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AMERICAN RECYCLER BUYERS' GUIDE

SECTION 9 JANUARY 2025

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The challenge of food waste recycling

by MAURA KELLER
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The food waste recycling sector is facing significant challenges, with approximately one-third of all food produced globally going to waste. Efforts to address this issue include ambitious goals, such as the U.S. commitment to reduce food waste by 50 percent by 2030. While food waste reduction is becoming a priority, logistical and systemic challenges are hindering advancements in the waste and recycling industries.

To properly depict the current environment of food waste recycling, it is important to acknowledge that food waste doesn't only exist at the consumer level, it is generated throughout the supply chain.

Christophe Girardier, chief executive officer of Glimpact, said the most effective strategies for reducing food waste require action being taken before food is in the hands of the consumer. As it stands, there are three major avenues to reduce food waste – prevent food loss, reuse viable organic food waste, and composting.

“Preventing food loss needs to happen as early as the farm stage in order to manage our growing food waste issue. First and foremost, overproduction of food looms large as a driving force behind food loss. The food and agriculture industry faces many tangible logistical challenges that have made overproduction the norm, however curtailing this practice is the most streamlined way to reduce the environmental footprint of this industry,” Girardier said.

Reusing organic food waste effectively across the food supply chain requires identifying material streams and establishing clear redirection pathways for food and scraps currently being discarded. For example, unharvested produce as well as food that does not meet aesthetic retail standards remain nutritious and edible.

“With the right infrastructure, this food can be redirected to feed the population, whether in schools, food banks, or otherwise; however, currently this edible food largely ends up as waste,” Girardier said.

The last strategy for reducing food waste is composting. As Girardier explained, for composting to function as intended, it needs to be accessible, and for consumers and businesses who compost, they must be educated on how to do so properly so that non-compostable items that can potentially ruin whole batches of compost are not mistakenly disposed of this way.

“Since neither infrastructure nor education exist at scale, there is very little composting actually happening in the U.S. In the year 2019, the EPA estimated that the U.S. produced 106.3 million tons of food waste, of this, it was reported that



While food waste reduction is becoming a priority, logistical and systemic challenges are hindering advancements in the waste and recycling industries.

less than 5 percent of this food waste was composted,” Girardier said.

Luann Meyer is an associate with Barton & Loguidice’s Rochester, New York office. She has over 20 years of experience in the solid waste industry with a key emphasis on solid waste planning projects. According to Meyer, food waste recycling is still emerging in most communities as the waste stream still contains up to 30 percent of food scraps that are discarded in either a landfill or a waste-to-energy facility.

“However, given many climate initiatives, food waste is becoming a target material to remove from the waste stream and finding a better alternative than disposal,” Meyer said. “In general, many practices for managing food waste are not new and innovative, as composting and food waste prevention have been around for decades, if not longer. If you think back a generation or two, your grandmother tried to utilize as much food as possible and let nothing go to waste. If there was food waste, then it was often thrown in the backyard composting pile or fed to the chickens, or maybe it was thrown into the Sunday stew. These practices can still be done to minimize food waste.”

As Meyer pointed out, municipalities are also trying to provide residents with options for diverting food waste, such as drop-off food scrap or curbside collection programs. Some municipalities run these programs while others promote the private sector doing these collection programs.

“These supplemental programs often cost more – the municipalities either foot the bill or charge residents an added fee,” Meyer said.

Tech Advancements in Food Waste

Some newer technologies allow on-site dehydration of food scraps that can ultimately be used as a soil

amendment once cured. These can be as small as a coffee maker on residents’ countertops or larger equipment may be placed at a transfer station where residents can drop off their food scraps.

“Some technologies can separate packaging materials from the food waste to be managed in an anaerobic digester or composting,” Meyer said. “Depackaging is usually used on commercial waste for products that are off-spec or expired and cannot be sold or donated.” Meyer points to aerated static pile composting, as another technology that the waste and recycling industry is seeing more of, as it is more efficient than regular windrow composting, which involves creating long, narrow rows of organic material, which is then turned regularly for aeration and distribution of moisture and heat.

To reduce waste from spoiled foods, the USDA has begun to focus on advanced packaging methods such as modified atmosphere packaging in an effort to extend product shelf life as long as possible. “This has promise but is not implemented at a scale that has made any meaningful change in the environmental impact of the food and agricultural industry,” Girardier said.

Aidan Charron, associate director of Global Earth Day said that innovations in food waste technology are evolving but face barriers such as plastic packaging.

“Industrial composting and anaerobic digestion are among the most promising solutions, converting organic waste into bioenergy and fertilizers. However, challenges persist with materials like plastics, which contain over 16,000 chemicals and hinder recycling efficiency,” Charron said.

Charron added that the industry grapples with structural disconnections

See FOOD WASTE RECYCLING, Page A2

Food waste recycling

■Continued from Page A1

between food production and consumption. A major issue is the prevalence of single-use plastic packaging, which is often non-recyclable and complicates food waste management.

“Additionally, global supply chains and consumer habits exacerbate waste,” Charron said. “Many parts of the world lack accessible systems for separating food waste from other trash, further impeding recycling efforts.”

Challenges Aplenty

Meyer pointed to two significant challenges facing the food waste recycling industry: Getting the public to separate their food scraps from the rest of the waste and contamination. As Meyer explained, many residents find separating their food scraps from their regular trash and recycling inconvenient.

“Plain and simple, it is gross and adds another step to people’s already hectic lives. We are still struggling to get people to recycle their bottles, jugs, jars, and tubs, and now we are asking them to separate their food waste, too,” Meyer said. “Not everyone is willing to take on this task in their homes. But when they do, we run into the second challenge of contamination.”

Specifically, food waste often comes with packaging or other materials that cannot be composted or recycled. It depends on the technology through which food waste is processed, which can make or break the cycle.

“For instance, if bones are placed in food waste that is being composted, there is a good chance they will not break down; however, bones can often be broken down in a scenario where the food waste goes to an anaerobic digester,” Meyer said. “Packaging, especially plastic packaging, usually is a contaminant that does not break down in the recycling process and stays in the final product, which no one ever wants in their garden compost.”

Of course, one massive challenge facing the food waste industry is food overproduction. According to Girardier, roughly 30 percent of the food produced worldwide becomes food waste. “If we ever want to seriously reduce the food waste we generate, it is clear that the normalized practice of food overproduction needs to be curtailed,” Girardier said.

For solutions in food waste reduction that exist at present, such as redirection of edible food that is currently wasted, redirection of viable food scraps and composting, another key challenge is economic.

“These practices are not always financially viable, and to achieve the food waste reduction potential that we have today, there needs to be investment and leadership from government,” Girardier said. “With government investing in these existing technologies and practices and laying out the guidelines, it would enable consumers and businesses alike to participate in meaningful reduction of their food waste.”

Legislative Initiatives

Several states are enacting food waste diversion laws, while on the federal level,

they are encouraging food donation and food waste prevention in their literature. The EPA recently issued an updated food waste hierarchy (Wasted Food Scale | US EPA) that was developed based on the findings of its 2023 report From Field to Bin: The Environmental Impacts of U.S. Food Waste Management Pathways (From Field to Bin: The Environmental Impacts of U.S. Food Waste Management Pathways | US EPA).

New York State also passed the Food Donation and Food Scraps Recycling Law, which took effect on January 1, 2022. This law requires businesses and institutions that generate an average of two tons of wasted food per week to either donate or send the waste for recycling.

“New York State is looking to increase the amount diverted further through an amendment to this law that would ratchet the generation amount down to one ton of wasted food per week,” Meyer said. “This law passed the Senate and Assembly this past year but has yet to be signed by the Governor. Other states like California and Massachusetts have similar laws.”

At the state level, measures like Maryland’s Solid Waste Management bill mandate the separation and composting of food waste to enhance agricultural soil health.

“Federally, the current administration has set ambitious targets, but the effectiveness of these initiatives depends on implementation and funding,” Charron said. “Organic waste bans in some states are pushing large producers, such as supermarkets and restaurants, toward composting and anaerobic digestion as alternatives to landfilling.”

Outlook on the Food Waste Space

Looking ahead, Meyer anticipates seeing more communities offering drop-off collection points or curbside collection for food scraps. Even though this costs more, some communities are willing to pay the price to remove food scraps from the disposal stream.

