Sierra International Machinery
 Vortex De-Pollution & Recycling Equipment

USED FLUIDS PROCESSING

Crow Environmental
 Iron Ax
 Lamb Fuels, Inc.
 S3 Software Solutions
 Vortex De-Pollution & Recycling Equipment

OTHER AUTOMOTIVE RECYCLING

Al-Jon by C&C Mfg
 American Suppliers Corp
 Amos Manufacturing
 Bateman Manufacturing
 Berkeley Scrap Metal
 Blackburn OEM Wheel Solutions
 Bomac Carts
 Bultrite Manufacturing
 Burco Inc.
 Crow Environmental
 DJS Enterprises, LLC
 Equipment International
 E-Z Crusher/R.M. Johnson Company
 Halex Traders, Inc.
 Harris Equipment
 Helluva Container, Inc.
 Imabe of America
 Induction Innovations
 Interstate Batteries Recycling
 Iron Ax

LEFORT America
 S3 Software Solutions
 Supershear, Inc.
 United Catalyst Corporation
 Vortex De-Pollution & Recycling Equipment

Conveyors

BELTS

Andela Products
 BEKON Energy Technologies Inc.
 Bunting
 eFactor3
 Ely Enterprises Inc.
 Excel Manufacturing, Inc.
 Harmony Enterprises, Inc.
 Harris Equipment
 Karl Schmidt Manufacturing, Inc.
 Maren Balers & Shredders
 Precision Husky
 Redwave Solutions US LLC
 Sebright Products Inc.
 Sierra International Machinery
 Warren & Baerg Manufacturing, Inc.

BULK HANDLING EQUIPMENT

Andela Products
 BCA Industries
 Bunting
 Cumberland
 DJS Enterprises, LLC
 Ely Enterprises Inc.
 Hallco Industries, Inc.
 Harmony Enterprises, Inc.
 International Baler Corporation
 Karl Schmidt Manufacturing, Inc.
 Keith Manufacturing Co.
 Maren Balers & Shredders
 Redwave Solutions US LLC
 Sierra International Machinery

PNEUMATIC

Ely Enterprises Inc.
 Harmony Enterprises, Inc.
 Karl Schmidt Manufacturing, Inc.
 Vortex De-Pollution & Recycling Equipment

VIBRATING

Action Vibratory Equipment
 BCA Industries
 Ely Enterprises Inc.
 Engineered Recycling Systems, Llc
 Precision Husky

OTHER CONVEYORS

Action Vibratory Equipment
 American Baler Company
 BCA Industries
 Ely Enterprises Inc.
 Hallco Industries, Inc.
 Imabe of America
 International Baler Corporation
 Karl Schmidt Manufacturing, Inc.
 Keith Manufacturing Co.
 Precision Husky
 Sierra International Machinery
 Warren & Baerg Manufacturing, Inc.

E-Scrap Processing

AUTOMATED SORTATION

Ely Enterprises Inc.
 Redwave Solutions US LLC
 SICON America LP
 Van Dyk Recycling Solutions

CRT EQUIPMENT (GLASS CUTTING & SEPARATION)

Andela Products
 SICON America LP

SHREDDERS

BCA Industries

OTHER E-SCRAP PROCESSING EQUIPMENT

Amos Manufacturing
 BCA Industries
 Berkeley Scrap Metal
 Bomac Carts
 DJS Enterprises, LLC
 Ely Enterprises Inc.
 Granutech-Saturn Systems
 Helluva Container, Inc.
 International Baler Corporation
 Philippi-Hagenbuch
 SICON America LP

Glass Processing

CRUSHERS

Andela Products
 Sebright Products Inc.

PROCESSING PLANTS

Andela Products
 Redwave Solutions US LLC
 Van Dyk Recycling Solutions

PULVERIZERS & GRINDERS

Andela Products
 Granutech-Saturn Systems

OTHER GLASS PROCESSING

ALLU Group, Inc.
 Andela Products
 Bomac Carts
 Induction Innovations
 Philippi-Hagenbuch

Loaders & Forks

AUTO SALVAGE FORKS

Bateman Manufacturing

BUCKET FORKS

J.J. Scheckel Corporation
 Mecalac North America

MINI LOADERS

Mecalac North America

WHEEL LOADERS

Caterpillar
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Bateman Manufacturing
Caterpillar
J.J. Sheckel Corporation
Mecalac North America
Precision Husky
Sierra International Machinery
Trelleborg Wheel Systems Americas, Inc.

