



American Recycler

NewsVoice of Salvage, Waste and Recycling

AmericanRecycler.com

FOCUS: Paper

Paper packaging surge impacts paper recycling



WHAT'S INSIDE

Scrap Metals MarketWatch..... 10
 Business Briefs..... 15
 Classified Advertisements..... 15
 Equipment Spotlight..... B4

- Michigan legislature passes bill to update solid waste law. Page A6
- United Steelworkers approve four-year labor contract. Page A10
- Georgia-Pacific wins award for breakthrough technology. Page B6

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

02.2023

CHANGE SERVICE REQUESTED

American Recycler

1789 Indian Wood Circle, Ste 250
Maumee, OH 43537

Recovering more metals from EV batteries is key for recyclers

by MAURA KELLER

mkeller@americanrecycler.com

The demand for lithium and other metals within EV batteries is set to grow exponentially in the coming years. While mining will continue to play a significant role in meeting the need for these battery materials, EV battery recycling is expected to help supplement mining and bridge the gap between supply and demand.

“Beyond the clear need to meet demand, battery recycling promotes sustainability, can be done domestically, and avoids some of the ecological and labor challenges associated with mining,” said Eric Frederickson, managing director of operations and compliance at Call2Recycle.

According to Fredrickson, EV battery chemistries depend on five minerals whose domestic supply is potentially at risk for disruption: lithium, cobalt, manganese, nickel and graphite, according to a Congressional Research Service report from early 2022.

“The U.S. Geological Survey designated these and other minerals as ‘critical,’ according to the methodology codified in the Energy Act of 2020,” Frederickson said. “To avoid supply chain issues, automakers are beginning to turn to battery recycling as a way to meet demand for key metals in batteries. Battery recyclers are also evaluating and investing in new technologies that will make recycling more efficient and maximize the quantity of metals extracted from EV batteries.”

Opportunities Abound

Industry experts agree that there is evident need for recycling of EV batteries



The demand for battery metals is very strong, driving the prices higher.

and the materials they contain. Automakers and other industry players are preparing for the EV batteries that will reach their end-of-life in the years ahead. The federal government is increasingly supporting efforts to strengthen EV battery recycling too, which is part of a growing awareness of the need to secure a domestic supply of strategic minerals.

Frederickson pointed to the Bipartisan Infrastructure Law, which has earmarked funding for EV battery recycling, and part of \$3 billion invested into the battery supply chain. The Inflation Reduction Act has also provided incentives for automakers to use recycled materials in their batteries, and EV manufacturers are already turning to battery recycling to help make their supply chains more sustainable.

“Altogether, the significant growth in EV battery recycling investment we’ve witnessed in recent years has been driven by a rapid increase in EV sales, strong demand for battery materials to power the transition to clean energy, growing awareness of the harms of improper recycling for large format batteries, and legislative efforts to create a domestic battery supply chain,” Frederickson said. “This convergence of factors offers a tremendous opportunity for the industry to scale up its capacity in coming years, but it also speaks to the volume of challenges facing the industry during its transition from a collection of startups to an established sector.”

Steve Christensen, executive director of the Responsible Battery Coalition (RBC), said that at the RBC, their OEM members are already looking to recycled metals from all viable form-factor batteries as sources of materials.

“Price and availability continue to be concerns. The demand for battery metals is very strong, driving the prices higher,” Christensen said. “The technology exists to refine spent battery components to be used in any form. However, the refining process to achieve that level increases the cost of these materials making them less desirable than newly sourced materials. Incentives for the use of recycled materials in batteries could change this.”

David Regan, vice president of commercial at Aqua Metals, said that cobalt, nickel and lithium are all critical metals, and are all expected to fall short of supply chain needs. According to Benchmark Metals, the year-over-year price increase of lithium is 182.6 percent and the International Energy Agency (IEA) says the world could face lithium shortages by 2025.



PHOTO COURTESY OF VOLKSWAGEN

As part of its battery strategy and its sustainability strategy, Volkswagen AG is very interested in the realization of a closed loop of cell materials.

See EV BATTERIES, Page A4

**#1 Selling
CRUSHER!**

HIGH-SPEED CAR CRUSHER



- 10 Foot Opening, the Largest in the Industry
- Advanced Oil Recovery System
- State-of-the-Art Automation System
- 400-gallon Fuel Cell and Optional Auxiliary Fuel Pump
- Optional High-speed Oil Bypass System
- Electric Stationary Models Available
- 22' & 24' Length Car Crushers Also Available

HIGH-SPEED BALER/LOGGER

- 20' Charge Box
- Bale Size is 40" W X 26" H and Variable Log Size
- 225 Tons Baling Pressure Per Door
- 175 Tons Logging Pressure Per Ram w/a Twin Ram System
- 180 Gallon Fuel Cell, Additional 180 Gallons Available
- 26.5' Crane Reach with a Lift Capacity of 5,000 lbs. at 25'



800-548-6469
605-352-6469
www.OverBuilt.com
sales@overbuilt.com



OverBuilt

Huron, South Dakota

ISRI accepting submissions for 2023 award

ISRI announced that it is now accepting submissions for the 2023 Design for Recycling® (DFR) Award. The DFR Award is ISRI's highest award given annually to the most outstanding contribution to products designed with recycling in mind. The award recognizes manufacturers who design with recycling in mind in the same manner they consider cost, safety, and other factors.

"The role of recycling in manufacturing is perhaps more critical than ever," said ISRI president Robin Wiener. "As manufacturers work to ensure sustainability goals are met, and supply chains are not disrupted, incorporating recycling into a product's design from the conception phase is the answer. Now is the time to applaud those manufacturers who factor in recyclability when designing their products."

Last year, ISRI named Sonoco Alloyd as its 2022 DFR winner. Sonoco received the award for its revolutionary Sonoco Alloyd EnviroSense® PaperBlister™ package that offers a recyclable alternative to traditional retail plastic-to-card blister packaging. Previous winners include Nestlé Waters North America; Lexmark; Cascades Fine Papers Group; Coca-Cola Recycling Company; LG Electronics; Samsung Electronics; EcoStrate SFS; and Cascade Engineering.

To be eligible for the award, a product must be designed/redesigned and manufactured to be:

- Easily recycled through current or newly designed recycling processes and procedures;
- Cost effective to recycle, whereby the cost to recycle does not exceed the value of its recycled materials;
- Free of hazardous materials that impede the recycling process;
- Maximizing the use of recycled materials and/or components within product manufacturing; and
- Having a net gain in the overall recyclability of the product while reducing its overall negative impact on the environment.

Interested parties can enter online before the February 17, 2023 deadline. Applicants will be notified by March 20, 2023. The winner will be officially recognized at the ISRI2023 Convention and Exposition to be held April 17-20 in Nashville, Tennessee.

I told my boss three companies were after me and I needed a raise to stay at my job.

We haggled for a few minutes and he finally agreed to give me a 5 percent raise.

As I was leaving his office, he stopped me and asked, "By the way, which companies are after you?"

I responded, "The gas, electric and cable companies!"

Morton Township Recycling in Michigan receives \$10,000 Ice Mountain grant



Morton Township Recycling Center, Michigan has received a \$10,000 grant award from Blue Triton through its Ice Mountain brand.

Blue Triton brands, formerly Nestle Waters North America, has supported the Morton Township Recycling program with contributions now totaling \$105,000.

Located at 8560 Midstate Drive, the recycling center serves about 250 customers per week and has maintained a recycling volume of 90 plus tons per year for the past 2 years, with 91 tons recycled between July 2021 and June 2022 and 93 tons between July 2020 and June 2021.

Arlene Anderson-Vincent, natural resources manager with BlueTriton Brands salutes the great strides being made by local community recycling centers. These rural community-based recycling programs provide residents the resources needed to dispose of and

Waste Pro drivers and helpers earn over \$1 million in safety awards

In 2022, Waste Pro awarded 115 employees the company's coveted Safety Award. A total of \$1,030,000 was awarded to 91 drivers and 24 helpers who remain dedicated to safely serving the communities within the Southeastern United States.

The Bureau of Labor Statistics has consistently ranked solid waste collection in the top five most dangerous jobs in the U.S., with fatality rates being as high as 10 times the national average. Waste Pro's founder and executive board chairman John Jennings established the \$10,000 Safety Award Program in 2004 for drivers. To earn the \$5,000 or \$10,000 awards, helpers and drivers must go three years without an at-fault accident, injury, or incident causing property damage; have a record of excellent customer service; maintain a well-kept truck; and have a strong attendance record.

repurpose materials like cardboard and plastics, as well as safe disposal of toxic household hazardous wastes like oil, paint, and other chemicals.

"We applaud Morton Township Recycling Center, Osceola Township's spring and fall clean up days, and Mecosta and Osceola-Lake Conservation District's annual Household Hazardous Waste Collection program," she said. "Ice Mountain is pleased to award \$10,000 each to Morton and Osceola township recycling programs and through the Ice Mountain Environmental Stewardship Fund, \$12,900 to the Mecosta and Osceola-Lake Conservation District Household Hazardous Waste Collection program."

The Recycling Partnership forms strategy

The Recycling Partnership, a mission-driven NGO committed to advancing a circular economy by building a better recycling system, is announcing its 5-point plan to fix recycling. Since its inception in 2014, The Recycling Partnership has been addressing big challenges head-on, collaborating with the full spectrum of stakeholders to drive recycling system change.

Here is The Recycling Partnership's 5-point plan to fix the U.S. recycling system:

- Ensure all households can recycle – 40 million U.S. households still lack the ability to recycle at home.
- Help the Public Understand What's Recyclable in Their Town – Research shows that 60 percent of people believe recycling is confusing.
- Make packaging recyclable – The Recycling Partnership believes in a future where all packaging is circular (meaning all packaging can be reused, composted, or recycled) – that will eliminate the guess work of recycling.
- Support policy to help pay for a better recycling system – Cash-strapped communities cannot afford to be the only source of funding for a better recycling system.
- Invest in the future – Establish a \$17 billion investment over 5 years to deliver the benefits of recycling to the public.