“Education will continue to be a key component of reducing food waste and increasing food waste recycling,” Meyer said. “I would like to see more emphasis on preventing food waste before it becomes a waste versus managing the food as a waste material.”

Charron added that future efforts will likely focus on reducing food waste at its source, supported by both education and technological innovation. Schools and community programs will emphasize the origins and destinations of food waste.

“Investment in industrial and personal composting systems will grow, alongside funding mechanisms to support circular economy practices. Greater adoption of seasonal and localized crop systems may further reduce waste,” Charron said. “Additionally, advances in food waste recycling will emphasize circularity, such as replenishing soil nutrients through composting and waste-to-energy technologies.”

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NJDEP grants permit for solar panel recycling

The New Jersey Department of Environmental Protection (NJDEP) has granted the first-ever permit for solar panel recycling to Commercial Solar Panel Recycling, located in Phillipsburg's Urban Enterprise Zone (UEZ).

This groundbreaking RD&D permit, Certificate of Authority to Operate (CAO) a Research, Development & Demonstration Project to Manage Non-Hazardous End-of-Life Solar Panels, issued by NJDEP's Bureau of Recycling & Hazardous Waste, Division of Sustainable Waste Management will enable Commercial Solar Panel Recycling to process end-of-life solar panels, recovering valuable materials such as glass, aluminum and silicon. By recycling these materials, the company will help to reduce waste, conserve resources, and promote a more circular economy.

"The NJDEP's RD&D certification for solar panel recycling marks a critical step in advancing long-term solutions outlined in my newly introduced New Jersey Senate Bill 3399, which mandates end-of-life recycling for solar and photovoltaic energy facilities and structures. This milestone and CSPR's initiative as the first solar panel recycling operation in New Jersey are an exciting start toward a greener, more sustainable future," said New Jersey State Senator Bob Smith, a key supporter of renewable energy initiatives in New Jersey.



"This permit represents a pivotal leadership moment in New Jersey's sustainability journey, and we are proud to lead the charge in establishing a viable, scalable solution for solar panel recycling," said Glenn Laga, co-founder and chief executive officer of Commercial Solar Panel Recycling. "By recovering and reintroducing valuable materials into the manufacturing process, we're not only reducing New Jersey's landfill waste but also creating new jobs in an emerging industry poised to manage the growing volume of end-of-life solar panels."

Commercial Solar Panel Recycling is committed to reducing America's growing landfill burden through responsible and sustainable PV array recycling practices. The company's facility, located in the historic McGinley Mills, is now moving forward to utilize advanced technologies to recover valuable materials from solar panels, minimizing environmental impact and maximizing resource efficiency.

Trek Bicycle and Liberty Tire Recycling launch nationwide bike tire recycling program

Trek Bicycle and Liberty Tire Recycling announced the launch of an innovative bicycle tire recycling program across all Trek owned stores in North America. This initiative aims to provide cyclists with a free and responsible way to recycle their used bicycle tires.

Starting today, cyclists can bring their worn-out bicycle tires to a participating Trek store, where they will be collected and recycled at no cost to the consumer. This program addresses the growing concern of tire waste in landfills and its impact on the environment—and it helps to make cycling even more sustainable.

"We're committed to running our business as sustainably as possible," said Trek Brand Director Andrew Dutton, "and that commitment goes beyond the sale. Joining this tire recycling effort lets us give riders an easy way to recycle their old bike tires responsibly—and we're proud to be part of it."

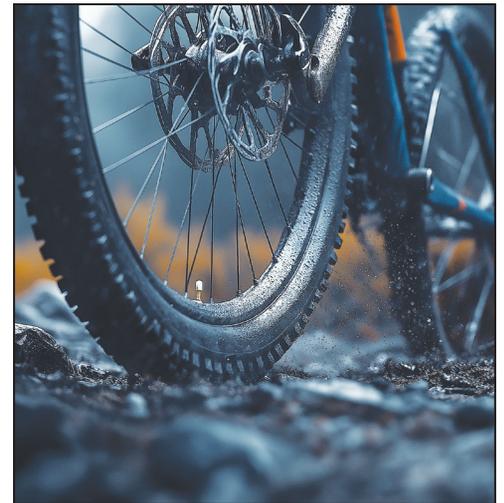
More than 50 million Americans bicycle at least once a year, and with cycling increasing in popularity Americans deserve a way to conveniently recycle their old bike tires. This initiative provides a convenient solution for cyclists and aligns with Trek and Liberty's commitment to environmental stewardship. By keeping tires out of landfills, the program aims to reduce pollution and promote sustainable practices within the cycling community.

"We believe that every tire has more

than one life to live, and we are thrilled to expand that vision to bike tires through our partnership with Trek," said Amy Brackin, senior vice president of sustainability for Liberty Tire Recycling. "This partnership makes cycling an even more sustainable form of transportation and recreation."

Liberty Tire Recycling handles the process, making sure every part of the tires is repurposed. The recycled materials are used in a variety of ways, including in landscaping, sustainable asphalt, tracks, fields and more.

In stores, cyclists can look for a "Retire Your Tires" box where they can easily drop off their tires. Trek encourages all riders to take advantage of this program as part of their commitment to sustainable cycling practices.



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Pennsylvania expands glass recycling



On the heels of a successful three-month engagement of its Traveling Glass Recycling Bin in Haverford Township, Pennsylvania Resources Council (PRC) has expanded its glass recycling efforts to include its first permanent collection site in eastern Pennsylvania.

"Throughout the summer, thousands of Delaware County residents took advantage of PRC's blue Traveling Glass Recycling Bin by dropping off 15,000 pounds of glass for recycling," explains PRC executive director Darren Spielman. "Based on public participation and the quantity of glass collected, PRC has established its first permanent collection site in the region, offering uninterrupted service by keeping the Haverford Township glass recycling bin in place."

Residents can drop off all colors of glass bottles, jars and jugs in the blue bin located in the Haverford Township Office lower parking lot. Containers should be empty and rinsed, with lids and labels still on, and all bags and boxes used to deliver glass must be discarded off-site.

"The glass recycling partnership with PRC seems to be a win any way you look

at it," according to Haverford Township manager David Burman. "All glass collected in the bin is being recycled, and the more glass we divert from curbside collection to this bin, the less it costs the township to process glass."

Since launching glass recycling in 2020 in Allegheny County, PRC and partners have established permanent collection sites in more than a dozen communities and scheduled more than 100 Traveling Bin engagements to provide a free recycling service in a variety of locations in Pennsylvania.

"Glass is still one of the most recyclable materials we generate in our homes and the market for glass recycling is very strong," according to PRC Glass Program coordinator Ethan Woodfill. "When you take the time to use glass-only drop-off sites, nearly 100 percent of the glass collected is recycled into new bottles, jars and jugs."

PRC's glass recycling program is sponsored by Owens-Illinois, Inc. and CAP Glass and is made possible through partnerships with Michael Brothers Hauling and Tri State Waste.

New recycling facility in Alabama will be catalyst for expansion

More than half of all households in Alabama lack access to residential recycling according to The Partnership's 2024 State of Residential Recycling Report. In Baldwin County, on the state's Gulf Coast, a few cities offer curbside collection, but all the material ships out of state, usually to Florida, which increases costs.

Baldwin County is leading the way toward expanded recycling with a new MRF. The first of its kind in the county and southwest Alabama, the facility will serve a growing population of over 100,000 households and can process up to 40,000 short tons (80 million pounds) of material each year. That is far more than what the county's households will produce, which allows room for commercial material and neighboring communities to expand recycling access.

The new MRF will enable Baldwin County to capture an estimated 1.3 million new pounds of PET every year. The county is already planning to roll out expanded curbside recycling to unincorporated towns and other areas that have not had coverage. Through a grant from the Coalition to

support a new optical sorter, the facility can separate PET, where before it could only deliver mixed plastic bales.

The optical sorter will enable Baldwin County to capture as much PET as possible from household recycling streams, preventing unnecessary material losses and ensuring the economic value of PET can be realized. Research from The Recycling Partnership shows that as much as a quarter of PET bottles and half of non-bottle PET coming into a MRF can be lost to other waste streams such as paper. This application of best-in-class technology ensures a healthy PET recycling stream and mitigates risks of contamination in other recycling streams.

