



American Recycler

NewsVoice of Salvage, Waste and Recycling

AmericanRecycler.com

Celebrating Our



See Page 18

FOCUS: Waste

Hazardous waste projected to increase



WHAT'S INSIDE

Events Calendar.....	4
Industry Profile.....	9
Scrap Metals MarketWatch.....	15
Salvaging Millions.....	16
Classified Advertisements.....	20
Equipment Spotlight.....	B4
New Product Showcase.....	B6

Recycling what's underfoot

by MAURA KELLER

mkeller@americanrecycler.com

Carpet has long been a staple gracing the floors of millions of households and businesses across the U.S. The disposal and recycling of old carpeting creates health and environmental concerns aplenty. The EPA estimates that more than four billion pounds of disposed carpeting ends up in landfills every year, which is about two percent of all municipal solid waste. And most flooring sold in the U.S. is carpet. Carpets comprise 60 percent of the U.S. flooring market, with 11 billion sq. ft. sold per year. Of that, less than five percent is recycled, and less than one percent is recycled in a closed loop system.

And while recycling carpeting has taken center stage in light of landfill concerns, this process is proving problematic for environment and human health.

Maya Van Rossum, a veteran environmentalist, attorney and author of *The Green Amendment: Securing Our Right to a Healthy Environment*, explained that those who work in the waste industry, including those who handle the recycling of carpet, have exposure to dangerous contaminants that are a significant concern.

According to Van Rossum, carpets being disposed of in landfills are often treated with a stain repellent using a human made family of chemicals called PFAS (poly and perfluoroalkyl substances).

"PFAS are dangerous to human health and the environment – they can cause development and reproductive impacts," Van Rossum said. Perfluorinated compounds (PFC), which are often used in carpet backing also contains dangerous toxic additives. And organitoin, among the additives used in carpet backing, are known human carcinogens, are highly toxic to aquatic life, can have



Carpeting is made with stain resistant chemicals which are dangerous to human health during the recycling process and can contaminate the environment when landfilled. PHOTO BY AOLDMAN | DREAMSTIME

reproductive affects in humans, and bioaccumulate in the environment.

PFCs in general, are known human carcinogens. And carpet shredding operations are known to release PFAS into the air, a concern for the environment, workers and surrounding communities.

"How these substances are dealt with by the waste industry is a significant concern," Van Rossum said. "For example, if incineration is a means of disposal it can result in the creation and release of

dioxins, another toxin dangerous to human health and the environment. Any role waste disposal of carpets play in releasing these dangerous toxins into the air is a serious concern."

Research shows that PFCs are contaminating water supplies and the environment in states across the nation, as at least 27 states have found PFC contamination in water supplies. In addition, a report released in October 2018 by

See CARPETING, Page 4

Waste Management enters agreement to acquire Advanced Disposal Services

Waste Management, Inc. and Advanced Disposal Services, Inc. have entered into a definitive agreement under which a subsidiary of Waste Management will acquire all outstanding shares of Advanced Disposal for \$33.15 per share in cash, representing a total enterprise value of \$4.9 billion when including approximately \$1.9 billion of Advanced Disposal's net debt. The per share price represents a premium of 22.1 percent to Advanced Disposal's closing share price as of April 12, 2019, the last trading day prior to the announcement, and a premium of 20.9 percent to Advanced Dis-

posal's 30 day volume weighted average price as of the same date.

This acquisition grows Waste Management's footprint and allows Waste Management to deliver to Advanced Disposal customers unparalleled access to differentiated, sustainable waste management and recycling services. With 2018 revenues of \$1.56 billion, adjusted EBITDA of \$427 million and approximately 6,000 employees, Advanced Disposal serves more than 3 million residential, commercial, and industrial customers, including over 800 municipalities primarily in 16 states in the Eastern

half of the U.S. Advanced Disposal's solid waste network includes 94 collection operations, 73 transfer stations, 41 landfills, and 22 owned or operated recycling facilities.

The acquisition advances Waste Management's growth strategy and aligns with the company's financial goals, including growth in earnings per share, margins, and cash flow. Specifically, Waste Management expects the addition of Advanced Disposal to:

- Expand waste management's footprint and customer base. This acquisition

See ACQUISITION, Page 9

CHANGE SERVICE REQUESTED

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

05.2019

American Recycler
6546 Weatherfield Court, Ste C-2
Maumee, OH 43537

HIGH-SPEED BALER/LOGGER



HEAT & A/C UNIT



3/8 AR400 REPLACEABLE WEAR PLATES



- 20' Charge Box
- Heavy-Duty Knuckle Boom
- Superior Lift and Reach



OVERHEAD CONTROLS

“WHAT OUR CUSTOMERS SAY”

We have been using our new OverBuilt baler for a little over 2 years now and continue to be impressed. It has been dependable and much more efficient than our balers in the past. This has been a durable machine with little down time other than routine maintenance. We recently replaced the grapple with their new and improved version and couldn't be more pleased. The OverBuilt design is simply easy to operate and makes a quality bale that is easy to load. Thank you for making a quality and dependable baler that we can count on and enjoy operating.

—Kevin Stroebel

Manager, Pacific Steel & Recycling
Rock Springs, WY

Operates 5 OverBuilt Balers

We purchased our OverBuilt Car Crusher new in early 2012. This is the best crusher we have ever owned. The Sales and Service Staff have been great to follow up making sure we have all our filter and maintenance items needed to keep our machine running smoothly and efficiently.

—Doug Butler

Owner, Butler Salvage
Torrington, WY

**#1 SELLING
CRUSHER!**

HIGH-SPEED CAR CRUSHER



- Largest Opening on the Market
- Advanced Oil Recovery System with Sludge Traps and Large Clean-outs
- State-of-the-Art Automation System
- 400-gallon Fuel Cell and Optional Lockable Auxiliary Fuel Pump
- Optional High-speed Oil Bypass System
- 22' & 24' Crusher Chambers Also Available
- Twin Lid Safety Lock System Engaged from the Ground
- Ground-accessible gang grease stations.

★ **THE ONLY TRUE HIGH-SPEED SYSTEM AVAILABLE** ★



OverBuilt

Huron, South Dakota

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

View our
USED & NEW

**INVENTORY
ON OUR SITE!**

NWRA names 2019 Drivers and Operators of the Year

The National Waste and Recycling Association announced its 2019 Drivers of the Year and Operator of the Year winners. The awards recognize the drivers and operators from member companies who put safety as their top priority.

“Our members and their employees are dedicated to keeping our communities clean and safe on a daily basis. It is important that we recognize the drivers and operators who make safety a priority. I congratulate them on their achievement,” said NWRA president and chief executive officer, Darrell Smith.

The 2019 Drivers of the Year are drivers who operate their trucks in a safe and responsible manner, have outstanding performance records, and whose contributions have enhanced the overall safety and image of the solid waste industry.

The 2019 Operators of the Year are for employees working in post-collection for a MRF (materials recovery facility), landfill or transfer station who safely operate heavy equipment, including bulldozers, front-end loaders, and compactors.

The finalists were determined by a computerized scoring system. Independ-

ent judges selected the winners based on letters of recommendation and, for drivers, the difficulty of the route. During judging, operators were also judged on difficulty of their equipment to operate.

2019 Drivers of the Year

•National Commercial: Michael Juhan, Republic Services, Inc.

•National Residential: Bill White, Waste Connections, Inc.

•National Industrial: Timothy Parker, Waste Management, Inc.

•Regional Commercial: Michael McGarrity, Waste Industries

•Regional Residential: Ted Vrell, Recology

•Regional Industrial: Joe Dahlmeimer, Rumpke Waste & Recycling

•Local: Alvaro Mora, All Waste, Inc.

•Public: Diana Heath, City of San Diego

2019 Operators of the Year

•MRF/ Transfer Station: Edward Owen McMullen, Waste Management, Inc.

•Landfill: Roberto Hernandez, Republic Services, Inc.

New Jersey uses settlement for hundreds of electric vehicle charging outlets statewide

Moving forward on its commitment to clean transportation, the Department of Environmental Protection is transmitting to the Volkswagen Environmental Mitigation Trust for approval the allocation of \$11.2 million from New Jersey’s share of the federal Volkswagen settlement for hundreds of electric vehicle charging outlets across the state and new electric NJ TRANSIT buses in the City of Camden.

The projects are the first to be announced for funding from the Volkswagen Mitigation Trust, from which New Jersey is receiving \$72.2 million. Governor Phil Murphy has committed to using 15 percent or \$10.8 million of the state’s settlement amount for electric-vehicle charging stations. In addition to these projects, the DEP is evaluating more than \$400 million worth of other project applications and expects to announce additional awards before the summer.

One focus of the funds will be on environmental justice to communities which are disproportionately impacted by pollution and resulting health impacts. The new electric buses in the City of Camden will be a step toward electrifying public transportation in New Jersey.

The DEP will use \$3.2 million to award grants for approximately 827 charging outlets at 533 charging stations under It Pay\$ to Plug In - New Jersey’s Electric Vehicle Charging Grant Program, more than doubling the number of non-residential charging outlets in the state.

New Jersey has 786 charging outlets at 322 public locations across the state. Grantees in this first round of funding

include 55 municipalities and counties, public parking lots and garages, apartment and condominium complexes, car-share services, hotels, private companies and nonprofit organizations. Charging stations also will be installed at select NJ TRANSIT commuter rail stations and at rest stops along the Atlantic City Expressway.

An additional \$8 million is proposed to the Volkswagen Mitigation Trust for allocation to purchase eight new electric transit buses to be operated in the City of Camden.

The Volkswagen Mitigation Trust is the result of federal actions against the automaker for installing “defeat” devices that allowed vehicles it manufactured to emit pollutants without being detected by emissions-testing programs across the country. Two partial consent decrees approved in 2016 and 2017 established a \$2.93 billion environmental mitigation trust to provide funds to all 50 states, the District of Columbia, Puerto Rico and federally recognized tribes to implement actions to counter the air quality impacts of excess nitrogen oxide emissions resulting from the emissions defeat devices.

DEP’s It Pay\$ to Plug In program funds strategic deployment of electric vehicle charging stations across the state. The program offsets costs for the purchase and installation of charging stations at public places, workplaces and at multi-family housing complexes.

Launched in June 2016, the program has approved more than \$900,000 to 70 grantees for 188 charging stations.

Millions of volunteers aid the Great American Cleanup

The annual Keep America Beautiful® Great American Cleanup®, the nation’s largest community improvement program has kicked off. Through efforts, being made from March 20 through June 20, national nonprofit Keep America Beautiful and its network of more than 600 community based affiliates and partner organizations host cleanups, green-ups and fix-ups in more than 20,000 communities across the country, engaging more than 1.5 million volunteers and participants.

