



American Recycler

NewsVoice of Salvage, Waste and Recycling

AmericanRecycler.com

FOCUS: RUBBER

Rubber recycling



WHAT'S INSIDE

- Business Briefs..... A15
- Classified Advertisements A15
- Scrap Metals Market Watch... A10
- Equipment SpotlightB4

- Ohio EPA awards grants for environmental education Page A2
- Lawsuit filed challenging attack on clean vehicles program Page A6
- Metallix Refining launches APR4 – Advanced Pyrolytic Reduction Page A10
- Greif enters agreement to sell containerboard business Page A12

The evolution of innovative municipal composting program initiatives

by MAURA KELLER

mkeller@americanrecycler.com

When organic waste is landfilled, it can impact public health and the environment by releasing methane, a harmful gas that contributes to climate change. Recycling or composting organic waste releases carbon dioxide instead, which is a far less potent greenhouse gas. Because of this, municipalities across the U.S. are jumping on the proverbial composting bandwagon and creating innovative composting programs for residents and businesses alike.

“If we look back to just 20 to 30 years ago, municipal composting programs consisted primarily of leaf and yard waste only, and they were more just ‘decomposing piles’ versus actual active aerated composting processes,” said Brian Fleury, executive vice president, North Division at Denali, the largest organic recycling company in the U.S. “These programs have become much more sophisticated as the industry and the number of feedstocks, or food waste, used to make compost, have grown.”

Today, there are still municipalities that manage their own composting operations, but many have moved to a public-private partnership (PPP) model, which means they hire companies with expertise in composting management, to operate their facility, for a variety of reasons.

As Fleury explained, most of the municipal composting operations that have gone to the PPP model have done so due to the need to have a partner to market the end-product(s), which includes compost, mulch and compost-amended soils.

“In those earlier years when participation and volumes were lower, many sites had sufficient space to store the annual volumes of incoming material and primarily used the ‘compost’ (decomposed yard waste), for their own DPW/DOT needs and also gave a good amount away for free to whoever would take it,” Fleury said. “As composting has grown in popularity, many municipalities have moved toward the PPP model, and they have seen the benefit of having professional organizations run their sites and market their finished products.”

Tim Steckel, founder of the Compost Marketing Agency, said today’s municipal composting programs typically take the form of organic waste drop-off stations, curbside pick-up and/or subsidizing backyard composting for residents.

“Opt-in programs are often used to launch a new program,” Steckel said. “It takes time to educate residents about composting and organics recycling.”



Municipalities across the U.S. are jumping on the proverbial composting bandwagon and creating innovative composting programs for residents and businesses alike.

Municipal composting operations have a positive effect on job creation, as shown in a report from the Institute for Local Self-Reliance, titled “Composting makes Sense: Jobs through Composting & Compost Use (<https://ilsr.org/articles/composting-sense-tables/>)”

For example, composting facilities in Maryland employ 4.1 full time equivalent jobs per 10,000 tons of material composted. In comparison, landfills employ 2.1 jobs and incinerators just 1.2 jobs per 10,000 tons per year.

“On a per-ton basis, composting sustains about four times more jobs than landfilling or incineration. For every \$10 million invested, composting supports twice as many jobs as landfills and 17 more jobs than incinerators. And smaller composting operations create even more jobs per ton: small-scale facilities employ 13.6 jobs per 10,000 tons, medium-sized 5.9 jobs, and large sites 2.8 jobs per 10,000 tons” Steckel said. “Given that many municipalities contract their compost operation to a recycling company, these programs create lots of opportunities for recycling companies.”

The City of Arcata is a solid example of how smaller towns are initiating composting throughout their community. Arcata is a city of about 20,000 residents on California’s north coast and its eco-friendly practices are of particular importance to the municipality and community.

Given the small size of Arcata, it’s difficult to manage a composting program internally. Instead, the city partners with local organizations like Full Cycle Compost, that picks up compost from locations all throughout the community and uses special bicycle setups to bring

it back to their headquarters and Local Worm Guy, which takes food scraps from homes and local businesses to feed their worms and then sell the worm manure as compost.

As the municipality of Arcata is in California, it is also subject to SB 1383, which requires organics composting for all residents. SB 1383’s goal is to reduce organics waste landfill disposal by 75 percent (from 2014 levels) by 2025. This means diverting more than 20 million tons from landfills. The legislation also aims to slow climate change by diverting organic materials from landfills, recovering 20 percent of edible food and redirecting it to food-insecure Californians.

On a larger scale, New York City currently offers curbside composting to all residents citywide. Also, NYC residents are now required to separate food scraps, food-soiled paper, or yard waste from trash. As of April 1, 2025, property owners may receive a fine if compostable material is not separated from trash.

“Composting has been very successful here in the Borough of Queens and throughout NYC,” said Queens Borough president, Donovan Richards, Jr. “Curbside composting was instituted in Queens as a pilot program in the summer of 2022. During the first three months of that pilot a total of 12.7 million pounds of compostable material was collected in Queens. The success of this pilot helped convince city officials to offer curbside composting collection citywide, and to make the separation of compostable material from other trash mandatory.”

Now that curbside composting is offered citywide, the New York City region is experiencing continued success.

See MUNICIPAL COMPOSTING, Page A4

PRSRVT STD
U.S. Postage
PAID
Columbia, MO
Permit No. 353

8.2025

CHANGE SERVICE REQUESTED

American Recycler

28300 KENSINGTON LANE, STE 500
PERRYSBURG, OH 43051

Ohio EPA awards grants for environmental education

Across the state, Ohio EPA is putting money into the hands of schools, businesses and environmental altruists. From improving water quality and developing virtual networks, to hazardous air pollution training and enhancing nature restoration efforts, 18 recipients are ready to create and execute engaging projects that will capture the imagination and educate Ohioans with how to be the best Buckeye environmental stewards possible.

Following are some of the larger grant recipients of Ohio EPA's Environmental Education Fund (OEEF) grants:

- Water Management Association of Ohio, Watershed Division, is receiving \$50,000 for its "MS4 Bootcamp On Demand" project that will create a series of six on-demand videos to improve water quality in local waterbodies and downstream lakes and rivers benefiting surrounding communities. The videos will advance the regulated community's understanding and compliance with stormwater regulations.
- Cleveland Museum of Natural History is receiving \$49,936 to undertake ecological restoration activities throughout its system of nature preserves. The project will work with the regulated community in ecological restoration efforts adjacent to Mentor Marsh and will raise public awareness through seven volunteer restoration events and establish interpretive signage at three publicly accessible preserves.
- Wright State University is receiving \$49,895 for the "Futures in Chemistry: Empowering Young Minds in Electrochemical Detection of Heavy Metals for Water" program that will teach high school students how to use advanced instrumentation to detect heavy metals in water and the importance of water quality monitoring. Students will gain hands-on experience in environmental testing and data analysis, engaging them to consider STEM careers.

- Ohio State University – Environment and Natural Resources is receiving \$35,320 to develop a virtual networking platform through the Environmental Professionals Network for the regulated community, environmental professionals and people interested in STEM careers. The project will enhance the existing Environmental Career Ambassadors program. In addition, funds will directly support a day-long training and networking event with educators and ECA members at Columbus City School's Spruce Run Nature Center.
- Groundwork Ohio River Valley is receiving \$30,100 to train approximately 150 youth and area residents on the history and hazards of air pollution through hands-on educational activities such as constructing an air quality monitor and biking along a mobile air quality route.
- Delaware City Schools – Hayes High School is receiving \$21,823 for the Hayes Outdoor Learning Lab. Students will design and create seven habitat areas in the lab to be populated with native plants through research and coordination with environmental professionals. The outdoor learning space will allow students and the community to learn about pollinator spaces, expand prairies, and enhance conservation corridors, including city parks and four native plant nurseries.
- Shelby Soil and Water Conservation District is receiving \$19,250 to educate students, the public and the regulated community on watersheds with an augmented reality sandbox. Community members will learn how topography and rainfall affects non-point source pollution and erosion, and how it all relates to the topography, land use, and water quality within the county and beyond at community events, including the Shelby County Ag Night and Shelby SWCD field days.

Maryland Governor signs packaging EPR law

Following a years-long collaborative process supported by AMERIPEN and their partners across the packaging value chain, the association commended Maryland Governor Wes Moore's signing of SB 901 into law. Maryland is now the sixth U.S. state to adopt a Packaging Extended Producer Responsibility (EPR) law. This legislation sets the stage for modernized recovery and recycling systems that will support Maryland's circular economy and environmental stewardship.

AMERIPEN played a central role in the development of SB 901, providing expert guidance over several years of policy discussions, supporting the groundwork laid by SB 222 in 2023 and helping to align the bill with key advancements found in Minnesota's 2024 EPR law. The result is a collaborative, data-informed approach that will deliver meaningful environmental

outcomes while remaining efficient and achievable.

The new law is the culmination of extensive stakeholder engagement in collaboration with Senator Malcolm Augustine and a bipartisan group of policymakers. SB 901 incorporates consistent, modern EPR principles, including shared funding responsibilities, aligned key definitions, and a producer-led Producer Responsibility Organization (PRO).

"This new system aligns incentives for all stakeholders to create an economically efficient, environmentally responsible, circular system of managing packaging and paper materials, said Maryland Senator Malcolm Augustine."

Packaging plays a vital role in protecting products and minimizing waste, and Maryland's new law recognizes that its recovery is a shared responsibility.

U-PULL-IT? U-PROFIT! with

SELF-SERVICE AUTO RECYCLING SYSTEM
CRUSH™

SIMPLIFY SEARCHES and INCREASE PROFITS

- **Integrated interchange with online option:** Increase sales as buyers easily locate parts within your inventory
- **Online vehicle photos:** Easily post inventory at your website and increase on-site buyers
- **Track scrap & commodity sales**
- **Save \$\$\$\$ in NMVTIS Submissions**
- **Buying Tool:** buy autos with Cloud-based, optimal accuracy and pricing, using custom metrics, connected directly to your Crush Data Base
- **Credit card surcharge:** Fully integrated, percentage based and automatically added to invoice
- **Vehicle purchasing, scanning, yard tracking & search features**
- **Daily management reports**

SEE DEMOS at our WEBSITE!

**We offer
URG Core
Integration
for an added
revenue
stream!**

**Ask about our
DATASAFE
DISASTER
RECOVERY
product**



Software Solutions

**801.355.3388
s3softwaresolutions.com**



Recycling Challenges? Consider Them Solved.

Struggling with bulky or mixed materials? Vecoplan shredders handle plastics, textiles, and more with ease.

- Built for continuous operation
- Quick maintenance access
- Handles rigid and flexible materials

From stand-alone machines to complete recycling systems, Vecoplan ensures optimal operations at every step.

Sales | Installations | Parts & Service

Vecoplan[®]

Talk to an expert today – (336) 743-0195 | vecoplanllc.com  

Municipal Composting

■ Continued from Page A1

For example, during the week of May 18 through 24, 2025, NYC collected a record breaking 5.4 million pounds of compostable material.

“With environmental problems continuing to mount both globally and locally, we need composting programs in place and to remain in place,” Richards said. “I hope other cities follow NYC’s lead by instituting their own mandatory composting programs, and I expect that many will once they understand the environmental and cost benefits.”

Challenges of Municipal Programs

These types of contracts can be beneficial to both the municipality and the company that helps to process the waste into compost – however, Fleury said the most successful partnerships must include a win-win contractual arrangement that is viewed as a true partnership.

Another challenge Denali faces is education – the success of municipal programs hinge on business and resident participation.

“And when they don’t know that these programs exist or how to participate, they can’t and don’t,” Fleury said.

Denali provides services to collect all types of food waste for businesses such as grocery stores, food distribution centers, and food manufacturing facilities, transports it to a composting facility and transforms the unconsumable food into compost and other soil amendments.

“We have seen growth in this area as more businesses learn about this service and establish their own sustainability goals,” Fleury said. “We know that education will continue to be extremely important to the success of such programs.”

Generally, residents and business owners are fairly responsive and excited about these programs – but it takes outreach, education, and time to help business owners and residents gain interest, learn how to participate and ultimately, take action and participate.

Fleury stressed that it is important to make these programs easy to participate in as well. Overall, Fleury said interest and participation levels continue to grow. In the Northeast and West Coast, regulations to eliminate food waste have helped these programs to grow considerably and give businesses and residents more incentives to participate.

Of course, contamination is another big issue facing today’s municipal composting programs and it continues to be an ongoing challenge.

“Even in municipalities with decades-long programs, contamination happens. Up to 23 percent of the cost for operations is spent on contamination removal,” Steckel said. “Another challenge is the acceptance of compostable packaging. Every composting facility decides, based on their process and context, on whether or not they will accept these materials.”

Growth Potential

Where there are state or local regulations on green waste and food waste recycling, there is more opportunity for recycling companies to enter the market. As volume/tonnages grow for a municipality, more vehicles are required to collect and



transport the organic materials to various processing technologies and facilities.

In addition, as Fleury pointed out, many cities are working to combat how much food waste reaches landfills, (which according to the USDA, is about 30 to 40 percent of our food supply today), where it emits methane as it breaks down. Methane is a greenhouse gas that is about 28 times as potent as carbon dioxide at trapping heat in the atmosphere.

“These types of programs and technologies enable cities to enhance their sustainability efforts and lean into the “green movement” (i.e., carbon/methane reduction, food waste reduction, recycling increases, etc.) which is inspiring other municipalities/cities/towns to

consider similar programs,” Fleury said.

Over the last three decades, Denali has seen consistent growth with municipal composting programs, and the company expects this trend will continue.

“This growth is similar to what we experienced in the previous three decades with MRF recycling for paper, plastic, glass and aluminum,” Fleury said. “Local regulations and education play important roles in fueling the growth of this work and the ability to scale municipal composting programs. We continue to invest in education surrounding these programs, so this is just the beginning, and the more companies, residents and regulators we have on board, the stronger impact we can have.”