Material Handling & Processing**AIR CLASSIFIERS**

Action Vibratory Equipment
Andela Products
BEKON Energy Technologies Inc.
Danieli Centro Recycling
eFactor3
Ely Enterprises Inc.
SICON America LP

AIR KNIVES

Action Vibratory Equipment
D&S Manufacturing
Harris Products Group
SICON America LP

GRAPPLES

Bateman Manufacturing
Builrite Manufacturing
Equipment International
Indeco North America
Iron Ax
Precision Husky
Sierra International Machinery

MAGNETS & MAGNETIC SEPARATORS

Action Vibratory Equipment
Amos Manufacturing
BCA Industries
Bateman Manufacturing
Bunting
Cumberland
Ely Enterprises Inc.
Engineered Recycling Systems, LLC
Equipment International
Iron Ax
Sennebogen LLC
SICON America LP
Van Dyk Recycling Solutions

OPTICAL SORTERS

Danieli Centro Recycling
Redwave Solutions US LLC
SICON America LP
Van Dyk Recycling Solutions

SCREENS

Action Vibratory Equipment
Andela Products
BCA Industries
eFactor3
Ely Enterprises Inc.
Engineered Recycling Systems, LLC
J.J. Sheckel Corporation
SICON America LP
Van Dyk Recycling Solutions
West Salem Machinery Co.

WEIGHING & HANDLING EQUIPMENT

Air-Weigh
Alliance Scale, Inc.
Builrite Manufacturing
Equipment International
J.J. Sheckel Corporation
Keith Manufacturing Co.
Maren Balers & Shredders
Sennebogen LLC

OTHER MATERIAL HANDLING & PROCESSING

Air-Weigh
ALLU Group, Inc.
Amos Manufacturing
Bateman Manufacturing
Caterpillar
DADE Auctions, Inc.
Ely Enterprises Inc.
E-Pak Manufacturing
Harmony Enterprises, Inc.
International Baler Corporation
Interstate Batteries Recycling
Iron Ax
J.J. Sheckel Corporation
Kenco Corporation

Leadpoint Business Services
Mecalac North America
Philippi-Hagenbuch
Sennebogen LLC
Sierra International Machinery
Trelleborg Wheel Systems Americas, Inc.

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

Al-Jon by C&C Mfg
American Baler Company
Andritz ASKO Inc.
Danieli Centro Recycling
DJS Enterprises, LLC
Ely Enterprises Inc.
Engineered Recycling Systems, LLC
Harmony Enterprises, Inc.
Harris Equipment
International Baler Corporation
Iron Ax
Maren Balers & Shredders
OverBuilt/OVB Holdings LLC
Sebright Products Inc.
Sierra International Machinery
Vortex De-Pollution & Recycling Equipment

METAL SORTING SYSTEMS

Action Vibratory Equipment
BEKON Energy Technologies Inc.
BCA Industries
Bunting
Danieli Centro Recycling
DJS Enterprises, LLC
Ely Enterprises Inc.
Engineered Recycling Systems, LLC
Imabe of America
Redwave Solutions US LLC
S3 Software Solutions
SICON America LP

SERVICES & YARDS

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SHEARS (ALLIGATOR & GUILLOTINE)

Al-Jon by C&C Mfg
Andritz ASKO Inc.
Danieli Centro Recycling
DJS Enterprises, LLC
Ely Enterprises Inc.
Equipment International
Imabe of America
Iron Ax
LEFORT America
Sierra International Machinery
Vortex De-Pollution & Recycling Equipment

SWEAT FURNACES

DJS Enterprises, LLC
Recycling Services Intl, LLC

WEAR PARTS

Andritz ASKO Inc.
Ely Enterprises Inc.
SICON America LP

OTHER METAL PROCESSING

BCA Industries
Berkeley Scrap Metal
Harmony Enterprises, Inc.
Crow Environmental
DADE Auctions, Inc.
DJS Enterprises, LLC
Engineered Recycling Systems, LLC
E-Pak Manufacturing
E-Z Crusher/R.M. Johnson Company
Granutech-Saturn Systems
Harris Products Group
Helluva Container, Inc.
Imabe of America
J.J. Sheckel Corporation
Kenco Corporation
OverBuilt/OVB Holdings LLC
Philippi-Hagenbuch
Recycling Services Intl, LLC
Supershear, Inc.
United Catalyst Corporation