Keep America Beautiful, with the support of its affiliates and volunteers, and Great American Cleanup national sponsors, will surpass many of the achievements of last year’s 20th anniversary Great American Cleanup, including 68 million pounds of recyclables collected; 24.7 million pounds of litter collected; 9.4 million volunteer hours logged; more than 55,400 miles of roads, shorelines and waterways improved and beautified; and nearly 21,300 public spaces cleaned.

This year’s Great American Cleanup features the launch of the new Common Ground Campaign. Elected officials are invited to Great American Cleanup events to demonstrate that the cleanliness of our communities is on Common Ground.

While many Keep America Beautiful affiliates in warmer regions have already

started their Great American Cleanup programs, many are scheduled to take place throughout spring. Local hands-on volunteer events and education programs will renew public parks, trails and recreation areas; clean, enhance and protect shorelines, beaches and waterways; remove litter and debris from roadways, storm drains and public spaces; reduce waste and improve recycling; and plant trees, flowers and community gardens.

The 2019 Great American Cleanup social theme – #cleanYOURblock – is a call-to-action to engage more volunteers and participants in public space cleanup, beautification and recycling events conducted by Keep America Beautiful affiliates nationwide. Once an individual becomes a Great American Cleanup volunteer with their local Keep America Beautiful affiliate or partner, the national nonprofit’s goal is that they will be inspired to take that experience home to organize similar, smaller-scale events in their own neighborhood.

National sponsors of the 2019 Keep America Beautiful Great American Cleanup include the Altria Group, The Dow Chemical Company, The Glad Products Company, Niagara Bottling, Inc., Northrop Grumman Corporation and Sazerac Company.


Two tourists were driving through Louisiana. As they were approaching Natchitoches, they started arguing about the pronunciation of the town’s name. They argued back and forth until they stopped for lunch.

As they stood at the counter, one tourist asked the employee, “Before we order, could you please pronounce where we are... VERY SLOWLY?”

The girl leaned over the counter and said... “Burrrrrrrr, Gerrrrrrr, Kiiiiing.”

HOGZILLA®

TUB & HORIZONTAL GRINDERS DIESEL & ELECTRIC POWER OPTIONS




Whether it's making landscape mulch, grinding waste for energy, clearing land for a sub-division, recycling C & D waste, grinding tires, or grinding storm debris...
ARE YOU READY?

20 Standard HogZilla Models Currently Available



- Mounted Grapple • Track Mounted
- Tire Processing Package
- Fifth-Wheel Portable and Stationary

As the cost of diesel fuel has increased, electric powered wood grinders have become the grinder of choice for an increasing number of grinding professionals.

We Build Your MONSTER Grinder EXACTLY How YOU Want It.
It's That Simple!!



Call for Additional Info or a Quote! 800.743.3491
Ph: 785.284.3454 Fax: 785.284.3601 Email: hogzilla@cwmill.com

HOGZILLA.com

Ecomaine recognizes efforts in sustainability

Citing the achievements of 16 individuals, organizations, and businesses – and one municipality – ecomaine’s board recognized outstanding efforts in sustainability, waste management and green living through the 2019 eco-Excellence Awards. Awardees range from teachers and schools to dedicated community members, golf course superintendents and businesses, in Maine.

“I am continually amazed at the effort and commitment on display by our eco-Excellence Award winners, year in and year out,” said ecomaine Outreach & Recycling committee chair Caleb Hemphill. “To be able to bring them all together to celebrate and share ideas is an

important part of what ecomaine is all about.”

The full list of awardees follows.

Individual Lifetime Achievement eco-Excellence Award:

- Gary Glick, Falmouth High School

Overall Individual eco-Excellence Award:

- Tania Ferrante, South Portland High School

Individual Award Winners:

- Jennifer Polley, Chelsea
- Patty Distasio, Gray
- Gene Pierotti, Portland
- Meredith Banker, Scarborough
- Michael Caudle, South Portland
- Paul Mathieu, Hiram

- Dennis Brown, Windham
- Tom Pitman & students, Yarmouth

Non-Profit Award Winners:

- Friends of Scarborough Marsh, Scarborough
- Friends School of Portland, Cumberland

Business Award Winners:

- Chase Street Soap Company, Scarborough
- OutsideIn Maine, Cape Elizabeth
- Mainly Worm Bins, Gorham
Municipal Award Winner:
- City of Sanford & Sanford Public Works (Matt Hill & Kayla LeBrun), Sanford

Carpeting

■Continued from Page 1

Ecology Center, Global Alliance for Incinerator Alternatives and Changing Markets Foundation identified the presence of toxic substances in all 12 of the carpets tested that were produced and sold by the nation’s largest carpet manufacturers.

While the environmental and human health concerns surrounding carpet recycling and disposal are paramount, another key issue facing the recycling of carpet is the cost effectiveness for recycling facilities, as well as the overall difficulty of recycling carpet.

According to the EPA, certain fiber types, such as nylon, can be collected and recycled profitably, but others cannot be easily repurposed. Raw nylon is expensive so recycling it is a profitable option, especially considering the amount of products it can be used for, such as carpet tiles, insulation, carpet padding, other flooring materials, and various fabrics. However, challenges still exist in recycling polyester as it cannot be used to produce as many different post-consumer products as other materials like nylon. Polyester carpet recycling also faces competition from water bottle recycling, which provides a high volume of post-consumer polyester to recyclers at a low cost.

Also traditional carpeting is made of several different materials that must be taken apart before processing, making it difficult to recycle. In fact, the bulk of recycling carpet means separating layers of materials bound together by high-temperature cured latex, which is both time consuming and expensive.

“Recycled post-consumer resin is approximately twice the price of virgin plastic resin,” said Frank Killoran, director of circular solutions at Rubicon Global. “That combination of reduced demand for post-consumer resin and low rebate prices are probably some of the worst business conditions that the carpet recycling industry has seen in some time.”

Steps Being Taken

Van Rossum suggested that the best solution to the issue of carpet recycling would be sustainable, compostable and biodegradable carpet for consumers to use in their homes. More and more, nat-

ural rugs made out of sustainably harvested jute, wool and seagrass with a natural latex or rubber backing for example, are often sought after by eco-conscious consumers who are looking for a natural product for their home.

“In many instances these products also do not off-gas VOCs (volatile organic compounds) causing indoor air pollution and these natural fiber products also hold up well over time and can help with allergies and naturally repel dirt,” Van Rossum said. “These natural rugs are also not coated with stain guard and other chemicals that are a concern for consumers but instead are naturally stain resistant.”

CARE (Carpet America Recovery Effort) is a nonprofit organization working to develop the infrastructure needed to recycle carpet efficiently across the U.S. In 2011 CARE was named the California Carpet Stewardship Organization. CARE’s California program provides subsidies and grants to recyclers to support collection, equipment and product testing, along with extensive installer and retailer outreach and consumer and local government education efforts.

According to CARE, like many textiles, carpet is made of petroleum-based material. Currently, more than 340 million pounds of used carpet are discarded in California landfills each year. Recovered carpet can be used to manufacture new carpet fiber, building and construction materials and products for the consumer and automotive industries, among other uses.

To improve the technology and the overall carpet recycling process, CARE recently awarded \$3.2 million in grant awards to 19 public and private entities; 16 of 20 projects are located in California and over 75 percent of grant funds are proposed for California-based projects. These grants included capital improvement grants to support capital investment, infrastructure and/or equipment that will process or manufacture products utilizing California post-consumer carpet. Other grants are for product testing and development to manufacture established products, test or certify new or reformulated products, and/or feasibility studies on potential new uses of post-consumer carpet (PCC) materials.

So what does the future hold for carpet recycling initiatives across the U.S.? “New regulations surrounding carpet

recycling have been put into place and more could be on the way,” Killoran said. “Chemical recycling could be a game changer for the carpet recycling industry, however, widespread commercial application of the new technology we think is still a few years away.”

Events Calendar

May 1st

CARE Conference. Houston Airport Marriott, Houston, Texas.
706-428-2127 | www.carpetrecovery.org

May 6th-9th

AISTech 2019. David L. Lawrence Convention Center, Pittsburgh, Pennsylvania.
724-814-3000 | www.aist.org

May 6th-9th

WasteExpo. Los Angeles Convention Center, Los Angeles, California.
203-358-4384 | www.wasteexpo.com

May 19th-22nd

The Federation of New York Solid Waste & Recycling Conference with Trade Show. The Sagamore Resort, Bolton Landing, New York.
585-732-5376 | www.nyfederation.org

May 20th-21st

NRRA’S 38th Annual Northeast Recycling Conference & Expo. The DoubleTree by Hilton Downtown, Manchester Downtown Hotel, New Hampshire.
603-736-4401 www.nrna.net

June 2nd-4th

Waste Conversion Tech Conference & Tradeshow. The Borgata Hotel Casino & Spa, Atlantic City, New Jersey.
800-386-6280
www.wasteconversionconference.com

June 25th-28th

Air & Waste Management Annual Conference & Exhibition. Quebec City Convention Centre, Quebec City, Canada.
412-232-3444 | www.awma.org

September 23rd-25th

Missouri Recycling Association Conference. Sheraton Westport Chalet Hotel, St. Louis, Missouri.
573-491-4255 | www.moraconference.org

October 7th-12th

ARA (Automotive Recyclers Association) Annual Convention and Expo. Charlotte Convention Center, Charlotte, North Carolina.
615-223-6656 | www.a-r-a.org



NewsVoice of Salvage, Waste and Recycling

877-777-0043 Fax 419-931-0740

Owner, Publisher and Editor

ESTHER G. FOURNIER
news@AmericanRecycler.com

Production and Layout

MARY E. HILL
mary@AmericanRecycler.com

Editorial Focus Section Production and Layout

LINDSAY BROWN
lindsay@AmericanRecycler.com

Marketing Representatives

MARY M. COX
maryc@AmericanRecycler.com
MARY E. HILL
mary@AmericanRecycler.com

Circulation Manager

DONNA L. MCMANUS
donna@AmericanRecycler.com

Writers and Contributors

DONNA CURRIE
dcurrie@AmericanRecycler.com
MARK HENRICKS
mhenricks@AmericanRecycler.com
MAURA KELLER
mkeller@AmericanRecycler.com
RON STURGEON
rons@rdsinvestments.com

Production Offices

6546 Weatherfield Court, Ste C-2
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 \$48; 2 years \$72.

© COPYRIGHT 2019 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.