CUT THE SCRAP!™

ANDRITZ



CUT YOUR COST! BUY DIRECT

WE HAVE
BLADES FOR
YOUR SHEARS
OR BALERS

- 100% Made In USA In our South Carolina Plant
- 200 Different Knife Models Always IN STOCK
- Superior Customer Service
- Buy Complete Kit or Individual Knives
- Volume Pricing Programs
- Rapid Response™ Custom Knife Design
- Registered to ISO 9001:2015

CALL US TODAY | 877-937-2756 | asko.scrap@andritz.com

American Recycler
NewsVoice of Salvage, Waste and Recycling

877-777-0043 | Fax 419-931-0740

Owner, Publisher and Editor

ESTHER G. FOURNIER
news@AmericanRecycler.com

Print and Digital Production

JAN MEYER
jan@AmericanRecycler.com

Marketing Representatives

MARY M. THORNTON
maryt@AmericanRecycler.com
JAN MEYER
jan@AmericanRecycler.com

Circulation Manager

DONNA L. MCMANUS
news@AmericanRecycler.com

Writers and Contributors

MAURA KELLER
mkeller@AmericanRecycler.com
MARY M. THORNTON
maryt@AmericanRecycler.com

Production Offices

28300 Kensington Ln, Ste 500
Perrysburg, OH 43551
877-777-0043 | fax 419-931-0740
AmericanRecycler.com

American Recycler is published 12 times per year, postage paid at Columbia, Missouri.

SUBSCRIPTIONS: Call our offices at 877-777-0043 or visit AmericanRecycler.com. US 1 year \$58; 2 years \$89.

© 2025 by American Recycler News, Inc. All rights are strictly reserved and reproduction in whole or in part is prohibited without prior written permission from the publisher.

Submission of articles, artwork and all photography must be accompanied by a self-addressed stamped envelope if a return of materials is wanted. Byline contributors’ views should not be construed as representing the opinion of the publisher.

American Recycler reserves the right to edit any and all material submitted for publication. All Letters to the Editor must be signed and include a telephone number for verification. The editor of this publication does not accept responsibility for statements made by advertisers herein.

BUSINESSES FOR SALE!

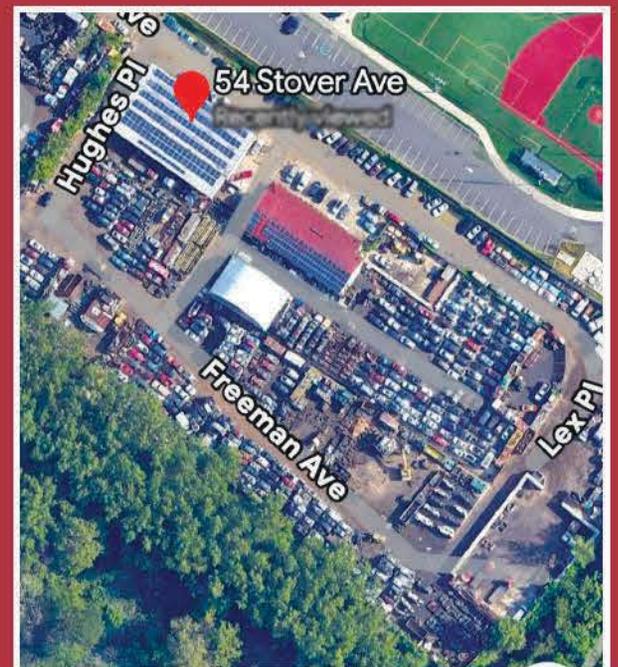
BIB'S AUTO PARTS

First time
for sale
in
72 Years!

Second generation, family owned 5 acre auto recycling company/auto parts and auto dealer in Hudson County NJ: This is a golden opportunity to own a decades-long turnkey businesses in a densely populated area of NJ. Located in close proximity to Port Newark, Newark airport, Rt 280, Rt 21, Holland Tunnel and GWB, providing high demand for industrial space. Licenses and property uses are grandfathered. This is an extremely unique possibility to own a large volume, high processing facility. Business purchase is separate from land and occupancy lease.

Lease would consist of 5 acres with a truck scale as well as two, 8,000 sq. ft. buildings. The first building includes 3 offices, 1 bathroom, 2 story storage and a repair shop. The second building includes a large main office, 3 private offices, 2 bathrooms, large storage area and a workshop.

The entire property is paved. There are multiple, covered, outdoor, work stations as well as large inventory/storage areas. Fully gated with 24 hour camera surveillance.



Also included...3 Million + IN EXISTING INVENTORY, MACHINERY (WHOLE CARS, CRUSHED CARS and PARTS) and ASSETS: FLATBEDS, CRANE, CRUSHER, FORKLIFTS, WHEEL LOADERS and MORE!



Contact Jessica Hodnett 201-725-7060 DreamCarSalesNJ@gmail.com

BIBBS AUTO RECYCLING / BIB'S AUTO PARTS

54 Stover Avenue, Kearny NJ 07032

www.bibbscash4cars.com

AUTOMOTIVE

Lawsuit filed challenging attack on clean vehicles program

New Jersey Attorney General Matthew J. Platkin joined a coalition of 11 attorneys general in suing the federal government to challenge the use of the Congressional Review Act (CRA) to disapprove state Advanced Clean Cars II (ACCII), Omnibus, and Advanced Clean Trucks (ACT) standards, which California had issued under the Clean Air Act and New Jersey subsequently adopted.

The lawsuit challenges the federal government's decision to break basic procedural norms in order to shut down state clean energy policies. Waivers under the Clean Air Act, which allows for California and other States to adopt their own clear air rules, have never been subject to the CRA nor have any other agency orders that adjudicate requests for permission – such as oil and gas leases or mining permits. The actions taken here contradict the nonpartisan Government Accountability Office and Senate Parliamentarian, who both determined that the CRA's process to disapprove federal regulations does not apply to these waivers.

“The federal government is breaking basic procedural rules in a misguided effort to pollute our air and hurt the public health of our residents,” said Platkin. “Revoking state vehicle emissions standards is illegal, and it is yet another way that the Trump Administration is violating the law to target states it disfavors. We will not stand by as the health of our residents is targeted by this Administration and its enablers in Congress. We will see them in court.”

The Clean Air Act requires the EPA to set federal emission standards for air pollutants from new motor vehicles or new motor vehicle engines that cause or contribute to air pollution that endangers public health or welfare. The Clean Air Act allows California to adopt more stringent emission requirements independent from EPA's regulations, because California had vehicle emissions standards before the passage of the federal Clean Air Act. California can enforce these standards with an EPA preemption waiver.

Once EPA grants California a waiver, other States may adopt California's standards and do not need a waiver of their own. Since 2023, the EPA granted California three waivers, allowing it to enforce the ACC II, Omnibus and ACT standards

in California. Historically, EPA, under both Democratic and Republican administrations, has granted California more than 75 preemption waivers for updates to the State's new motor vehicle emissions control program. As Congress intended, these waivers have allowed California, and those states that adopted California's standards, to improve on their vehicle emissions programs.

Under the state rules at issue (known as ACCII and ACT), which New Jersey adopted in 2023 and 2021, automakers must continue to sell an increasing number of zero emission vehicles — as they have been for decades. By model year 2035, 80 percent of the passenger vehicles sold in New Jersey must be zero emission, while the remaining 20 percent may be plug-in hybrids. The Advanced Clean Truck regulations aim to accelerate the widespread adoption of zero emission vehicles in the medium and heavy duty truck sector, and are critical to New Jersey's efforts to meet air quality standards and protect public health. The Omnibus regulation requires internal combustion heavy-duty trucks sold in New Jersey to meet strict standards for oxides of nitrogen (NOx) emissions, which are major contributors to smog formation.

The EPA transmitted these California waivers to Congress in an attempt to invoke the CRA, even though EPA's under both Republican and Democratic administrations – and the nonpartisan Government Accountability Office and Senate Parliamentarian – all agree that these waiver decisions are not “rules” that can be reviewed under the CRA. But despite this consensus, the Republican-controlled U.S. House of Representatives and the Senate used the CRA to target California's Clean Air Act waivers.

The complaint filed alleges that the attempt to invalidate California's waivers violated constitutional principles of federalism and separation of powers, the Take Care Clause, and multiple federal statutes including the Congressional Review Act and Administrative Procedure Act. The complaint asks the court to declare the resolutions to be unlawful and to require the Administration to implement the Clean Air Act consistent with the granted waivers.

Steel Dynamics honored with Award for Sustainability

Steel Dynamics, Inc. announced that Volkswagen Group recognized Steel Dynamics with a Volkswagen Group Award for Sustainability. Steel Dynamics was recognized for its proactive sustainability efforts, including low-carbon steel production and circular economy practices.

“We value the long-term collaboration with Volkswagen Group and are proud to be recognized for our sustainability leadership,” said Mark D. Millett, chairman

and chief executive officer. “Our culture encourages our teams to create innovative solutions to increase efficiencies and promote material conservation and recycling. This recognition is due to our team's extraordinary drive, innovation and commitment to excellence.”

The Volkswagen Group Awards recognized outstanding performance and long term collaboration within their supplier network across 10 strategic categories.

Three legendary brands combine to create an unmatched partner.

HARRIS AMERICAN

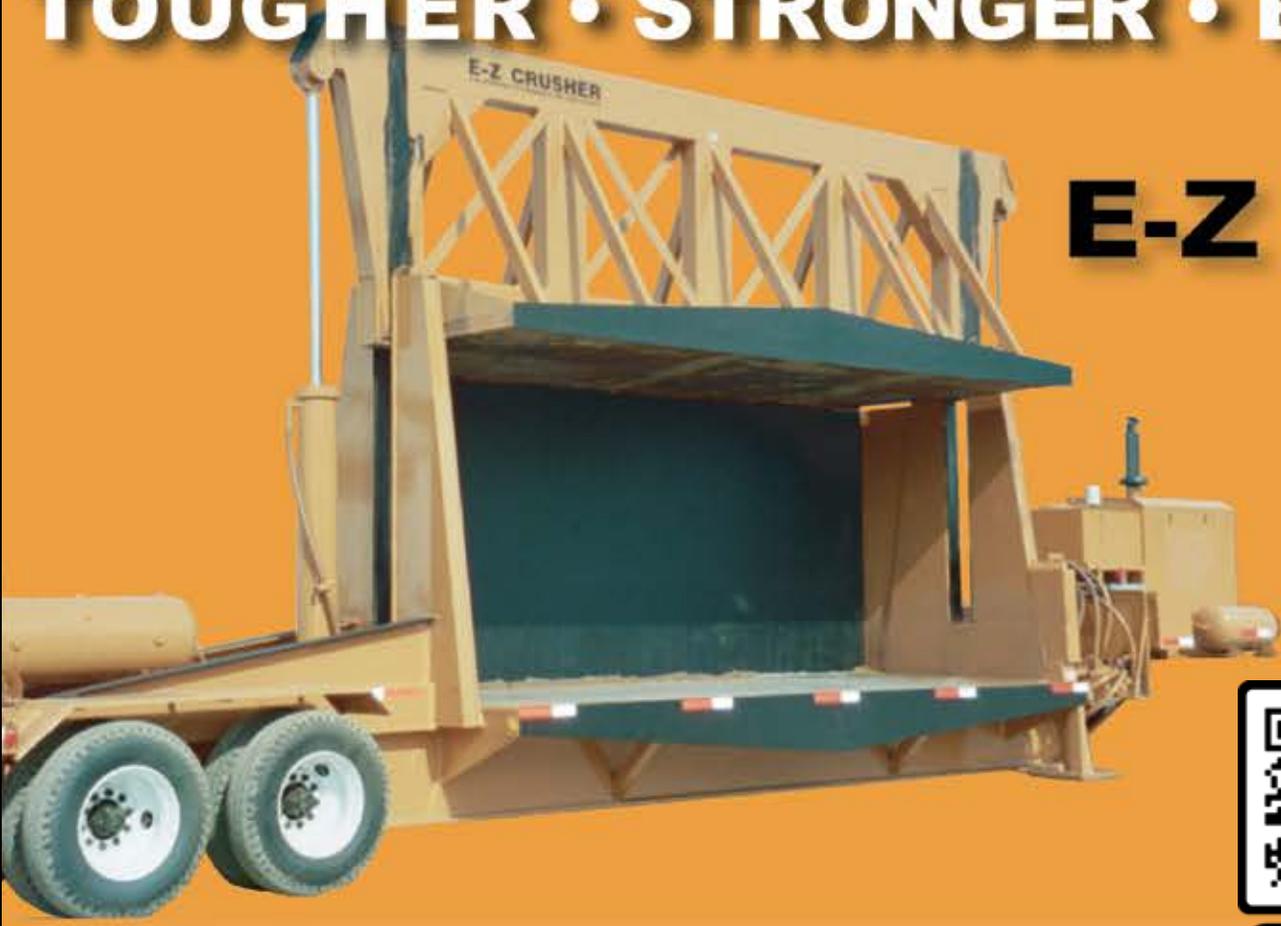
HA

BEYOND THE EXPECTED

HarrisAmericanCo.com

Become our  friend and save \$5,000 on all in-stock equipment!
Fully optioned \$223,000 – with  discount \$218,000

TOUGHER • STRONGER • BUILT TO LAST



E-Z Crusher A+

SPECIFICATIONS

Opening:

Length	20'
Width	7'8"
Height	8'1"

Overall:

Length	40'
Weight	61,000 lbs.
Height	13'3"

Hydraulics:

Pressure	2,400 psi
Port Reliefs	2,600 psi
Cycle Time	48 Seconds
Cylinders	10" Bore
Travel	72"
Shaft	4" Rod



 SCAN ME

The E-Z A+ is for the most demanding crushing jobs.

These crushers are solidly built and dependable with a unique hydraulic system that gives you maximum power when you need it the most.

The hydraulic cylinders are uniquely mounted on the bottom deck of the unit. This means the hydraulic cylinders "pull" rather than "push" the crusher deck down. This puts less stress on the machine. At the point of greatest resistance, the cylinder is at its strongest position

Each cylinder can be operated independently, providing more leverage and maneuverability. The pressure is adjustable - you have a safety relief valve built into each cylinder, preventing possible damage to the cylinder.