"Baldwin County's new MRF will act as a model for other rural counties throughout the state and other rural counties across the nation," said Terri Graham, development and environmental director for the Baldwin County Commission. "The facility model will be particularly valuable to counties that, like Baldwin County, want to reduce the burdens on local landfills."



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EQUIPMENT SPOTLIGHT

Tub Grinders

by MARY M. THORNTON

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Tub grinders are frequently used in construction, demolition and other settings to clear and process wood material, whether to reduce the volume of material that must ultimately be moved from the site or for ease of movement in the work space involved. Zion Market Research reports that the global mobile wood tub grinder market value will reach \$732.24 million by the end of 2032.

The following firms possess an abundance of expertise with that product and related equipment as well.

CW Mill's (CW) products include large, industrial, HogZilla® brand grinding machines along with high performance hammermill cutting and grinding tools. The grinding machine and parts division serves many industries, including the municipal, commercial, agricultural, and industrial material processing industries, through providing whole machines and sub-components to process most organic and some non-organic materials. Special uses within these industries include recycled material processing, organic composting, forestry product grinding, mulch production, forestry derived fuel production, land clearing, scrap tire grinding, tire derived fuel production, waste volume reduction, utility right of way maintenance, disaster recovery and animal food processing.

In the 1970s, CW began manufacturing a PTO driven, tub grinder



Bandit Industries

along with an electric powered grinder that could be used to grind paper, wood products, alfalfa, hay, grain and other low-density materials. By the 1980s, a machine built exclusively for grinding wood waste was on the product roster, and that machine was the HogZilla Grinder. The timing was purposeful and opportune as the farm sector was sluggish. Burning had long been the predominant method for wood waste removal in agricultural and land clearing operations, so air pollution and wildfire concerns prompted legislation to curtail the process.

"Being customer-driven is the basis for all that CW Mill does and has been for over 50 years. That approach is backed with experienced staff and advanced manufacturing equipment and we will continue to provide products for years to come. After enduring a pandemic, we

have adapted to those challenges and now carry a larger inventory to support our customers," said Brian Bergman, operations manager for CW Mill. "CW continues to grow and evolve along with advancements in technology. We stay abreast of the changes within the forestry and agriculture industries, focusing on recycling and downsizing material and our innovation continues. Each product that CW has developed, manufactured, and offered for over 50 years has been in large part, customer driven," Bergman concluded.

Since 1983, Bandit has manufactured equipment for a multitude of wood waste and recycling markets. "The vision since the beginning is to build quality, highly productive, easy to maintain equipment providing years of dependable service. The commitment for quality, innovation, and dedication is instilled in every employee and is one of the main reasons why Bandit became an Employee-Owned Company (ESOP) in 2018. These core values ensure each Bandit machine will leave the factory ready to exceed your expectations," Jason Morey, marketing manager, commented.

He added that Bandit horizontal grinders are supported by a highly trained dealer network. Each dealer has qualified parts, sales, and service personnel receiving ongoing training from Bandit. These dealers carry a wide variety of parts and machines to meet your needs and are supported by Bandit regional sales and parts representatives. Bandit introduced its first horizontal grinder, the Model 3680 in 1995. Since then, multiple models have been engineered and manufactured

See TUB GRINDERS, Page A7

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Tub Grinders

■ Continued from Page B4



Precision Husky Corporation

featuring a unique cuttermill for processing a diverse range of material. Expanding the horizontal grinder line last year, Bandit introduced its first hammermill grinder, further enhancing Bandit's already expansive line of horizontal grinders.

Serving multiple applications, each grinder easily processes a variety of materials including but not limited to, biomass, chunk wood, compost, disaster clean-up, municipal solid waste, mulch, orchard recycling, pallets, plastic pipe, shingles, stumps, whole trees and more.

Morey concluded, "Cut it, chip it or hammer it with a Bandit horizontal grinder! With three different mill options, we can help you identify the grinding method that is best for your application. To learn more about Bandit equipment or to schedule a demonstration, please contact your local authorized Bandit dealer or visit our website."

Precision Husky Corporation, celebrating their 60th anniversary, is an international manufacturer of waste wood processing equipment for the recycling, sawmill, and forestry industries. Whether whole tree chippers and flail debarkers for use in Australia, or stationary electric 5200 tub grinders used in Japan, Precision Husky has manufactured equipment

for use in over 120 different countries.

Precision offers six different models of tub grinders and three horizontal grinder sizes. All tub and horizontal grinders may be trailer mounted, track mounted, or stationary mounted. All units are standard with diesel or electric motors. The tub grinder line ranges from the 200 HP PG 900 to the 1200 HP PG 5200. The 5200 tub and 4000 tub models may also use a Husky knuckle boom loader attached.

Steve Briscoe, sales manager stated, "The ProGrind Horizontal Grinders start with our 520HP H3045 and our largest horizontal is the H4060, with up to 1200 HP. These units may also be powered with electric motors. The standard hammermill may be replaced with a 2 knife or 4 knife drum chipper. This is an excellent way to change the desired end product with the use of one machine processing via grinding or chipping. All of these machines are used in different applications, including governmental agencies, waste haulers, composters, mulch producers, demolition contractors, sawmill, and land clearing contractors." Precision also provides complete engineering services for complete bark processing plants and complete chip mill.



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PLASTICS

Polypropylene Recycling Coalition reports 64 million new pounds of polypropylene recycled

The Recycling Partnership's Polypropylene Recycling Coalition released its inaugural annual report showcasing measurable improvement in the circularity of polypropylene (PP). Established in 2020, the Coalition awards grants to materials recovery facilities (MRFs), secondary sorters, and reclaimers to increase acceptance, improve capture, and deliver higher-quality recycled PP to responsible end markets. Together, its members have helped deploy over \$15 million across 60 grants, resulting in new or improved polypropylene recycling access to 48 million people.

Polypropylene, also known as #5 plastic, is ubiquitous in our daily lives and widely used in packaging for dairy foods, salads, deli items, microwaveable meals and more. Its high value has resulted in growing demand for post-consumer recycled polypropylene, yet only 8 percent is recycled annually. The Coalition's grants address challenges by enabling recycling facility upgrades, improved sortation capabilities, and community engagement needed to boost PP recycling rates.

"In just four years, The Coalition has improved polypropylene recycling access, capture, sortation, and processing in more than half of U.S. states, and there is more to do," said Brittany LaValley, vice president of materials advancement

at the Partnership. "While we celebrate this progress, we know there is significant opportunity to continue to expand the demand for recycled polypropylene, spur investments in access, education and infrastructure, and create a more robust market for this versatile material."

Together with producers, communities, recyclers, and manufacturers, the Coalition is working to drive a five percent increase in the U.S. polypropylene recycling rate by:

Ensuring more recycling facilities can successfully sort polypropylene: Community recycling program acceptance increased by 11 percent. As one example, the Scott County Waste Commission facility in Iowa received a Coalition grant, and as a result, with its new optical sorter, it has captured 7x more polypropylene in the first 6 months of 2024 than it did in all of 2023.

Accomplishing a five percent increase in polypropylene recycling rates requires deploying \$10 million in new capital throughout 2025, strategically focused on achieving critical milestones. This funding is part of a comprehensive strategy to deploy \$55 million in new capital to modernize recycling infrastructure and expand polypropylene capture nationwide.