WINDSHIELDS



VINYL GRAPHICS



FASTENERS

Inductor® Max Kit (IM-IND2011)

Quickly and easily remove vinyl graphics, auto glass, mechanical and suspension parts. Remove body side molding and pinstriping in seconds, quarter glass in less than 3 minutes, and windshields in less than 12 minutes. The Inductor Max uses high-frequency magnetic fields to generate Invisible Heat® in metallic car parts *without the collateral damage of open flame to nearby parts.*



INCLUDES:

- > Max Power Supply
- > Glass Blaster®
- > Fast-Off® Pad
- > Concentrator®
- > One-Year Warranty
- > 2 L-Wedges

APPLICATIONS:

- > Auto Glass
- > Spray-in Bedliners
- > Vinyl Graphics

Manufactured in the USA with genuine OEM parts. Contact your local tool distributor today.



INDUCTION INNOVATIONS
www.theinductor.com
877-688-9633

Follow Us on Social Media:



EV batteries

■Continued from Page 1

“The other critical metals are rapidly increasing in demand and in value and we could see shortfalls across the board if recycling does not ramp up to fill the supply gap. 2023 is a big year for recycling technologies to start delivering product to battery manufacturers both sustainably and economically,” Regan said.

Regan further pointed out that the global lithium-ion battery recycling market is projected to increase from \$41B in 2021 to \$116.6B by 2030, partly driven by the increased demand for EV batteries, fueled in turn by strict requirements and incentives, such as those for increased North American mining and battery production in the Inflation Reduction Act (IRA). Meeting those domestic requirements via mining is both time consuming and polluting.

“We do expect EV and lithium-ion battery manufacturers will have to incorporate recycled metals to meet demand in the near term. In fact, battery manufacturers and OEMs are already partnering and investing in recycling, knowing their mined raw material supply is likely to fall short within the coming decade,” Regan said.

New Challenges

As the EV market is a relatively new one, the challenges arising as it relates to recycling the metals within EV batteries are plentiful.

For one, Frederickson explained that the timeframe between when lithium-ion batteries enter the market and when they reach end of life, is estimated at 10 to 13 years, which adds a layer of complexity to scaling the industry.

“In the last few years, we’ve seen a significant number of new players enter the industry, so overall capacity to recycle batteries has gone up. But since many EV batteries won’t come off the market for years, there’s significant uncertainty about when these batteries will actually make their way to recycling plants,” Frederickson said. “Right now, many new processors are prima-

rily recycling production scrap. Given the growth in domestic battery manufacturing, this will help get the industry up and running. Scaling the industry appropriately for end-of-life EV batteries will take careful planning, investment, and coordination, with readjustments at each step of the way as new data comes in and technology evolves.”

The industry will also need to figure out how to deal with other uncertainty, including whether demand for different battery materials will shift, how future legislation will affect battery sourcing and recycling, and if advanced battery compositions will alter the financial incentives of battery recycling.

Safety also needs to remain a priority throughout the recycling process. Proper handling, procedures and training are crucial to protect the physical safety of people and organizations trying to transport and recycle EV batteries, not to mention the environmental harms brought on by improper disposal.

“Given their size and weight, it’s not as simple as just removing these batteries, putting them in a box, and shipping them. There are a myriad of logistics, challenges and regulatory intricacies in safely and compliantly handling, storing, shipping and recycling EV batteries,” Frederickson said.

Call2Recycle is working to solve these challenges by sharing its vast regulatory and logistics expertise to address the unique challenges of EV batteries. Recently, Call2Recycle collaborated with the Suppliers Partnership for the Environment (SP) to publish a guidance document “Regulations Governing Shipment of Electric Vehicle (EV) Batteries in the U.S.”

“The guide was intended to help unravel those complexities by highlighting the noteworthy regulations and current requirements that stakeholders will need to understand and comply with when managing an EV battery at the end of its useful life,” Frederickson said.

Finally, Frederickson pointed to the lack of established pathways between EV owners and battery processors. That’s one of the areas that Call2Recycle is focused on: How can they facilitate and refine the EV battery’s journey from consumer to processor?

Craig Bouchard is the founder of Real Alloy and investor in Ecolution, which recycles, stores and distributes electricity consumed by moving vehicles. Ecolution and its partners/customers will become large buyers of first-life and second-life lithium-ion batteries.

According to Bouchard, manufacturers like Tesla, GM, Ford, BMW, Daimler, Volvo, Toyota, Nissan and others are trying as hard as they can to learn how to recycle to improve their costs and supply chain issues.

“But these large companies are not finding answers that move the needle. Not even Tesla, Bouchard said. “Lithium batteries need to follow the path of lead batteries, which are easily recyclable and have an industry with

distribution that readily accepts and recycles lead batteries. But lithium batteries contain much more energy in small packages, which make them desirable for electronics and e-vehicles. My guess is that the global EV demand explosion will lead to new battery technologies, probably solid state in nature, eventually making lithium-ion yesterday’s news.”

Future Outlook

The recycling industry has always known that battery recycling is an important mechanism to prevent the environmental harms of batteries ending up in landfills, but we’re also starting to see broader recognition that battery recycling, especially for EVs, is a matter of fighting climate change and ensuring national security through critical minerals.

“Recycled metals are essential to a future circular economy for EV batteries. Research conducted by the University of Michigan in partnership with RBC member, Ford Motor Company, concluded that there would be sufficient resources for the next 100 years to support the growth in lithium demand from vehicle electrification with the condition that lithium from end-of-life vehicles is recycled,” Christensen said. “The research analyzed scenarios with recycling participation at 90 percent, 96 percent, and 100 percent and with a 90 percent lithium recovery efficiency.”

“It’s interesting to consider what the future will look like if and when EVs reach full market saturation. Once this happens, most of the metal used to make new EV batteries will come from recycled batteries,” Frederickson said. “On average, 80 percent of the lead used in U.S. manufacturing of new lead batteries comes from recycled lead batteries. While the economics of lead acid battery collection and recycling are different from EV battery recycling, it does provide a glimpse into a future where the main source of battery material comes from recycled batteries.”

As more and more EVs hit the road, Frederickson said there are plenty of reasons to be confident in the role metal recycling from EV batteries will play in the years ahead. The trick will be navigating future uncertainty and making sure that we don’t have too little or too much capacity to handle the EV batteries that reach their end-of-life.

“If we get it right, battery recycling will play an integral role in meeting the demand for the battery materials that will power an electrified economy,” Frederickson said.

Regan thinks high-purity recycled metals also will be a crucial component of the global effort to increase use of EVs and mitigate the devastating effects of climate change.

“The recycling industry is in its infancy, and will need to deliver on a sustainable, cost-effective supply chain for battery manufacturing,” Regan said. “Lithium-ion battery waste produced by EVs is currently expected to rise to 11M metric tons by 2030, so recycling is also a necessary endeavor to curb additional waste stream pollution. There is great opportunity here for the recycled metals industry and now is the time to start delivering.”



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

Owner, Publisher and Editor

ESTHER G. FOURNIER
news@AmericanRecycler.com

Print and Digital Production

MARY E. DARLOW
mary@AmericanRecycler.com

Marketing Representatives

MARY M. THORNTON
maryt@AmericanRecycler.com

MARY E. DARLOW
mary@AmericanRecycler.com

Circulation Manager

DONNA L. MCMANUS
donna@AmericanRecycler.com

Writers and Contributors

MAURA KELLER
mkeller@AmericanRecycler.com

RON STURGEON
rons@rdsinvestments.com

MARY M. THORNTON
maryt@AmericanRecycler.com

Production Offices

1789 Indian Wood Circle, Ste 250
Maumee, OH 43537
877-777-0043 fax 419-931-0740
www.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 www.AmericanRecycler.com. US 1 year \$58; 2 years \$89.

©COPYRIGHT 2023 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.

J.S. SCHECKEL
HEAVY EQUIPMENT CORPORATION

» 2015 CAT MH3059 »

Material handler, 10,955 Total hours, 3,614 Idle hours. 7,341 Actual working hours on this machine. Ground access and high rise cab, 130,000 lbs Operating weight, 35' Boom, 29' Stick, Generator, 5,600 to 40,000 lb lift capacity depending on position. 325 HP. Pressure tested and ready to go. Less than half the price of new. **\$348,000**

BELLEVUE, IOWA | 563.872.4112
SALES@JSCHECKEL.COM | JSCHECKEL.COM



DANIELI CENTRO RECYCLING



Scrap metal recycling equipment for every scrap metal application.

See us at ISRI, booth #735!



DANIELI LYNXS
DANIELI HENSCHEL
DANIELI RIVERSIDE PRODUCTS

One stop for scrap recycling
www.danieli-centro-recycling.com

724-900-8750

WASTE

Michigan legislature passes bill to update solid waste law

The Michigan legislature just passed a historic eight-bill package designed to update Michigan solid waste law. Supporters expect the bills to be signed by the Governor soon.

This package is the product of 7 years of deliberation in workgroups that included more than 70 different stakeholder groups from Michigan Recycling Coalition to the Michigan Chamber of Commerce. House Bills 4454-4461, which garnered significant stakeholder and bipartisan support, passed through the Michigan House of Representatives in late April of 2021 and finally received approval by the Michigan Senate on the final day of the lame duck period.

With funding secured and an updated policy framework finally in place, Michigan can begin to develop a circular economy to the benefit of Michigan's economy and environment.

Michigan Department of Environment, Great Lakes and Energy communications manager, Hugh McDiarmid said, "The solid waste and recycling statute updates represent long overdue legislation to modernize materials management systems."

The Michigan Recycling Coalition led the effort to move the package through both houses. According to Michigan Recycling Coalition executive director Kerrin O'Brien, "The changes to Michigan solid waste policy

embodied in the bill package mitigate the policy preference for landfill disposal of solid waste. Counties will soon be funded and incentivized to plan for needed infrastructure, programs, and services to manage waste more productively through reduction, recycling, composting, and more."

Late amendments to the package, caused much consternation for the environmental community but ultimately the amendments addressing chemical recycling do not change the current regulatory structure. McDiarmid and O'Brien also clarify the fact that these types of facilities do not process solid waste and are not covered under Part 115 but are thoroughly regulated by other areas of environmental law like those governing air quality and industrial groundwater.

"Updating the recycling laws in Michigan has been a discussion since I started in the recycling industry in 2016. This is a huge step forward for recycling and composting. I am looking forward to the prioritizing of landfill diversion and sustainable materials management in Michigan," said Andi Tolzdorf Emmet County DPW director.

In 2018, the Michigan Recycling Coalition worked with the Snyder administration to capture legislative approval for Renew Michigan. This fund provides \$24 million annually.