Simple Design - Easy To Operate

For the past 51 years, R.M. Johnson Company has fine-tuned the design of E-Z CRUSHERS. All the E-Z CRUSHERS use standard parts and components - valves, pumps, and hydraulic parts. All parts (and machine work needs) are available at the R.M. Johnson Company plant. And you buy only the part you need, not the entire assembly.

All models can be portable or stationary.

SUPPORT

Our technicians will give you a full demonstration of the E-Z CRUSHER, and will train your operators how to use it.

Included Features:

- John Deere Power Plant
- Remote Automation
- Hydraulic Outriggers
- Air Compressor
- Advanced Hydraulic Oil Filtration



800-328-3613 | 320-274-3594
EZCrusher.com | davev@ezcrusher.com

R.M. Johnson Co. Annandale, Minnesota



THE EQUIPMENT MARKETPLACE
FOR SALVAGE, RECYCLING & WASTE

CONNECTING

WITH EXCEPTIONAL CUSTOMER SERVICE,
COMPLETE TRANSPARENCY & BETTER RESULTS



2017 HAMMEL VB 950 DK MOBILE SHREDDER
TONS OF SPARE PARTS INCLUDING A NEW SET OF ROTORS!



2020 SIERRA 715 SLK PORTABLE SHEAR BALER
715 TON CUTTING FORCE. REMOTE CONTROL. WELL MAINTAINED!



2017 ZB GROUP 1519 HAMMERMILL SHREDDER
765HP MOTOR. 220LB HAMMERS. RUNNING EVERY DAY!



2020 CASE CX145DSR EXCAVATOR WITH BUCKET
ONLY 800 HOURS! RUNS WELL. A/C AND HEAT.



2004 HAMMEL 950DK PORTABLE PRIMARY SHREDDER
IN USE AND CAN BE DEMO'D. NEW MOTOR IN 2022.



LAMB 36X48 HAMMERMILL SHREDDER LINE
325HP. GREAT SYSTEM TO GET YOU INTO SHREDDING!



GM 3,500HP EMD ENGINE WITH SHEAVE SYSTEM
READY TO POWER YOUR SHREDDER! COMPLETE SYSTEM!



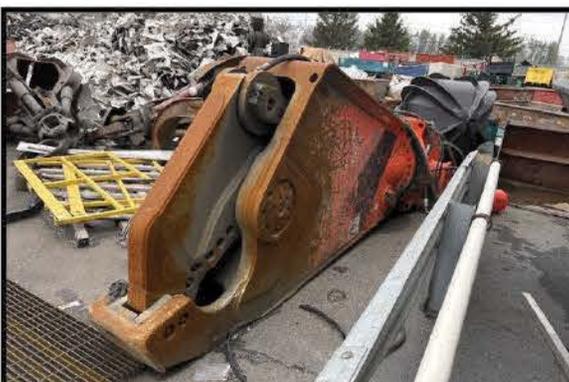
2013 TANA SHARK 440DT MOBILE SHREDDER
TONS OF SPARE PARTS INCLUDED! RUNS AND SHREDS WELL.



1989 SSI PORTABLE HOOK SHEAR SHREDDER
430HP MOTOR. DUAL SHAFT. 45"X75" CHAMBER.



2005 LABOUNTY MSD 15R SHEAR ATTACHMENT
REMOVED FROM VOLVO EC140. SMALL LEAK IN ROTATOR, GOOD KNIVES



2018 SHEARCORE FORTRESS FS45R ROTATING SHEAR
28 INCH JAW OPENING. GOOD CONDITION, HASN'T SEEN MUCH USE.



2012 DOPPSTADT SM 414 PORTABLE SCREENER
ONLY 340 HOURS! GOOD WORKING ORDER AS OF JANUARY 2025

Sell your equipment with us. Call 844-333-3030 today!

BUYERS WITH SELLERS

See all equipment at www.DADEauctions.com



2023 3TEK BRAVO 6280 MOBILE SHREDDING SYSTEM
COMPLETE INCLUDING DOWNSTREAM SEPARATION SYSTEMS!



2023 BONFIGLIOLI SQUALO 3000 INCLINE SHEAR
DIESEL POWERED! 2200 TON SHEAR FORCE. CAN BE SEEN RUNNING



2024 TEREX/ECOTEC TMS320 MOBILE SEPARATOR
ALL-IN-ONE MOBILE METAL SORTING SYSTEM!



2017 CASE 721G WHEELED LOADER
ARTICULATING. GOOD WORKING MACHINE. COMES W CAR FORKS.



2018 E-Z CRUSHER LOG BALER MODEL 5
LOW HOURS! WELL MAINTAINED AND READY TO WORK!



2009 HAMMEL VB 750 DK MOBILE SHREDDER
350HP CAT DIESEL. CAN BE DEMONSTRATED!



2020 FORD F550 XL ROLLBACK TRUCK
ONLY 70,000 MILES! CHEVRON BED.



1974 MAC CAR CRUSHER
IN WORKING ORDER. READY TO START CRUSHING!



AMERICAN PULVERIZER MODEL 22 HAMMERMILL
100HP. 22" DISC ROTOR. 3/4" SCREENS. FEED CONVEYOR.



2021 GENESIS 555R ROTATING SHEAR
APPROX. 1200 HOURS OF USE. NEW KNIVES JUST INSTALLED!



THE EQUIPMENT MARKETPLACE
FOR SALVAGE, RECYCLING & WASTE

Call Dade Auctions.
Why settle for less?

844.333.3030

www.DADEauctions.com



Financing available at www.DADEcapital.com

METALS

Crude steel production drops

World crude steel production for the 70 countries reporting to the World Steel Association (worldsteel) was 158.8 million tonnes (Mt) in May 2025, a 3.8 percent decrease compared to May 2024.

Crude steel production by region

Africa produced 1.9 Mt in May 2025, up 5.5 percent on May 2024. Asia and Oceania produced 116.6 Mt, down 4.7 percent. The EU (27) produced 11.4 Mt, down 3.1 percent. Europe, Other produced 3.6 Mt, down 8.8 percent. The Middle East produced 5.4 Mt, up 5.3 percent. North America produced 9.5 Mt, up 3.4 percent. Russia & other CIS + Ukraine produced 7.0 Mt, down

8.1 percent. South America produced 3.4 Mt, up 4.2 percent.

Top 10 steel-producing countries

China produced 86.6 Mt in May 2025, down 6.9 percent on May 2024. India produced 13.5 Mt, up 9.7 percent. Japan produced 6.8 Mt, down 4.7 percent. The United States produced 7.0 Mt, up 1.7 percent. Russia is estimated to have produced 5.8 Mt, down 6.9 percent. South Korea produced 5.1 Mt, down 1.7 percent. Turkey produced 3.1 Mt, down 2.8 percent. Germany produced 3.0 Mt, down 6.4 percent. Iran is estimated to have produced 3.4 Mt, up 4.5 percent. Brazil produced 2.7 Mt, up 5.0 percent.

Top steel-producing countries

	Mar 2025 (Mt)	% change Mar 25/24	Jan-Mar 2025 (Mt)	% change Jan-Mar 25/24
China	86.6	-6.9	431.6	-1.7
India	13.5	9.7	67.2	8.2
Japan	6.8	-4.7	33.8	-5.2
United States	7.0	1.7	33.4	0.3
Russia	5.8 e	-6.9	29.2	-5.2
South Korea	5.1	-1.7	25.6	-3.0
Turkey	3.1	-2.8	15.4	-1.4
Germany	3.0	-6.4	14.4	-10.8
Iran	3.4 e	4.5	14.0	-5.3
Brazil	2.7	5.0	13.7	0.7

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

Metallix Refining launches APR4 – Advanced Pyrolytic Reduction

Metallix Refining, a leader in precious metal recycling, announced the launch of its latest innovation: APR4 – Advanced Pyrolytic Reduction. Building on the proven success of the APR3 furnace, APR4 marks a significant leap forward in engineering, sustainability and operational excellence.

Developed by Metallix’s expert processing engineers and technical specialists, APR3 and APR4 represent the next generation of the company’s proprietary Advanced Pyrolytic Reduction technology. These systems feature two oxygen starved, continuously fed furnaces that thermally decompose materials in a controlled environment using indirect heat, enabling the safe and efficient processing of organic materials while minimizing environmental impact.

With enhanced processing controls and a revolutionary air pollution control system, APR4 sets a new benchmark in precision and environmental responsibility for precious metal recovery.

“At Metallix, innovation is our driving force,” said Maria Piastre, chief executive officer of Metallix Refining. “The APR4 is designed to process an unprecedented range of precious metal-bearing materials – gold, silver, platinum, palladium, rhodium, and iridium – from even the most complex and challenging waste streams. APR3 and APR4 are purpose-built innovations designed for the future of recycling.”

As with all Metallix systems, APR4 is engineered around the company’s core pillars of sustainability, safety, and value recovery. Featuring advanced automation, APR4 reduces the need for manual intervention, minimizing exposure to hazardous materials and enhancing operational safety. Proprietary sensors and real-time data analytics enable continuous performance monitoring and optimization – improving energy efficiency, reducing emissions, and supporting Metallix’s commitment to a circular, sustainable economy.

Steel Dynamics makes senior leadership transitions

Steel Dynamics, Inc. announced operational senior leadership transitions for Glenn Pushis and Miguel Alvarez.

Glenn Pushis will be retiring from Steel Dynamics effective October 1, 2025, to pursue a position as the chief executive officer of McBride Capital Partners “Project Aero”, a U.S. based company that plans to construct a titanium manufacturing facility in North Carolina. Post October 1, 2025, he will continue to provide consulting services to Steel Dynamics through commissioning of the company’s new aluminum flat rolled facilities during the year.

Pushis joined Steel Dynamics in 1994. Most recently, he was responsible for the successful design and construction of the company’s new 650,000 metric ton, state-of-the-art, lower-carbon, recycled aluminum flat rolled products mill in Columbus, Mississippi with two satellite recycled aluminum slab centers in the Southwestern U.S. and Northcentral Mexico. From 2019 until 2022, Pushis was responsible for the successful design and construction of the company’s Sinton Flat Roll Division, developed to serve the Southwestern U.S. and Mexico. He has extensive experience in this capacity and has been instrumental in numerous construction projects for Steel Dynamics since its founding. Prior to that, Pushis served as senior vice president, Long Products Steel Group, responsible for the company’s four long product steel mills. Pushis has held

various operational and leadership roles, including roles within the Engineered Bar Products Division and the Butler Flat Roll Division. He was also part of the team that constructed the company’s first steel mill in Butler, Indiana.

Miguel Alvarez will assume responsibility and oversight for the company’s aluminum operations, effective October 1, 2025. These responsibilities include leadership of the company’s new strategic aluminum investments, which are currently being commissioned under Pushis’ leadership, as well as an ancillary recycled aluminum deox-rod facility. Alvarez joined the company in 2019 as senior vice president, Southwest U.S. and Mexico to support the company’s steel and metals recycling growth strategy in that region, where he utilized his extensive knowledge of flat rolled steel operations and gained considerable knowledge of the metals recycling business. Based on his success, he was promoted to lead the company’s metals recycling platform in March 2022, where he has led the transformation and growth of this platform. Prior to joining Steel Dynamics, Alvarez held numerous senior leadership positions within the steel industry beginning in 2004.

The company has an intentional leadership development and succession process and will announce the new senior leader for its metals recycling platform in the coming weeks.



Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
FERROUS						
#1 Bushelings	per gross ton	\$415.00	\$418.00	\$415.00	\$418.00	\$420.00
#1 Bundles	per gross ton	390.00	398.00	400.00	400.00	405.00
Structural	per gross ton	324.00	324.00	325.00	330.00	350.00
#1 & #2 Mixed Steel	per gross ton	281.00	283.00	285.00	287.00	285.00
Crushed Auto Bodies	per gross ton	203.00	204.00	205.00	200.00	209.00
Shredded Auto Scrap	per gross ton	375.00	375.00	370.00	380.00	385.00
NON FERROUS						
#1 Copper Bare Bright	per pound	4.89	4.35	4.39	4.28	4.40
#2 Copper Wire & Tubing	per pound	4.69	4.15	4.19	4.08	4.20
Aluminum Cans	per pound	.78	.78	.76	.78	.79
Al/Cu Radiators	per pound	2.40	2.37	2.30	2.15	2.10
Aluminum Radiators	per pound	.61	.60	.62	.62	.60
Heater Cores	per pound	1.42	1.46	1.45	1.47	1.49
Stainless Steel	per pound	.57	.55	.52	.53	.55

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

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

METALS

Finished import steel market share at 21 percent

Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 2,481,000 net tons (NT) of steel in May 2025, including 1,778,000 net tons (NT) of finished steel (up 19.5 percent and 10.4 percent, respectively, vs. April 2025). Total and finished steel imports are down 6.2 percent and 8.4 percent, respectively, year-to-date vs. 2024. Over the 12-month period June 2024 to May 2025, total and finished steel imports are down 3.7 percent and 2.5 percent, respectively, vs. the prior 12-month period. Finished steel import market share was an estimated 20 percent in May and is estimated at 21 percent over the first five months of 2025.

Key steel products with a significant import increase in May compared to April are plates in coils (up 70 percent), sheets and strip all other metallic coating (up 66 percent), blooms, billets and slabs (up 51 percent), hot rolled sheets (up 51 percent) and line pipe (up 48 percent). Products with a significant increase in imports over the 12-month period June 2024 to May 2025 compared to the previous 12-month period include tin plate (up 79 percent) and line pipe (up 11 percent).

In May, the largest suppliers were Canada (405,000 NT, down 6 percent

vs. April), Brazil (401,000 NT, up 34 percent), South Korea (313,000 NT, up 69 percent), Mexico (299,000 NT, up 92 percent) and Taiwan (108,000 NT, up 5 percent). Over the 12-month period June 2024 to May 2025, the largest suppliers were Canada (6,097,000 NT, down 10 percent vs, compared to the previous 12-months), Brazil (4,454,000 NT, down 1 percent), Mexico (3,369,000 NT, down 16 percent), South Korea (2,772,000 NT, down 8 percent) and Germany (1,219,000 NT, up 29 percent). Below are charts on steel imports by country and estimated finished steel import market share in recent months.