Live Thrive Atlanta's CHaRM awarded recycling grant

The Foam Recycling Coalition awarded a \$41,000 grant to Live Thrive Atlanta's Center for Hard to Recycle Materials (CHaRM). This funding will help expand the facility's foam polystyrene recycling operation and continue improving the environmental and public health of Metro Atlanta by diverting hazardous waste and recyclables from local landfills. With this grant, CHaRM will buy a foam polystyrene densifier for its recycling drop-off site allowing the organization to process foam polystyrene on-site.

CHaRM's site currently accepts a wide range of hard to recycle and commonly recycled items. It will now accept foam polystyrene cups, take-out containers, meat trays and egg cartons, as well as protective packaging. The densifier being purchased with the grant money will compact these foam materials into condensed bricks that the county can easily ship to recycling markets in truckload quantities.

"CHaRM is the type of a mission-driven organization that we like to partner with to help its work in advancing foam polystyrene recovery in the region," said Lynn Dyer, president of the Foodservice Packaging Institute, which houses the coalition. "CHaRM provides a unique service to the region by taking materials not currently accepted at curb-

side, and the densifier will enhance that service and divert a large amount of foam from landfill disposal."

"Foam polystyrene is one of the most important hard to recycle materials received at the facility's drop-off. Being able to increase processing of this material and be more efficient in selling to end markets will make it easier to provide our services to the residents and universities of Metro Atlanta," said Peggy Whitlow Ratcliffe, executive director of Live Thrive Atlanta.

The grant is made possible through contributions to the FRC, which focuses exclusively on increased recycling of post-consumer foam polystyrene. Its members include Americas Styrenics; Cascades Canada ULC; CKF Inc.; Chick-fil-A; Dart Container Corp.; Dyne-A-Pak; Genpak; Hawaii Foam Products; INEOS Styrolution America LLC; NOVA Chemicals Corp.; Pactiv Foodservice/Food Packaging; Republic Plastics; and TOTAL Petrochemicals & Refining USA.

CHaRM is the 10th grant recipient to receive FRC funding since 2015. Over 3 million additional residents in the U.S. and Canada can recycle foam as a result of FRC grants.

Taking his seat in his chambers, a judge faced the opposing lawyers. "So," he said, "I have been presented, by both of you, with a bribe." Both lawyers squirmed uncomfortably. "You, Attorney Sanford, gave me \$15,000. And you, Attorney Jackson, gave me \$10,000."

The judge reached into his pocket and pulled out a check. He handed it to Sanford. "Now then, I'm returning \$5,000 to you, and then I'm going to decide this case solely on its merits."

Quebec awarded \$220 million in subsidies

Since 2012, Quebec has spent more than \$220 million in subsidies to "encourage" the purchase of electric vehicles. This spending will continue, since the government has extended this program for two more years. Yet as the MEI, an independent public policy think tank that stimulates debate on public policies in Quebec and across Canada, has been saying for some time, not only is such a public policy very expensive, it also has very little impact on greenhouse gas (GHG) emissions.

Indeed, even if Quebec were to achieve its objective of having a million fully electric vehicles on its roads by 2030 – which is 20 times more than it has now – this would only reduce GHG emissions by 3.6 percent compared to the current level.

"It's a pure waste!" argued Germain Belzile, senior associate researcher at the MEI. "And that's not including the \$300 million in purchase subsidies that the federal government just announced, plus the hundreds of millions that Quebec and Ottawa are going to spend to develop the network of charging stations. All of this for a minimal result in terms of emission reductions."

Up until now, the \$8,600 subsidy granted by Quebec cost taxpayers a little under \$300 per ton of GHGs not emitted. With the new \$5,000 federal subsidy, the cost per ton of GHGs not emitted jumps to over \$450, namely 23 times the carbon market price or the federal tax amount.

"The cost of the subsidy is very high when you consider that in Quebec, with the carbon market, the cost to avoid emitting one ton of GHGs is actually around

\$20," explained Belzile. "Think about it: You can choose between a cost of \$450 or \$20, for two policies that have the same objective."

Moreover, it must be noted that these funds largely benefit people who would have bought an electric car even without subsidies, and that these same buyers are part of the richest one fifth of society. Also, a non-negligible portion of subsidies are captured by automobile manufacturers in the form of higher prices, as shown in the U.S. by Tesla's recent price cut following the reduction of the federal credit.

All of these public expenditures are a pure loss: Studies predict that the prices of electric cars will be competitive with those of gas-powered cars as of 2024—without subsidies—and that they will then continue to decrease, achieving parity before the end of the decade, with the cost of batteries continuing to fall.

"Our governments should eliminate the subsidy programs without delay, since Quebec and Canada have already set a price for carbon. And as argued by the latest economist to win the Nobel Prize, William Nordhaus, such a price mechanism should replace all subsidies that have the same goal. It's just common sense," concluded Belize.

The MEI is an independent public policy think tank. Through its publications and media appearances, the MEI stimulates debate on public policies in Quebec and across Canada by proposing reforms based on market principles and entrepreneurship.

Brehmer
EAGLE
INTERNATIONAL

Manufacturer of tire reduction systems since 1991.

TIRE DERIMMERS
The Eagle Car Tire Derimmer is designed to separate waste rims from waste tires.
The Truck Tire Derimmer separates the rim from the tire of any semi-truck tire. Portable models available.

SIDEWALL CUTTER
The Eagle Sidewall Cutter is designed to remove the side walls of truck and car tires.

TUF-CUT
The Eagle Tuf-Cut adds flexibility to your total tire-cutting system by accepting tires up to 23.5/25, 12 ply.

VIEW OUR FULL LINE OF TIRE-RECYCLING EQUIPMENT AT
WWW.EAGLE-EQUIPMENT.COM
800-755-8473 | EAGLE@BREHMER.COM

WheelPopper
Separates scrap tires from steel & alloy wheels in seconds

Save time and money!

- Buy direct from the manufacturer
- World wide delivery to your door

AutoDrain
Experts in vehicle depollution

sales@autodrain.net
www.autodrain.net

Budweiser creates unique football pitch from 50,000 recycled plastic cups



The unique football pitch created from Budweiser's recycled plastic cups.

Budweiser, an official sponsor of the 2018 FIFA World Cup™, has hit the back of the net by launching a unique football pitch created from its recycled plastic cups in Sochi, Russia. More than 50,000 cups collected at arenas and at the FIFA Fan Fests after the summer tournament have been used to create a new sports facility, the Budweiser ReCup Arena.

Over 3.2 million Budweiser Red Light Cups were used during the recent FIFA World Cup, many of which fans took home as souvenirs.

Together with the 2018 FIFA World Cup Local Organizing Committee, Budweiser collected and recycled the Red Light Cups that were disposed and used 50,000 of these cups to create an innovative, wear-resistant colored coating for a new pitch measuring 65 x 42 meters that is sure to play host to many tense penalty shootouts in the future.

Local football fans will soon be invited to the first ever match on the striking red and white pitch – The World Cup REplay. The event furthers Budweiser's commitment to sustainability, with the brand pledging that every single bottle of beer it brews will be powered with renewable electricity by 2025. 100 percent Renewable Electricity symbols are being added to Budweiser packaging anywhere this has already been achieved.

Budweiser has been the official beer sponsor of the FIFA World Cup for more than 30 years and last year engaged with 3.2 billion football fans globally. Today, the opening of the Budweiser ReCup Arena in Sochi, Russia, was attended by official guests including Marco Materazzi, FIFA Legend, Andrei Markov, Minister of sports of Krasnodar region and Konstantin Tamirov, Marketing director of AB InBev Efes.

MDEQ offers \$2 million in funding opportunities to grow recycling

The Michigan Department of Environmental Quality (MDEQ) announced \$2,000,000 in funding available to support the growth of recycling markets in Michigan. To encourage recycling market development projects, the 2019 Recycling Market Development Grants will provide support to for-profit and non-profit businesses and organizations located in Michigan.

"A material is not truly recycled until it is transformed into a new product or use," said Matt Flechter, MDEQ recycling market development specialist. "Those new uses save energy, reduce water consumption, decrease greenhouse gas, and conserve resources, while creating jobs and growing the economy. That is why Michigan is investing in the growth of the recycling industry."

The grants will support research of new uses for recycled materials, commercialization of technologies to replace materials with recycled content, and increase the demand of recycled materials needed for manufacturing or other uses. Market Development projects may include, but are not limited to, materials testing and specification development, market analyses, marketing of products, usage guidance, research and development of new products using recycled content, processing equipment, use trials, and other activities that will increase use of recycled materials.

Requests for funding will be accepted through June 6, 2019.

For a direct link to the grant details and for more information, view this article on www.AmericanRecycler.com.

NWRA names new hall of famers

The National Waste and Recycling Association (NWRA) shared its 2019 Hall of Fame Inductees. They are Ray Burke, vice president, Solid Waste, Clean Energy; Paul Mitchener, senior vice president/managing director Macquarie Infrastructure and Real Assets (MIRA); Ven Poole, chairman and chief executive officer of Waste Industries; John Spegal, chief operating officer, Advanced Disposal; and Jim VanWeelden, retired senior vice president, Republic Services.

The Hall of Fame inductees were chosen by the Board of Trustees from a list of distinguished finalists submitted by the NWRA Awards Committee.

These outstanding industry leaders were selected based on scores in five categories, including recognition in the industry as a founder, pioneer, visionary, or icon; enduring legacy and impact of contributions to the industry for a minimum of 25 years; steadfast values such as integrity, respect, courage, mentorship, volunteerism, and inclusiveness; inspirational leadership as a service provider or supplier, or on issues important to the association; and active industry engagement and indisputable as an ambassador of the industry.

The Hall of Fame Inductees will be officially recognized at WasteExpo 2019.

SIERRA

WRAP IT OR BAG IT
WE GOT YOU COVERED!

SOLID WASTE SOLUTIONS

SIERRAINTL.COM • 800.343.8503

SHEAR / BALER / LOGGERS
TWO-RAM BALERS
PORTABLE BALER / LOGGERS
MACPRESSE SINGLE-RAM BALERS
MATERIAL HANDLERS
CONVEYORS

Separation Solutions Engineered for Tonnage

VIBRA-SNAP® Screen

Patented Flip-Flow Technology

The **VIBRA-SNAP® Screen** is an effective alternative to rigid screening systems for processing materials with inherent blinding characteristics and is ideally suited for efficient screening of moist, sticky, fibrous, wet bulk materials with a high percentage of fines or near size particles.