Casella utilizes first electric refuse vehicle in Vermont

Casella Waste Systems, Inc., introduced its Mack® LR Electric model, the first electric refuse vehicle in the State of Vermont, in a ceremony at the Killington Grand Hotel.

Casella's LR Electric refuse truck is the first in its fleet and has been equipped with an automated side-loader with a split body for collecting waste and recycling simultaneously.

By switching one truck from diesel to electric, Casella expects to conserve over 7,500 gallons of diesel fuel per year, which has an immediate benefit to our air and climate. Because the fleet will be charging with Green Mountain Power, which delivers 100 percent carbon-free electricity, the company expects to eliminate over 78 metric tons of greenhouse gas emissions per year.

The Mack LR E will be used on residential routes in the Rutland Region and was partially made possible when Casella successfully secured grant funding through the Vermont Department of Environmental Conservation's Volkswagen Environmental Mitigation Trust. Casella believes that Vermont will provide the right proving ground for the pilot program.

"Sustainable innovation is core to everything we do as a company," said Casella chairman and chief executive officer, John W. Casella. "The opportunity to pilot the Mack LR Electric in Vermont will help us evaluate whether this is a viable option in other markets that we serve. The opportunity to cut greenhouse gas emissions, while maintaining a high level of service to our customers, is key to us."

iDiskk penalized for truck fires

A San Jose recycling company has been ordered by a Santa Clara County Superior Court Judge to pay \$25,000 in civil penalties for causing dangerous fires to start in the back of garbage trucks in Campbell, California.

The company, iDiskk, LLC, its principal Yue Zou, and her husband Lei Zhang, were all held responsible for improperly throwing away lithium batteries, which burst into flames in three trucks last fall. No one was hurt

in the fires. During an October 13 fire, the garbage truck lifted the bin to dump the load in the street to avoid damage to the vehicle. In doing so, the bin caught overhead utility lines causing the adjacent utility pole to break and fall to the ground.

In addition to paying civil penalties, iDiskk, LLC, Zou, and Zhang agreed to be bound by a permanent injunction never to improperly dispose of hazardous waste again.

SOAR
SUSTAINABILITY. OPERATIONS. ACTION. RESOURCES.
Technical Solutions for Resource Management

»»»

TECHNICAL SOLUTIONS FOR RESOURCE MANAGEMENT

APRIL 17-20, 2023 | ATLANTA, GA

Collocated with Waste Conversion Technology Conference and Trade Show

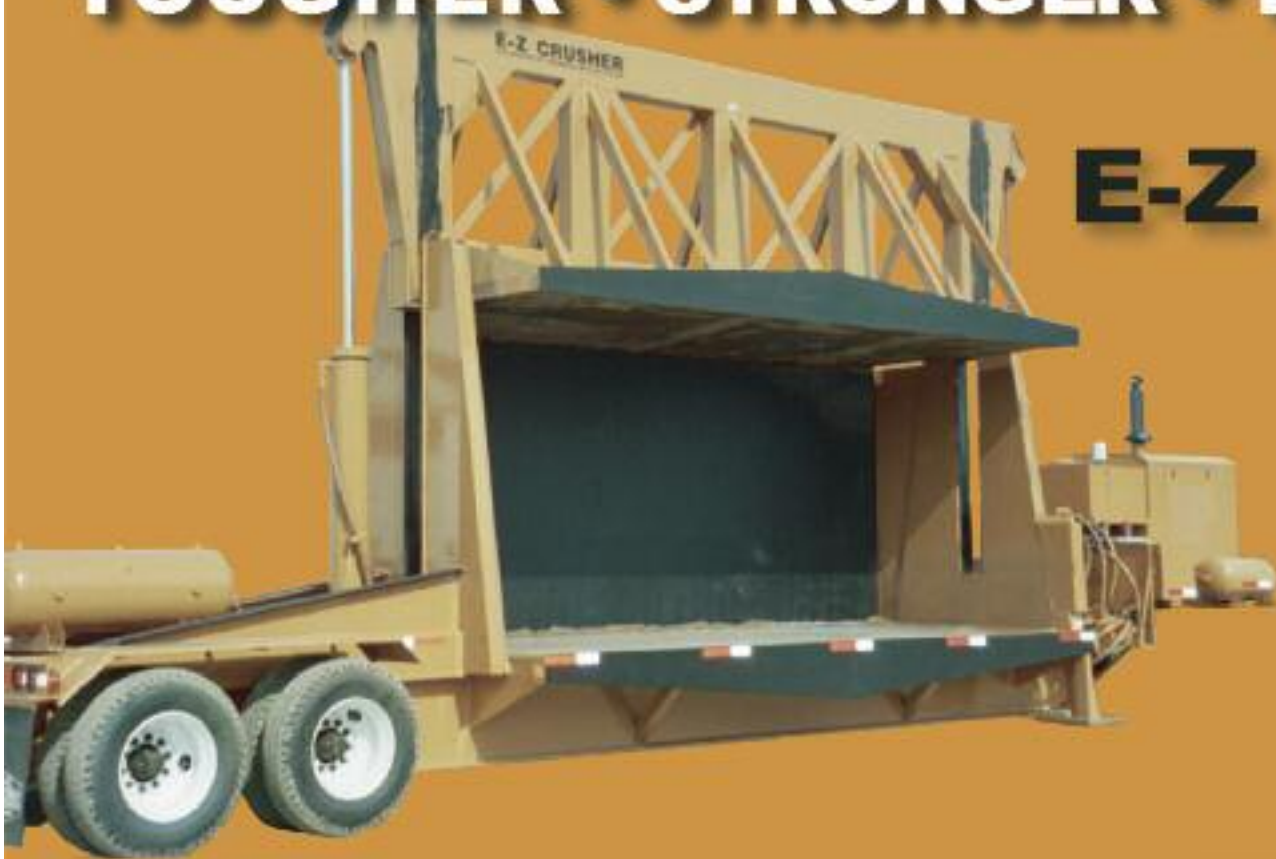
Discuss emerging technologies, address the industry's biggest challenges and develop innovative and action-oriented strategies. It's a can't-miss event for professionals looking for implementable solutions to transform waste into a resource

REGISTER! SWANASOAR.ORG

©2017, Atlanta Convention & Visitors Bureau

ALL THIS FOR UNDER \$200K!

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

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 | Fax: 320-274-3859

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



GRUENDLER 48 VERTICAL SHREDDER
1991, 100HP SHREDDER.



ELDAN 400C CABLE SEPARATION PLANT
INCLUDES RASPER, GRANULATOR, AND MORE!



2001 DAEWOO 220LC IRONAX IA25R
NEW BLADES ON SHEAR. RUNS WELL!



1990 E-Z CRUSHER MODEL B
READY TO START CRUSHING CARS!



2006 RM JOHNSON E-Z BALER MODEL 2
ONLY 1,500 HOURS ON NEW MOTOR. GOOD WORKING CONDITION!



1995 E-Z CRUSHER MODEL A
NEWER CYLINDERS, RADIATOR, AND TURBO!



2008 HITACHI 240LC w/LABOUNTY BLS80 SHEAR
NEW ENGINE WITH LESS THAN 25 HOURS!



2021 CAT 926M WITH SAS SCORPION
UNDER 1,000 HOURS. GREAT CONDITION!



CAT 320L W GENESIS GMS 300 SHEAR
WELL MAINTAINED PAIR!



AMERICAN PULVERIZER MODEL 22 HAMMERMILL
100HP. 22" ROTOR. READY TO WORK.



2007 OVERBUILT CAR CRUSHER
UNDER 800 HOURS! READY TO START CRUSHING!



2021 LOADMASTER 70' TRUCK SCALE
STILL UNDER MANUFACTURER WARRANTY!

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

BUYERS WITH SELLERS

See all equipment at www.DADEauctions.com



MAREN 72-IT HORIZONTAL BALER
40HP. MANUAL TIE.



NEW IRONAX ENVIRORACK FLUID DRAIN SYSTEM
THE EASIEST WAY TO PREP YOUR CARS!



2011 SENNEBOGEN 825 MATERIAL HANDLER
NEW ENGINE 3,500 HOURS AGO.



SET OF 4 RUBBER LOADER TIRES 24 LUG
48" OUTSIDE, 33.5" INSIDE WITH 6" RUBBER LEFT.



2018 SPALECK 3D COMBO SCREENER
ONLY 300 HOURS ON THE METER! CAN BE USED FOR AUTO FLUFF.



JOMAR DAISY WHEEL CLASSIFIER
SET UP FOR 3" CUT.



FRONTIER 1125 BALER
MAKES A 24" X 16" X VARIABLE BALE.



R-TECH HD 3850 DUAL SHAFT SHREDDER
250HP. 50" x 38" FEED OPENING.



2006 SGM VIS 60 EDDY CURRENT
60" BELT WITH VIBRATORY FEEDER.



2012 SENNEBOGEN 825 WITH GRAPPLE
FOUR GOOD RUBBER TIRES. READY TO GO TO WORK!



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

October 2022 crude steel production numbers are in

Top 10 Steel-Producing Countries

	OCT 2022	% Change OCT 22/21	JAN-OCT 2022 (Mt)	% Change OCT 22/21
CHINA	79.8	11.0	860.6	-2.2
INDIA	10.5	2.7	103.8	6.1
JAPAN	7.3	-10.6	75.2	-6.5
U.S.	6.7	-8.9	68.1	-4.8
RUSSIA	5.8	-11.5	60.4	-6.6
SOUTH KOREA	5.1	-12.1	55.7	-5.0
GERMANY	3.1	-14.4	31.4	-6.9
TURKEY	2.9	-17.8	30.2	-10.1
BRAZIL	2.8	-4.5	28.7	-5.2
IRAN	2.9	3.5	25.1	9.0

World crude steel production for the 64 countries reporting to the World Steel Association (worldsteel) was 147.3 million tonnes (Mt) in October 2022, a 0.0 percent change compared to October 2021.

Crude steel production by region

Africa produced 1.4 Mt in October 2022, up 2.3 percent on October 2021. Asia and Oceania produced 107.3 Mt, up 5.8 percent. The EU (27) produced 11.3 Mt, down 17.5 percent. Europe, Other produced 3.7 Mt, down 15.8 percent. The Middle East produced 4.0 Mt, up 6.7 percent. North America produced 9.2 Mt, down 7.7 percent. Russia & other CIS + Ukraine produced 6.7

Mt, down 23.7 percent. South America produced 3.7 Mt, down 3.2 percent.