In May, the largest suppliers were Canada (405,000 NT, down 6 percent vs. April), Brazil (401,000 NT, up 34 percent), South Korea (313,000 NT, up 69 percent), Mexico (299,000 NT, up 92 percent) and Taiwan (108,000 NT, up 5 percent). Over the 12-month period June 2024 to May 2025, the largest suppliers were Canada (6,097,000 NT, down 10 percent vs, compared to the previous 12-months), Brazil (4,454,000 NT, down 1 percent), Mexico (3,369,000 NT, down 16 percent), South Korea (2,772,000 NT, down 8 percent) and Germany (1,219,000 NT, up 29 percent).

Minnesota-based aluminum recycler begins production



EGA Spectro Alloys – a Midwest-based producer of recycled aluminum alloys – announced the start of production at its state-of-the-art aluminum recycling expansion. At the 90,000 square foot facility, EGA Spectro Alloys will produce up to 120 million pounds per year of recycled aluminum billets from scrap aluminum. The expansion will also add up to 50 full time jobs once the facility reaches full production capacity in the first quarter of 2026.

Aluminum billet – logs of aluminum up to 25 feet long – is used as raw material for extruders, which turn it into products like railings, window and door trim, and structural components for cars, boats, airplanes, trailers, docks and more. Recycling aluminum requires 95 percent less electricity than producing new aluminum and generates a fraction of the greenhouse gas emissions. Metal from the expansion project will be sold under EGA’s recycled product brand RevivAL, a nod to the company’s 52-year legacy of giving used aluminum new life.

The facility includes a new, world-class quality laboratory which will help ensure customers receive the highest quality recycled aluminum at customers’ precise specifications in diverse industries across the country.

“More and more, manufacturers are looking for supply chain solutions that help them meet their environmental goals and using recycled aluminum is a win for everyone. With this expansion, we will produce high-quality, recycled billet, made in America and contribute to a circular economy in our region and throughout the U.S.,” said EGA Spectro Alloys President Luke Palen.

EGA Spectro Alloys’ first recycled billets were shipped to Crown Extrusion in Chaska, Minnesota, where they will eventually be turned into a waterfront dock for Dock Rite, in Hutchinson and fabricated into sustainable docks for sale across the region.

EGA Spectro Alloys is currently seeking further new team members to work in its new facility.

SMI expands with two recycling center acquisitions in Kansas

Scrap Management Industries (SMI), a metal recycler and a leading metal recycling company, has acquired two established recycling facilities, 12th & Haskell Recycle Center in Lawrence and East Wilson Recycle in Ottawa, Kansas. This expansion marks SMI’s eighth and ninth locations overall, further strengthening the company’s ability to serve residents and industrial and commercial recycling needs across the region.

Operating under the new name Scrap Management Industries – Lawrence and Scrap Management Industries – Ottawa, both facilities will continue providing comprehensive metal recycling services

for both ferrous and nonferrous materials. With a history spanning 20 years, 12th & Haskell Recycle Center and East Wilson Recycle have been a respected authority in the area’s recycling industry. Now under SMI’s ownership, the locations will enhance their capabilities to support industrial scrap management services, offering tailored solutions to businesses of all sizes.

The newly acquired facilities will act as feeder yards for SMI’s existing Kansas City operation. The 15 employee team will continue serving existing customers while benefiting from SMI’s extensive network of industrial suppliers and dealers.

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

COUNTRY	MAY 2025 PRELIM	APR. 2025 FINAL	% VAR. MAY VS. APR.	YTD 2025 (5 MON.)	YTD 2024 (5 MON.)	% VAR. 2025 VS. 2024	JUNE 2024 TO MAY 2025	JUNE 2023 TO MAY 2024	% VAR.
Canada	405	433	-6.4%	2,462	2,922	-15.7%	6,097	6,794	-10.3%
Brazil	401	299	-33.9%	2,160	2,205	-2.0%	4,454	4,489	-0.8%
Mexico	299	156	91.9%	1,594	1,742	-8.5%	3,369	4,018	-16.2%
South Korea	313	185	69.2%	1,270	1,308	-2.9%	2,772	3,006	-7.8%
Germany	108	120	-10.6%	528	382	38.0%	1,219	948	28.6%
Vietnam	97	66	46.7%	332	545	-39.0%	1,151	894	28.8%
Japan	93	75	24.5%	469	504	-7.0%	1,145	1,168	-1.9%
Taiwan	108	103	5.3%	494	435	13.5%	1,070	687	55.8%
Netherlands	59	56	6.7%	240	238	1.0%	616	550	12.0%
China	55	47	15.3%	224	180	24.8%	552	503	9.8%
Romania	41	82	-49.6%	218	219	-0.5%	477	409	16.6%
Turkey	82	8	898.8%	239	238	0.1%	431	390	10.3%
United Arab Emir.	28	26	10.5%	152	140	8.8%	416	331	25.7%
India	45	64	-30.4%	216	88	146.0%	381	258	47.7%
Spain	24	18	32.0%	143	111	29.4%	322	248	29.4%
All Other	324	339	-4.6%	1,630	1,932	-15.7%	3,581	4,448	-19.5%
Total	2,481	2,077	19.5%	12,371	13,188	-6.2%	28,053	29,142	-3.7%
memo EU-27	342	404	-15.4%	1,880	1,769	6.3%	4,398	3,930	11.9%

Steel shipments down 1.0 percent



American Iron and Steel Institute

The American Iron and Steel Institute (AISI) reported that for the month of May 2025, U.S. steel mills shipped 7,507,349 net tons, a 1.0 percent increase from the 7,431,201 net tons shipped in May 2024. Shipments were down 1.0 percent from the 7,580,635 net tons shipped in the previous month, April

2025. Shipments year-to-date in 2025 are 37,285,289 net tons, up 1.9 percent vs. 2024 shipments of 36,607,546 net tons for 5 months.

A comparison of shipments year-to-date in 2025 to the first 5 months of 2024 shows the following changes: cold rolled sheet and strip, up 1 percent, corrosion resistant sheet and strip, down 1 percent and hot rolled sheet and strip, down 2 percent.

PAPER

Greif enters agreement to sell containerboard business



Greif, Inc. has entered into a definitive agreement to divest its containerboard business, including its CorrChoice sheet feeder network, in an all cash transaction for \$1.8 billion to Packaging Corporation of America. The transaction is expected to close by the end of Greif's fiscal year 2025, and is subject to customary closing conditions, including regulatory approvals.

Cash proceeds will be allocated to debt repayment, resulting in a pro-forma leverage ratio below 2.0x after the closing, to be further reduced with the previously announced planned divestiture of Greif's timberland business. These actions will enable future disciplined capital redeployment and optionality for strategic growth investments.

Strategic Rationale:

- Further positions Greif as a packaging leader
- Allows Greif to deliver more durable earnings
- Enhances capital utilization, reducing recurring capital needs
- Enables debt reduction, unlocking value-creation opportunities

"The sale of our containerboard business is fully aligned with our Build to Last strategy and unlocks immediate value for our shareholders. It represents a pivotal step in our work to sharpen our portfolio, enhance our capital efficiency, and advance our growth priorities," said Ole Rosgaard, president and chief executive officer. "Once finalized, our remaining material solutions all contain leadership positions to drive margin expansion and cash flow generation."

ST Group acquires South Carolina tissue mill from Cascades



The ST Group of Companies, a North American manufacturer of away-from-home tissue parent rolls, has acquired a paper mill in Barnwell County, South Carolina, from Cascades Inc.

Terms of the transaction were not disclosed.

Cascades became the owner of the Barnwell mill in September of 2019 when it acquired the assets of Orchids Paper Products. Cascades closed the mill in 2023.

The Barnwell mill features a 110-inch Valmet hybrid QRT/DCT tissue machine, installed in 2016, with an annual capacity

of 30,000 tons. It also houses a 40,000 ton-per-year recycled fiber deinking mill, enabling production of both virgin and recycled tissue. The 300,000 square foot site includes warehouse space with room for future expansion.

The acquisition, completed through the newly formed subsidiary, Barnwell Tissue Solutions, is ST's third tissue facility and brings the company's total annual production capacity to 220,000 tons.

The expansion strengthens ST's position as a premier supplier of high-quality parent rolls for bathroom tissue, paper towels, and napkins across North America.

Stay informed with our weekly E-NewsVoice.

Subscribe at AmericanRecycler.com to view **Digital Advertising Opportunities!**



PLASTICS

NOVA Chemicals commissions plastic film recycling facility

NOVA Chemicals Corporation has commissioned its first polyethylene (PE) film recycling facility, SYNDIGO1, located in Connersville, Indiana. The facility is one of the largest and most sophisticated plastic film mechanical recycling facilities in the world. SYNDIGO1 spans 450,000 sq.ft. and will recycle 145,000 bales of end-of-life plastic film to produce over 100 million lbs. of SYNDIGO™ recycled PE (rLLDPE), suitable for food- and non-food grade packaging applications. Full production is expected by early 2026.

In July 2023, NOVA announced the intention to build the facility and work with Novolex to operate the facility, capitalizing on its nearly 20 years of experience in operating plastic film recycling facilities. In 2024, the facility's mechanical recycling process received a first-of-its-kind Letter of Non-Objection (LNO) from the U.S. Food and Drug Administration confirming its ability to produce post-consumer rLLDPE that is suitable for food-contact applications. In April 2025, the facility achieved the Recycled Material Standard certification from Green Blue, which verifies that the SYNDIGO recycled polyethylene produced at the facility is 100 percent post-consumer recycled content. Today, three of four lines are in operation, and the facility will be fully operational by the end of 2025.

NOVA Chemicals is working with

several leading manufacturers and distributors to incorporate recycled polyethylene into flexible packaging, including Charter Next Generation, M.Holland, Osterman & Company, Petoskey Plastics, PolyExpert, Pregis, Sigma Plastics Group, and Winpak. According to McKinsey, the demand for post-consumer recycled plastic will triple by 2030 to about 90 million tons. And, according to a recent NOVA Chemicals survey, 75 percent of consumers agreed that companies should increase the use of packaging made from recycled materials.

SYNDIGO1 in Connersville works with major retailers and distribution centers across the U.S. to collect back-of-store polyethylene film, which provides consistent and clean feedstock for recycled PE. The facility will collect on average 400 bales of plastic film each day, or 14,000 bales each month. For context, the film collected and diverted from landfills each year is equivalent to filling four professional football fields to the top of the goal posts.

Plastic film waste will be processed into pellets and sold as NOVA Chemicals' SYNDIGO recycled linear, low-density polyethylene (rLLDPE), which is suitable for a wide variety of packaging applications—from trash can liners to food packaging. A grade of SYNDIGO rLLDPE has FDA compliance for all food types under Conditions of Use B through H.



Inductor Max® PDR Kit

The Inductor® Max uses high-frequency magnetic fields to heat ferrous metals quickly and safely—without causing damage to nearby plastic parts or components. The PDR variation of this unit is designed to help remove soft dents and comes with our concentrator attachment and PDR Baton.

Available through your local tool distributor.

APPLICATIONS:

<ul style="list-style-type: none"> ☉ Hail Dents ☉ Door Dings ☉ Seam Sealers ☉ Heat Shrinking 	<ul style="list-style-type: none"> ☉ Soft Dents ☉ Loosen Nuts & Bolts ☉ Loosen Brake Bleeders ☉ Automotive Hardware
--	---

877-688-9633
www.theinductor.com






This tool is manufactured in the USA with genuine OEM parts.

SARGENTS

EQUIPMENT & REPAIR SERVICE

NEED RELIABLE RECYCLING EQUIPMENT REPAIR SERVICES? ...

Your shredders, balers, and shears don't make money sitting still, and neither do you.

Whether you're dealing with hydraulic issues, frame cracks, or blade wear, our expert techs are built for the grind.

We offer:

- ✓ Baler relines
- ✓ Full hydraulic service & cylinder rebuilds
- ✓ Obsolete parts and structural fabrication
- ✓ Blade changes & mechanical fixes
- ✓ Mobile repair or in-shop support



☎ 708-758-2062

📍 So. Chicago Heights, IL

☎ 847-844-4131

📍 Gilberts, IL

☎ 608-429-8266

📍 Pardeeville, WI

www.SargentsEquipment.com

WASTE

Casella celebrates 50 years

Casella Waste Systems, Inc., a regional solid waste, recycling and resource management services company, rang the opening bell at the Nasdaq MarketSite in Times Square on June 17, 2025.

Casella chairman and chief executive officer John W. Casella, president Ned Coletta and founder and vice chairman Doug Casella were joined by members of the Casella leadership team and its board of directors.

“Since our initial public offering in 1997 to where we stand today, Nasdaq has been a tremendous partner in our success,” said Casella.

Founded in 1975 as a single truck collection service, Casella has grown its operations to provide solid waste collection and disposal, transfer, recycling, and organics services to more than one million residential, commercial, municipal, institutional and industrial customers in 10 eastern states and provides

professional resource management services to over 10,000 customer locations in more than 40 states nationwide.

The company’s commitment to being a sustainable enterprise began almost immediately when it established Vermont’s first recycling facility in 1977. As the only waste and recycling company among the founding members of the EPA Climate Leaders program, Casella’s climate leadership has been recognized by the EPA, the Association of Climate Change Officers, the Center for Climate and Energy Solutions and the Climate Registry with a Climate Leadership Award for Excellence in Greenhouse Gas management. According to its most recent Sustainability Report, for every ton of greenhouse gas the company emits through its operations, Casella’s services prevent an estimated 5.6 tons of greenhouse gas emissions elsewhere in the economy.

Veolia completes comprehensive industry testing on PFAS incineration

Veolia has published the waste management industry’s most comprehensive testing to date on the incineration of PFAS compounds. The tests demonstrated that high temperature incineration is a proven and reliable disposal solution for high concentrations of targeted PFAS, destroying greater than 99 percent of targeted substances, including up to 99.9999 percent of PFOS and PFHxS.