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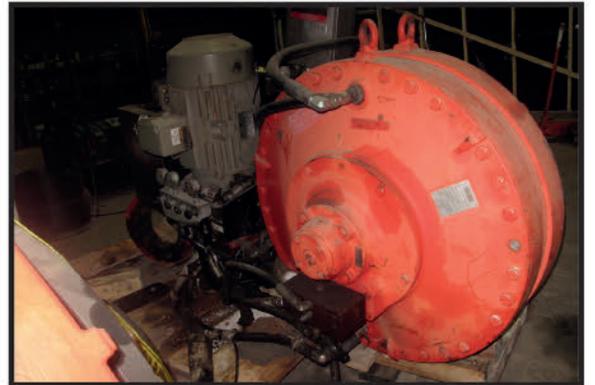
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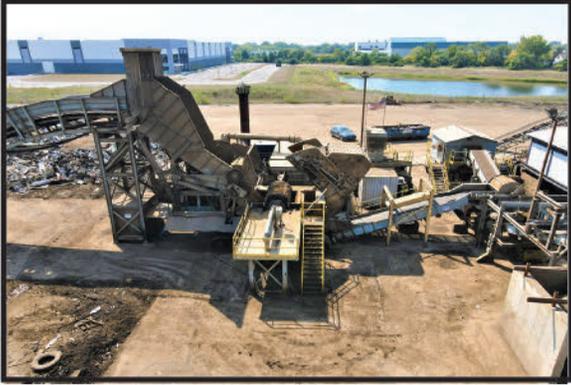


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METALS

Steel imports up 12.0 percent

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 2,394,000 net tons (NT) of steel in October 2024, including 1,840,000 net tons (NT) of finished steel (up 12.0 percent and 8.6 percent, respectively, vs. September 2024). Total and finished steel imports are up 2.6 percent and 2.7 percent, respectively, year-to-date vs. 2023. Over the 12 month period November 2023 to October 2024, total and finished steel imports are up 1.9 percent and unchanged, respectively, vs. the prior 12-month period. Finished steel import market share was an estimated 22 percent in October and is estimated at 23 percent over the first ten months of 2024.

Key steel products with a significant import increase in October compared to September are reinforcing bars (up 129 percent), heavy structural shapes (up 92 percent), cut lengths plates (up 55 percent), hot rolled sheets (up 51 percent) and blooms, billets and slabs (up 25 percent). Products with a significant increase in

imports over the 12 month period November 2023 to October 2024 compared to the previous 12-month period include sheets and strip all other metallic coated (up 55 percent), sheets and strip hot dipped galvanized (up 37 percent), wire rods (up 21 percent), cold rolled sheets (up 19 percent) and heavy structural shapes (up 16 percent).

In October, the largest suppliers were Canada (545,000 NT, up 10 percent from September), Brazil (364,000 NT, up 10 percent), Mexico (361,000 NT, up 35 percent), South Korea (162,000 NT, down 40 percent), Japan (138,000 NT, up 77 percent) and Germany (138,000 NT, up 73 percent). Over the 12-month period November 2023 to October 2024, the largest suppliers were Canada (6,634,000 NT, down 3 percent compared to the previous twelve months), Brazil (4,793,000 NT, up 40 percent), Mexico (3,447,000 NT, down 20 percent), South Korea (2,831,000 NT, up 9 percent) and Vietnam (1,221,000 NT, up 126 percent).

Hydro increases recycling capacity in Pennsylvania

A new indirect extrusion press replaced two old presses and is part of Hydro's ongoing efforts to increase efficiency and modernize its operations. The recycling expansion increases the facility's capacity to more than 270,000 tons per year, the largest in Hydro. After the expansion, the recycling facility will be able to process 64,000 tons of post-consumer scrap annually, an increase of 30,000 tons.

"With these investments, we continue the development of the Cressona plant as a key part of Hydro Extrusions in North America. The increased efficiency and the ability to deliver recycled aluminum with a lower carbon footprint to our North American customers caters to the growing demand for more sustainable products," said Jeff Lehman, business unit president, Extrusion North America.

Hydro's facility in Cressona was built in 1942 by the U.S. government and is the largest aluminum extrusion site in North America with 15 hectares (149,000 square meters) under roof. The site has 1,100 employees and boasts 11 extrusion presses, three extrusion ingot casting units, extensive fabrication capabilities and a distribution warehouse.

The 3,000 ton, 12 inch indirect extrusion press has state-of-the-art technology,

and is equipped with advanced automation and monitoring systems, which helps Extrusion North America to better serve key markets such as the transportation, distribution, and industrial sectors.

Closed-loop recycling system

The enhanced recycling capacity and capabilities support the shift toward a closed-loop system, allowing aluminum scrap to be reprocessed into new products, further advancing Hydro's sustainability efforts.

The ability to process post-consumer aluminum scrap, aluminum that has lived a life in a product and comes back to be recycled, is important to create a more circular society where all materials are recycled. When using post-consumer aluminum scrap to make new products, the embedded carbon footprint in the material is significantly lower than average.

These dual investments come at a time when the demand for sustainable, low-carbon aluminum is rising across numerous industries, including automotive, building and construction, and distribution. With these expanded capabilities, Hydro is well-positioned to meet the growing expectations of North American customers who increasingly prioritize sustainability in their supply chains.

U.S. Imports of Steel Mill Products by Country of Origin (thousands of net tons)

COUNTRY	OCT. 2024 PRELIM.	SEP. 2024 FINAL	% VAR. OCT. VS. SEP.	YTD 2024 (10 MON.)	YTD 2023 (10 MON.)	% VAR. 2024 VS. 2023	NOV. 2023 TO OCT. 2024	NOV. 2022 TO OCT. 2023	% VAR.
Canada	545	496	9.8%	5,562	5,812	-4.3%	6,634	6,861	-3.3%
Brazil	364	330	10.3%	4,078	3,227	26.4%	4,793	3,421	40.1%
Mexico	361	267	35.2%	2,909	3,645	-20.2%	3,447	4,310	-20.0%
South Korea	162	271	-40.2%	2,422	2,228	8.7%	2,831	2,600	8.9%
Vietnam	101	135	-25.4%	1,134	474	139.5%	1,221	539	126.4%
Japan	138	78	76.7%	1,027	1,024	0.3%	1,191	1,247	-4.5%
Germany	138	80	72.5%	901	884	1.9%	1,059	1,084	-2.3%
Taiwan	47	95	-50.1%	833	507	64.1%	905	630	43.7%
Netherlands	76	47	61.3%	498	421	18.3%	585	530	10.3%
China	34	31	8.7%	411	529	-22.2%	480	609	-21.2%
Turkey	15	39	-61.5%	402	266	51.5%	449	337	33.0%
Romania	29	5	526.4%	379	315	20.0%	439	409	7.3%
United Arab Emir.	32	14	131.4%	309	246	25.3%	365	304	19.9%
Italy	24	19	28.3%	292	402	-27.4%	329	508	-35.1%
Spain	45	15	192.6%	252	253	-0.2%	289	306	-5.4%
All Other	284	215	31.6%	3,257	3,810	-14.5%	3,771	4,563	-17.3%
Total	2,394	2,137	12.0%	24,666	24,043	2.6%	28,789	28,258	1.9%
memo EU-27	440	246	79.0%	3,562	3,429	3.9%	4,136	4,258	-2.9%

Steel shipments down 1.4 percent

The American Iron and Steel Institute (AISI) reported that for the month of October 2024, U.S. steel mills shipped 6,987,092 net tons, a 4.9 percent decrease from the 7,346,373 net tons shipped in October 2023. Shipments were down 1.4 percent from the 7,083,141 net tons shipped in the previous month, September 2024. Shipments year-to-date in 2024

are 72,283,207 net tons, down 3.7 percent vs. 2023 shipments of 75,080,374 net tons for 10 months.

A comparison of shipments year-to-date in 2024 to the first 10 months of 2023 shows the following changes: cold rolled sheet, up 4 percent, corrosion resistant steel, unchanged and hot rolled steel, down 6 percent.

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#1 Bundles	per gross ton	359.00	358.00	359.00	361.00	362.00
Structural	per gross ton	327.00	319.00	324.00	325.00	329.00
#1 & #2 Mixed Steel	per gross ton	311.00	314.00	313.00	310.00	315.00
Crushed Auto Bodies	per gross ton	217.00	218.00	218.00	220.00	219.00
Shredded Auto Scrap	per gross ton	368.00	369.00	370.00	372.00	375.00

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#2 Copper Wire & Tubing	per pound	3.82	3.81	3.79	3.78	3.89
Aluminum Cans	per pound	.75	.79	.78	.80	.81
Al/Cu Radiators	per pound	1.89	1.76	1.75	1.73	1.73
Aluminum Radiators	per pound	.63	.64	.65	.63	.60
Heater Cores	per pound	1.35	1.41	1.43	1.52	1.50
Stainless Steel	per pound	.63	.62	.60	.61	.60

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

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World crude steel production increases

World crude steel production for the 71 countries reporting to the World Steel Association (worldsteel) was 152.1 million tonnes (Mt) in October 2024, a 1.0 percent increase compared to October 2023.