ACTION
VIBRATORY EQUIPMENT

www.actionconveyors.com
sales@actionconveyors.com | 503.537.1111

E-Z CRUSHER DEAL

- **2 Year Warranty**
- **Remote Automation**
- **Hydraulic Outriggers**
- **Air Compressor**



PRICED WITH A TIER 3 DIESEL POWER PLANT

\$165,000

**LIST
PRICE**

-10,000

**OFF THE
2018 MODEL**

\$155,000

With only a \$10,000 ORDER DEPOSIT
(which is 5x lower than competitor's deposit!)

**or with approved financing
from DADECapital.com!**



R.M. Johnson Co. • Annandale, Minnesota

800-328-3613 | 320-274-3594 | Fax: 320-274-3859
EZCrusher.com | davev@ezcrusher.com

Over 20 Options
for
**VEHICLE
FLUID
RECOVERY**

- Safe
- Easy-to-Use
- Robust

We have the solutions
to suit your needs!



NOW AVAILABLE
from
VORTEX!

**McIntyre
Alligator Shears**

The Gold Standard
in
Recycling Systems



303-900-4040
vortexdepollution.com

INTERNATIONAL

UK recycling rate increases

The UK recycling rate for Waste from Households (WfH) has risen to 45.7 percent, according to the most recent figures provided by the Department for Environment, Food and Rural Affairs.

Some key points reported:

- The UK recycling rate for Waste from Households (WfH; including IBA metal) was 45.7 percent in 2017, increasing from 45.2 percent in 2016. There is an EU target for the UK to recycle at least 50 percent of household waste by 2020.

- The recycling rate for WfH increased in all UK countries in 2017. The recycling rate for England was 45.2 percent, compared with 46.3 percent in Northern Ireland, 43.5 percent in Scotland and 57.6 percent in Wales. Northern Ireland saw a 3.0 percentage point increase in the recycling rate in 2017 compared to 2016, which has been attributed to the introduction of mandatory food waste collection from April 2017.

- UK biodegradable municipal waste (BMW) sent to landfill has fallen from approximately 7.8 million tons in 2016 (22 percent of the baseline 1995 value) to around 7.4 million tons in 2017 (21

percent of the baseline 1995 value). The UK is therefore still on track to meet the EU target to restrict BMW landfilled to 35 percent of the 1995 baseline by 2020.

- Provisional figures for 2017 indicate 70.2 percent of UK packaging waste was either recycled or recovered compared to 71.4 percent in 2016. This exceeds the EU target to recycle or recover at least 60 percent of packaging waste.

- It is estimated that the UK generated 41.1 million tons of commercial and industrial (C&I) waste in 2016, of which 33.1 million tons (approximately 80 percent) was generated in England. The latest estimates for England only indicate that C&I waste generation was around 37.9 million tons in 2017.

- The UK generated 222.9 million tons of total waste in 2016, with England responsible for 85 percent of the UK total.

- Recycling and other recovery was the most common final waste treatment type in the UK, accounting for 10-4.0 million tons (48.5 percent) in 2016. Landfill is the second most used waste treatment in the UK, with 24.4 percent (52.3 million tons) of waste disposed of at landfill.

FINANCING

LOW BANK RATES

DADE

Capital Corp.



800-823-9688

Maumee, OH

www.DADECapital.com

**FINANCING the
SALVAGE, RECYCLING & WASTE INDUSTRIES
for Over 32 Years.**

**Don't Gamble with
Your Marketing Dollars.**



Advertise with us.

877-777-0043



PAPER

Iggesund Paperboard's mills noted for sustainability

The Holmen Group's paperboard manufacturer, Iggesund Paperboard, has received the highest rating for sustainability in an evaluation done this year by the rating firm EcoVadis. The paperboard is produced at Iggesund Mill in Sweden and at Workington, England. EcoVadis is the leading system for assessing and rating the suppliers of global companies and has done more than 45,000 evaluations in 150 countries. Companies using EcoVadis include Coca Cola, Johnson & Johnson, Nestlé, L'Oréal and Heineken.

"This is one of many confirmations that Iggesund Paperboard and its parent company, the Holmen Group, have a very strong sustainability program," commented Johan Granås, sustainability communications manager at Iggesund. "The issues have shifted over time from being purely environmental ones to now encompassing the entire field of sustainability."

Both Iggesund Mill and its sister mill at Workington have received the highest rating, the Gold Standard. They

are both thereby among the top one percent of all the companies assessed by EcoVadis and are among the two top percent of the assessed companies in the paper industry.

Over the last 10 year period, the Holmen Group has appeared on indexes of the world's 100 most sustainable companies, drawn up by both the UN's Global Compact and the Corporate Knights. The Group has also been repeatedly named by the Carbon Disclosure Project (CDP) as a leader in the work against climate change.

At Iggesund Paperboard, sustainability issues have been a key focus for decades, and, for example, are always included in discussions about possible investments.

Iggesund's sustainability has yet another dimension: how its paperboard material is used. The types of paperboard made at the mill have a very low environmental impact, and if they are used to replace plastic packaging, the climate effects are even greater.

Acquisition

■Continued from Page 1

brings a high quality, complementary asset network and customer base under Waste Management's proven management team, which has a track record of operational excellence and a demonstrated ability to grow the margins and cash flows of the assets Waste Management has acquired.

•Create significant synergies and grow Waste Management's earnings and cash flows. Waste Management expects the transaction to generate more than \$100 million in annual cost and capital expenditure synergies. The Advanced Disposal acquisition will be immediately accretive to Waste Management's adjusted earnings per share and cash flow, with near-term benefits expected from core operating performance and SG&A cost savings. Incremental benefits from operating and capital efficiencies and network optimization will drive long-term margin expansion and improved free cash flow conversion.

•Support Waste Management's capital allocation priorities. Waste Management's strong balance sheet and significant free cash flow generation position it well to fund the acquisition. In 2019, Waste Management's free cash flow will be directed to dividend payments, acquisitions and share repurchases sufficient to offset dilution from

stock-based compensation plans. The Advanced Disposal acquisition will enhance Waste Management's cash flow growth and support its commitment to grow shareholder returns. Waste Management currently expects to achieve targeted leverage and return to normal run-rate share repurchases within one year of the acquisition's close.

The transaction is not subject to a financing condition. Waste Management intends to finance the transaction using a combination of bank debt and senior notes.

Following completion of the transaction, Waste Management expects to maintain a strong balance sheet and solid investment grade credit profile with a pro forma leverage ratio within the Company's long-term targeted net debt-to-EBITDA range of 2.75x to 3.0x.

The transaction, which was unanimously approved by the boards of directors of both companies, is expected to close by the first quarter of 2020, subject to the satisfaction of customary closing conditions, including regulatory approvals and approval by a majority of the holders of Advanced Disposal's outstanding common shares.

In connection with the definitive agreement, Canada Pension Plan Investment Board, which owns approximately 19 percent of Advanced Disposal's outstanding shares, has, under the terms of a voting agreement, agreed to vote its shares in favor of the transaction.

INDUSTRY PROFILE

A Closer Look

by Donna Currie

Hippo Hopper

John Minacapelli • 855-456-4570

Hippo Hopper got its start when the company FabCorp began building self-dumping hoppers to supply the local scrap dealers in Texas about 25 years ago. John Minacapelli, the company's sales manager, explained that at that time most of the hoppers were being built in the Midwest, and shipping costs for those hoppers going to Texas were expensive.

FabCorp designed and built a line of self-dumping hoppers in just a few sizes, based on what the locals were looking for. For the first few years, all the hoppers were built to order, with nothing made for stock.

It wasn't long before Hippo Hopper grew and became its own company, still owned by FabCorp. And it wasn't much longer before Minacapelli joined the company. He met FabCorp's owner, Allan Hohman, who told Minacapelli about the hoppers that he wanted to promote. Minacapelli decided to come onboard to develop a marketing strategy and a true brand.

As the years went by, the company increased its production and began building hoppers for inventory, so customers could get their products faster. "We slowly developed a product," Minacapelli said, "now, we have as many or more than other manufacturers."

The product line includes 11 standard sizes of self-dumping Hippo Hoppers, from 1/4 yard to 5 yards, and they make those sizes in 3 different versions. The light duty boxes can handle up to 2,000 pounds, the medium duty can handle up to 4,000 pounds and the heavy duty handles up to 6,500 pounds, so there's something for every material and every customer.

The company also makes specialty boxes for customers. Some of those are then added to the product line, like hoppers built to handle liquid waste or those that can be handled with a crane rather than a fork lift.

"We still do a lot of custom stuff," Minacapelli said. "We have a whole fabrication facility." He noted that while other companies only do hoppers, they can make everything "from a little square box to a dump truck. And we have."

The name Hippo Hopper was chosen not just because it was catchy, but also because of the image. "We picked the biggest thing that was rough and tough," Minacapelli said. "And it had a big mouth." The company wants people to know and identify the name with the product, so the name is welded into the rockers of each self-dumping hopper that leaves the facility.

Hippos aren't the only wild animals roaming the facility, though. Monkey boxes are square boxes that are meant to be rotated for dumping rather than flipping forward. They're available in sizes from two to eight yards and are intended for use with fork lift trucks with rotating forks. These are usually used for more expensive metals that take longer to accumulate, like copper.

Frog Hoppers are "shorter, longer, and squattier to fit in small spaces" and they roll on bearings. They're shorter in height, but longer from front to back and because of the design, "it leaps forward when it dumps," Minacapelli said.

Grizzly Boxes are "a very big version of the Monkey Box with a door like a dump truck," Minacapelli said. These can be dumped rather than rotated, and can be equipped with crane hooks.

All of the boxes come standard with a drain plug on the bottom, so liquids can be drained and saved, and so oil and other liquids aren't being sent out with the scrap. On some hoppers, a screen is added to the bottom for even better drainage. Minacapelli said that all of their boxes are watertight and are fully tested before they're painted, to make sure they won't leak.

While scrap dealers are obvious customers for the hoppers, Hippo Hopper sells all over the world, and some of the boxes travel to very interesting places, like Antarctica. Everything that goes into Antarctica with people must come out again, so the boxes are used to bring supplies in and to remove any trash that has accumulated.

While the company now has a very large catalog of standard equipment, they're often asked to design boxes for specific purposes, and the main issue is that "they have to dump." The designs are restricted to specific sizes and ratios so they work.

That said, the company has designed some interesting boxes, like those that had to fit into pits between two machines that produced the scrap, or a job where the customer needed dust collection boxes, but each was a different size.

Trying to guess what customers will order is just about impossible, though, since an order can be for one single hopper or for hundreds of them. Up to about six months ago, the company was often scrambling to keep up with orders, but some equipment changes allowed them to "turn a corner" and catch up. Now, they're more efficient, they're building inventory, and they've cut back on waste.