PFAS contamination is a critical challenge due to its widespread presence and persistent nature. This testing, conducted using the EPA’s most current guidance, advances the scientific understanding of PFAS disposal and gives cities and industries more options for management of these compounds.

The two-phased study was conducted at Veolia’s hazardous waste incinerator in Port Arthur, Texas in July and October of 2024 by a third party provider. The facility was chosen based on its track record of managing PFAS-containing material, and its ability to reach a secondary combustion chamber temperature of 2,040 degrees Fahrenheit and a residence time of 2.3 seconds.

The testing evaluated thermal treatment of AFFF fire-fighting foam, PFAS-contaminated soil and spent carbon water treatment media in alignment with the EPA’s most current guidance for solids, liquids and stack air emissions (EPA Interim Guidance on the Destruction and Disposal of PFAS – April 8, 2024). The testing used the OTM-45 and OTM-50 methods to evaluate products of incomplete combustion (PICs) in stack air emissions. The test results were announced at the 2025 PFAS Forum V in Tampa, Florida.

The key findings of the testing included:

targeted PFAS, destroying greater than 99 percent of targeted substances, including up to 99.9999 percent of PFOS and PFHxS.

- Solid residue: In 41 of 45 samples, there were no detectable quantities of the target PFAS in any of the ash, slag or filter cake. In four ash samples, target PFAS levels close to the method detection limit were identified.
- Liquid residue: Very low levels of the target PFAS were detected in liquid residues; the target PFAS residuals were below the method detection minimum, as well as the Maximum Contaminant Levels (MCLs) set by the EPA for drinking water.
- Air emissions: The destruction and removal efficiency (DRE) was greater than 99 percent for the majority of target PFAS, and few to no PICs were detected during incineration, indicating highly effective destruction.

“This testing demonstrated that high temperature incineration is a reliable and proven disposal solution for high concentrations of targeted PFAS. Veolia takes our role as industry leaders seriously, which is why we take a scientific approach in conducting the industry’s most comprehensive, modern and credible testing of PFAS incineration. As part of our GreenUp strategy, we have curated the industry’s only truly end-to-end solution for PFAS management: Beyond PFAS. This test is one more step in our journey to protect human health and the environment,” said Bob Cappadona, president and chief executive officer of Veolia North America’s Environmental Solutions and Services business.

Veolia provides drinking water to more than 9 million people across the United States and is in the forefront of the fight against PFAS. It has treated more than 24 billion gallons of water for PFAS at more than 30 sites, with dozens more under construction or in planning.

SHREDDING EXCELLENCE

for over 40 years!



ONE



TWO



FOUR

YOUR THREE BEST OPTIONS FOR SIZE REDUCTION

No matter what material size reduction requirements you have, we have the heavy-duty equipment and heavy-hitting engineers to address your needs. For more than four decades, we’ve been the durable, versatile shredder ‘Brand of Choice’ for demanding applications all over the planet.



RUBBER, PLASTIC, E-SCRAP... AND MORE!

Contact us today for a quotation and project overview!

877-582-7800
www.granutech.com

GRANUTECH
SATURN

BUSINESS BRIEFS

HD Hyundai merges construction equipment divisions

■ HD Hyundai, headquartered in Seoul, South Korea, will merge its construction equipment divisions to create a new company, tentatively named HD Construction Equipment, effective January 1, 2026.

The merger will combine HD Hyundai Infracore and HD Hyundai Construction Equipment. The Hyundai and DEVELON brands will continue to coexist. The two companies currently operate independently in North America through distinct dealer networks. The independent brand and dealer network structure will remain in place.

Pending shareholder approval and regulatory review, the merger will create a stronger global construction equipment business while maintaining the current success for the DEVELON and Hyundai brands in North America.

The advantages of merging the two companies include the following:

- Providing greater price competitiveness through increased scale.
- Speeding up innovation in smart and electrified equipment.
- Enhancing supply chain efficiency and product quality.
- Expanding aftermarket support, including parts and service.
- Growing the product lineup, ranging from compact to ultra-large machines.
- Building on the growth of engine sales and aftermarket services.

DEVELON North America is headquartered in Suwanee, Georgia, and markets the DEVELON brand of heavy and compact construction equipment.

All print ads are also showcased digitally on AR's Advertisers page & indefinitely at our PDF Archive: AmericanRecycler.com.

**September Edition
Deadline: August 18**

Cover:
Battery Recycling

Focus:
Electronics

Equipment Spotlight:
Pulverizers

Reserve your space
in print and digital!

877-777-0043

Classified ADVERTISEMENTS

877-777-0043

— Always Available —
PLACE YOUR TEXT AD ONLINE
www.AmericanRecycler.com

UPGRADE WITH FULL COLOR!

TO PLACE YOUR AD

Call 877-777-0043
E-mail sales@AmericanRecycler.com
Visit AmericanRecycler.com

RATES

Text Classifieds
\$80 for up to 50 words.
Add \$1 each additional word.
Display Classifieds
\$85 per column inch depth, 2.5" width.

Featured

Arm Your Hog With...
ARMORHOG
Extreme Duty Grinder Parts

CUSTOM SCREENS, Tips, Belts, Misc. Parts, and Repair for ALL BRANDS of RIGID Hammer Style Tub & Horizontal Grinders.

Rotor Repair and/or Replacement, & Electronic Mill Balancing

Insert tips for A.R.E. Challenger & other similar style grinders.

ARMORHOG uses NITROGRIT

800.743.3491 or 785.284.3454
sales@armorhog.com
www.armorhog.com

FOR SALE

Business, Equipment & Real Estate

AUTO PARTS/SCRAP METAL/TOWING SERVICE

4 Acres, 3 Buildings, Flint MI

- Equipment list upon request
- Real estate available separately
- Access to major expressways

**** Motivated Seller ****

Great Business Opportunity!

DAVE DONAHUE
810-252-5888
SellMeDD@gmail.com

MAGNETIC MATERIAL HANDLING SPECIALISTS

**Magnets - Generators
Controllers - GenSets**

- Switches
- Meter Packs
- Switch Relays
- Hydraulics

Unmatched technical support & service!
Parts & repairs for all manufacturers.

MAGNET SIEB CALL TODAY!
877-924-7548
www.siebsales.com

YOUR AD HERE!

DISPLAY Classified
\$85 per column inch depth
2.5" width
877-777-0043 AmericanRecycler.com

Featured

OUR SERVICES

- Mergers & Acquisitions Consulting**
- Business Valuation & Brokerage**
- Specialty Waste Transportation**
- Management Consulting and Advisory**
- Asset Preservation & Reorganization**
- Waste To Energy Consulting**
- New Business Opportunities**



Call today!
215.370.2417 tel
941.699.8441 tel
rs@sternerconsulting.com
sternerconsulting.com

Auto Recycling

PROCESS in a SINGLE PASS!



If you're processing materials in more than one pass for market, it is costing you money! Process in a single pass: tire wire, auto rats nests, glass, plastic, rock, textiles, copper wire and other metals.

Our heterogeneous processor offers small footprint, low maintenance and long life wear parts.

575-518-8495

BWO TECHNOLOGY
moises.romero48@outlook.com
www.bwotechnology.com

Balers

HARRIS AMERICAN COMPANY stands at the forefront of the recycling equipment industry, with unparalleled resources for designing, manufacturing, and supporting best-in-class machinery. Our product line: two-ram balers, horizontal balers, baler/loggers, shears, shredders, specialty units. All machinery is engineered with precision and reliability, so clients can streamline their operations effectively. www.harrisamericanco.com

Businesses

USED OIL STORAGE FACILITY with tanks, office, truck storage garage and EPA I.D. number for the facility. Akron Canton Waste Oil Company, Canton OH, 330-958-1224.

Businesses

PARTNERSHIP OPPORTUNITY! High end, low cost of entry investment, turning waste into wealth! Plastics and rubber advanced recycling, proven European technology, converts 55 tons/day, tires or plastics, into valuable fuel, carbon black, other industrial materials. Now open to savvy eco-partners/investors! Do you qualify? Call Rob: 954-295-5423 or 888-761-4995

BUSINESS OPPORTUNITY: Less than \$25,000 will put you into the scrap tire collection and sidewall cutting business. You Get Paid to collect old tires and you get paid again for the cut sidewalls. Both passenger and truck tire sidewalls needed. We provide the business plan, how to obtain permits, where to purchase and how much to pay for the machinery plus the buyers for all the cut sidewalls you can supply. If a loan is needed to start your business, our lenders will provide the funds you need to get setup and operating with very affordable payments. Interested in owning your own business or expanding a current scrap tire recycling business turning waste into wealth and ready to work hard for real money? Call today for more Info: Rob 954-295-5423 or 888-761-4995

Miscellaneous

INDUCTION INNOVATIONS
MADE IN THE USA

VENOM HP

LEARN HOW TO SAVE TIME & MONEY WITH INDUCTION HEAT!

Software

U-PULL IT SOFTWARE: Get more from your U-Pull It yard and simplify searches. Our product helps you buy cars, create a detailed inventory and then all ties to a point of sale system designed specifically for your business. View demos at our website. Call today! 801-355-3388 or visit www.s3softwaresolutions.com.

THE ENVIRO-RACK

Complete fluid removal in less than 5 minutes!

The Enviro-Rack includes gas separation and anti-freeze separation.

It's the most superior auto fluid removal and dismantling system on the market today!

**All Holding Tanks Included —
Redesigned with
Larger Work Area!**



ALL ENVIRO-RACKS ARE
MADE IN AMERICA
WITH AMERICAN STEEL
FOR AMERICAN-SIZED CARS.



**If you need
an application-
specific grapple
designed and
manufactured,
we can help you!**

GRAPPLES

All rotating grapples are 360 degree continuous rotating. All pins and bushings are made of heat-treated material and are lubricated easily through grease fittings.

Features:

- Abrasion resistant steel tines
- All tines hard surfaced
- Heavy duty rotation motors, rings, and gears
- Heavy duty hydraulic cylinders
- Stress proof pins
- Replaceable bushings at hinge points
- Protected grease fittings

All of our grapples are furnished with or without the hanger that will fit your boom. All grapples are complete with all hoses and fittings.

IRON AX SHEAR PACKAGES

*All shears feature 360°
continuous rotation.*

Iron Ax is the ONLY shear manufacturer in the entire industry that offers a complete package consisting of a shear and an excavator.



IRON AX

Toll-free 877-247-6629
Fax 478-252-9030
www.ironax.com | ironax@ironax.com

 **RECYCLING**
EQUIPMENT SALES, INC

Rubber recycling gains significant momentum

by MAURA KELLER

mkeller@americanrecycler.com

We've known about the need for improved rubber recycling technologies for years, as we watch millions of end-of-life tires ending up in landfills. The accumulation of discarded tires results in significant environmental hazards, including spontaneous combustion and chemical leakage.

While one key technology being used in tire recycling, namely pyrolysis, has resulted in efficient recycled rubber byproducts, there are additional environmental and health risks with this technology. Luckily, technological advancements in rubber recycling is on the rise.

Ross Lakhari, sustainability expert with PA Consulting said rubber recycling has undergone significant transformation, driven by heightened regulatory oversight such as landfill bans on end-of-life tires (ELTs) and extended producer responsibility programs, which place the burden of collection, recovery and recycling directly on producers.

"At the same time, leading manufacturers in the automotive, tire, flooring and construction industries are setting ambitious sustainability goals and increasingly integrating recycled rubber into their products to meet these targets," Lakhari said. "To meet the growing demand for high quality recycled rubber, the industry has expanded and modernized its collection and reprocessing infrastructure. This has shifted rubber recycling away from basic mechanical shredding and low-value uses like tire-derived fuel or generic crumb rubber, towards more advanced reprocessing and the creation of higher-value applications."

"Simply put, the rubber industry produces a vast amount of waste, primarily due to tire manufacturing and consumption," Lakhari added.

In fact, nearly 70 percent of all rubber produced globally goes into the production of tires. Each year, approximately 280 million tires reach the end of their usable life worldwide, yet only a small proportion – about 30 million – are reused. This leaves roughly 250 million scrap tires that require effective recycling

or disposal solutions. Advances in recycling technology are crucial not only for minimizing the industry's environmental impact but also for driving the transition toward a circular economy, making recycled rubber an increasingly practical and attractive alternative to new materials.

As Lakhari explained, rubber recycling, like many other material reprocessing technologies, has been transformed by significant advancements that enable more efficient and valuable resource recovery and open up new pathways for recycled feedstocks.

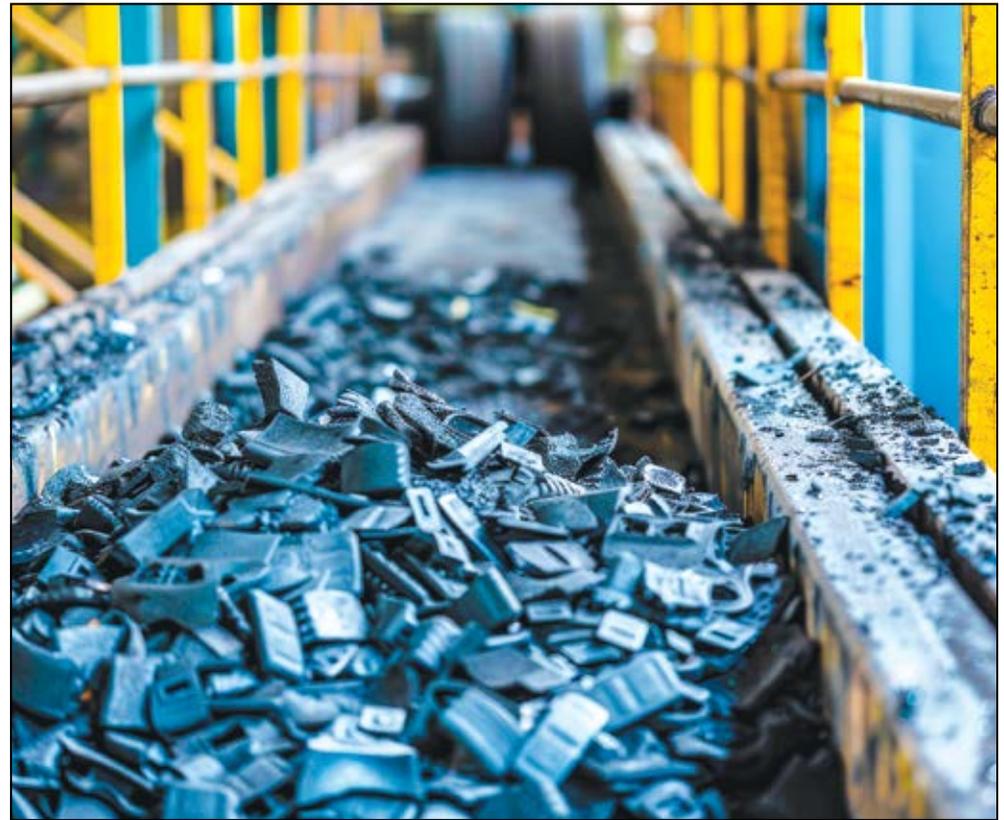
"Some of these advancements, while they are not a new concept, are reaching the scale to be a critical part of the end-of-life reprocessing for waste rubber," Lakhari said.