Crude steel production by region

Africa produced 2.0 Mt in October 2024, down 0.4 percent on October 2023. Asia and Oceania produced 111.3 Mt, up 1.7 percent. The EU (27) produced 11.3 Mt, up 5.5 percent. Europe, Other produced 3.4 Mt, down 6.2 percent. The Middle East produced 5.0 Mt, up 5.4 percent. North America produced 8.8 Mt, down 3.6 percent. Russia & other CIS + Ukraine produced 6.7 Mt, down 12.2 percent. South America produced 3.8 Mt, up 7.2 percent.

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Top 10 steel-producing countries

China produced 81.9 Mt in October 2024, up 2.9 percent on October 2023. India produced 12.5 Mt, up 1.7 percent. Japan produced 6.9 Mt, down 7.8 percent. The United States produced 6.6 Mt, down 2.0 percent. Russia is estimated to have produced 5.6 Mt, down 15.2 percent. South Korea produced 5.4 Mt, down 1.8 percent. Germany produced 3.2 Mt, up 14.7 percent. Turkey produced 3.0 Mt, up 0.7 percent. Brazil produced 3.1 Mt, up 16.2 percent. Iran produced 3.0 Mt, down 1.9 percent.

Top steel-producing countries

	Oct 2023 (Mt)	% change Oct 23/22	Jan-Oct 2023 (Mt)	% change Jan-Oct 23/22
China	89.1	2.9	850.7	-3.0
India	12.5	1.7	123.0	5.6
Japan	6.9	-7.8	70.2	-3.7
United States	6.6	-2.0	66.7	-1.9
Russia	5.6 e	-15.2	59.4	-6.8
South Korea	5.4	-1.8	53.1	-5.1
Germany	3.2	14.7	31.6	5.0
Turkey	3.0	0.7	30.9	12.4
Brazil	3.1	16.2	28.4	6.0
Iran	3.0	-1.9	25.0	0.6

e- estimated. Ranking of top 10 producing countries based on year-to-date aggregate



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WASTE

SWANA releases report on organic waste

The SWANA Applied Research Foundation (ARF) released a new research report titled “Carbon Dioxide Avoided Emissions Costs.” This report dives into the impact of greenhouse gas (GHG) avoidance when diverting mixed organic wastes from landfill disposal by using thermal and/or biological treatment technologies. It provides the cost per ton of carbon dioxide emissions avoided through various options for processing mixed organics compared to disposal in landfills. The report concludes that the most cost-effective method of reducing carbon dioxide (CO2) emissions (or their equivalents) is associated with the disposal of organic waste.

“SWANA is pleased to make this report available to members. It provides applicable data for our industry to make decisions on organics disposal options. SWANA would like to thank the Applied Research Foundation members for selecting this topic and for their collaboration in the research process,” says SWANA executive director & chief executive officer Amy Lestition Burke, MA, FASAE, CAE.

The research used EPA’s Waste Reduction Model (WARM) to evaluate emissions associated with organic management in four types of facilities: landfills, waste-to-energy facilities, anaerobic digestion, and composting. The cost per ton of avoided emissions is an analysis based on representative tipping fees used



to process or dispose of mixed organics. Based on the results of the study, the most cost-effective method of reducing carbon dioxide emissions for organics disposal is processing in a composting facility, which would save an estimated \$48 per metric ton of carbon.

Jeremy O’Brien, SWANA director of Applied Research, presented the findings during a session at WASTECON®.

Earlier this year, SWANA submitted comments on the US Draft National Strategy for Reducing Food Loss and Waste and Recycling Organics. “SWANA encourages the prevention of food waste and loss, and the responsible management of organics recycling,” adds Burke. “This research supports SWANA’s mission of being a climate champion.”

Vanguard Renewables breaks ground on gas facility

Vanguard Renewables, a portfolio company of Global Infrastructure Partners (GIP), a part of BlackRock, held a groundbreaking ceremony for its newest renewable natural gas project at The Moyer Family’s Oakmulgee Dairy Farm in Amelia Court House, Virginia. The farm, owned by Larkin Moyer, a fourth-generation dairyman, along with his sons Brandon and Jeremy and is the oldest continuously operating family dairy in the Commonwealth.

Vanguard Renewables is a leading builder, owner and operator of organics-to-renewable natural gas facilities in the U.S.. The company is expanding across the U.S. and currently has seven operational facilities, three under construction, and plans to begin construction on multiple additional sites by the end of the year. The Farm Powered anaerobic digester at Oakmulgee Dairy Farm, will produce more than 259K MMBtu/year of renewable gas and divert over 105K tons of food and beverage waste from landfill or incineration yearly.

The project will be constructed and operated by Vanguard Renewables and is part of a recently announced joint venture between Vanguard Renewables and TotalEnergies, a global integrated energy company, to develop, build and operate Farm Powered renewable natural gas projects across the United States.

The centerpiece of this trailblazing initiative at Oakmulgee Dairy Farm is this

state-of-the-art anaerobic digester system that will recycle organic materials into renewable gas that is upgraded on-site and injected into the nation’s existing pipeline infrastructure. The renewable natural gas produced at this site in Virginia will go on to fuel AstraZeneca’s Maryland biopharmaceutical production facilities.

In addition to purchasing the renewable gas produced at Vanguard Renewables’ Farm Powered sites to decarbonize its thermal load, AstraZeneca announced in November of 2023 an expanded partnership between the two companies that would leverage its global industrial-scale manufacturing and digital capabilities to boost U.S. renewable gas productivity at Vanguard’s sites.

Vanguard Renewables’ decade-long history of working with American dairy farmers is core to the company’s success and its commitment to support multi-generational dairy farms around the country. The company’s farm based anaerobic digesters provide farm partners with a dedicated income stream from a 20 year+ land lease. The byproducts of the anaerobic digestion process are returned to the farm in the form of low-carbon, nutrient dense digestate used as biofertilizer and bedding for the farm’s herd.

This process creates a virtuous cycle – from farm to manufacturer and back to the farm, by harnessing the power of food and beverage waste and the farm’s manure.



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BUSINESS BRIEFS

Meridian Waste makes staff changes and promotions

■ Meridian Waste Acquisitions, LLC, an integrated, non-hazardous solid waste services company, announced multiple internal staffing promotions and outside hires. These promotions and new hires better position Meridian Waste for continued growth and success by enhancing the management talent within the company.

Ryan Perry, formerly Meridian Waste's chief accounting officer since 2019, has been promoted to the role of chief financial officer. Perry's impressive track record of managing the company's fiscal responsibilities include monthly financial reporting, annual financial audit, annual budgeting, acquisition review & due diligence, and capital deployment. In his new role, Perry will also manage banking and bonding relationships while leading the company's 32 member accounting team.

Jill Kelledy has transitioned from senior director of financial operations and has been promoted to vice president – financial shared services. In this position, Kelledy will focus on corporate-wide treasury services, financial software integration and utilization, accounts receivable, accounts payable, and training. Her commitment to detail and systematic approach to resolving financial challenges makes her keenly adept within her new role.

Additional accounting and finance roles include the hiring of Miles Hathcock as area controller – Alabama & Mississippi and Kim Henson as area controller – Virginia. Both new employees to the company, they bring a strong and proven background of accounting expertise while working within the solid waste industry for 10 and 22 years, respectively.

Gentry Shows has been elevated to area president – Alabama to integrate and manage the Alabama assets acquired as part of the Evergreen Environmental Partners, LLC (EEP) and Arrow Disposal Services, Inc. (ADSI) sale into Meridian Waste's culture of accountability and success, financial performance standards and customer service excellence. Formerly government affairs director of ADSI, Shows led the impressive growth of ADSI through 41 local government contract awards and service implementations.

For the Mississippi assets acquired from the EEP/ADSI transaction, Cole Crozier has been internally tapped to lead the Mississippi operations as district manager – Mississippi.