While Minacapelli's official title is sales, he said that since the company is small, everyone has to wear a lot of different hats. He might be working on sales one day, and then working on design or updating the website. But no matter what he's working on, he said, "I'm the hippo guy."



**ADVERTISE IN
AMERICAN RECYCLER**
877-777-0043
www.AmericanRecycler.com

PAPER

AF&PA releases updated paper reports for March

The American Forest & Paper Association released its March 2019 U.S. paper reports.

Containerboard

Containerboard production decreased 8.6 percent compared to March 2018 and was down 3.9 percent year-to-date. The average daily production compared to February 2019 was 3.5 percent lower. The containerboard operating rate was 86.4 percent, 10.4 points lower than the same month last year.

Printing-Writing Paper Report

According to the March 2019 Printing-Writing Monthly report from AF&PA, total printing-writing paper shipments decreased 10 percent in March compared to March 2018. U.S. purchases of total printing-writing papers declined five percent in March compared to the same month last year. Total printing-writing paper inventory levels increased 1 percent from February 2019.

•U.S. shipments of uncoated free sheet (UFS) paper decreased 10 percent in March from the same month one year ago. The inventory level of UFS papers increased one percent in March compared to February. UFS imports in February 2019 increased 33 percent year-over-year while exports decreased 13 percent.

•U.S. purchases of coated free sheet (CFS) papers decreased 6 percent in March when compared to March 2018. Inventories decreased one percent compared to last month. Imports of CFS

papers in February 2019 increased 10 percent exports decreased by less than one-half of one percent.

•U.S. shipments of coated mechanical (CM) papers decreased 8 percent year-over-year in March. U.S. purchases of uncoated mechanical (UM) paper decreased 6 percent. Inventory levels at the end of March when compared to February increased for both CM and UM.

Boxboard Report

Total boxboard monthly production increased 3.4 percent when compared to March 2018. The total boxboard operating rate was 96.3 percent for March. Total Solid Bleached Boxboard & Liner production was up 5.1 percent year to date; Recycled Boxboard production rose 2.5 percent year to date; and Unbleached Kraft & Gypsum declined 1.7 percent year to date.

U.S. Packaging Papers & Specialty Packaging

Total Packaging Papers shipments were down 1.2 percent from March 2018 and essentially flat year-to-date. Bag & Sack shipments were down 1.0 percent year-to-date; Multiwall shipments were up 1.7 percent; Food Wrapping shipments were up 1.5 percent; and Converting shipments were down 2.2 percent.

The operating rate for March increased to 90.5 percent compared to 89.5 percent in February. Inventories decreased 3.5 percent from February and were 8.0 percent lower than the same month last year.

PLASTICS

Iowa and Tennessee pass legislation to recover plastics

The Iowa House and Senate passed SF 534 and the Tennessee House and Senate passed SB 923. The American Chemistry Council's Plastics Division welcomed the legislation and issued the following statement, which may be attributed to Craig Cookson, senior director of recycling and recovery:

"In passing SF 534 and SB 923, Iowa and Tennessee become the most recent states to create a welcoming environment for businesses to convert more post-use, plastics into valuable raw materials, thereby keeping more of our plastic resources out of landfills. Iowa and Tennessee join Florida, Wisconsin, and Georgia in passing such legislation, reinforcing states' growing recognition of the economic and environmental benefits of reusing our plastic resources.

"We're pleased to see legislation that attracts new businesses and supports job creation by treating post-use plastics as raw materials for 'manufacturing' and not as 'waste.' In addition, SF 534 and SB 923 make clear that facilities that convert post-use plastics into plastic and chemical feedstocks, crude oil, lower carbon transportation fuels, or other products are correctly regulated as manufacturers and not mischaracterized as solid waste disposal facilities. We applaud Representative Sorenson and Senator Brown in Iowa and Representative Hulsey and Senator Southerland in Tennessee for their leadership in sponsoring such important legislation, and we urge Iowa Governor

Reynolds and Tennessee Governor Lee to sign these bills into law.

"A report released earlier this month by the American Chemistry Council found the potential economic impact of expanding advanced plastic recycling and recovering technologies, also called chemical recycling, in the United States to be nearly \$10 billion. The passage of legislation in Florida, Wisconsin, Georgia and now Iowa and Tennessee, is helping to support implementation of these innovative technologies. We congratulate these states for their leadership in plastics recycling and recovery, and look forward to additional states taking similar action.

"In Iowa, it's estimated that converting the state's post-use plastics into transportation fuel could power 98,000 cars each year. Experts also determined that converting just 25 percent of the post-use plastics in Iowa and neighboring counties into manufacturing feedstocks and transportation fuels could support five advanced recycling and recovery facilities and generate \$309 million in economic output annually.

"In Tennessee, it's estimated that converting the state's post-use plastics into transportation fuel could power 219,000 cars each year. Experts also determined that converting just 25 percent of the state's post-use plastics into manufacturing feedstocks and transportation fuels could support eight advanced recycling and recovery facilities and generate \$264 million in economic output annually."

Mountain House partners with Terracycle to recycle packaging

Mountain House, a freeze-dried backpacking and emergency food manufacturer, has partnered with Terracycle to offer consumers an easy way to recycle packaging waste from their line of Mountain House pouches.

Through the Mountain House Recycling Program, consumers can now send in their empty pouch packaging to be recycled for free.

Participation is easy: sign up on the TerraCycle program page and mail in the pouch packaging waste using a pre-paid shipping label. Once collected, the packaging is cleaned and melted into

hard plastic that can be remolded to make new recycled products. Additionally, for every one pound of waste shipped to TerraCycle, collectors can earn \$1 to donate to a non-profit, school or charitable organization of their choice.

The Mountain House Recycling Program is open to any interested individual, school, office or community organization.

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

FINALLY-INNOVATION IN THE BALER INDUSTRY

BALEWOLF LINE OF BALERS

WWW.BALEWOLF.COM

PATENT PENDING

* — Testimonial — *

I received your publication by mail. I can confirm I have never seen it before in its hard copy version. I like the layout and it is very informative, in a league of its own in terms of quality information. No wonder it is the only recycling publication quoted on Lumistar's blog. I look forward to upcoming issues.



I have read issues of your publication in the past by accessing digital archives at one of two libraries I am a member of. Your website is also fantastic.

—Paul Angel, LUMISTAR CORPORATION

GLASS

City creates drop off points for glass recovery program

Currently, glass collected for recycling by Alexandria's contractors is ending up in landfills due to a variety of issues, including recycling contamination, rising recycling cost, and lack of a regional glass processing capacity. Rather than removing glass from Alexandria's recycling program, as some jurisdictions around the country have done, Alexandria has decided to weather the current challenges and continue to collect glass curbside until the market for recycled glass improves.

The city is actively monitoring the market for a viable option to recycle glass and working with city neighbors to propose and advocate for innovative solutions. While glass is still accepted in the blue recycling bin, the city has partnered with Fairfax County and established four drop-off centers to improve the recyclabil-

ity of glass. Glass separated at these centers will be hauled to a processing plant in Fairfax County to be recycled into gravel and sand that can be used locally. These end products can be used in landscaping, construction projects, and even remanufactured into new glass items.

Alexandria has launched purple glass only bins at the city's four Recycling Drop-Off Centers. These centers have recycling containers for residents and small businesses to deposit recyclables. The drop-off centers are open 24 hours a day, 7 days a week.

The city's Glass Recovery Program is one of the first short-term action items to be implemented as part of the city's WasteSmart Strategic Plan, a roadmap that will guide the city's refuse, recycling and organics collection for the next 20 years.



Purple glass only bins are located at the city's four Recycling Drop-Off Centers. These centers have recycling containers for residents and small businesses to deposit recyclables.

PHOTO COURTESY OF CITY OF ALEXANDRIA, VIRGINIA

Glass Recycling Foundation launched

The first foundation focused solely on funding glass recycling initiatives was formed in April. The Glass Recycling Foundation (GRF), located in Ann Arbor, Michigan, is a non-profit organization formed to provide and raise funds for projects that address gaps in the glass recycling supply chain across the U.S.

"Glass bottles and containers are endlessly recyclable," said Lynn Bragg, board president of the Glass Recycling Foundation. "The Glass Recycling Foundation will impact communities by funding projects to recover more and higher quality glass."

Board members offer diverse expertise in representing companies and organizations like Owens-Illinois, Diageo, Strategic Materials, Inc., Northeast Recycling Council, the Recycling Partnership, Urban Mining NE and California State University, Chico.

GRF will collaborate with the Glass Recycling Coalition (GRC), which consists of nearly 40 members from the entire glass recycling value chain. The organization has focused on opportunities to make an impact in glass recycling on a local-level, and GRF will support these efforts for scalable projects.

IBC CEO
Victor Biazis

ATX
AUTO-TIE BALER

- 10" Main Bore Cylinder
- 10" Tension Cylinder
- Roller Platen
- 225 HP (Triple 75 HP)
- 5,000 PSI System Pressure
- 392,700 lb. Total Force
- 210 PSI Platen Pressure
- 44" x 44" x 72" Bale Size
- Up to 45 Tons per Hour (OCC)

First "Euro Style" Roller Platen Auto-Tie Baler Built in the USA by a US Company

IB INTERNATIONAL BALER
Jacksonville, Florida | 1-800-231-9286 | WWW.INTL-BALER.COM

What if you could shred to your desired size...

WITHOUT SCREENING?

Or without fines...masking or slowing throughput?



Introducing the **BCA Industries Patented SINGLE PASS TECHNOLOGY**

BCA can design a system for the size you need without screens using just 1/5 the HP of a Hammermill.

- PLASTIC
- PAPER
- CARDBOARD
- RUBBER
- WOOD
- METAL
- FILM
- MSW
- MIXED

AVAILABLE FOR ALL OF OUR SHREDDER MODELS!

SEND SAMPLES TO: BCA INDUSTRIES
4330 W GREEN TREE RD MILWAUKEE WI 53223



414.353.1002

bca-industries.com

See complete equipment listings



1997 MAGNATECH 66X60 SHREDDER
Includes conveyance & ECS.



2014 ELDAN TIRE RASPER SYSTEM
Includes magnets, baghouse and deluge system.



1997 E-Z METAL BALER.
New pump, bearing, gears and hoses.



WILLIAMS 60 X 90 HAMMERMILL SHREDDER
Tons of spare parts and conveyance!



GRANUTECH GRIZZLY KNIVES
Three sets. Need sharpened, only used once.



2012 DOOSAN DX255 WITH SHEAR
With Genesis GXP 400 R shear. Runs every day.



2006 AL-JON 580CL AUTO LOGGER
Needs some TLC.



MARATHON TR-9 BALER
1996 2-ram in good condition.