Top 10 steel-producing countries

China produced 79.8 Mt in October 2022, up 11.0 percent on October 2021. India produced 10.5 Mt, up 2.7 percent. Japan produced 7.3 Mt, down 10.6 percent. The United States produced 6.7 Mt, down 8.9 percent. Russia is estimated to have produced 5.8 Mt, down 11.5 percent. South Korea produced 5.1 Mt, down 12.1 percent. Germany produced 3.1 Mt, down 14.4 percent. Turkey produced 2.9 Mt, down 17.8 percent. Brazil is estimated to have produced 2.8 Mt, down 4.5 percent. Iran produced 2.9 Mt, up 3.5 percent

United Steelworkers approve four-year labor contract

The United Steelworkers (USW) union has ratified four-year labor agreements covering approximately 11,000 workers at United States Steel Corporation.

According to U. S. Steel, the agreements, which are retroactive to September 1, 2022, provide a \$4,000 appreciation bonus, increases in U. S. Steel's pension contribution and increases to base wages. U. S. Steel said that wages will have risen more than 21 percent by the time the contracts expire in September 2026.

"The new agreements balance the needs of our employees, customers, stockholders and other stakeholders. We will continue to work together in implementing our Best for All strategy

and transforming the future of steel through strategic investments in innovation, sustainability, operational excellence and the communities in which we operate," said U. S. Steel president and chief executive David B. Burritt.

"With the new contract ratified, union members will be safer at work and our jobs and benefit more secure than they have been in the past," said USW District 7 director Michael Mill-sap, who chaired the union's bargaining committee. "Our continued solidarity will ensure that we keep the tradition of steelmaking alive in our communities for another generation of Steelworkers."

November steel shipments down 3.8 percent from prior month

The American Iron and Steel Institute (AISI) reported that for the month of November 2022, U.S. steel mills shipped 6,938,520 net tons, a 12.1 percent decrease from the 7,893,990 net tons shipped in November 2021. Shipments were down 3.8 percent from the 7,210,301 net tons shipped in the previous month, October 2022. Shipments year-to-date in 2022 are 82,613,742 net

tons, down 4.9 percent vs. 2021 shipments of 86,848,042 net tons for 11 months.

A comparison of shipments year-to-date in 2022 to the first eleven months of 2021 shows the following changes: corrosion resistant sheet and strip, down 9 percent, hot rolled sheet, down 9 percent and cold rolled sheet, down 14 percent.

Increase your PROFITS from your Irony Aluminum Scrap!

WE OFFER SWEAT FURNACES IN MANY SIZES TO SUIT YOUR NEEDS!



With our furnace processes, you can create 3 products:

- Aluminum ingot, ready for the mill
- Clean HMS 1 or HMS 2 steel ready for the mill
- Furnace hearth dross, set for further processing

No matter what size you choose, the payoff average is 6 months with operation costs as low as 4 cents per pound aluminum processed.



Recycling Services International

518-424-1168

www.RecyclingFurnaces.com

facebook.com/RecyclingFurnaces

Call us to increase your bottom line!

Scrap Metals MarketWatch



Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
FERROUS						
#1 Bushelings	per gross ton	\$401.00	\$400.00	\$410.00	\$410.00	\$412.00
#1 Bundles	per gross ton	365.00	370.00	373.00	375.00	384.00
Structural	per gross ton	340.00	343.00	345.00	349.00	360.00
#1 & #2 Mixed Steel	per gross ton	290.00	291.00	294.00	310.00	360.00
Crushed Auto Bodies	per gross ton	163.00	165.00	182.00	185.00	201.00
Shredded Auto Scrap	per gross ton	345.00	346.00	398.00	400.00	410.00
NON FERROUS						
#1 Copper Bare Bright	per pound	3.60	3.60	3.61	3.90	3.87
#2 Copper Wire & Tubing	per pound	3.42	3.45	3.49	3.71	3.68
Aluminum Cans	per pound	.64	.67	.70	.70	.71
Al/Cu Radiators	per pound	1.70	1.73	1.74	1.79	1.83
Aluminum Radiators	per pound	.60	.60	.61	.63	.64
Heater Cores	per pound	1.45	1.47	1.47	1.50	1.51
Stainless Steel	per pound	.58	.57	.59	.65	.68

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.

ISRI 2023

CONVENTION
& EXPOSITION

APRIL
17-20

NASHVILLE

ELECTRONICS | FERROUS | GLASS | NONFERROUS | PAPER | PLASTICS | TIRES & RUBBER | TEXTILES

★ REGISTER NOW AT ISRI2023.ORG



RECYCLING'S
BIG EVENT



METALS

Finished import market share up in December

Based on the Commerce Department's most recent Steel Import Monitoring and Analysis (SIMA) data, the American Iron and Steel Institute (AISI) reported that steel import permit applications for the month of December totaled 2,182,000 net tons (NT). This was a 1.9 percent increase from the 2,141,000 permit tons recorded in

November and an 8.8 percent increase from the November preliminary imports total of 2,006,000. Import permit tonnage for finished steel in December was 1,850,000, up 5.2 percent from the preliminary imports total of 1,758,000 in November. For the full year of 2022, total and finished steel imports were 30,822,000 NT and 25,245,000 NT,

down 2.0 percent and up 10.9 percent, respectively, from the same period in 2021. The estimated finished steel import market share in December was 23 percent and is 24 percent for 2022.

For additional information, view this article on www.AmericanRecycler.com.



WasteExpo has always been a moving experience. WE move products, people, tech—and the needle.

Need proof? Take look at these numbers: 97% of attendees recommend WasteExpo to a colleague, 50% influence or recommend buying decisions, 37% make final purchase decisions and nearly a quarter ask for a price quotation.

So make your move to WasteExpo and join over 14,000 of the best minds in the business.

LET'S GROW TOGETHER. VISIT WASTEEXPO.COM

**MAY 1-4, 2023 • ERNEST N. MORIAL CONVENTION CENTER
NEW ORLEANS, LA USA**



Produced by: In Collaboration with:

Dade Capital advances operations

DADE Capital Corp. has split off the buying, selling and customer service operations of its business and is now operating as DADE Auctions Inc. the company announced. Known as America's marketplace for used equipment for the salvage, recycling and waste industries, DADE Auctions' updated identity better represents its comprehensive services for buyers and sellers. DADE Capital Corp. will continue to offer financing options.

Andrew Fournier, appointed company president in 2021, stated, "We wanted this new name and logo to truly reflect our revitalized commitment to the four pillars of our mission: exceptional customer service, complete transparency, better results and increased customer loyalty."

"Over 38 years, we've built a reputation for fairness, integrity and total transparency," Fournier said. "That's why the vast majority of our customers come back again and again. And we will maintain our high standards of service as we grow."

Now, with nearly four decades of exceptional service and an unmatched list of industry contacts, he said, "DADE Auctions is looking ahead to expand our reach with buyers and sellers and offer easier access to information. And DADE Capital will continue to provide customers with flexible financing options by partnering with institutions that truly understand our customers' needs."

Tata Steel selects Danieli for new project

Tata Steel Long Products has awarded Danieli with the order for a new SBQ bar and wire rod mill to be installed in Jamshedpur – East Singhbhum district of Jharkhand – the first planned industrial city in India.

The new mill will roll 150 x 150, 200 x 200 and 240 x 200 square billets into finished 20 to 90mm diameter round bars and wire rod from 5.5 to 25mm diameter.

The bar mill will consist of a reversible stand followed by 12 housingless stands arranged in H-V configuration, a cooling bed equipped with hardness control by insulated covers and complete bar finishing services.

The wire rod line will feature an eight pass finishing block and a twin-module block - TMB followed by controlled cooling conveyor and V+H coil handing system. The high tech equipment will be manufactured at Danieli quality workshops in Buttrio, Italy, and Sri City, near Chennai, in India.

Tata Steel Long Products mill will be the 24th Danieli rolling mill in India, and 145th for special bar quality in the world.

Aqua Metals completes pilot installation; begins operations



Aqua Metals, Inc., which is reinventing metals recycling with its AquaRefining™ technology, announced it has completed equipment installation and is now operating its first-of-a-kind lithium battery recycling facility, utilizing electricity to recycle instead of intensive chemical processes, fossil fuels or high-temperature furnaces.

Located at the company's Innovation Center in the Tahoe-Reno Industrial Center in Nevada, the pilot is now operational with the introduction of feedstock into the automated system.

"This is an unprecedented accomplishment for Aqua Metals, and for the global push toward electrification," said Steve Cotton, president and chief executive officer, Aqua Metals. "We believe that Aqua Metals is the first company to take a vision beyond the laboratory, by establishing an industrial scale, dedicated, U.S.-based recycling facility, built to continuously produce metric tons of high-purity minerals from spent lithium-ion batteries. We are confident that Aqua Metals is now positioned to be the first metals recycling facility in North America to recover battery-grade lithium hydroxide from spent batteries in commercial quantities, and to initiate sales of recycled critical minerals into both metals markets and the lithium-ion battery supply chain."

The company's Li AquaRefining technology is a low-emissions, closed-loop recycling solution capable of recovering all valuable metals, including high-purity lithium, manganese, cobalt and nickel from lithium batteries. The

company's goal is to demonstrate its belief that Li AquaRefining is an economically superior process that offers a lower cost pathway to recycle critical minerals and achieve net-zero emissions.

Li AquaRefining utilizes electroplating powered by electricity to recover metals instead of intensive chemical processes or polluting fossil-fuel furnaces. The patent-pending Li AquaRefining enables low-cost and efficient production of high-purity products – drastically lowering emissions and limiting waste streams – and is designed to significantly reduce capital and operating costs.

"I applaud our entire team for completing the successful equipment installation and working through the supply chain challenges to commence operations of this state-of-the-art recycling facility," said Ben Taecker, Aqua Metals' chief engineering and operating officer. "This is a foundational step for Aqua Metals as we begin scaling to demonstration capacity and subsequent full scale commercial operations of what we believe is the world's cleanest and lowest-cost lithium battery recycling technology."

Aqua Metals anticipates the following milestones in the first quarter of 2023:

- Achieving targeted product specs for each high-purity metal.
- Ramping up to process metric tons of black mass per month.
- Becoming the first company in North America to recover battery-grade lithium hydroxide from spent lithium-ion batteries in commercial quantities.