These include:

- **Advanced pyrolysis:** A thermochemical process for producing high-value fuels and energy from waste materials. Carbon black can also be a by-product originating from the char of the pyrolysis process and can be used as an alternative to virgin carbon black.
- **Cryogenic grinding:** Applies liquid nitrogen to waste rubber prior to grinding into small particles. The rubber, or "crumb," particles that remain can be used as an input material for textiles, carpets, or coatings.
- **Devulcanization:** Reverses the vulcanization (cross-linking) process in rubber, restoring elasticity and plasticity so it can be reused and even blended with virgin materials to go back directly into high value applications.

In April, University of North Carolina at Chapel Hill announced that a team of scientists at the University has developed a groundbreaking chemical recycling method that could offer "a cleaner, more sustainable solution to the growing global problem of tire waste."

According to the University's news release, "There's a substantial amount of rubber accumulating in landfills," said Dr. Aleksandr Zhukhovitskiy, lead author of the study and an assistant professor of chemistry at UNC-Chapel Hill. "These tires provide an environment for microorganisms to grow and potentially release toxic materials, and



Rubber recycling has been transformed by significant advancements that enable more efficient and valuable resource recovery and open up new pathways for recycled feedstocks.

over time, they can generate microplastics and other pollutants we don't yet fully understand."

As the University explains, Zhukhovitskiy's lab has been focused on what he calls "editing the skeletons" of plastic materials – changing the structure of polymers to make them easier to break down or reuse. In the case of tire rubber, the researchers used a gentle chemical process to insert nitrogen atoms into the material, creating a pathway for it to break apart into smaller, soluble pieces.

This study introduces a novel chemical method for breaking down rubber waste. The pioneering technique utilizes C-H amination and a polymer rearrangement strategy to transform discarded rubber into valuable precursors for epoxy resins, offering an innovative and sustainable alternative to traditional recycling methods.

"Our research represents a paradigm shift in how we approach the problem of rubber waste," said Sydney Towell, a co-author of the study and Ph.D. candidate at UNC-Chapel Hill. "By harnessing the power of C-H amination and

backbone rearrangement, this method provides a new pathway to transforming post-consumer rubber into high-value materials, reducing reliance on landfills and minimizing environmental harm."

Even more recently, the Korea Advanced Institute of Science and Technology (KAIST), announced it succeeded in selectively converting waste tires into high-purity, high-value cyclic alkenes, which are chemical raw materials used for rubber or nylon fibers.

Specifically, the KAIST research team used two catalysts to develop a method to convert waste rubber into useful chemicals. The first catalyst helped break down rubber molecules by changing their bonding structure, and the second catalyst created cyclic compounds through a ring-closing reaction.

According to KAIST, "the produced cyclopentene can be recycled back into rubber, and cyclohexene can be used as a raw material for nylon fibers, making them industrially very valuable."

The Recycled Rubber Coalition announced that Mitsubishi Chemical

See RUBBER RECYCLING, Page B6



The most important Baler we'll build is yours!



MAREN
Balers & Shredders
A Komar Company



marenbalers.com • 800-875-1038

Building customer loyalty as strong as our Balers!

Tire recycling market to hit valuation of \$19.24 billion by 2033



Tire recycling market thrives on regulatory mandates and rising automotive output, driven by the U.S. (81 percent recycling rate, 4 million tons annually) and Asia-Pacific's rapid adoption of pyrolysis and advanced applications like rubberized asphalt.

According to a report from Astute Analytica India Pvt. Ltd., the global tire recycling market was valued at \$13.92 billion in 2024 and is anticipated to reach \$19.24 billion by 2033, growing at a CAGR of 3.80 percent during the forecast period 2025 through 2033.

The demand in the tire recycling is experiencing significant growth worldwide, driven by the increasing volume of end-of-life tires (ELTs) generated annually. Global tire production has reached approximately 2.5 billion units per year. In the U.S. alone, about 280 million scrap tires are generated annually. This massive volume of waste tires necessitates efficient recycling solutions.

The European Union (EU) has achieved a tire collection rate of 95 percent, with 1.37 million tons of ELTs collected in 2019. In Japan, the tire recycling rate has consistently exceeded 90 percent since 2010, with 1 million tons of tires recycled annually. The automotive industry's expansion, particularly in emerging economies, is fueling this growth. China, for instance, generates over 320 million waste tires annually, while India produces approximately 112 million waste tires each year. These numbers underscore the urgent need for comprehensive tire recycling solutions globally. The implementation of extended producer responsibility (EPR) programs in over 30 countries has further boosted recycling efforts, with some nations achieving collection rates as high as 80 to 90 percent.

Sales of Recycled Tires is Reaching New Heights

The global tire recycling market is projected to reach substantial values in 2024, reflecting the industry's growth and importance. In terms of volume, it's estimated that over 1.8 billion tires will be recycled globally in 2024. This figure represents a significant portion of the total waste tires generated worldwide. The U.S., as a leading market, was expected to recycle approximately 4.5 million tons of tires in 2024, equivalent to about 290 million passenger tire equivalents.

In Europe, the tire recycling industry was projected to process over 3.6 million tons of end-of-life tires in 2024. China, with its massive automotive market, was

anticipated to recycle more than 5 million tons of waste tires in the same year. These projections highlight the substantial scale of tire recycling operations globally and the increasing capacity of the industry to handle the growing volume of waste tires.

Market Response to Current Economic Conditions and Demand

The tire recycling market is demonstrating resilience in the face of current economic challenges. Despite global economic uncertainties, the industry has maintained a steady growth trajectory. For instance, the use of recycled rubber in asphalt has increased by 25 percent over the past five years, with over 1,000 miles of roads now built using rubberized asphalt in the U.S. annually. This trend indicates a growing acceptance and demand for recycled tire products in infrastructure projects.

In response to economic pressures, tire recycling companies are diversifying their product offerings. The production of tire-derived fuel (TDF) has seen a 15 percent increase in the past two years, with over 130 million tires now used annually for energy recovery in the U.S. Additionally, the use of crumb rubber in molded products has grown by 30 percent since 2020, creating new market opportunities for recycled tire materials. These adaptations demonstrate the industry's ability to pivot and find new applications for recycled tire products in challenging economic conditions.

Concerns Facing Tire Recycling Companies: Challenges Ahead

Tire recycling market companies are grappling with several concerns that pose challenges to their operations and future growth. One primary worry is the fluctuating prices of recycled materials. For instance, the price of crumb rubber has varied by up to 30 percent in the past year, ranging from \$200 to \$260 per ton. This volatility affects profitability and makes long-term planning difficult. Additionally, the high capital costs associated with recycling facilities are a significant barrier, with a typical tire recycling plant requiring an investment of \$5 to 10 million for equipment alone. The industry is also facing challenges related to the quality of recycled materials. Contamination rates in collected tires can be as high as 5 to 10 percent, necessitating additional processing and increasing costs. Furthermore, the logistics of collecting and transporting end-of-life tires efficiently remains a persistent challenge, with transportation costs accounting for up to 20 percent of

the total recycling cost in some regions. These concerns collectively contribute to a complex operating environment for tire recycling companies, requiring strategic planning and adaptability to navigate successfully.

Top 5 Countries Lucrative for Tire Recycling: Market Leaders

- **China** – Leading the global tire recycling market with an annual tire recycling capacity of over 5 million tons. The country processes approximately 320 million waste tires each year.
- **United States** – Recycling about 4.5 million tons of tires annually, with a recovery rate exceeding 80 percent. The U.S. has over 110 tire recycling facilities across the country.
- **Germany** – As a leader in the European Union, Germany recycles over 600,000 tons of tires annually, achieving a recycling rate of 98 percent.
- **India** – With a rapidly growing automotive sector, India generates about 112 million waste tires annually. The country has set a target to recycle 75 percent of its waste tires by 2025.
- **Japan** – Known for its advanced recycling technologies, Japan recycles over 1 million tons of tires annually, with a recycling rate consistently above 90 percent. Countries offer lucrative opportunities for tire recycling companies due to their combination of market size, regulatory support, technological advancement, and growth potential.

Impact of Economic Conditions on Tire Recycling Demand

The demand for tire recycling is being affected by current economic conditions in complex ways. While economic uncertainties have led to a slight decrease in new tire sales, with a 5 percent drop reported in 2023 compared to the previous year, the focus on sustainability has maintained steady demand for recycled tire products. The construction industry's use of recycled tire materials has increased by 10 percent in the past year, with over 200,000 tons of crumb rubber used in various construction applications.

Furthermore, the energy sector's use of tire-derived fuel has remained stable, with cement kilns consuming approximately 350,000 tons of TDF annually in Europe alone. This consistent demand has helped offset potential declines in other sectors. The automotive industry's push towards sustainability has also contributed to increased use of recycled rubber in new tire production, with some manufacturers incorporating up to 5 percent recycled content in their new tires. These trends indicate that while economic conditions

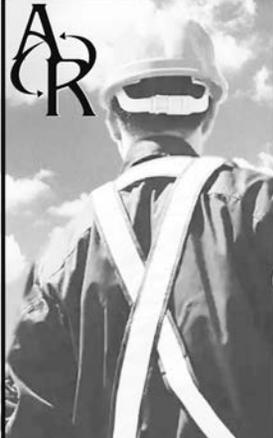
are challenging, the fundamental drivers of tire recycling demand remain strong.

Key Products Derived from Tire Recycling: Value Creation

- **Crumb Rubber** – Accounts for approximately 70 percent of recycled tire material by weight. The U.S. tire recycling market alone produces over 1.5 million tons of crumb rubber annually.
- **Tire-Derived Fuel (TDF)** – Represents about 50 percent of scrap tire usage in the U.S., with over 130 million tires used for TDF annually.
- **Rubberized Asphalt** – Over 1,000 miles of roads in the U.S. are built using rubberized asphalt each year, consuming approximately 12 million scrap tires.
- **Steel Wire**: Approximately 10 to 15 percent of a tire's weight is steel, with over 350,000 tons of steel recovered from tires annually in Europe.
- **Rubber Mulch** – The U.S. market for rubber mulch uses about 20 million scrap tires annually, with applications in landscaping and playgrounds. Products demonstrate the diverse applications of recycled tire materials, contributing to the circular economy and reducing waste.

Major Applications of Tire Recycling: Industry Impact

- **Construction and Infrastructure** – Approximately 12 million scrap tires are used annually in the U.S. tire recycling market for civil engineering applications. Rubberized asphalt can extend road life by up to 50 percent and reduce road noise by up to 5 decibels.
- **Energy Production** – In the U.S., about 43 percent of scrap tires are used for TDF, providing a cost-effective and environmentally friendly energy source. A single cement kiln can use up to 6 million tires per year as fuel.
- **Automotive and Industrial Products** – Recycled rubber is used in the production of new automotive parts, with some manufacturers incorporating up to 5 percent recycled content in new tires.
- **Sports and Recreational Surfaces** – A typical artificial turf field uses about 20,000 ground tires, providing shock absorption and improving playing conditions.
- **Landscaping and Agriculture** – Rubber mulch can last up to 10 times longer than traditional wood mulch and is used in over 50,000 playgrounds across the U.S. Applications demonstrate the versatility of recycled tire materials and their significant impact across various sectors.



ADVERTISE YOUR:

- EQUIPMENT
- SERVICES
- EMPLOYMENT NEEDS

VISIT
AmericanRecycler.com

OR CALL
419-931-0737

American Recycler

USTMA supports legislation boosting tire retreading

The U.S. Tire Manufacturers Association (USTMA) and its members express strong support for H.R.3401 to strengthen domestic tire retreading. The bill, reintroduced by U.S. Representatives Darin LaHood (R-IL) and Emilia Strong Sykes (D-OH), proposes tax credits for fleet purchasers of American made retreaded commercial tires, aimed at strengthening domestic manufacturing, job creation and sustainable tire solutions.

“Approximately 15 million tires are retreaded annually in the U.S., including nearly 44 percent of commercial truck tires in the U.S. and Canada. By providing tax credits to fleet purchasers who buy American-made retreaded commercial tires, we have a critical opportunity to support domestic manufacturing and strengthen our national economy,” said Anne Forristall Luke, president and chief executive officer of USTMA. “This legislation is about more than just tires – it’s about investing in American workers and promoting a sustainable and innovative manufacturing sector.”

Tire retreading is a cornerstone of American remanufacturing, employing over 51,000 American workers and supporting more than 268,000 jobs across the broader U.S. tire industry. Retreads are a nearly 100 percent domestically produced product manufactured primarily by small independent businesses that typically employ between 10-60 workers.

However, the number of domestic tire retreading facilities has declined from

over 3,000 facilities in 1982 to just 500 today, due in part to growing imports of foreign alternatives for new tires. About 65 percent of foreign tires are less likely to be retreaded due to their design and construction, undermining efforts to build robust tire recycling programs and further accelerating the decline of U.S. retreading facilities.