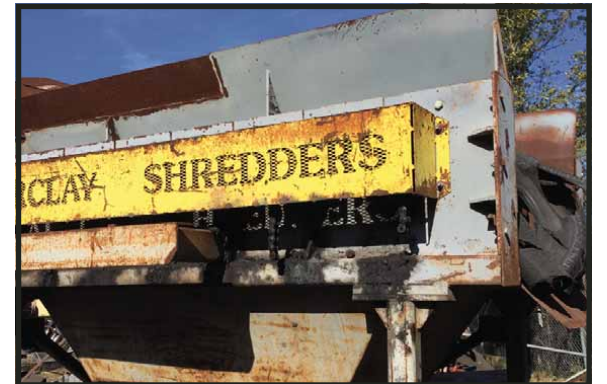
2004 COLUMBUS MCKINNON LIBERATOR 4R
Tire wire cleaner.



CUMBERLAND MODEL 30 TIRE GRANULATOR
Recently rebuilt, 100 hp



GENERAL HYDRAULICS VERTICAL BALER
Good condition - no leaks!



BARCLAY 6" CLASSIFIER
Good condition. Daisy wheel tire shred classifier.



2011 CM LIBERATOR 2R
Rebuilt and ready to run. The best machine for wire separation and wire free rubber material.



WILLIAMS 42 x 29 HAMMERMILL SHREDDER
250 HP motor, 50lb. hammers.



ERIEZ 36" EDDY CURRENT
Very good shape! Unbelievable price!

Financing available at DADECapital.com

at www.DADEAuctions.com today!



48" HURON VALLEY EDDY CURRENT
Model MK-V-48.



2006 MAC 5200 BALER
16" x 16" x variable bale size.



SIEMENS 1500 HP SHREDDER MOTOR
900 rpm, 3-phase, 4,000 volt.



RUBBER MULCH PAINT LINE
Dual drum batch painting line.



NEW AMSCO HAMMERS AND PIN PROTECTORS
For 60 x 104 hammermills.



AL-JON/UNITED F-466 ALUMINUM FURNACE
Mid-1980s aluminum smelter.



JEFFREY 62 X 90 SHREDDER
Rebuilt, disassembled and ready to ship.



WOLVERINE TIRE DEBADER
Light truck and passenger tires.



1995 GRANUTECH MAC CAR CRUSHER
Includes remote!



1990 MOSLEY CAR FLATTENER
New floor installed prior to decommissioning.



1981 HARRIS 500-TON SHEAR BALER
Includes conveyance!



2011 EXODUS MX 447 HRD
No attachments. 11,000 hours.



UNITED 990 ALUMINUM FURNACE
Start earning more for your aluminum!

DADE Auctions

844-222-2020

www.DADEAuctions.com

BUYERS OF RECYCLABLE FUELS



**GASOLINE
DIESEL
JET FUEL
AVGAS
TRANSMIX**

Call Today
for Information and a Quote!

855-218-3013
Info@lambfuels.com
www.lambfuels.com



METALS

TimkenSteel manufactures nearly 100 percent of its steel from recycled metal

TimkenSteel, a leader in customized alloy steel products and services, published a sustainability policy that highlights its ongoing commitment to transparency and long-term prosperity. The policy follows the release of the annual report to shareholders and proxy statement, both of which provide a holistic look at the company.

The company formed a cross-functional sustainability committee in 2018 to create the policy as a single statement to encompass the collection of sustainability policies the company has had in place since its formation. Those policies have led to industry-leading performance in areas such as safety, environmental responsibility, governance, risk management, employee engagement and community support. The newly published comprehensive policy also documents goals and objectives that will continue to improve company performance and guide cultural leadership, environmental stewardship and economic impact.

“As we’ve grown and evolved as a new company, we’ve been rooted in a set of core values that drive our social responsibility and sustainability,” said Tim Timken, chairman, chief executive officer and president. “Our shareholders, customers, suppliers and community partners are increasingly interested in

this holistic look at the company, so we’ve published a comprehensive sustainability policy to provide even greater transparency.”

Building on its position as a leader and innovator in the steel industry, TimkenSteel already has made significant headway toward its sustainability goals. 2018 was the company’s safest year on record as a result of a sustained program of employee engagement over the last decade. The company also had record environmental performance. TimkenSteel manufactures nearly 100 percent of its steel from post-consumer recycled metal and, in 2018, it increased overall recycling by 8.4 percent, water recycling by 17 percent and the amount of electric arc furnace dust recycled by 16 percent. In addition, TimkenSteel has been recognized for culture leadership, receiving awards for being a family-friendly workplace and one of the best places to work in Northeast Ohio based on employee satisfaction and engagement. It also received a regional award for its performance-based compensation plan structure.

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

Moving soon?

To ensure you continue receiving your copy of American Recycler, please notify us as soon as you have your new address!

Send changes to Circulation, American Recycler News, 900 W South Boundary St, Bldg 6, Perrysburg, OH 43551 or call us at 877-777-0043.



CELEBRATING TEN YEARS OF EXCELLENCE

TELL US THAT YOU SAW US IN AMERICAN RECYCLER



GRAPPLES

- Orange Peel Grapples Come With or Without Magnet
- HARDOX Steel Built
- Two-Year Warranty

GRANULATORS

- Copper Wire Granulator Systems
- Maximize Wire Profits
- Systems from 250 to 2600 lbs/hr
- 99% Clean Copper Chops

24V BATTERY MAGNETS (ESB)

- Low Cost
- No Generator Needed
- Easy Install
- Sizes Available From 26” - 48”

ESM 230V MAGNET & GENERATOR

- Lifting Capacity: 4,450 lbs.
- Sizes: 30”-72”
- Durable, Long Life

HYDRAULIC CLAW MAGNET

- 2 Tools in One
- Quick Coupler Ready
- Easy Installation
- 32”-60” Available

METALS

Nucor to build new plate mill

Nucor Corporation plans to build a new state of the art steel plate mill in Brandenburg, Kentucky, located along the Ohio River southwest of Louisville. The company will invest approximately \$1.35 billion to build the mill, which will be capable of producing 1.2 million tons per year of steel plate products. The plate mill will employ more than 400 full-time teammates at an average annual salary of \$72,000, and is expected to be fully operational in 2022, pending permit and regulatory approvals.

“This strategic investment will enable us to build a clear market leadership position in the U.S. plate market. Kentucky is an excellent location for this mill, right in the center of America’s largest plate consuming region,” said John Ferriola, chairman, chief executive officer & president of Nucor Corporation. “Our acquisition of the Gallatin sheet mill in Ghent, Kentucky five years ago has been a tremendous success, and we are pleased to add a second mill in the state.”

The new plate mill will significantly strengthen Nucor’s plate product portfolio, giving the company the

ability to produce 97 percent of the products demanded in the domestic plate market, including the specialty higher-margin products.

The new mill will produce cut-to-length, coiled, heat-treated and discrete plate ranging from 60 to 160” wide, and in gauges from 3/16 of an inch to 14”.

The selected location on the Ohio River will give Nucor logistical advantages in sourcing raw materials and serving customers throughout the Midwest. Nucor currently operates plate mills in North Carolina, Alabama and Texas.

Nucor has two additional major investment projects underway at its Gallatin sheet mill in Kentucky. Nucor Steel Gallatin’s new galvanizing line will be operational during the second quarter of this year. And, its project to increase Gallatin’s hot rolled coil capacity at expanded widths of up to 73 inches is expected to come online during 2021. The new plate mill and the projects at Nucor Steel Gallatin represent more than \$2 billion in investments in the state of Kentucky.

Preliminary determination issued in investigation of metal imports from China

The U.S. Department of Commerce announced the affirmative preliminary determination in the countervailing duty (CVD) investigation of imports of aluminum wire and cable from China, finding that exporters received countervailable subsidies ranging from 11.57 to 164.16 percent.

As a result of this decision, Commerce will instruct U.S. Customs and Border Protection to collect cash deposits from importers of aluminum wire and cable from China based on these preliminary rates.

In 2017, imports of aluminum wire and cable from China were valued at an estimated \$157.2 million.

The petitioners are Encore Wire Corporation (McKinney, Texas) and Southwire Company, LLC (Carrollton, Georgia).

The strict enforcement of U.S. trade law is a primary focus of the Trump Administration. Since the begin-

ning of the current Administration, Commerce has initiated 157 new antidumping and countervailing duty investigations – this is a 283 percent increase from the comparable period in the previous administration.

Commerce is currently scheduled to announce its final determination on or about August 13, 2019.

If Commerce makes an affirmative final determination, the U.S. International Trade Commission (ITC) will be scheduled to make its final injury determination on or about September 26, 2019. If Commerce makes an affirmative final determination in this investigation and the ITC makes an affirmative final injury determination, Commerce will issue a CVD order. If Commerce makes a negative final determination or the ITC makes a negative final determination of injury, the investigation will be terminated and no order will be issued.

Novelis hosts ribbon cutting celebration for \$4.5 million investment

Novelis, Inc., a producer of flat-rolled aluminum products and the world’s largest recycler of aluminum, hosted a ribbon cutting celebration to commemorate a \$4.5 million investment at its facility in Warren, Ohio.

The investment is expected to provide greater versatility for pre-treatments, improve operational efficiency

at the facility and reduce costs over time.

“It is an exciting day for our facility as we complete this upgrade,” said Paul Nelson, plant manager. “We are committed to shaping a sustainable world together, and this investment allows us to sustain our business here in Warren for many years to come.”

Mayor William “Doug” Franklin and representatives from the offices of Senator Sherrod Brown and Senator Rob Portman were in attendance at the celebration.

The Warren facility has 75 employees dedicated to applying coating to aluminum beverage cans and produces enough aluminum for more than one billion beverage can lids each month.





Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$285.00	273.00	293.00	320.00	346.00
#1 Bundles	per gross ton	295.00	248.00	295.00	322.00	348.00
Plate and Structural	per gross ton	294.00	269.00	273.00	315.00	330.00
#1 & 2 Mixed Steel	per gross ton	225.00	253.00	225.00	294.00	304.00
Shredder Bundles (tin)	per gross ton	154.00	165.00	174.00	169.00	185.00
Crushed Auto Bodies	per gross ton	154.00	165.00	174.00	169.00	185.00
Steel Turnings	per gross ton	89.00	92.00	98.00	158.00	163.00
#1 Copper	per pound	2.61	2.66	2.66	2.73	2.70
#2 Copper	per pound	2.49	2.57	2.43	2.52	2.49
Aluminum Cans	per pound	0.69	0.71	0.61	0.61	0.52
Auto Radiators	per pound	1.60	1.45	1.69	1.64	1.69
Aluminum Core Radiators	per pound	0.60	0.58	0.49	0.47	0.40
Heater Cores	per pound	1.09	1.12	1.20	1.22	1.35
Stainless Steel	per pound	0.58	0.55	0.53	0.54	0.57

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.