Amazon's plastic packaging waste jumped 18 percent

Oceana released a new report "The Cost of Amazon's Plastic Denial on the World's Oceans" revealing that Amazon generated an estimated 709 million lbs. of plastic packaging waste last year. This is an 18 percent increase over Oceana's 2020 estimate of 599 million lbs. Oceana found, based on data from a peer-reviewed study on plastic waste pollution published in Science in 2020, that up to 26 million lbs. of this plastic waste will end up in the world's waterways and seas. The type of plastic used by Amazon – plastic film – can be damaging to marine life.

"The science is clear, the type of plastic used by Amazon for its packaging is a threat to the oceans. Customers and shareholders are calling for the company to act. It's time for Amazon to, as it has on climate, step up and commit to a global reduction in its use of plastic packaging," said Matt Littlejohn, Oceana's senior vice president for strategic initiatives.

Amazon refuses to outline a plan and commit to a company-wide reduction in plastic use. At its annual general meeting in May 2022, nearly 49 percent of Amazon's shares – totaling 181 million shares – voted in favor of a resolution asking the company to address its growing plastic packaging problem. This is the most support that a shareholder-led resolution has received in Amazon's history.

Despite Amazon's commitment to transparency for its other sustainability efforts, the company has not been transparent about its global plastic packaging footprint. On December 13, 2022, Amazon released a blog which stated, "[i]n 2021, we reduced average plastic packaging weight per shipment by over 7 percent, resulting in 97,222 metric tons [just over 214 million pounds] of single-use plastic being used across our global operations network to ship orders to customers."

U-PULL-IT? U-PROFIT!

with

SELF-SERVICE AUTO RECYCLING SYSTEM

CRUSH™

Ask us about **CRUSH LITE!**

SIMPLIFY SEARCHES and INCREASE PROFITS

- Simple touch screen POS for speedy checkout
- Pre-bid vehicles with curb weight options
- Integrated Interchange to locate all possible vehicle matches in your yard
- Track scrap & commodity sales
- Save thousands in NMVTIS Submissions
- Daily management reports
- Vehicle purchasing, scanning, yard tracking & search features

**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

**“OUR INDUSTRY IS ALWAYS EVOLVING, AND CONEXPO-CON/AGG
KEEPS US AHEAD WITH EQUIPMENT THAT MAKES OUR JOB EASIER,
FASTER AND MORE EFFICIENT.”**

— AMERICAN PAVEMENT SPECIALISTS, DANBURY, CT



**CONEXPO
CON / AGG**

MARCH 14-18 / 2023 / LAS VEGAS / NEVADA



- › **2.7M Square Feet of Exhibits**
- › **130,000 Attendees**
- › **1,800 Exhibitors**
- › **150 Education Sessions**

REGISTER at conexpoconagg.com
Save 20% with promo code **SHOW20**

BRIEFS

Doosan Infracore North America names new CEO

■ Chris Jeong was recently named the new chief executive officer at Doosan Infracore North America. He succeeds Edward Song, who was promoted to global sales head of Hyundai Doosan Infracore in Korea.

Jeong most recently served as chief executive officer for Doosan Infracore European Union. He joined Doosan in 2006 as a senior corporate strategy manager after completing his MBA at Carnegie Mellon University. He led strategic activities across various markets before he was promoted to vice president of sales and marketing for emerging markets. Chris oversaw sales and marketing for Doosan employee teams in Asia, Oceania, Commonwealth of Independent States, Middle East, Africa, Latin America, Brazil and India.

Song led Doosan Infracore North America to success during his time as chief executive officer. Among his many accomplishments were establishing two regional parts distribution centers in North America, opening the machine customization plant in Savannah, Georgia, and most recently introducing the new Doosan machine monitoring center at the corporate office in Suwanee.

ERI opens new electronics recycling facility in Arizona

■ ERI, a fully integrated IT and electronics asset disposition (ITAD) provider and cybersecurity-focused hardware destruction company, announced that due to steadily continued growth, it has opened a new recycling facility in Goodyear, Arizona (near Phoenix) marking the company's 13th operational location and ninth full-scale recycling facility.

Located at 215 N. 143rd Avenue, the new facility will serve as a south-western recycling operations hub for the ITAD and e-waste recycling leader.

Located within the Goodyear Gateway South complex, a Class A master-planned industrial park just north of the Phoenix Goodyear Airport, the new facility is already fully operational.

News of ERI's Arizona location comes on the heels of the company's recent announcement that it has achieved carbon neutral status at all its facilities nationwide – a first for the e-waste recycling industry – which includes carbon neutrality for the new Arizona facility.

Nucor promotes Noah Hanners to executive VP

■ Nucor Corporation announced that Noah Hanners was promoted to executive vice president.

Hanners began his career with Nucor in 2011 as melt shop engineer at Nucor Steel South Carolina. He currently serves as vice president and general manager of The David J. Joseph Company. Prior to joining Nucor, Hanners served as a major in the United States Army.

Classified ADVERTISEMENTS

877-777-0043

—Always Available—

PLACE YOUR TEXT AD ONLINE

www.AmericanRecycler.com

Rates

Text Classifieds

\$85 for up to 50 words.
Add \$1 each additional word.

Display Classifieds

\$80 per column inch depth,
2.5" width.

ALL CLASSIFIED ADVERTISEMENTS MUST BE PAID IN ADVANCE.

UPGRADE YOUR AD WITH FULL COLOR!

Featured Classifieds

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.

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

Armor Hog Repair and/or Replacements, & Electronic Mill Grinding

ArmorHog tips NitroGel

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

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!

609-854-3520

rs@sternerconsulting.com
sternerconsulting.com

IRON AX ENVIRO-RACK

Complete fluid removal in less than 5 minutes!



The Enviro-Rack is the most superior auto fluid removal and dismantling system on the market today.

877-247-6629 • IronAx.com

NEED CASH? TURN YOUR USED EQUIPMENT INTO CASH by selling it in American Recycler's Classifieds Section. Call 877-777-0043 or visit AmericanRecycler.com to place your ad today!

Material Handlers

Fuchs | Liebherr | Sennebogen | CAT

MATERIAL HANDLERS

20 Machines with Cab Risers, Gen-sets & Rotating Grapples
IN STOCK!



New and Used Grapples, New Magnets and Gen-sets, New 24V Magnets

303-699-7766



2007 Colmar C302 Material Handler

- Solid rubber tires
- Grapple is included
- Hydraulic landing gear and pushing blade
- Currently used as a backup
- Sold as-is where-is

844-333-3030

Miscellaneous

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.

Miscellaneous

2011 Bulk Handling Systems Residue Transfer Conveyor



Model LPS-48 | S/N: 1868-016-0511
Approx. 62' long. Belt is approx. 48" wide. Part of a large indoor MRF system. Removed from service in 2021. Came out running.

Seller is open to offers. Sold as-is. Seller is willing to load on your truck(s) given enough notice.

(567) 207-3030

WE BUY AND SELL USED RECYCLING EQUIPMENT

HOVDE RECYCLING EQUIPMENT
480-699-2460 TEXT 320-760-5688
scrapequip.com steven@scrapequip.com

Tire Recycling

COMPLETE TIRE CRUMB LINE. Shred Tech, Eldan, Rotex and more! Infeed and discharge conveyors, dual shaft shredder, Eldan rasper, multiple overbelt magnets. Tire wire belt, discharge conveyors, multiple transfer conveyors. Rotex screener with 4 different wire mesh screens, auger conveyors, Kice multi-aspirators, MPI drum magnet, bag hoppers, Eriez drum magnet, magnetic head pulley. Eldan granulator, vacuum discharge, MAC cyclone, Sweco dual deck screener. Large outdoor MAC cyclone/bag house... Too many pieces to include here! Call for photos and more details: 844-333-3030.

APRIL

FOCUS: Metals

SPOTLIGHT: Scrap Handlers

Close Date: 03/20

MAY

FOCUS: Plastics

SPOTLIGHT: Sorting Systems

Close Date: 04/17

BOOK YOUR SPACE TODAY! 877

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!



**100%
Powered
by Air!**



**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

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



Paper packaging surge impacts paper recycling

by MAURA KELLER

mkeller@americanrecycler.com

While online shopping has seen significant growth over the last decade, the recent pandemic resulted in exponential online shopping by consumers, as brick-and-mortar retailers closed their doors and consumers were cautious about leaving their homes. As a result, paper packaging and subsequently, paper recycling trends have risen.

George Harrison, director of marketing and operations of Pkgmaker.com said that the packaging industry is booming as e-commerce continues to expand. With more and more transactions happening online, the demand for efficient, protective, and aesthetically pleasing packaging solutions has never been higher.

“When it comes to the types of packaging most sought-after in this sector, cardboard boxes are perhaps the most popular option amongst retailers due to their cost efficiency and range of sizes available,” Harrison said. “Recyclability and recycled content of packaging is growing in importance with companies increasingly recognizing the need to reduce their environmental impact. Packaging companies are responding by taking a number of different steps, including more efficient use of materials, reduced waste generation, and using more sustainable alternatives.”

Indeed, the influx in packaging has been a major boon for the paper recycling industry. As Harrison explained, with more consumer goods being packaged in paper, many companies are now able to take advantage of the profits from buying, processing and re-selling recycled paper products.

“Overall, the influx of packaging means good news for both packagers and recyclers alike as each party stands to gain from cutting down on costs and improving customer satisfaction all while contributing towards better environmental stewardship – something everyone should be invested in,” Harrison said.

According to Caroline James, director of sustainability at Atlantic Packaging, a large privately owned industrial packaging company, as e-commerce shopping gains popularity and consumers’ attitudes simultaneously shift away from single-use plastics, they are seeing a dramatic increase in the number of boxes and paper-based packaging used to move products through the economy.

“We’re excited about this shift since paper comes from renewable resources, whereas petroleum-based plastic does not, and paper for e-commerce is typically curbside-recyclable, unlike flexible plastics,” James said.

While corrugated boxes are one of the most ubiquitous items consumers see, James said the good news is that these boxes are also one of the most frequently



Nano and Advanced Materials Institute created the nano-shield coating to make paper packaging more sustainable. This liquid solution prevents the spread and penetration of water and oil on paper.

PHOTO COURTESY OF THE INNOVATION HUB@HK

and easily recycled items in the U.S. – experts estimate that between 69 and 92 percent of old corrugated cardboard (OCC) is recycled.