Miscellaneous**COMPUTER SOFTWARE**

American Suppliers Corp
DJS Enterprises, LLC

DUST CONTROL

Air Cleaning Blowers, LLC
Buffalo Turbine

Ely Enterprises Inc.
Philippi-Hagenbuch
Recycling Services Intl, LLC
SICON America LP

SAFETY PRODUCTS

Buffalo Turbine
Crow Environmental
Hallex Traders, Inc.
Industrial Netting
Recycling Services Intl, LLC

OTHER MISCELLANEOUS

Alliance Scale, Inc.
Andritz ASKO Inc.
Caterpillar
Chicago Pneumatic Construction Equipment
D&S Manufacturing
Harmony Enterprises, Inc.
Harris Products Group
Equipment International
Induction Innovations
Industrial Netting
Interstate Batteries Recycling
Kenco Corporation
Leadpoint Business Services
Myron Bowling Auctioneers
Philippi-Hagenbuch
Recycling Services Intl, LLC
Sennebogen LLC
Stern Consulting
Supershear, Inc.
Trelleborg Wheel Systems Americas, Inc.
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DynaHog
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SHREDDERS, GRINDERS & HOGS

Amos Manufacturing
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BCA Industries
BEKON Energy Technologies Inc.
DynaHog
Ely Enterprises Inc.
Hogzilla
Indeco North America
Precision Husky
West Salem Machinery Co.

TUB GRINDERS

ArmorHog
DynaHog
Hogzilla
Precision Husky

OTHER ORGANIC PROCESSING

ALLU Group, Inc.
BCA Industries
BEKON Energy Technologies Inc.
Harmony Enterprises, Inc.
Imabe of America
Philippi-Hagenbuch
West Salem Machinery Co.

Paper Processing**BALERS**

American Baler Company
BEKON Energy Technologies Inc.
Ely Enterprises Inc.
Excel Manufacturing, Inc.
Harmony Enterprises, Inc.
Harris Equipment
Imabe of America
International Baler Corporation
Maren Balers & Shredders
Sebright Products Inc.
Sierra International Machinery
SP Industries Inc.
Van Dyk Recycling Solutions

BALING WIRE SYSTEMS & SUPPLIES

Ely Enterprises Inc.
Harmony Enterprises, Inc.
Maren Balers & Shredders

SORTING LINES

BEKON Energy Technologies Inc.
Bomac Carts
Ely Enterprises Inc.

Imabe of America
Leadpoint Business Services
Redwave Solutions US LLC
Van Dyk Recycling Solutions

OTHER PAPER PROCESSING

Amos Manufacturing
BCA Industries
Excel Manufacturing, Inc.
Harmony Enterprises, Inc.
Helluva Container, Inc.
Imabe of America
Leadpoint Business Services

Plastic Processing**CLEANING SYSTEMS**

BEKON Energy Technologies Inc.
Bunting
eFactor3

DENSIFIERS

Ely Enterprises Inc.
Harris Equipment
Sebright Products Inc.
Sierra International Machinery
Warren & Baerg Manufacturing, Inc.

EXTRUDERS & PELLETIZERS

eFactor3

GRANULATORS

ArmorHog
BCA Industries
Cumberland
DynaHog
eFactor3
Ely Enterprises Inc.
Granutech-Saturn Systems

MECHANICAL SEPARATION

BEKON Energy Technologies Inc.
Bunting
Ely Enterprises Inc.
Imabe of America
Van Dyk Recycling Solutions

PERFORATORS

BEKON Energy Technologies Inc.
Sebright Products Inc.