H.R.3401 aims to incentivize and revitalize the U.S. retreading industry by making fleet purchases of retreaded commercial tires more financially feasible. This measure will create high-quality manufacturing jobs, strengthen supply chain resilience and support local economies.

Retreading aligns with the U.S. tire manufacturing industry’s commitment to a circular tire economy, reducing waste and minimizing the environmental impact of commercial trucking. Compared to new tires, retreaded tires require significantly fewer natural resources, helping to lower carbon emissions and conserve energy.

Retreaded tires:

- Use 15 gallons less oil and 90 lbs. less material per tire
- Save 215 million gallons of oil annually in the U.S. and Canada
- Reduce CO2 emissions by 24 percent
- Reduce water consumption by 19 percent
- Reduce air pollution by 21 percent
- Keep 1.4 billion pounds of waste out of landfills each year

Bridgestone unveils industry-first 70 percent recycled and renewable tire

Bridgestone Americas debuted a demonstration commercial tire at Waste-Expo. The tire supports the use of 70 percent recycled and renewable materials, making it the first commercially available tire in industry history to reach the milestone. It is the company’s first waste-specific tire to earn ISCC PLUS certification, a globally recognized system that supports the transition to a circular economy and bioeconomy. This voluntary certification standard validates the sustainability characteristics of alternative materials throughout the entire supply chain, from origin to end consumer. Bridgestone will also use the show to debut its new Drive-Over System for fleets. This innovative solution is the latest example of how Bridgestone is expanding its data collection capabilities through advanced technology.

The 70 percent recycled and renewable demonstration tire is based on the Bridgestone M870, a high-scrub, all-position radial waste and recycling tire specifically designed for urban waste collection fleets. Using a Mass Balance approach, this demonstration tire uses circular synthetic rubber like butadiene and halo butyl rubber, circular carbon black, and natural rubber. The Mass Balance approach is a chain of custody method used to trace

the flow of alternative materials through complex value chains. During the production process, the certified alternative materials are mixed with conventional materials, becoming indistinguishable over time. By using this approach, Bridgestone can document and track the exact quantity of alternative materials, ensuring the quantity matches what is used at the start of production. A limited run of tires will be used on waste fleets.

“The debut of this 70 percent recycled and renewable demonstration tire is not a glimpse into the future, but the reality of today,” said Steve Hoeft, president, Commercial Truck Group, Bridgestone Americas. “With this tire, and the work done with our supply chain, we’ve created new opportunities with a proven product by meeting the rigorous standards set by the ISCC. This tire directly demonstrates how Bridgestone can help fleets achieve their sustainability goals now with expertly manufactured premium tires.”

The tire marks a notable step towards total circularity, showing how the industry could more effectively utilize recycled and renewable materials collected by fleets. Bridgestone is committed to advancing and standardizing practices and supporting existing recycling efforts.

New technology turns used tires into raw materials

Billions of tires are discarded globally every year, and this is identified as one of the major causes of serious environmental pollution. A research team at KAIST Department of Chemistry has succeeded in selectively converting waste tires into high-purity cyclic alkenes, which are high-value chemical raw materials used as raw materials for rubber or nylon fibers. This is evaluated as a new turning point in the field of waste tire recycling.

Professor Soonhyuk Hong’s research team from the Department of Chemistry at KAIST have effectively solved the waste tire problem by developing a dual catalyst-based continuous reaction system. The research is published in the journal Chem.

Waste tires are composed of a complex of synthetic and natural rubber, and their physical strength and durability are maximized by including additives such as silica, carbon black, and antioxidants. In particular, cross-linking between rubber chains is formed through the vulcanization process, giving them a structure resistant to heat and pressure, which is one of the main reasons why chemical recycling of waste tires is difficult.

Until now, waste tire recycling has mainly relied on pyrolysis or physical crushing recycling methods. The pyrolysis method is a technology that decomposes polymer chains at high temperatures of 350–800°C to convert them into fuel oil, but it clearly has limitations such as high energy consumption, low selectivity, and the production of low-quality hydrocarbon mixtures.

To solve these problems, the research

team developed a method to convert waste rubber into useful chemicals using two catalysts. The first catalyst helps to break down rubber molecules by changing their bonding structure, and the second catalyst creates cyclic compounds through a ring-closing reaction.

This process shows high selectivity of up to 92 percent and a yield of 82 percent. The produced cyclopentene can be recycled back into rubber, and cyclohexene can be used as a raw material for nylon fibers, making them industrially very valuable.

The research team successfully applied the developed system to actual discarded waste tires, achieving selective conversion into high-purity cyclic alkenes. Unlike the existing pyrolysis method, this is evaluated as a new turning point in the field of waste tire recycling as it can produce high-value chemical raw materials through low-temperature precision catalytic reactions.

Furthermore, this technology can be widely applied to various types of synthetic rubber and waste rubber, drawing attention as a key original technology that can contribute to the realization of a resource-circulating economy.

Professor Soonhyuk Hong stated, “This research presents an innovative solution for the chemical recycling of waste tires, and we plan to develop next-generation high-efficiency catalysts and establish a foundation for commercialization to enhance economic viability,” continuing to say, “Our goal is to contribute to solving the waste plastic problem through basic chemistry.”



ADVERTISE WITH AMERICAN RECYCLER



- Digital Ads
- Package Deals
- Economical Choices
- Free Layout & Design
- Over 20,000 Subscribers

CALL
877-777-0737
TODAY!

EQUIPMENT SPOTLIGHT

Rubber Shredders

by MARY M. THORNTON
maryt@americanrecycler.com

Rubber recycling plays a vital role in environmental sustainability by reducing the accumulation of non-biodegradable waste in landfills and minimizing the environmental impact of tire disposal. The global scrap rubber market size is projected to reach the \$6.18 billion mark by 2033, according to Business Research Insights. The market is progressively embracing the principles of the circular economy. Manufacturers and governments are advancing in reducing waste and expanding operations to include the recycling of discarded tires so that fresh products and materials are the end result. These advances reduce dependency on raw rubber and contribute to environmental sustainability. By closing the loop in the tire lifecycle, waste and landfilling is reduced and the need for fresh resources is mitigated. This aligns with a more eco-conscious and resource-efficient practice, benefiting both the environment and the economy. Whether involving scrap rubber or other recycling processes such as tire-derived fuel production, there are many equipment options available for converting the material and downstream applications.

Shredders manufactured by Eldan Recycling are used to reduce waste size,

facilitating easier handling and further processing. A leading manufacturer of recycling equipment, Eldan specializes in shredders designed for a range of waste materials. For instance, the tire shredder plant (A-plant) transforms whole tires into shreds, ranging from 50 to 300 mm, which can be further processed into chips or granulate. “Eldan’s equipment is known for its durability, ease of maintenance, and adaptability to various waste streams,” Carsten Nielsen, product manager, stated.

Eldan’s Twin Shaft Clean-Cut Shredder produces uniform shreds, ideal for tire-derived fuel applications. The company’s product line also includes the Super Chopper, Multi Chopper and Ring Shredder. Each product is tailored for specific applications. These machines are integral to Eldan’s modular recycling plants, which process tires, cables, e-waste, and municipal solid waste. The Super Chopper is renowned for its high capacity and versatility, capable of processing up to 8 tons per hour and is particularly effective for pre-shredding large volumes of waste. The Multi Chopper offers flexibility for smaller operations, while the Ring Shredder is designed for fine shredding—an essential part of e-waste recycling, to liberate valuable metals.

Setting up these systems requires careful planning, including material sampling and customization to meet specific input types and desired output fractions. Eldan provides comprehensive support during installation and operation to ensure optimal performance.

Nielsen commented, “The recycling industry is experiencing a shift towards more sustainable practices, with increasing demand for efficient waste processing solutions. Eldan stays ahead by continuously innovating the technology involved in their products, to meet evolving regulatory standards and client needs. Established in 1956, Eldan’s commitment to quality and customer support positions us as a reliable partner in the recycling sector.”

The VULCANATOR® Rubber Granulator manufactured by Franklin Miller is a specialized solution designed to efficiently reduce large rubber bales into fine granules, and is used in the recycling, automotive and manufacturing industries. Capable of processing 75 lb. bales of synthetic or natural rubber, the Vulcanator handles various material types, including vulcanized and non-vulcanized rubber, sheets and chips.

A standout feature of the Vulcanator



Eldan Recycling

is its low-friction cutter design, which minimizes heat generation during operation. This eliminates the need for additional cooling systems, preserving the integrity of heat-sensitive materials and reducing energy consumption.

The granulator operates by feeding rubber into the unit – either manually or via conveyor – where rugged rotary knives pull the material into the cutting area. The rubber is then disintegrated into smaller particles that pass through

a sizing screen, ensuring uniform granule size suitable for various applications. Franklin Miller offers the Vulcanator in two models to accommodate different processing needs: The KM10 is equipped with a motor size up to 60 HP (45 kW). This model is versatile, handling materials like rubber, vinyl, and plastic, also making it suitable for various industrial applications. The KM30 features a robust 150 HP (110 kW) motor and is tailored for heavy-duty rubber processing,

See Rubber Shredders, Page B5



Franklin Miller Inc.



Granutech-Saturn Systems, Inc.



Dual



Quad

SHREDDERS FOR EVERY APPLICATION

Tires, Rubber, E-scrap... and more!

GRANUTECH SATURN



www.granutech.com

1-877-582-7800

Rubber Shredders

Continued from Page B4

efficiently reducing full bales to desired output sizes.

Constructed with heavy duty fabricated steel and a split-body design, the Vulcanator allows easy interior access for maintenance. Optional features include stainless steel construction, pneumatic discharge and liquid seals, enhancing its adaptability to specific operational requirements. "By integrating the Vulcanator into your operations, you can achieve significant reductions in processing time and costs, while ensuring high-quality granulated rubber output suitable for various end-use applications," said Garrett Pasono, marketing manager.

According to Greg Wright, vice president of Granutech-Saturn Systems, "Tire recycling is a large segment of our business and we manufacture equipment for all stages of tire recycling – from the primary shredder to fine grind refiner mills and everything in between. Tire derived fuel is a large segment of scrap tire recycling and other segments, including rubberized asphalt, sports turf crumb and rubber mulch. The science behind pyrolysis continues to advance as well.

Granutech offers over 50 years of manufacturing experience in size-reduction equipment. Added Wright, "The equipment we manufacture and recommend for tire recycling can vary greatly,



GRANUTECH-SATURN SYSTEMS

201 East Shady Grove Rd.
Grand Prairie, TX 75050-6699
877-582-7800
www.granutech.com
sales@granutech.com

For over 50 years, Granutech-Saturn Systems has led the industry in designing and manufacturing of heavy-duty size reduction machinery including single, dual, and quad shaft shredders along with crumb rubber processing equipment. For a wide range of materials, we can meet your needs for both production and sizing requirements.

depending on the customer's requirements. Depending on the final product size required, processing rates can range anywhere from one ton per hour up to 20 tons per hour. If a customer only wants to make a primary shred or a chip, we would recommend one of our dual shaft shredders, possibly with an external sizing screen, or a quad shaft shredder. If the goal is to reduce tires to a powder, then four stages of processing with various pieces of equipment at each stage are involved, performing various tasks. Reducing tires to crumb rubber is much different than performing a primary shred or chip, as removing the steel and fiber becomes a large part of the process at different stages and with a variety of equipment."

MANUFACTURERS

ENHANCED LISTING

Bano Recycling s.r.l.
John Bertling
905-318-5772
www.shredder-bano.com

BCA Industries
John Neuens
414-353-1002
www.bca-industries.com

CM Shredders
Mario Vazquez
800-848-1071
www.cmshredders.com

Eagle International
Anthony Yarger
800-755-8473
www.eagle-equipment.com

Eco Green
Brad Swenson
801-505-6841
www.ecogreenequipment.com

Eldan Recycling
Carsten Nielsen
716-731-4900
www.eldan-recycling.com

Franklin Miller Inc.
Garrett Pasono
973-535-9200
www.franklinmiller.com

Gradeall International Ltd
Stephen Murphy
44 28 8774 0484
www.gradeall.com

Granutech-Saturn Systems, Inc.
Greg Wright
877-582-7800
www.granutech.com

M&J Recycling
Jim O'Brien
704-589-3113
www.mjrecycling.com

Recycling Equipment Inc.
Cameron Cecil
888-734-3783
www.gogreenrei.com

SSI Shredding Systems, Inc.
Lee Sage
800-537-4733
www.ssiworld.com

Untha America
Julia Reichenbach
603-601-2304
www.untha-america.com

Zato North America
Ian Laffey
945-261-7916
www.zatonorthamerica.com



UPCOMING EVENTS

SEPTEMBER

9/15-9/17

Colorado SWANA Fall Conference

Hilton Fort Collins
Fort Collins, Colorado

www.coloradoswana.org/fall-conference

720-413-6142

OCTOBER

10/15-10/18

Automotive Recyclers Association Annual Convention, Birmingham

Jefferson Convention Complex & Sheraton
Birmingham, Alabama

www.a-r-a.org

571-208-0428

10/19-10/21

2025 Litter Control & Solid Waste Management Educational Conference

Canaan Valley Resort
Davis, West Virginia

www.awvswa.org

304-455-5262

PARTICIPATE IN THIS FEATURE FAVORITE!



FEATURED EQUIPMENT

SEP Electronics — Pulverizers

OCT Automotive — Fluid Removal

NOV Paper/Plastics — Granulators

DEC Metals — Eddy Currents

UPGRADE YOUR LISTING!

Required:
Company name, address, telephone number and company website address.

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

CALL 877-777-0043 TODAY TO RESERVE YOUR SPOT!

When it is time to sell, put **American Recycler** to work for you!

Streamline your marketing process with American Recycler!

Take advantage of customized strategies for your industry and bring the right customers to you!