Stellar acquires Elliott Machine Works

■ Stellar Industries, an employee owned and operated manufacturer of mechanic and service trucks, cranes, tire service trucks, hooklifts, trailers and service truck and van accessories, has acquired Elliott Machine Works, Inc., family owned manufacturing company based in Galion, Ohio. This strategic investment is aimed at enhancing Stellar's growth, expanding its product offerings and providing greater opportunities for Stellar distributors, customers and employee-owners.

Dan Quam joins Brokk as parts manager

■ Brokk, a manufacturer of remote-controlled demolition machines, hired Dan Quam as parts manager for the company's Monroe, Washington, parts warehouse. His responsibilities include managing the parts department and overseeing, receiving and purchasing spare parts for both Brokk and Aquajet products in North America. Quam will work with the Brokk team, including warehouse manager Noah Acree and assistant warehouse manager Brodie Kohn, to help ensure Brokk delivers on its promise of same-day shipping on all common parts.

Before joining Brokk, Quam worked for Mi Fluid Power Solutions, a hydraulic/pneumatic parts distributor, for more than 32 years. He worked his way up from the warehouse and learned all aspects of the business from customer service and purchasing to branch management. His most recent position was in outside sales. In this role, he regularly worked with Brokk, developing a longstanding relationship with the team and a deep knowledge of the Brokk and Aquajet brands. All in all, his three decades of experience will help him provide Brokk and Aquajet customers specialized product knowledge and industry expertise to get the parts they need on the job.

Komatsu to acquire American Battery Solutions

■ Komatsu, through its wholly owned subsidiary in the U.S., Komatsu America Corp., has acquired American Battery Solutions, Inc. (ABS), a battery manufacturer headquartered in Detroit, Michigan.

ABS develops and manufactures a variety of heavy-duty and industrial battery packs, using lithium-ion batteries for commercial vehicles, transit buses and on- and off-road vehicles. The company provides standard and custom battery systems optimized to each customer's needs. ABS' technology, combined with the advanced product development knowledge and expertise of its people, enables the company to develop and manufacture battery packs.

The acquisition of ABS will enable Komatsu to develop and produce its own battery-operated construction and mining equipment, through the integration of ABS' battery technology with Komatsu's knowledge and network. The first equipment produced with ABS' batteries will be used to power mining equipment in North and South America. Komatsu will aim to expand the use of batteries in construction equipment and to establish a global supply system. Komatsu will support ABS' battery business to further develop the electrification business post-acquisition.

ABS will operate as a stand-alone business entity within Komatsu and will continue its growth plans by executing on its current and prospective customer programs in the commercial vehicle segments.



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BUSINESS BRIEFS

Redwave and TOMRA partner to offer a solution for Zorba sorting

■ The two leading sorting solutions providers, Redwave and TOMRA, have announced a strategic agreement aimed at providing customers with a seamless supply of sorting systems based on XRF (x-ray fluorescence) and XRT (x-ray transmission) technology. This new arrangement will make it easier and more efficient for customers to access top-tier sorting technologies from one turnkey supplier.

Redwave and TOMRA Recycling began offering each other's complementary metal sorting technologies directly to their respective customers. By facilitating access to the combined technologies, both Redwave, a Competence Center of BT-Systems, and TOMRA Recycling aim to address the growing demand for sustainable and efficient Zorba sorting processes, enhancing scrap metal recovery and delivering the highest quality of end fractions. Customers can now source both technologies from one supplier, however Redwave and TOMRA will continue to operate fully independently, focusing on their individual technology expertise and directly assisting customers with after-sales service on their respective equipment.

This non-exclusive agreement will be particularly beneficial to recyclers and plant operators in Zorba sorting, providing them with more efficient and accurate capabilities.

ReMA enters partnership with ReMatter

■ The Recycled Materials Association (ReMA) announced a first-of-its-kind visionary partnership for 2025. ReMA is partnering to make ReMatter, a software provider, the presenting sponsor of ReMA2025 – The Show and the Official Innovation Partner of ReMA for 2025.

As the presenting sponsor of ReMA2025 – The Show, the event's official title becomes ReMA2025 – The Show Powered by ReMatter. This addition to the brand reflects ReMA and ReMatter's joint commitment to the industry's progress and will be utilized throughout all official convention materials.

ReMatter and ReMA have previously partnered across various events and channels to offer ReMatter's trusted scrap software to ReMA members across the recycling industry. In addition to sponsoring ReMA2025 – The Show Powered by ReMatter, both organizations will continue to explore cross-channel initiatives that help recyclers and the industry operate at the highest levels and maximize value creation.

ReMA 2025 – The Show Powered by ReMatter happens May 12-15, 2025, in San Diego, California. This event brings together close to 7,000 professionals representing every facet of the recycled materials industry in the world.

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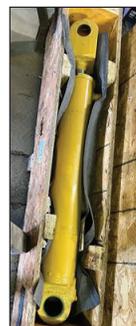
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AMERICAN RECYCLER BUYERS' GUIDE

SECTION B

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JANUARY 2025

Aluminum & Steel Processing

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Accent Wire Tie
 Andritz Metal USA, Inc.
 Al-Jon by C&C Mfg
 American Baler Company
 CP Group
 Danieli Centro Recycling
 DeHart Recycling Equipment, Inc.
 DJS Enterprises, LLC
 Ely Enterprises
 E-Z Crusher/R.M. Johnson Company
 GENSCO America
 Harris Equipment
 International Baler Corporation
 Iron Ax
 Maren Balers & Shredders
 Orbcon
 S3 Software Solutions
 Sebright Products Inc.
 SEDA Environmental
 Vortex De-Pollution & Recycling Equipment
 WorldWide Trade, Scrap & Salvage

DENSIFIERS & FLATTENERS

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

SHREDDERS

Al-Jon by C&C Mfg
 Andritz Metal USA, Inc.
 Bandit Industries, Inc.
 BCA Industries
 DADE Auctions, Inc.
 Danieli Centro Recycling
 DeHart Recycling Equipment, Inc.
 DJS Enterprises, LLC
 Eldan Inc.
 Ely Enterprises
 FORNNAX
 GENSCO America
 Granutech-Saturn Systems
 Harris Equipment
 Komar Industries
 Orbcon
 SICON America LP
 Vortex De-Pollution & Recycling Equipment
 WENDT America, Inc.
 Zato North America

OTHER ALUMINUM & STEEL PROCESSING

Accent Wire Tie
 American Suppliers Corp
 Andritz Metal USA, Inc.
 Bateman Manufacturing
 Berkeley Scrap Metal
 Bomac Carts
 Chicago Pneumatic Construction Equip.
 ClearSpan Structures
 Crow Environmental
 DeHart Recycling Equipment, Inc.
 DJS Enterprises, LLC
 Eldan Inc.

Ely Enterprises
 Endura-Veyor, Inc.
 E-Z Crusher/R.M. Johnson Company
 GENSCO America
 Granutech-Saturn Systems
 Helluva Container, Inc.
 Hustler Conveyor Company
 Induction Innovations, Inc.
 J.J. Scheckel Corporation
 Recycling Services Intl, LLC
 Redwave Solutions US, LLC
 Vortex De-Pollution & Recycling Equipment

Auctions

AUCTIONS

DADE Auctions, Inc.
 Rosen Systems
 Myron Bowling Auctioneers
 WorldWide Trade, Scrap & Salvage

Automotive Recycling

BALERS & CRUSHERS

Accent Wire Tie
 Al-Jon by C&C Mfg
 Danieli Centro Recycling
 DJS Enterprises, LLC
 Ely Enterprises
 Equipment International
 E-Z Crusher/R.M. Johnson Company
 GENSCO America
 Imabe of America
 Iron Ax
 LEFORT America
 OverBuilt/OVB Holdings LLC
 Recycling Services Intl, LLC
 S3 Software Solutions
 Sebright Products Inc.
 SEDA Environmental
 SICON America LP
 WENDT America, Inc.
 Vortex De-Pollution & Recycling Equipment
 WorldWide Trade, Scrap & Salvage

SHREDDERS

Andritz Metal USA, Inc.
 GENSCO America
 Komar Industries
 WENDT America, Inc.
 WEIMA America, Inc.