OTHER PLASTIC PROCESSING

American Baler Company
BCA Industries
Bomac Carts
Cumberland
eFactor3
Ely Enterprises Inc.
Granutech-Saturn Systems
Helluva Container, Inc.
Imabe of America
International Baler Corporation
Leadpoint Business Services
Philippi-Hagenbuch
Sierra International Machinery

Services**ALL**

DADE Auctions
DADE Capital Corp.
Rosen Systems
Stern Consulting
United Catalyst Corporation

Tire & Rubber Recycling**BALERS**

Ely Enterprises Inc.
E-Z Crusher/R.M. Johnson Company
Harmony Enterprises, Inc.
International Baler Corporation
Maren Balers & Shredders
Sebright Products Inc.
Sierra International Machinery
Vortex De-Pollution & Recycling Equipment

GRANULATORS

Granutech-Saturn Systems
Vortex De-Pollution & Recycling Equipment

SHREDDERS

Amos Manufacturing
BEKON Energy Technologies Inc.
Cumberland
eFactor3
Ely Enterprises Inc.

Granutech-Saturn Systems
Vortex De-Pollution & Recycling
Equipment

OTHER TIRE & RUBBER RECYCLING

ArmorHog
BCA Industries
Bomac Carts
DADE Auctions, Inc.
DynaHog
E-Z Crusher/R.M. Johnson Company
Granutech-Saturn Systems
Helluva Container, Inc.
Hogzilla
S3 Software Solutions

Trucking Equipment & Transportation

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Brothers Equipment
E-Pak Manufacturing
Industrial Netting

LIVE FLOOR TRAILERS

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Brothers Equipment
Hallco Industries, Inc.
Keith Manufacturing Co.

TRUCKS

Benlee, Inc.
Brothers Equipment
Philippi-Hagenbuch

OTHER TRUCKING EQUIPMENT

Air-Weigh
Alliance Scale, Inc.
Benlee, Inc.
Brothers Equipment
E-Pak Manufacturing
Industrial Netting
Philippi-Hagenbuch
Trelleborg Wheel Systems Americas, Inc.

Used Equipment

USED EQUIPMENT

American Suppliers Corp
DADE Auctions, Inc.
DADE Capital Corp.
DJS Enterprises, LLC
Ely Enterprises Inc.
Equipment International
Halex Traders, Inc.
Harmony Enterprises, Inc.
Myron Bowling Auctioneers

Waste & Recycling Collection

COLLECTION BINS

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E-Pak Manufacturing
Harmony Enterprises, Inc.
Helluva Container, Inc.

MULTI-FAMILY EQUIPMENT SYSTEMS

Ely Enterprises Inc.

ROLL-OFF TRAILERS & HOOK-LIFT SYSTEMS

Benlee, Inc.
Brothers Equipment
Ely Enterprises Inc.

TRAILERS

Benlee, Inc.
Brothers Equipment
E-Pak Manufacturing
Hallco Industries, Inc.
Keith Manufacturing Co.

TRUCKS

Benlee, Inc.
Brothers Equipment

OTHER WASTE & RECYCLING COLLECTION

Air Cleaning Blowers, LLC
American Baler Company
Benlee, Inc.
Bomac Carts
Sebright Products Inc.
Sierra International



ACTION VIBRATORY EQUIPMENT

ACTION VIBRATORY EQUIPMENT

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503-537-1111
www.actionconveyors.com
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800-343-6802
www.alliancescale.com



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732-698-7205
www.allu.net
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With ALLU Transformer, screener crush, screen, sort, crush, pulverize, aerate, blend, mix, separate, feed and load materials – all in one step operation. Materials ALLU Transformer can process are topsoil, black top and dirt, excavated and waste soil, contaminated soil, clay, peat, bark, compost, biowaste, glass, aggregate and several other materials.

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Bellevue, OH 44811
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sales@americanbaler.com

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Short Hills, NJ 07078
678-709-2606
www.american-suppliers.com
raida.yessin@american-suppliers.com



Reduction and Recycling Solutions

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Alpena, MI 49707
888-270-6879
www.amos-mfg.com
info@amos-mfg.com

Amos Mfg., Inc. is a manufacturer of industrial shredding and separation equipment with over 40 years of experience. Our equipment is expertly engineered for its functionality, durability and consistent performance, and is proudly built in Alpena, Michigan.



ANDELA PRODUCTS

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Richfield Springs, NY 13439
315-858-0055
www.andelaproducts.com
candela@andelaproducts.com

Andela Products manufactures glass crushers-breakers, pulverizers, trommel screens, surge hoppers and conveyors individually or as a system. Selective reduction separation technology makes glass sand without sharp edges, separated from debris. Glass clean up systems turn waste glass into clean sand and aggregates for use in your community.