“Recycling rates of other paper hover around 80 percent, too. Compare this to less than 10 percent of plastics, and the relative circularity of corrugate and paper becomes clear,” James said. Furthermore, varying amounts of recycled fiber can be integrated into all kinds of products, so end markets for recycled paper remain strong. Consumers want to be able to place packaging items into their recycling bin, and paper packaging helps them do so.

Innovations To Note

“Packaging companies are doing their best to respond to demand and better support recyclable content by aiding in streamlining the supply of waste paper,” said Jack Hubbell Rosene, marketing coordinator at Erdie Industries, an Ohio-based packaging company. “While we have made incredible progress since the 1990s in reclaiming used paper, there are other fields outside of packaging for companies to expand into. For example, there are many products made with plastic that more eco-friendly paper equivalents could replace.”

Innovated packaging materials are undoubtedly affecting the paper recycling industry. One such innovation is the use of biodegradable, compostable materials for packaging. “These materials can break down easily within a short period of time and don’t create

waste or pollution, making them perfect for sustainable packaging solutions,” Harrison said. “They’re also lightweight and require less energy to produce, helping to improve transport efficiency and cost savings too. Additionally, they can save on landfill space since they decompose quickly – something all recyclables should feature.”

Another trend gaining traction is sustainability-focused design principles being incorporated into packaging structures. For example, Harrison pointed to designs that incorporate recycled materials into their construction that could reduce raw material usage while still ensuring structural integrity during transit.

“This could make it easier for recyclers to sort through post-consumer products more efficiently as well as economically. After all, recyclers don’t want to dedicate extra manpower or resources towards sorting through non-compatible items without any pay-off,” Harrison said.

Rosene added that beyond recycling, the packaging industry will likely begin to see more biodegradable options.

“Paper can only be recycled a number of times before it can no longer maintain structural integrity,” Rosene said. “So whether or not the packaging is meant to be recycled or thrown away, there are still options to prevent landfills from overflowing.”

See PACKAGING, Page B7



1962 | 2022

MAREN
Balers & Shredders

60 YEARS of building customer loyalty that's as strong as our balers!

Check out Maren's "best in class" balers, build with 60 years of baling experience... the extensive ProPAK Series has just the right baler for Warehousing & Distribution Centers!

Talk to a recycling baler Pro!

marenengineering.com • sales@marenengineering.com



UPCOMING EVENTS

FEBRUARY**02/26-02/28****The 36th Southeast Recycling Conference & Tradeshow/SERC.**

Rosen Centre Hotel.

Orlando, Florida.

www.southeastrecycling.com

850-386-6280

MARCH**03/14-03/15****C&D World 2023.**

Paris Las Vegas.

Las Vegas, Nevada.

www.cdrecycling.org

866-758-4721

03/14-03/18**CONEXPO-CON/AGG 2023.**

Las Vegas Convention Center.

Las Vegas, Nevada.

www.conexpoconagg.com

864-658-5740

APRIL**04/03-04/04****Northeast Recycling Council Spring Conference, Virtual.**

www.nerc.org

802-451-8852

04/17-04/20**SWANA S.O.A.R.**

Georgia World Congress Center.

Atlanta, Georgia.

www.swana.org

301-589-7068

04/17-04/20**ISRI Convention & Expo.**

Music City Center. Nashville, Tennessee.

www.isri.org

202-662-8500

04/27-04/29**United Recycler's Group.**

Hyatt Regency Grand Cypress,

Orlando, Florida.

www.u-r-g.com

303-367-4391

04/24-04/26**Aluminum Association Spring Meeting.**

The Greenbrier. White Sulphur Springs, West Virginia.

www.aluminum.org

703-358-2960

04/25-04/26**CARE 21st Annual Conference.**

Hyatt Regency Orlando

International Airport Hotel.

Orlando, Florida.

www.carpetrecovery.org

706-428-2127

MAY**05/01-05/04****WasteExpo.**

Ernest N. Morial Convention Center.

New Orleans, Louisiana.

www.wasteexpo.com

203-358-4384

International Paper makes changes to executive team

International Paper made changes to its senior leadership team including the retirement of a long serving executive and organizational shifts to enhance agility in serving customers and driving profitable growth.

Greg Wanta, senior vice president of the company's North American Container business, will retire after transitioning responsibilities.

The following leadership moves are effective immediately:

Tom Hamic has been named senior vice president, North American Container and chief commercial officer. Hamic joined the company in 1991 and served in a variety of sales, marketing and strategy leadership roles, including positions in the company's containerboard and North American container businesses. Most recently, Hamic led significant commercial and financial improvements in the company's Global Cellulose Fibers business.

Jay Royalty has been named senior vice president, containerboard and recycling. He will also retain interim responsibility for the company's EMEA Packaging business. Royalty joined the company in 1991 and has served in a variety of converting, sales, marketing and finance leadership roles. He most recently served as senior vice president, EMEA Packaging.

Clay Ellis has been named senior vice president, Global Cellulose Fibers. Ellis joined the company in 1992 and has served in a variety of manufacturing, engineering, technical and commercial leadership roles, including positions in the company's pulp business. Most recently, he served as senior vice president, Enterprise Operational Excellence.

The International Paper Board of Directors has elected two new executives to Sutton's leadership team:

Aimee Gregg has been elected senior vice president, Supply Chain and Information Technology. Gregg joined the company in 2002 and has served in a variety of sales, operations and business leadership roles in the company's North American Industrial Packaging business. She most recently served as vice president and general manager, Containerboard and Recycling.

Allison Magness has been elected senior vice president, manufacturing and environment, health and safety. Magness joined the company in 2000 and has served in a variety of engineering, manufacturing and business leadership roles. She most recently served as vice president, South Area, North American Container.

Toilet paper companies are graded

Environment America Research & Policy Center released a report that grades six toilet paper manufacturers and distributors on their environmental and forest protection policies and actions. The progress report, entitled Unrolling the year's progress: Were toilet paper companies softer on the environment?, comes one year after Environment America Research & Policy Center sent tissue companies, including Amazon, Costco, Georgia-Pacific, Kimberly-Clark, Procter & Gamble and Walmart, recommendations to reduce their impact on forests.

In the progress report, toilet paper companies are graded on three metrics: whether or not they sell products made of entirely recycled fibers or alternative fibers, such as sustainably grown bamboo; their Scope 3 emissions reduction plan, or lack thereof; and their commitment to and implementation of a free, prior and informed consent policy to protect the lands rights of Indigenous Peoples and forest-dependent communities.

"Toilet paper companies need to step up to reduce their impact on forests. There is no reason that using toilet paper should mean flushing away the future of our climate, biodiversity and people across the world," said Sammy Herdman, Environment America Research & Policy Center's Save The Boreal Forest Campaign associate and author of the report. "The companies highlighted in this report have net worths of billions of dollars, which stems from innovation and ambition. Now is the time for them to step up to the plate and put that innovation and ambition to use saving our global forests."

Much of the virgin wood pulp used to make toilet paper is sourced from the Canadian boreal forest, which is logged at a rate of one million acres per year. Ongoing logging in the boreal forest threatens to release the 300 billion tons of carbon, which is nearly twice as much carbon as all of the world's recoverable oil reserves. Despite the worsening severity of natural disasters and global leader's pledges to end deforestation, the at-home tissue market continues to drag their feet to protect forests and our climate.

"Some tissue manufacturers use entirely recycled wood fibers to make their products. It's disheartening to see Costco, Georgia-Pacific and Walmart relying entirely on virgin wood fibers from critically important forests like the boreal to make toilet paper," said Herdman.

In addition to campaigning for corporate responsibility, Environment America Research & Policy Center recently released a guide for consumers who want to shop for wood-based products, including toilet paper, sustainably.

Participate in this feature favorite!

AR EQUIPMENT SPOTLIGHT

To be included in the spotlight, you must **manufacture** the equipment featured. We require a company name, one contact person, a telephone number and, if applicable, a website address.

To be listed in the appropriate spotlight, please call

877-777-0043

or e-mail

maryt@americanrecycler.com.



UPCOMING TOPICS

APR Scrap Handlers

MAY Sorting Systems

JUN Magnets

JUL Wheel Loaders

AUG Tire Recycling

SEP Software

OCT Balers

NOV Primary Reduction

DEC Shears

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.

STEEL'S PREMIER TECHNOLOGY

AISTech[®]

GLOBAL EVENT SPONSORS



8-11 MAY 2023
DETROIT, MICH., USA



The ultimate gathering of iron and steel industry professionals!
REGISTER NOW AT AISTECH.ORG

EQUIPMENT SPOTLIGHT

Paper Shredders

by MARY M. THORNTON

maryt@americanrecycler.com

The American Forest and Paper Association has quantified the following regarding paper recycling in the U.S.: Every year since 2009, the recycling rate has met or exceeded 63 percent; in 2021, the recycling rate for cardboard/corrugated was 91.4 percent. The same year, nearly half of recycled paper was used to produce containerboard – the material used to make tissue products, paper towels, newspaper and cardboard, food and medicine boxes. The following describes examples of products used in the recycling industry to process all types of paper material and more.

Julie Anderson, account representative, claimed that “Ameri-Shred’s solid reputation is based on the innovative solutions and exceptional customer service that we’ve provided for over 40 years. Our equipment is known for its superior durability. We specialize in industrial paper shredders, hard drive shredders, solid state drive shredders, and our HD/SSD combo model. Our vast manufacturing capabilities enable us to build standard and custom equipment with great agility and we also provide some of the best lead-times in the industry.”

Anderson said that as there are many shredder options and designs, there is a match for each client application, depending on the type of material being processed, throughput, desired particle size, feeding method, etc. “The good news is that Ameri-Shred has the sales and support team to help. Our comprehensive approach for problem solving, delivery, and service after the sale enables us to provide customers with individual shredders as well as complete systems, including ancillary equipment.

“Despite industry changes through the years, the need for shredding and document destruction is still crucial. Along with a large volume of paper documents involved, the need for destruction of personal electronic storage devices such as hard drives, cell phones, tablets and other related digital data grows exponentially with each passing day,” Anderson stated. She also views the use of machine diagnostics growing ever more important in the shredding industry. “Operations diagnostics, overall shredder performance metrics, and options for predictive maintenance can improve efficiencies, increase productivity, and increase ROI. Shredders add economic benefits in recycling applications far exceeding the initial cost of installation. Realizing the possibility of growth in an ever-expanding industry can add great value to your bottom line. Also, we can make it possible to expand your operations to a full system in a timely fashion.”