USED FLUID PROCESSING

Fuels360
 GENSCO America
 SEDA Environmental
 WorldWide Trade, Scrap & Salvage

OTHER AUTOMOTIVE RECYCLING

Accent Wire Tie
 American Suppliers Corp
 Amos Manufacturing
 Bateman Manufacturing
 BENLEE, Inc.
 Berkeley Scrap Metal
 Bomac Carts
 Builtrite Manufacturing
 Burco Inc.
 ClearSpan Structures
 CP Group
 Crow Environmental
 DJS Enterprises, LLC
 Equipment International
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 GENSCO America
 Harris Equipment
 Helluva Container, Inc.
 Imabe of America

Induction Innovations
 Interstate Batteries Recycling
 Iron Ax
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 LEFORT America
 Redwave Solutions US, LLC
 S3 Software Solutions
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 SEDA Environmental
 Sibanye-Stillwater Reldan
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 TOMRA Recycling Sorting
 United Catalyst Corporation
 Vortex De-Pollution & Recycling Equipment
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Conveyors

BELTS

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 BEKON Energy Technologies Inc.
 Bunting
 eFactor3
 Ely Enterprises
 Excel Manufacturing, Inc.
 Harris Equipment
 Hustler Conveyor Company
 Maren Balers & Shredders
 Orbcon
 Precision Husky
 Recycling Equipment, Inc.
 Redwave Solutions US, LLC
 Sebright Products Inc.
 Vecoplan
 Warren & Baerg Manufacturing, Inc.
 WENDT America, Inc.

BULK HANDLING EQUIPMENT

Andela Products
 BCA Industries
 Bunting
 CP Group
 Cumberland
 DJS Enterprises, LLC
 Ely Enterprises
 Endura-Veyor, Inc.
 Hallco Industries, Inc.
 Hustler Conveyor Company
 International Baler Corporation
 KEITH Manufacturing Co.
 Maren Balers & Shredders
 Orbcon
 Recycling Equipment, Inc.
 Redwave Solutions US, LLC
 Rotochopper, Inc.
 Vecoplan
 WENDT America, Inc.

PNEUMATIC

Ely Enterprises
 Vecoplan
 Vortex De-Pollution & Recycling Equipment

VIBRATING

Action Vibratory Equipment
 BCA Industries
 Elgin Separation Solutions
 Ely Enterprises
 Engineered Recycling Systems, LLC
 Hustler Conveyor Company
 IFE Material Handling NA Inc.
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OTHER CONVEYORS

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 Baitech Recycling Equipment
 BCA Industries
 Ely Enterprises
 Hallco Industries, Inc.
 Hustler Conveyor Company
 Imabe of America
 International Baler Corporation
 Jones Manufacturing Co.
 Keith Manufacturing Co.
 Precision Husky
 Vecoplan
 Warren & Baerg Manufacturing, Inc.

E-Scrap Processing

AUTOMATED SORTATION

eFactor3
 Eldan Inc.
 Ely Enterprises
 Redwave Solutions US, LLC
 Sibanye-Stillwater Reldan
 SICON America LP
 TOMRA Recycling Sorting
 Van Dyk Recycling Solutions
 WorldWide Trade, Scrap & Salvage

CRT EQUIPMENT (GLASS CUTTING & SEPARATION)

Andela Products
 Orbcon
 Sibanye-Stillwater Reldan
 SICON America LP

SHREDDERS

BCA Industries

OTHER E-SCRAP PROCESSING EQUIPMENT

BCA Industries
 Berkeley Scrap Metal
 Bomac Carts
 ClearSpan Structures
 DJS Enterprises, LLC
 Eldan Inc.
 Elgin Separation Solutions
 Ely Enterprises
 Endura-Veyor, Inc.
 Granutech-Saturn Systems
 Helluva Container, Inc.
 International Baler Corporation
 Komar Industries
 Leadpoint Business Services
 Schutte Hammermill
 Sibanye-Stillwater Reldan
 SICON America LP
 Vecoplan

Glass Processing

CRUSHERS

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 Orbcon
 Sebright Products Inc.
 WorldWide Trade, Scrap & Salvage

PROCESSING PLANTS

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 Redwave Solutions US, LLC
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Continued on Page B2

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Continued from Page A1

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Caterpillar
Mecalac

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Mecalac
Precision Husky
Yokohama TWS

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& Separation****AIR CLASSIFIERS**

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Andela Products
BEKON Energy Technologies Inc.
Danieli Centro Recycling
eFactor3
Ely Enterprises
Orbcon
SICON America LP
Vecoplan

AIR KNIVES

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D&S Manufacturing
Harris Equipment
SICON America LP
Vecoplan

GRAPPLES

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Builrite Manufacturing
Equipment International
GENSCO America
Indeco North America
Iron Ax
Precision Husky
SAS Forks
Terex Fuchs

MAGNETS & MAGNETIC SEPARATORS

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BCA Industries
Bateman Manufacturing
Bunting
Cumberland
Dings Company
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Engineered Recycling Systems, LLC
Equipment International
GENSCO America
Hustler Conveyor Company
IFE Material Handling NA Inc.
Iron Ax
Orbcon
Sennebogen LLC
SICON America LP
Sieb Sales & Engineering, Inc.
Terex Fuchs
Vecoplan
Van Dyk Recycling Solutions
WENDT America, Inc.

OPTICAL SORTERS

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Redwave Solutions US, LLC
SICON America LP
TOMRA Recycling Sorting
Van Dyk Recycling Solutions
WENDT America, Inc.

SCREENS

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BCA Industries
eFactor3
Elgin Separation Solutions
Ely Enterprises
Engineered Recycling Systems, LLC
Hustler Conveyor Company
IFE Material Handling NA Inc.
J.J. Scheckel Corporation
Orbcon
SICON America LP
Vecoplan
Van Dyk Recycling Solutions
WENDT America, Inc.
West Salem Machinery Co.

WEIGHING & HANDLING EQUIPMENT

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

OTHER MATERIAL HANDLING & PROCESSING

Accent Wire Tie
Air-Weigh
Bateman Manufacturing
BENLEE, Inc.
Caterpillar
ClearSpan Structures
DADE Auctions, Inc.
Ely Enterprises
Endura-Veyor, Inc.
E-Pak Manufacturing
Helluva Container, Inc.
International Baler Corporation
Interstate Batteries Recycling
Iron Ax
J.J. Scheckel Corporation
Kenco Corporation
Leadpoint Business Services
Mecalac
Redwave Solutions US, LLC
RUNI Recycling Machinery
Sennebogen LLC
Terex Fuchs
Vecoplan
Yokohama TWS

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Andritz Metal USA, Inc.
Baletech Recycling Equipment
Danieli Centro Recycling
DJS Enterprises, LLC
Ely Enterprises
Engineered Recycling Systems, LLC
GENSCO America
Harris Equipment
International Baler Corporation
Iron Ax
Maren Balers & Shredders
OverBuilt/OVB Holdings LLC
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SEDA Environmental
Vortex De-Pollution & Recycling Equipment
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Bunting
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Eldan Inc.
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Redwave Solutions US, LLC
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Sibanye-Stillwater Reldan
SICON America LP
TOMRA Recycling Sorting
WENDT America, Inc.
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Andritz Metal USA, Inc.
DJS Enterprises, LLC
Sibanye-Stillwater Reldan

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American Cutting Edge
Andritz Metal USA, Inc.
Danieli Centro Recycling

DJS Enterprises, LLC
Ely Enterprises
Equipment International
GENSCO America
Imabe of America
Iron Ax
LEFORT America
SEDA Environmental
Vortex De-Pollution & Recycling Equipment
Zato North America

SWEAT FURNACES

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Recycling Services Intl, LLC

WEAR PARTS

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Sibanye-Stillwater Reldan
SICON America LP
WENDT America, Inc.