SAVE \$\$\$!!! SAVE \$\$\$!!! SAVE \$\$\$!!!

QUICK & EASY RECOVERY
of
COPPER & ALUMINUM




EARN OVER 200% for CLEAN COPPER!

- Strips 110 ft/minute
- Self feeding
- Easy to maintain
- Runs on 110 volts
- Adjustable wire guides
- 1 year warranty
- Manufactured by:



Copper Wire Stripper Limited

888-419-3555
www.copperwirestripper.com

Special terms for rental stores Made in Canada 

AUTOMOTIVE

IAA makes strategic investments in expansions at six key locations

Insurance Auto Auctions, Inc. (IAA), a business unit of global vehicle remarketing and technology solutions provider, KAR Auction Services, is expanding branches in six states – further investing in its future growth. The expansions have added more than 110 acres to IAA's footprint in Alabama, Arkansas, Minnesota, New York and Texas to address sellers' logistical needs and provide increased inventory options for buyers.

“By anticipating our current and new clients' growing volume across the country, we continue to make strategic

investments to meet their future needs and most importantly further enhance their auction experience,” said John Kett, chief executive officer and president of IAA. “These expansions will allow us to marshal and store more inventory for our sellers and offer an expanded vehicle selection to our buyers – a win-win for all our customers.”

IAA has made land investments in the following locations: IAA Huntsville Alabama, IAA Little Rock, Arkansas, IAA Minneapolis/St. Paul, Minnesota, IAA Long Island, New York and IAA Houston North, Texas.

Four Honda manufacturing plants earn certification for achieving energy efficiency

Marysville and East Liberty auto plants in Ohio earn 13th consecutive awards

For the 13th consecutive year, 2 of Honda's Ohio automobile manufacturing plants have earned the U.S. Environmental Protection Agency's (EPA's) ENERGY STAR Certification, while Honda Manufacturing of Indiana (HMIN) achieved the designation for the seventh year in a row.

Joining this accomplished group of Honda plants is a new certification for the Anna Engine Plant (AEP) in Anna, Ohio, which was able to reach 2018 ENERGY STAR status in the first year of EPA's energy standards being set for engine plants.

EPA ENERGY STAR certification signifies that the facilities perform in the top 25 percent of similar facilities for energy efficiency and meet strict energy efficiency performance levels set by the EPA. On average, certified plants consume 35 percent less energy and contribute 35 percent fewer greenhouse gas emissions than similar operations.

The Marysville and East Liberty automobile plants of Honda of America Mfg. continued to find new and innovative ways to conserve energy in 2018, furthering the company's efforts to reduce its carbon footprint. The 2.8 million square foot East Liberty Auto Plant (ELP), which produces the Honda CR-V and the Acura RDX and MDX sport-utility vehicles, expanded its use of LED lighting, installing more than 850 new fixtures and saving more than 1.1 million kWh of electricity.

The 4.3 million square foot Marysville Auto Plant (MAP), which produces the Honda Accord, Accord Hybrid and CR-V as well as the Acura ILX and TLX, saw improvements through the inception of a five year plan to improve energy management. The initiative started with the plant's high-bay lighting with LED fixtures.

HMIN, which produces the Honda Insight as well as the Honda Civic and CR-V, has been ENERGY STAR certified for each of the last seven years. The plant continued on its path toward greater energy efficiency through the phased conversion to LED lighting and increasing emphasis on managing non-production energy use, along with the implementation of a compressed air leak management program.

Ohio's AEP achieved energy savings by reducing the power needed to pressurize its compressed air system. The plant also raised the temperature of its process water system, lessening the energy used by the plant's chillers. AEP opened in 1985 and has the capacity to manufacture 1.18 million engines per year, ranging from the turbocharged four-cylinder engines powering models like the Honda Civic, Accord and CR-V, up to the twin-turbo V6 powerplant found in the Acura NSX supercar.

ENERGY STAR was introduced by EPA in 1992 as a voluntary, market-based partnership to reduce greenhouse gas emissions through energy efficiency. Today, the ENERGY STAR label can be found on more than 60 different kinds of products as well as new homes and commercial and industrial buildings that meet strict energy-efficiency specifications set by the EPA.

NJ DEP to expand use of zero greenhouse gas emission cars

The New Jersey Department of Environmental Protection is joining the International Zero-Emission Vehicle Alliance, a group focused on reducing greenhouse gas emissions from the transportation sector by expanding the market for zero emission vehicles.

Participating in the Alliance complements a range of initiatives by Governor Phil Murphy for New Jersey to achieve 100 percent clean energy and transportation by 2050.

Working with the Alliance will bolster the DEP's ongoing efforts to expand the electric vehicle charging infrastructure grant program It Pay\$ To Plug In, upcoming electric vehicle test drives and a regional Drive Change, Drive Electric consumer awareness campaign coordinated by the Northeast States for Coordinated Air Use Management, a nonprofit association of state air quality agencies in the Northeast.

“New Jersey's announcement will further the strategies outlined in the 2018-2021 Multi State Zero Emission Vehicle Action Plan and amplify the work being done in the region to build out electric vehicle infrastructure and enhance consumer awareness,” said Elaine O'Grady, policy and program director for the Northeast States group.

The Alliance will focus on three topic areas in the coming year: implementing smart charging infrastructure, developing funding for the transition to zero-emission vehicles and expanding access to those vehicles.

The Alliance's 17 member governments are Germany, Netherlands, Norway, the United Kingdom and Baden-Wuerttemberg; the Canadian provinces British Columbia and Quebec; and California, Connecticut, Maryland, Massachusetts, New Jersey, New York, Oregon, Rhode Island, Vermont and Washington state.

SALVAGING Millions

by Ron Sturgeon
Autosalvageconsultant.com

Think out of the box

The first article in this series listed more than 25 tactics to increase your business success, all of them based on my experience. I started with nothing and didn't attend college, so I know you can achieve maximum success, regardless of your education.

After blocking and tackling (another in this series), you have to think out of the box to stay ahead of the competition and the industry in general. Here are a few ways to stimulate your out-of-the-box thinking:

- Read, read and then read more. Your competitors aren't doing it, so they don't know what they don't know. The latest management and leadership tactics, tax avoidance, technology tools, the list goes on and on, but it's all out there; there aren't really any secrets.

- Attend conventions, join your association, and go to as many training course as possible, at least four per year. Your association's trade show and seminars are great ways to learn more.

- Although trade shows and conventions are great, hanging out in the bar with other operators will give you a wealth of ideas about what to do and what not to do.

- I loved attending trade shows of related industries. The collision repairers had great conventions and tradeshows, and I attended every third year or so. I saw the greatest new tools, marketing techniques and

products, technology and HR-related items. The new car dealers association, NADA, was 10 years or more ahead of us in almost all areas, and their members were focused on getting the customers' money and keeping them happy, while making a good profit. What great goals for any business owner!

- Don't be afraid to be a rebel. I was one of the first to use direct mail. Nationwide. I had competitors call me from across the country and tell me “Don't be mailing my customers your materials; when they need something, they will call me and I will call you.” WOW. But old habits and paradigms die hard. Try things you learn that have never been tried; some will be great and set you apart from your competitors.

- I also read publications off the beaten path and magazines related to factory production and efficiency. I read to learn what others were doing and teaching. There is a wealth of information out there. I love marketing, and think its key to maximum success, so I was always hungry for the latest ideas. INC magazine wrote a four page article in 1995 about how my yard tracked mailers, prospects, customers and close rates, which was truly innovative at the time. Even today, most yards don't do it. Read my article on prospect and customer acquisition cost for keys to how to measure your marketing initiatives.

Remember, only you can make BUSINESS GREAT!

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

INTERNATIONAL

Canada passes Bill C-64: The Wrecked, Abandoned or Hazardous Vessels Act

Wrecked, abandoned and hazardous vessels, including small boats, pose environmental, economic, and safety hazards, and are a concern for coastal and inland water communities across Canada. The Government of Canada, through its Oceans Protection Plan, is taking action to deter this irresponsible practice.

The Act prohibits vessel abandonment and brings into Canadian law the International Convention on the Removal of Wrecks, 2007. It increases owner responsibility and liability for vessels, addresses irresponsible vessel management, and enables the Government of Canada to remove problem vessels. Not complying with the Act now can result in penalties of up to \$50,000 for individuals and \$250,000 for companies or corporations, while regulatory offence prosecution could result in a maximum fine of \$1M for individuals and \$6M for companies or corporations.

As part of the National Strategy to Address Canada's Wrecked and Abandoned Vessels, the Government of Canada launched two short-term funding programs in 2017 to support coastal communities and other eligible recipients in removing

and disposing of high-priority, smaller vessels: Transport Canada's Abandoned Boats Program, and Fisheries and Oceans Canada's Abandoned and Wrecked Vessels Removal Program. Transport Canada's program also supports education and awareness activities and research on vessel recycling and design. Other measures being undertaken as part of the National Strategy include improving vessel owner identification, creating an inventory of problem vessels and assessing their risks, and establishing a polluter pays approach for vessel clean-up.

Launched in November 2016, the five year, \$1.5 billion Oceans Protection Plan is the largest investment ever made to protect Canada's coasts and waterways. Over the past two years, the Government of Canada has invested in hundreds of projects that are making the marine safety system stronger, and protecting coastal environments and marine species more than ever. Based on the latest science and technology, Indigenous partnerships and collaboration, these projects bring us closer to healthier, cleaner and safer oceans.

Sterlite Tech now home to India's first zero waste plant

Sterlite Tech, a global data network solution company, has won Intertek's Zero Waste to Landfill certification for its optical fiber cable manufacturing plant in Rakholi, Silvassa (India). This world-class manufacturing facility diverts more than 99 percent waste away from landfill, making it India's first optical fiber cable plant to receive this third-party global certification.

Earlier, Sterlite Tech's glass and optical fiber manufacturing plant at

Aurangabad and its Specialty Cable manufacturing plant at Dadra, India were granted Near Zero Waste to Landfill Intertek certifications for diverting more than 95 percent waste away from landfill.

With eight manufacturing facilities across India, Italy, China and Brazil, Sterlite Tech is continuously taking conscious steps to validate its waste management practices for globally recognized and standardized norms, while identifying opportunities for further improvements.



We're not just blowing smoke.