Ameri-Shred also offers a full line of auxiliary recycling equipment, which includes conveyors, cart tipplers, box dumpers, dust collectors, metering systems, and balers for independent use or for complete shredding systems.

Granutech-Saturn Roto-Grind® single-shaft shredders have provided processing solutions to the paper recycling industry since the mid 1990s. Roto-Grind single shaft shredders are available in four sizes. All but the M80E are available in either hydraulic or electric options and have worked extremely well in paper recycling applications.

“Each of our Roto-Grind shredders has a horizontal 20 h.p. ram, which does an exceptional job maintaining the most efficient throughput, as it is metered via the



Granutech-Saturn Systems

load amperage/pressure in relation to the shredder’s motor. The horizontal feed also helps to eliminate excessive bridging of material, which provides optimum throughput. Along with our horizontal ram, we also offer multiple blade sizes and configurations which again, help our customers to better dial in on the perfect machine for their application,” noted Jon Maly, national sales manager, cutter division.

Product cutting configurations range from 2 to 4 rows of cutting blades and blade sizes range from 30 to 60mm among the Roto-Grind models. Standard 4 models are M80E 60 h.p., M110E 100 h.p., M160H 150 h.p. and M240H 300 h.p.. In addition to horizontal ram and blade configurations, horsepower and screen options are also offered, to better provide exact customer needs. Depending on the material, screening size and the model involved, processing volume can range from 2 tons to over 10 tons per hour, but duty cycle and throughput can also affect such outcomes. “Our Saturn Roto-Grind Shredders are exceptionally user friendly, but as with any shredder used in the paper and plastic industries, contaminants may have adverse effects on individual shaft blades. For this reason, the unit features a special ‘bolt-on blade’ design, to help minimize down time. If a contaminant accidentally runs through the shredder, causing damage to the blade, the blade can then be easily removed and replaced,” Maly stated.

MANUFACTURERS

Ameri-Shred Corp.
Kim Stevens | 800-634-8981
www.ameri-shred.com

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

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

Franklin Miller, Inc.
Korkmaz Oz | 800-932-0599
www.franklinmiller.com

Granutech-Saturn Systems
Jon Maly | 877-582-7800
www.granutech.com

Haas/Van Dyk Recycling Solutions
Riley Casey | 203-967-1100
www.vdrs.com

M&J USA Inc.
Lou Martins | 413-244-8832
www.mjrecycling.com

Shred-Tech
Stefin Sobel | 215-896-8839
www.shred-tech.com

SSI Shredding Systems, Inc.
Lee Sage | 503-682-3633
www.ssiworld.com

Untha America, Inc.
Bernhard Martinz | 603-601-2304
www.untha-america.com

Vecoplan LLC
Matt Lowman | 336-252-4066
www.vecoplanllc.com

Virtus Equipment
Tom Breslin | 847-291-1800
www.virtus-equipment.com

WEIMA America, Inc.
Andrew White | 803-802-7170
www.weima.com

The Granutech-Saturn industrial product line also includes industrial quad, dual, single shaft shredders, heavy-duty single shaft grinders, nonferrous metal high density balers, rubber powderizers and refiner mills.

HAAS Tyron shredders are used around the world to shred large OCC, paper rolls, and other applications. “With up to 100tph throughput, customers love their Tyrons and constantly find new uses for them to make their operation more efficient, or their

See PAPER SHREDDERS, Page B5



Ameri-Shred Corp.

SHREDDERS FOR EVERY APPLICATION

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

GRANUTECH SATURN

Dual

Quad

www.granutech.com

1-877-582-7800

International Paper pays dividend

International Paper declared a quarterly dividend of \$0.4625 per share for the period from January 1, 2023, to March 31, 2023, inclusive, on the common stock, par value \$1.00, of the company. This dividend is payable on March 15, 2023, to holders of record at the close of business on February 17, 2023.

The company also declared a quarterly dividend of \$1.00 per share for the period from January 1, 2023, to March 31, 2023, inclusive, on the cumulative \$4.00 preferred stock of the Company. This dividend is also payable on March 15, 2023, to holders of record at the close of business on February 17, 2023.

Paper shredders

■Continued from Page B4

business more revenue," declared Riley Casey, sales manager. Van Dyk Recycling Solutions (VDRS), the sole North American source for these Haas shredders.

Casey added, "VDRS proudly offers the highest quality recycling solutions in the world, and HAAS is no different. Some of our customers have used the same shredder for over 30 years, so we have the utmost confidence in the superior engineering of these machines. The HAAS Tyron line offers market-leading technology for size reduction in a variety of materials. The Tyron shredder is world famous for its reliability, performance, and unique, infinitely



Haas/Van Dyk Recycling Solutions

variable, independent shafts that self-clean at up to 100tph. When it comes to power supply, there's a Tyron for everyone as it can be optioned with SCANIA/CAT, hybrid, or fully electric motors. As we've done for numerous operations, we're happy to provide product performance demonstrations. Give us a call today to schedule a visit!"

AF&PA releases paper reports for November

The American Forest & Paper Association released its November 2022 U.S. paper reports.

Printing-Writing Paper

According to the report, total printing-writing paper shipments decreased 1 percent in November compared to November 2021. U.S. purchases of total printing-writing papers increased 13 percent in November compared to the same month last year. Total printing-writing paper inventory levels increased 9 percent when compared to October 2022.

•Uncoated free sheet (UFS) paper shipments remained essentially flat (-0.3 percent) compared to November 2021 while the inventory level increased 8 percent compared to October 2022. UFS imports increased 55 percent while exports decreased 24 percent in October 2022.

•U.S. purchases of coated free sheet (CFS) papers in November increased 22 percent compared to last November while the inventory level increased 14 percent compared to October 2022. CFS imports doubled, increasing 101 percent, while exports decreased 5 percent in October 2022.

•Coated mechanical (CM) paper shipments increased 5 percent com-

pared to November 2021 while the inventory level increased 10 percent compared to October 2022. CM imports increased 41 percent while exports decreased 4 percent in October 2022.

•U.S. purchases of uncoated mechanical (UM) papers in November increased 5 percent compared to last November while the inventory level increased 2 percent compared to October 2022. UM imports and exports both decreased compared to October 2021, down 2 percent and 2 percent respectively.

U.S. Packaging Papers & Specialty Packaging

Total packaging papers & specialty packaging shipments in November decreased 9 percent compared to November 2021. They were down 3 percent when compared to the same 11 months of 2021.

•The bleached packaging papers operating rate was 81.7 percent, down 2.8 points from November 2021 and down 4.1 points year-to-date.

•Shipments of unbleached bag & sack paper were 81,200 short tons for the month of November, down 7.9 percent from November 2021.

I thought I had won the latest argument with my wife. We were debating about how to rearrange the dining room furniture. But then, when I got home, the tables were turned.

NEW & USED EQUIPMENT FINANCING AVAILABLE

Get the cash you need — quickly and at a great rate!

As experts in the industry, we'll find you the best deal!

Give us a call today and we'll discuss your options.



800-823-9688

35 Years of Specializing in:
Salvage • Recycling • Waste

APPLY ONLINE

www.DADECapital.com

U.S. paper industry reaches recycling high

The American Forest & Paper Association (AF&PA), announced 68 percent of all paper consumed in the U.S. was recycled in 2021 – a rate on par with the highest rate previously achieved.

Additionally, the recycling rate for old corrugated containers (OCC), commonly known as cardboard, increased. The rate was 91.4 percent in 2021, up from the 2020 rate of 88.8 percent, and overall, a three-year average of 90.5 percent.

“Paper recycling is stronger than ever and remains an environmental success story,” said AF&PA president & chief executive officer Heidi Brock. “In 2021, U.S. paper recycling reached a high rate of achievement. Further evi-

dence that our industry’s investment and public participation in recycling programs are proven and effective.”

Paper recycling extends the life of fiber and advances the circular economy. It allows for the creation of new, sustainable paper-based packaging and products.

“Our industry is a leader in sustainability and understands what it means to be a responsible producer,” Brock said. “We are investing nearly \$5 billion in projects from 2019 through 2024 to use approximately 8 million additional tons of recovered fiber. This reflects a longstanding commitment to invest in manufacturing infrastructure using recycled paper and improve the circular nature of our industry.”

Vast majority of Americans have access to recycling

The American Forest & Paper Association (AF&PA) shared a new report indicating that the most Americans, 94 percent, have access to community paper recycling programs.

The 2021 AF&PA Access to Recycling Study also finds more Americans, 79 percent, now have access to residential-curb-side programs making it easier to recycle paper at home – an increase of more than 14 million people since the 2014 study.

Items such as corrugated cardboard, mail, newspapers, office paper,

magazines, paperboard boxes with and without poly coatings, paper bags, liquid packaging cartons and pizza boxes have a consumer access rate of 60 percent or more.

The 2021 AF&PA Access to Recycling Study is a comprehensive national report that tracks and measures the growth of consumer access to community paper and paperboard recycling in the U.S. It is the latest in a series commissioned by AF&PA and conducted since 1994.

Georgia-Pacific wins award for breakthrough technology

Georgia-Pacific was recognized with an Innovation in Sustainability award for Juno® Technology.

The American Forest & Paper Association (AF&PA) announced its Better Practices, Better Planet 2030 Sustainability Award winners, recognizing exemplary sustainability programs and initiatives in the paper and wood products manufacturing industry. “This is the first year we are presenting awards in alignment with our new Better Practices, Better Planet 2030 sustainability goals and statement of principles on diversity, equity and inclusion,” said AF&PA president and chief executive officer Heidi Brock. “It is exciting to see examples of these goals in action.”

Juno Technology is Georgia-Pacific’s breakthrough solution to waste diversion and resource recovery.

It is a proven economical and socially responsible solution that can increase recycling and recovery across the U.S. and around the globe. “At Georgia-Pacific, we prioritize the development of new technologies that help us use fewer resources, minimize waste, and improve the environmental performance of our products and processes,” said Christer Henriksson, president of Juno, at Georgia-Pacific.

Juno Technology can recover up to 90 percent of the materials it processes, diverting them from landfills and incinerators. These materials, such as paper fiber, plastics, and metals, can then be circulated back into the economy for reuse as raw materials. Henriksson professed, “Our goal was to go deeper into the waste stream to capture more fiber for reuse without disrupting current recycling.”

Greif shares sustainability goals

Greif, Inc., a leader in industrial packaging products and services, announced new sustainability targets, reinforcing the company’s commitment to building a more sustainable and equitable future.