ANDRITZ ASKO

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Callery, PA 16024
412-326-2967
www.andritz.com
vincent.pilotta@andritz.com



ARMORHOG

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ArmorHog®, a division of CW Mill, focuses on providing top quality, extreme duty replacement parts including custom screens, tips, hammers and other replacement parts for all brands and models of industrial grinders, specializing in RIGID HAMMER grinding applications. ArmorHog is the extreme duty brand of aftermarket grinder parts for all grinders.

BATEMAN MANUFACTURING

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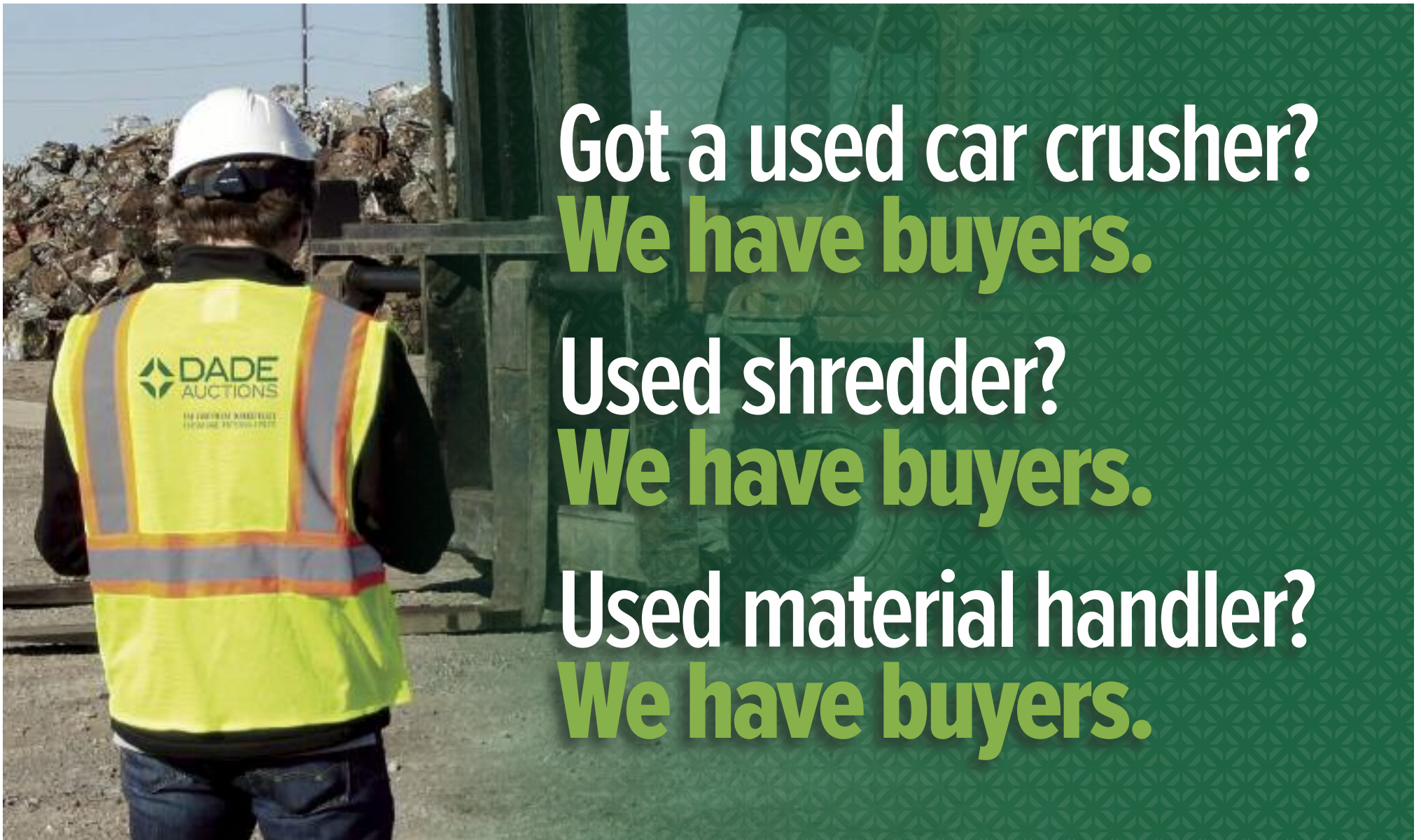
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