- Digital & Print Marketing Channels
- Weekly & Monthly Online Classified Options
- Global Readership
- Free Creative Services



877-777-0043
www.americanrecycler.com



AD SPACE AVAILABLE

Rubber recycling

■ Continued from Page B1



Group (MCG) has begun producing carbon black from recycled tires. MCG creates carbon black by crushing tires in its coke ovens, and the company reports that the recycled carbon black is comparable to new carbon black. MCG plans to bring its recycled carbon black to market in 2026.

Despite significant progress along every segment of the end-of-life value chain, from recovery to sorting to reprocessing, rubber recycling still faces several challenges. One of the biggest hurdles that Lakhari pointed to is in the preservation of material properties. As he explained, “maintaining or restoring the mechanical strength, elasticity and overall quality of recycled rubber can be difficult, limiting its use in high-performance applications and ultimately leading to downcycled applications.”

Another hurdle facing the rubber recycling industry is in the supply chain complexity whereby collecting, transporting and handling bulky waste tires and rubber in a cost-effective manner requires efficient logistics systems, which are lacking in this industry.

In addition, Lakhari said that, like many other waste feedstocks, recycled rubber often competes with lower-cost virgin materials, making it harder to achieve widespread adoption without regulatory or market incentives.

“And recycling methods, such as pyrolysis, can be energy-intensive, produce undesirable by-products, or require costly capital equipment to achieve higher purity and efficiency,” Lakhari said.

Experts agree that the global rubber recycling industry has plenty of room to improve. Lakhari said progress will likely be shaped by embracing cutting-edge technologies, automating more processes, and using digital tools to track materials and ensure consistent quality.

“Collaboration across manufacturers, recyclers and regulators will be key to setting common standards and finding, or creating, new markets for recycled rubber,” Lakhari said. “As recycling capability advances, we can expect recycled rubber to show up in even more high-value products as recycling technologies scale and become more affordable.”

REMADE issues Request for Information for NYS waste tire program

The REMADESM Institute, a division of the Sustainable Manufacturing Innovation Alliance Corp., has issued a Request for Information (RFI) to solicit input from stakeholders to inform the New York State (NYS) Waste Tire Program. REMADE was selected to develop and administer the NYS Waste Tire Program earlier this year on behalf of the New York State Department of Economic Development.

The NYS Waste Tire Program will select and fund projects to develop and demonstrate technologies that will increase the use of end-of-life tires (ELT) generated across New York State. Prospective technologies include, for example, technologies to enable novel uses of whole or shredded tires; technologies for new and emerging applications for crumb rubber; technologies to enable increased retreading of tires; and technologies to incorporate materials from ELT into the manufacture of new tires.

This RFI is for information and planning purposes only and is not to be construed as a funding solicitation. REMADE anticipates issuing Requests for Proposals beginning in early Fall 2025 for this program, incorporating information provided in response to this RFI. Future funding opportunities are expected to total about \$8 million in investment.

REMADE is seeking information on multiple topics, such as the current state of recycling and retreading of ELT in New York State; opportunities to improve the collection and logistics for ELT; and emerging technologies and markets for products recovered from ELT.

Responses to the RFI are sought from industry, academia, non-profits, municipalities, New York State certified women and minority owned businesses and service disabled veteran owned businesses and any other stakeholders or interested parties.

EGLE funds 64 projects to recycle scrap tires

The Michigan Department of Environment, Great Lakes, and Energy (EGLE) has awarded \$1,105,000 in grants to fund 55 community scrap tire drop off events and other tire cleanups across the state.

Community events provide affordable, convenient tire recycling opportunities to residents, including the creation of year-round collections sites and roadside pickups. Additionally, nine new grant projects and one grant amendment will fund the removal of old scrap tire piles at private properties.

Improperly dumped scrap tires pose a fire hazard and create mosquito breeding grounds. Recycled scrap tires can be used in asphalt to pave roads, as mulch in gardens and playgrounds, and in manufacturing processes.

Grantees:

- Alger County: Alger Conservation District, \$12,000
- Antrim County: Antrim Conservation District, \$9,000
- Arenac County: Arenac Conservation District, \$21,000, and a 2025 private site, \$15,000
- Baraga County: Covington Township, \$6,000
- Barry County: A 2025 private site, \$9,000 and a 2024 private site amendment, \$6,000
- Benzie County Materials Management Department, \$12,000
- Calhoun County, \$15,000
- Charlevoix County: A 2025 private site, \$9,000
- Cheboygan County: Northeast Michigan Council of Governments, \$12,000, and Forest Township, \$6,000
- Clare County: Hamilton Township, \$6,000
- Delta County: Delta Solid Waste Management Authority, \$15,000
- Dickinson County: Breitung Charter Township, \$24,000
- Eaton County: Eaton County Resource Recovery as the fiduciary for events in Eaton, Barry and Clinton counties, \$27,000
- Emmet County Department of Public Works, \$12,000
- Genesee County: Farm Bureau, \$15,000 and Metropolitan Planning Commission \$9,500
- Gratiot County: Gratiot Conservation District, \$9,000
- Huron County: Huron Conservation District, \$12,000, Huron County Road Commission, \$6,000, Village of Sebewaing, \$6,000 and a 2025 private site, \$3,000
- Ingham County: Onondaga Township, \$6,000
- Iosco County: Plainfield Township, \$12,000
- Kalkaska County: Kalkaska Conservation District, \$12,000
- Kent County: Farm Bureau, \$7,500, and Courtland Township, \$6,000
- Leelanau County: \$6,000
- Livingston County: Department of Public Works, \$9,000, a 2025 private site, \$9,000 and Michigan



- State Park-Rose Lake District, \$9,000. Michigan State Park-Rose Lake District is the fiduciary for Livingston, Washtenaw, Jackson, Lenawee, Clinton, Ionia, Monroe and Wayne counties
- Manistee County: Manistee Conservation District, \$6,000, and Forsyth Township, \$6,000
- Mason County: Pere Marquette Charter Township, \$30,000 and Sherman Township, \$12,000
- Mecosta County: A 2025 private site, \$3,000
- Midland County: Greendale Township, \$6,000
- Missaukee County: \$9,000
- Monroe County: \$19,000, and London Township, \$6,000
- Montcalm County: Richland, Pierston and Reynolds townships, \$12,000; and Village of Sheridan, \$12,000
- Newaygo County Board of Public Works, \$21,000
- Oakland County: Holly Township, \$15,000
- Oceana County: Oceana Conservation District, \$9,000
- Ogemaw County: Mills Township, \$6,000
- Osceola County: Lincoln Township, \$18,000 and Osceola-Lake Conservation District, \$12,000
- Ottawa County, \$12,000
- Roscommon County: Charlton Heston Academy, \$12,000
- Saginaw County: Saginaw Conservation District, \$9,000
- St. Clair County: A 2025 private site, \$21,000, China Charter Township, \$15,000 and Clay Township, \$6,000
- Tuscola County: Tuscola County Recycling, \$30,000, Farm Bureau, \$6,000 and a 2025 private site, \$6,000
- Upper Peninsula: Superior Watershed Partnership as the fiduciary for all U.P. counties, \$78,000
- Van Buren County: Van Buren Conservation District as the fiduciary for events in Allegan, Berrien, Branch, Kalamazoo and Van Buren counties, \$100,000
- Wayne County: Greater Detroit Resource Recovery Authority, \$225,000, City of Dearborn, \$12,000 and River Rouge, \$6,000
- Wexford County: A 2025 private site, \$12,000

Fornnax partners with RPM Automotive on tire recycling

Fornnax announced its role in RPM Automotive Group Limited's ground-breaking tire recycling endeavor. A notable figure among Australia's automotive parts distributors, RPM's ambitious initiative underscores a deep commitment to environmental stewardship. To realize this vision, RPM has strategically integrated Fornnax's high-capacity SR-200 HD primary shredder into their operations. This addition has not only significantly boosted RPM's production efficiency but also elevated the quality of their recycled output, solidifying Fornnax's position as a leader in sustainable recycling technology.

"Here at Fornnax, we truly get how urgent it is to deal with end-of-life tire waste, not just in Australia but everywhere," said Jignesh Kundaria, director and chief executive officer of Fornnax. He added, "The SR-200 HD Primary Shredder is designed to be incredibly efficient, making sure RPM can process huge amounts of discarded tyres while keeping their operations running at peak performance. This partnership exemplifies our dedication to equipping our clients with the robust, high-performance solutions they need to lead in the circular economy."

Driving Innovation in Australia's Tire Recycling Market

RPM's state-of-the-art 3,500 square meter recycling facility is currently handling more than 180 tonnes of used

tires per week, with plans to scale operations to exceed 300 tonnes per week. At full capacity, this initiative will allow RPM to secure approximately 5 percent of the national market share, reinforcing its influence in the country's circular economy.

Beyond processing efficiency, RPM's recycling program adopts reverse logistics and engages with the open market to source tires for repurposing. By leveraging its existing distribution network and customer base, RPM is set to collect and recycle up to 54,000 tonnes of end-of-life tires within the next five years, a critical step in reducing landfill dependency and fostering a more sustainable future.

RPM's recycling efforts extend beyond responsible waste disposal. Through innovative repurposing strategies, the company is converting discarded tires into recycled rubber-based products that support key industries. These materials will be utilized in road infrastructure projects, and as low-grade diesel fuel for industrial kilns, mills, and power plants, effectively closing the loop on tire waste.

This initiative arrives at a pivotal moment, as Australia's federal government's ban on tire waste exports has heightened demand for domestic recycling solutions. RPM's program directly addresses the nation's growing waste challenge, bridging the gap between waste generation and successful recovery efforts.

USTMA highlights tire safety

The U.S. Tire Manufacturers Association (USTMA), representing tire manufacturers that produce tires in the U.S., launched National Tire Safety Week 2025, an annual public education campaign to raise awareness about the critical role of tire care in driver safety. This year's campaign ran June 30 to July 4, with a spotlight on Ohio, one of the nation's most heavily traveled road systems where diverse road conditions and extreme seasonal swings underscore the need for proactive tire care and maintenance. USTMA also released key findings from a recent survey of U.S. motorists that suggests while many drivers understand the basics of tire care and maintenance, knowledge gaps still exist.

"Ohio drivers often face a mix of conditions in a single day, from busy highways to rural roads to rapidly changing weather," said Richard Gust, chief executive officer, Tire Industry Association. "Proactive tire care helps ensure those conditions don't catch you off guard. During National Tire Safety Week, we're reminding Ohioans that taking a few minutes to check your tires can make all the difference in keeping your family safe."

Ohio ranks among the top states for vehicle miles traveled, with over 122 billion miles driven annually. The Ohio Turnpike alone reported more than 3.1 billion vehicle miles traveled in 2023, reflecting the state's central role in regional and cross-country commerce and travel. With more vehicles on the road, paying attention to proper tire care is critical to keeping drivers, passengers, and communities safe on the road.

The USTMA survey of 2,000 U.S. drivers ages 16 and older provided the

following insights about tire safety awareness:

- 40 percent of Ohio drivers correctly identified the vehicle manual or driver's side door placard as the place to find proper tire pressure.
- 78 percent of Ohio drivers are aware that tires have built in tread wear indicators, which make it easier to determine if a tire has enough tread to be considered safe. (It's important to note, when the tops of these bars are flush with the tire's tread, the tire needs to be replaced).

These findings suggest that Ohio drivers have a relatively high level of awareness about the importance of proper tire maintenance compared to the national average. However, many drivers in the state are still unclear about some of the most basic tire safety details. More than half of the Ohio drivers surveyed could not properly identify where to find the correct tire inflation pressure, which is measured in PSI (pounds per square inch).

Ohio's seasonal climate variability adds to the challenge. Winters can bring temperatures well below freezing, while summer highs regularly climb into the upper 80s. These shifts can cause significant tire pressure fluctuations, which can lead to uneven wear and blowouts if left unaddressed. Additionally, Ohio's frequent freeze-thaw cycles degrade pavement, increasing the risk of pothole-related tire damage and misalignment.

"Tires are the only part of a vehicle that touches the road, and their condition plays a critical role in keeping everyone safe, from drivers and passengers to pedestrians," said Anne Forristall Luke, USTMA president and chief executive officer.

We understand that advertising budgets have limits while your advertising needs do not, so we provide comprehensive packages that include print ads, digital ads and trade show distribution. Call 877-777-0043.





28300 Kensington Lane, Ste. 500
Perrysburg, OH 43551

800-823-9688

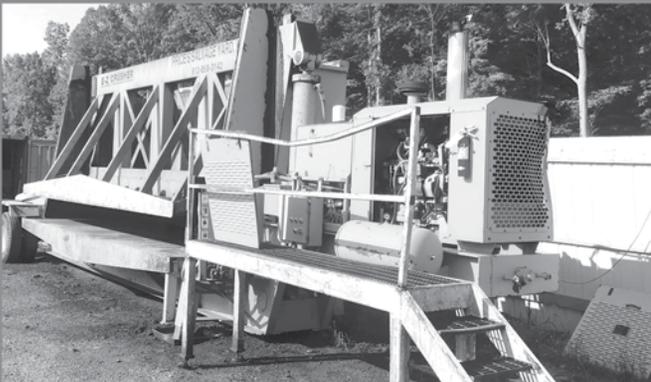
CREATIVE FINANCIAL SOLUTIONS

ABOUT US

Over 40 years specializing in the salvage, recycling and waste industries. As experts in the industry we know your equipment!

OUR SERVICES

- Financing new and used equipment
- Refinancing used equipment
- Working capital loans





Apply online at www.DADECapital.com



Got a used car crusher?
We have buyers.

Used shredder?
We have buyers.

Used material handler?
We have buyers.



Dade Auctions connects buyers with sellers in the salvage, recycling and waste industries. Over 38 years we've built an enormous list of industry contacts and a reputation for fairness, integrity and total transparency. We can help you get more for your used equipment.

That's why the vast majority of our buyers and sellers come back to Dade Auctions again and again.



THE EQUIPMENT MARKETPLACE
FOR SALVAGE, RECYCLING & WASTE

Got used assets collecting dust? Call us.

844.333.3030 | www.DADEAuctions.com