OTHER METAL PROCESSING

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Crow Environmental
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DJS Enterprises, LLC
Endura-Veyor, Inc.
Engineered Recycling Systems, LLC
E-Pak Manufacturing
E-Z Crusher/R.M. Johnson Company
Granutech-Saturn Systems
Harris Equipment
Helluva Container, Inc.
Imabe of America
Induction Innovations, Inc.
J.J. Scheckel Corporation
Kenco Corporation
Komar Industries
Leadpoint Business Services
OverBuilt/OVB Holdings LLC
Recycling Services Intl, LLC
Redwave Solutions US, LLC
Sibanye-Stillwater Reldan
Supershear, Inc.
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Recycling Services Intl, LLC
RUNI Recycling Machinery
SICON America LP
WEIMA America, Inc.
Yokohama TWS

SAFETY PRODUCTS

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Recycling Services Intl, LLC

OTHER MISCELLANEOUS

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Andritz Metal USA, Inc.
Caterpillar
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ClearSpan Structures
D&S Manufacturing
Harris Equipment
Equipment International
Induction Innovations
Industrial Netting
Interstate Batteries Recycling
Kenco Corporation
Leadpoint Business Services
Myron Bowling Auctioneers
Recycling Services Intl, LLC
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Bandit Industries, Inc.
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Cumberland
DynaHog
eFactor3
Ely Enterprises
Hogzilla
Indeco North America
Jones Manufacturing Co.
Precision Husky
Rotochopper, Inc.
RUNI Recycling Machinery
Schutte Hammermill
Vecoplan

TUB GRINDERS

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Bandit Industries, Inc.
DynaHog
Hogzilla
Jones Manufacturing Co.
Precision Husky

OTHER ORGANIC PROCESSING

BCA Industries
BEKON Energy Technologies Inc.
ClearSpan Structures
Imabe of America
Komar Industries
Nova Products
West Salem Machinery Co.

Paper Processing**BALERS**

Accent Wire Tie
American Baler Company
Baletech Recycling Equipment
BEKON Energy Technologies Inc.
Ely Enterprises
Excel Manufacturing, Inc.
Harris Equipment
Imabe of America
International Baler Corporation
Maren Balers & Shredders
Recycling Equipment, Inc.
Sebright Products Inc.
SP Industries Inc.
Vecoplan
Van Dyk Recycling Solutions
WorldWide Trade, Scrap & Salvage

BALING WIRE SYSTEMS & SUPPLIES

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Baletech Recycling Equipment
Ely Enterprises
Maren Balers & Shredders

SORTING LINES

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CP Group
Ely Enterprises
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Leadpoint Business Services
Redwave Solutions US, LLC
TOMRA Recycling Sorting
Van Dyk Recycling Solutions

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AMANDUS KAHL
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CP Group
Eldan Inc.
Endura-Veyor, Inc.
Excel Manufacturing, Inc.
Helluva Container, Inc.
Imabe of America
Leadpoint Business Services
RUNI Recycling Machinery
Vecoplan
WEIMA America, Inc.

Plastic Processing**CLEANING SYSTEMS**

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eFactor3
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DENSIFIERS

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

EXTRUDERS & PELLETIZERS

AMANDUS KAHL
American Cutting Edge
eFactor3
Vecoplan

GRANULATORS

American Cutting Edge
ArmorHog
BCA Industries
Cumberland

DynaHog
eFactor3
Ely Enterprises
Granutech-Saturn Systems
Jones Manufacturing Co.
Recycling Equipment, Inc.
Vecoplan
WEIMA America, inc.

MECHANICAL SEPARATION

BEKON Energy Technologies Inc.
Bunting
Ely Enterprises
Imabe of America
Leadpoint Business Services
Redwave Solutions US LLC
RUNI Recycling Machinery
Vecoplan
Van Dyk Recycling Solutions

PERFORATORS

BEKON Energy Technologies Inc.
Sebright Products Inc.

OTHER PLASTIC PROCESSING

Accent Wire Tie
American Baler Company
Baletech Recycling Equipment
BCA Industries
Bomac Carts
ClearSpan Structures
CP Group
Cumberland
eFactor3
Eldan Inc.
Ely Enterprises
Endura-Veyor, Inc.
Granutech-Saturn Systems
Helluva Container, Inc.
Imabe of America
International Baler Corporation
Komar Industries
Leadpoint Business Services
Recycling Equipment, Inc.
RUNI Recycling Machinery
TOMRA Recycling Sorting
Vecoplan
WorldWide Trade, Scrap & Salvage

Services

ALL

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

Tire & Rubber Recycling

BALERS

Accent Wire Tie
Eldan Inc.
Ely Enterprises
E-Z Crusher/R.M. Johnson Company
International Baler Corporation
Maren Balers & Shredders
Sebright Products Inc.
Vortex De-Pollution & Recycling Equipment

GRANULATORS

AMANDUS KAHL
American Cutting Edge
Cumberland
Eldan Inc.
FORNNAX
Granutech-Saturn Systems
SEDA Environmental
Vortex De-Pollution & Recycling Equipment

SHREDDERS

American Cutting Edge
Bandit Industries, Inc.
Barclay Roto-Shred
BEKON Energy Technologies Inc.
Cumberland
eFactor3
Eldan Inc.
Elgin Separation Solutions
Ely Enterprises
FORNNAX
Granutech-Saturn Systems
SEDA Environmental
Vortex De-Pollution & Recycling Equipment
Zato North America

OTHER TIRE & RUBBER RECYCLING

Accent Wire Tie
American Cutting Edge
ArmorHog
Barclay Roto-Shred
BCA Industries
Bomac Carts
DADE Auctions, Inc.
DynaHog
Elgin Separation Solutions
Ely Enterprises
E-Z Crusher/R.M. Johnson Company

GENSCO America
Granutech-Saturn Systems
Hogzilla
Hustler Conveyor Company
Induction Innovations, Inc.
S3 Software Solutions
WorldWide Trade, Scrap & Salvage

Trucking Equipment & Transportation

CRUSHED CAR HAULERS

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E-Pak Manufacturing
Industrial Netting
WorldWide Trade, Scrap & Salvage

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Van Dyk designs, installs and services complete systems for the North American waste processor and recycler. Markets include single stream, dual stream, commercial waste, C&D, mixed waste, plastics sorting, glass cleanup, waste-to-fuel, e-scrap, and the industry's #1 high-volume baler.

**VECOPLAN**

501 Gallimore Dairy Road
Greensboro, NC 27409
336-861-6070
www.vecoplanllc.com
info.us@vecoplan.com

With a legacy spanning decades, Vecoplan stands at the forefront of innovation, offering cutting-edge technologies that revolutionize the waste and recycling industry. From shredders and granulators to conveying and sorting systems, Vecoplan's tailored equipment and systems redefine industry standards, meeting the needs of even the most demanding applications.

**VORTEX DE-POLLUTION & RECYCLING EQUIPMENT**

12445 E. 39th Avenue, Ste. 510
Denver, CO 80239
303-900-4040
www.vortexdepollution.com
nigel@vortexdepollution.com

Vortex is both a manufacturer of vehicle depollution draining systems for scrap vehicles and a distributor of scrap metal processing equipment serving the American market. We provide equipment to process every aspect of recycling a vehicle and equipment for processing both ferrous and non ferrous scrap metal for further recycling.

TOMRA RECYCLING SORTING

3101 Yorkmont Road, Suite 400
Charlotte, NC 28208
800-677-8396
www.tomra.com
recycling.us@tomra.com

**WENDT CORPORATION**

2555 Walden Avenue
Buffalo, NY 14225
716-391-1200
www.wendtcorp.com
sales@wendtcorp.com

For nearly 50 years, WENDT has been a solutions provider in the shredding and sorting of ferrous and non-ferrous metals. With an extensive and focused portfolio of scrap processing solutions, WENDT combines equipment, proven processes, and the best-available-technology from around the world to provide our customers with a competitive edge.

WORLDWIDE TRADE, SCRAP & SALVAGE

44 East Ave 4803
Austin, TX 78701
310-925-8421
www.worldwidetradescrapmetal.com
gary.stein11@verizon.net

**YARDSMART**

5111 Old Midlothian Pike
Richmond, VA 23224
804-614-4006
www.yardsmartapp.com
info@yardsmart.com



North America

ZATO NORTH AMERICA

1676 Petersburg Rd
Hebron, KY 41048
945-261-7916
www.zatonorthamerica.com
sales@zatonorthamerica.com

Zato, with over 20 years of experience, manufactures high-quality metal recycling equipment, including shears, rotary shears, shredders and separation lines. We offer comprehensive 24/7 support from our office in Kentucky, from design to post-installation, ensuring optimal performance and long-term success with local spare parts availability and remote assistance.

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