These targets set specific and measurable goals that build on the company’s announcement in 2021 to reduce absolute Scope 1 and 2 greenhouse gas (GHG) emissions 28 percent by the end of the decade.

The broader sustainability focus for the company continues to be advancing a circular economy, reducing greenhouse gas emissions, and championing diversity, equity & inclusion initiatives.

By 2030, Greif aims to:

- Reach zero waste to landfill at 97 percent of its production facilities

By reducing, recycling, composting, reusing and incinerating with energy recovery, Greif targets 97 percent of its production facilities achieving zero-waste to landfills by 2030.

- Make 100 percent of its products recyclable

Working across a vast portfolio of raw materials and products, Greif recyclability targets will be benchmarked by weight, consolidated at a company level.

- Achieve an average of 60 percent recycled raw material content across products

Recycled content targets for Greif products are minimum averages benchmarked across a portfolio of materials and products by weight, consolidated at a company level.

- Attain global gender pay parity

Greif is on track to ensure colleagues receive equal pay for equal work by 2024 and is committed to maintaining gender pay parity.

- Evaluate the sustainability performance for 80 percent of total spend with suppliers

By aiming to increase the evaluation of the sustainability performance of its suppliers, Greif can have a greater impact across its value chain.

“These 2030 targets reflect our determination as a global company to do our part in building a more sustainable future for our people and the planet,” said Ole Rosgaard, president and chief executive officer of Greif. “Together, they create a roadmap to success for our customers, colleagues, and the communities in which we operate and serve.”

Sustainability is a core value for Greif and remains an integral part of how the company does business. These new targets build upon previous sustainability targets and reflect a companywide initiative to align its sustainability efforts with the latest science and the needs of its customers, stakeholders, and suppliers.

C&D PROS FIND THEIR INSPIRATION FROM CDRA

WHAT INSPIRED YOU TO JOIN THE CDRA?



I READ EVERY PAGE AND EVERY DOCUMENT ON THE CDRA SITE AND DECIDED WE NEEDED TO GET TO KNOW ALL THESE PEOPLE AND THAT HAS PROVEN TO BE THE BEST DECISION I HAVE MADE IN BUILDING A C&D RECYCLING BUSINESS FOR AMERICAN CLASSIC.

WHAT ADVICE WOULD YOU GIVE TO SOMEONE INTERESTED IN THIS INDUSTRY?

JOIN CDRA AND GET INVOLVED, SHARE WHAT YOU KNOW, AND LEARN FROM OTHERS. YOU ARE NEVER TOO OLD TO LEARN SOMETHING NEW.



CDRECYCLING.ORG

ADVERTISE IN AMERICAN RECYCLER



Contact us today for a Media Kit!

877-777-0043

Sales@AmericanRecycler.com

Crown Paper Group names Will Lindsay as new CEO

Crown Paper Group announced that Will Lindsay has been named chief executive officer. Lindsay most recently served as senior director, global papers strategy and product optimization at WestRock and brings to this role extensive experience across the paper and packaging industry. Crown Paper Group, including Port Townsend Paper Company and Crown Corrugated Company, is an integrated mill and containerboard operation with a strategic presence in the growing markets of the Pacific Northwest and Western Canada.

Port Townsend Paper Corporation is a provider of high quality recycled and virgin kraft containerboard, kraft

pulp and specialty products in Port Townsend, Washington. The company's two converting facilities, known as Crown Packaging and Boxmaster, operate with extensive customer reach and distribution capabilities throughout British Columbia and Alberta.

Lindsay brings to Crown Paper Group more than three decades of experience in the paper and packaging industry, including leadership across global sales and marketing, supply chain, and product performance. He has held various positions at Longview Fibre Paper & Packaging Inc., Kap-Stone Paper & Packaging Inc., and WestRock.

Packaging

■Continued from Page B1

Embracing the Future & Its Challenges

As technology advances and the e-commerce industry grows, so too does the need for smart, efficient packaging solutions. Harrison said that one of the greatest challenges facing companies in this space is how to package their products sustainably and responsibly while still meeting customer needs. Fortunately, there are some promising solutions on the horizon that could make a big difference when it comes to packaging paper for online consumerism.

"One such solution is utilizing recycled paper as an alternative form of packaging material," Harrison said. "Many businesses are already making use of recycled paperboard – which can be safely reused multiple times – as well as corrugated cardboard made from some percentage of post-consumer waste paper (how much varies depending on the supplier). By switching over to recyclable or biodegradable materials like these, we can significantly reduce our environmental impact by minimizing single-use plastic consumption and decreasing our reliance on unsustainable resources."

Companies are also looking to reduce the amount of waste produced in their packaging processes altogether. This could include using fewer materials per shipment (such as air pillows or bubble wrap) or even transitioning away from traditional packing tape toward water-activated or eco-friendly alternatives with fully recyclable components.

"Additionally, reusing old boxes purchased from retailers has become increasingly popular among e-commerce firms looking to cut down on costs without sacrificing sustainability – not only does this provide an extra layer of protection during transit but also reduces resource consumption while enabling greater reuse within supply chains," Harrison said.

As the demand for fiber-based packaging continues to increase, James said it's critical that packaging compa-

nies work to source their paper from sustainably managed forests, such as those certified by the Sustainable Forestry Initiative (SFI) and the Forest Stewardship Council (FSC).

"Working forests – those used for commercial production of trees – remain crucial carbon sinks and provide ecosystem services such as water filtration while also providing feasible ways to maximize both forest health and fiber production," James said. "Additionally, forest managers and paper mills should continue to decarbonize their supply chains so the carbon footprint of paper production can be dramatically reduced."

When Rosene predicts what may come for paper recycling as it relates to the packaging industry, he looks at the problems on the horizon. If current supply levels aren't enough to meet demand, he believes innovation could increase the number of times packaging can be recycled.

"For example, we can recycle paperboard packaging around seven times before the fibers break down completely," Rosene said. "However, when paper is made waterproof to transport liquids, coatings are added to the paper, which limits recyclability. Creating new liners for paper packaging would be a game changer for our industry, recycling and our planet."

It
only
takes



With just ONE call to
American Recycler News,
you'll get the equivalent
of an entire sales force.

It's All About The Business Of Recycling!



**The 36th Southeast Recycling
Conference & Trade Show (SERC)**
February 26-28, 2023



**Recycle Florida Today (RFT)
Winter Summit**
March 1, 2023

Rosen Centre
Orlando, Florida



www.SoutheastRecycling.com

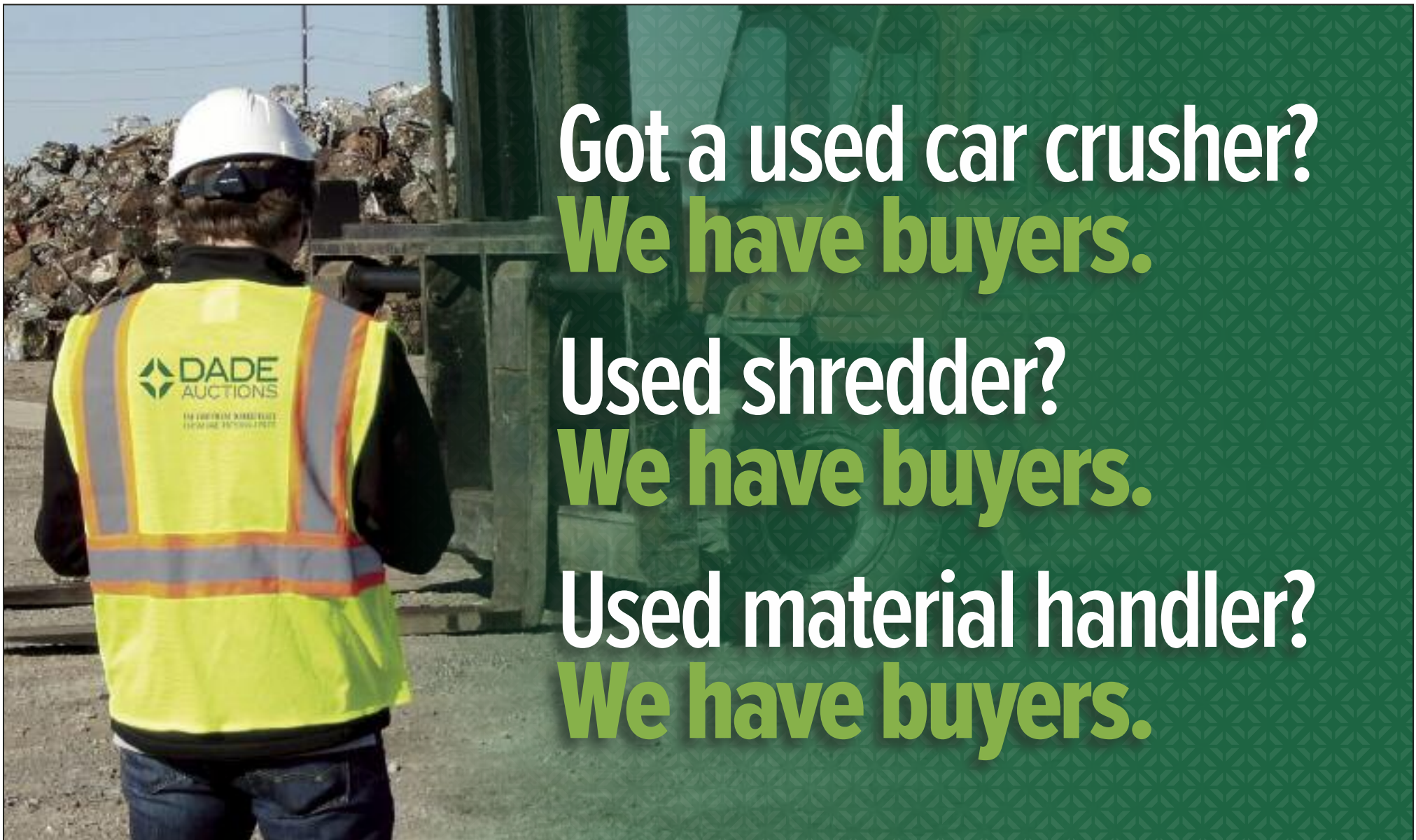
400 + Key Recycling Industry Contacts

40 + Exhibitors

Informative Educational Sessions

Great Networking Events

Golf Tournament



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