Advertising in American Recycler WORKS

877-777-0043

www.AmericanRecycler.com

YOUR TRUSTED SOURCE



Solutions For Any Application

Whether you need a comprehensive system or single machine solution, Granutech-Saturn Systems has been a leading developer and continuous innovator to the scrap recycling industry for more than 50 years.



Experience Granutech-Saturn difference!

Contact us
877.582.7800
www.granutech.com



Celebrating
Our



Thank You!

THANK YOU for allowing us to provide current news and information to you for more than 20 years!

American Recycler News was founded with the goal of keeping our readers up-to-date with the most current and timely news and information on the recycling, waste and salvage industries. To this day, we remain firmly committed to this goal and will do everything within our power to make this happen.



1999

2009

2019



877-777-0043
www.AmericanRecycler.com

We would like to thank all of our advertisers, readers and supporters that make American Recycler News possible.

We appreciate your continued support and look forward to an exciting future!

ELECTRONICS

Environmental Leadership Program shares results and award winners for 2018

The State Electronics Challenge, a nationwide environmental sustainability initiative, has announced its 2018 environmental achievements and award winners for reducing the environmental impact of electronic office equipment.

The program focuses on green procurement, power and paper conservation, and responsible end-of-life recycling. Participants are annually invited to report their activities and receive individual sustainability reports that describe the impact of their best management practices.

In 2018, participants representing more than 60,000 employees achieved these environmental benefits:

- Energy saved equivalent to the electricity needed to power 133,390 U.S. households per year.

- Avoided greenhouse gas emissions equivalent to removing 2,808,645 cars from the road per year,

- Avoided solid waste generation equivalent to the amount generated by 835 households per year.

- Avoided the use of toxic materials in products equivalent to the weight of 135,735 bricks.

Recognized for their specific accomplishments:

Gold recognition – for excellence in green purchasing, energy and paper conservation, and recycling were:

- Borough of State College, Pennsylvania
- Centre County Recycling & Refuse Authority, Pennsylvania
- City of Corvallis, Oregon
- City of Fort Collins, Colorado
- City of La Crosse, Wisconsin
- Providence School Department, Rhode Island
- New York State Energy Research and Development Authority

Silver recognition – for excellence in green purchasing and recycling were:

- Ball State University, Indiana
- City of Columbia, South Carolina
- City & County of Denver, Colorado
- Maryland Department of Transportation

Silver recognition – for excellence in green purchasing, and energy and paper conservation:

- City of Keene, New Hampshire

Bronze recognition – for excellence in green purchasing:

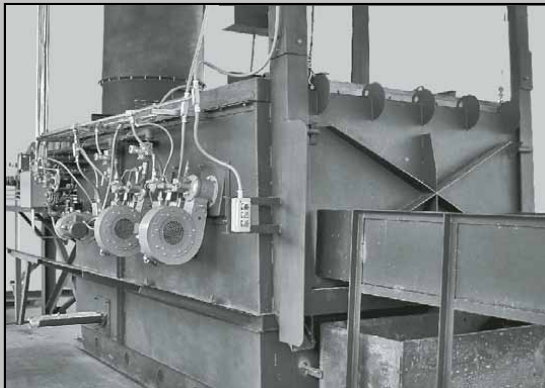
- Upper Merion Township, Pennsylvania
- The Northeast Recycling Council administers the State Electronics Challenge. Currently, 169 state, tribal, regional, colleges, schools, universities, and local government agencies, and non-profit organizations, representing more than 223,000 employees, are participating in the program.

METAL RECYCLERS

Raise Profits!

INVEST IN A QUALITY-BUILT SWEAT FURNACE

With a US Furnace's **MAX-4000 Hi Efficiency Sweat Furnace**, get the lowest fuel cost per lb to process than any other furnace manufacturer — **GUARANTEED!** The lowest melt loss rate than any other manufacturer — **GUARANTEED!** On-site installation, training & service.



FULL EPA compliance GUARANTEED.



Permit assistance available • Large hearth opening for automotive scrap



Recycling Services International
518-424-1168

www.RecyclingFurnaces.com

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
- Integrated Interchange to locate all possible vehicle matches in your yard
- Save thousands in NMVTIS Submissions
- Pre-bid vehicles with curb weight options
- Track scrap & commodity sales
- 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

To Place Your Ad

Call
877-777-0043
Fax
419-931-0740
Visit
AmericanRecycler.com

Classified ADVERTISEMENTS

WE ACCEPT CHECKS, MONEY ORDERS, MASTERCARD, VISA and DISCOVER.
ALL CLASSIFIED ADVERTISEMENTS MUST BE PAID IN ADVANCE.

**ASK ABOUT
ADDING COLOR!**

Rates

Text Classifieds
\$70 for up to 50 words.
Add \$1 each additional word.

Display Classifieds
\$75 per column inch depth,
2.5" width.

Featured Classifieds

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



609.854.3520 tel
609.854.3596 fax
rs@sternerconsulting.com
sternerconsulting.com

GRAPPLES

MAG GRAPPLES

New/Used grapples and magnet grapples available for immediate delivery.
Moley's magnet grapple design offers maximum capacity compared to competitors.

1(844) M-MAGNET
sales@moleymagneticsinc.com
moleymagneticsinc.com

Balers

CROSSWRAP 2200 Waste Bale Wrapper

Zero time, has been stored outside.
Great parts machine! \$35,000
CALL/TEXT GARY 509-773-3862

Containers

BomacCarts

A Cut Above the Rest

www.bomaccarts.com • sales@bomaccarts.com
1-800-909-1147

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!

Crushers

'05 EZ CRUSHER

A+ model, John Deere diesel engine, 1,132 hours, purchased new for a small salvage yard, one owner: 716-680-0045

\$80,000

Material Handlers

20 MACHINES IN STOCK!
Sennebogen, Liebherr, Fuchs & Cat
New and Used Grapples
New Magnets and Gen-sets
New 24 Volt Magnets

2012 Sennebogen 821M

- New 15 KW Gen-set
- 36' Reach
- Solid Tires
- Rotating Grapple
- Touched-up Paint

EQUIPMENT INTERNATIONAL
303-699-7766
www.equipint.com

Miscellaneous

2012 DOOSAN DX255 with Genesis Shear

Comes complete with a Genesis GXP 400R Shear.
More pictures are available.

567-207-3030

WE BUY AND SELL USED RECYCLING EQUIPMENT

HOVDE RECYCLING EQUIPMENT
800-617-5219 TEXT 320-760-5688
scrapequip.com steven@scrapequip.com

Auto Recycling

Businesses

TWO FEEDER YARDS FOR SALE in Northwestern Pennsylvania, both close to I-80, 15 miles apart, lots of support equipment and inventory, looking for offers over \$2 million. Partial financing considered. Fax for details: 814-772-9735. E-mail: dfk.amr@gmail.com

WELL MANAGED, HIGHLY PROFITABLE scrap metal recycling and auto salvage yard for sale, 12 years in business, turn-key operation, 2 buildings on 14 acres, one of the biggest u-pull-it yards in central Florida, with over 1,500 vehicles. All licenses and permits ready, huge potential for growth. Asking \$1.3M for real estate, equipment and parts inventory. Please call Jeff at 646-541-1858.

JUNE 2019:

FOCUS: Automotive

EQUIPMENT SPOTLIGHT:

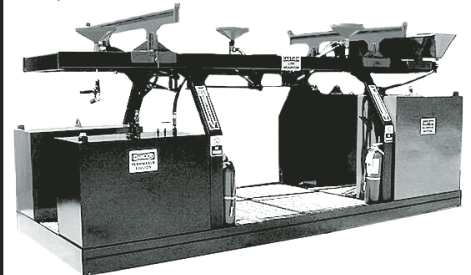
Magnets

NEXT DEADLINE:
May 17

Call Today!
877-777-0043

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

THE ORIGINAL CATALYTIC CONVERTOR REMOVAL TOOL: Our powerful and easy-to-use products are unsurpassed and we've been making them for 20 years! Choose from 110 or 12-volt, gas or de-canning models. Our three hydraulic models are fast, safe and effective. Custom applications provided as well! 800-999-8100, www.supershears.com

ADVERTISING IN AMERICAN RECYCLER is one of the smartest things you can do for your business! It's also one of the easiest ways to increase your sales income. Call 877-777-0043 and tell us what you would like to share with our tens of thousands of readers! All ads are also shown on AmericanRecycler.com FREE!

Miscellaneous

ALUMINUM KING SWEAT FURNACE FOR SALE. Bought new in 2009. Limited usage. Comes with (3) 500 lb. trays. Call for details: 712-563-2313. Ask for Eddie Jr.

Arm Your Hog With...

ARMORHOG

Extreme Duty Grinder Parts

Screens, Tips, Belts, Other Parts, & Repair for ALL BRANDS of Rigid Hammer Style Tub/Horizontal Grinders.

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

ARMORHOG uses NITROGRIT

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

Hi-efficiency, new technology.
INCREASE PROFITS!
SWEAT FURNACES

US Furnaces's
MAX-4000

Also:
PARTS • REPAIR • CUSTOM BUILDS

518-424-1168
www.RecyclingFurnaces.com

SARGENTS

EQUIPMENT & REPAIR SERVICE

Recycling Equipment-
Your Complete Source!

Moley Magnets
Harris/IPS Balers
Genesis Shears
Used Equipment
Onsite Portable Line Boring

We Service What We Sell

TO SEE OUR INVENTORY PLEASE VISIT
sargentsequipment.com
708-758-2062

WE HAVE THE
**STAINLESS STEEL
SEPARATION SOLUTIONS
YOU NEED**



Remove up to 94% of large fraction stainless steel (5" minus in size)

800-835-2526


BUNTING

Magnetics Co.

www.buntingmagnetics.com

Miscellaneous

BUILT TO HANDLE



THE DAILY GRIND.

ProGrind Horizontal Grinders


- Dual Shear Protection for Hammermill
- Remote Control
- Magnetic Head Pulley for Metal Separation
- Steel Infeed Belt
- Self-Adjusting Hydraulic Clutch
- Fold Down Infeed Tailgate
- Enclosed Engine Cover with Dual Access Doors

205-640-5181

PRECISION
PRECISION HUSKY CORPORATION

\$\$\$ PAID FOR PLASTIC SCRAP! We buy in truckload, all grades of post-industrial plastic scrap. Call us and we'll cut you a check promptly! Pick up in all lower 48 states, excellent credit and trade references, A+ rated BBB company, 10+ years in business. Call Jim, Blackrock Plastics, 843-410-0326.

ClearSpan fabric structures



LET'S BUILD
YOUR IDEAL STRUCTURE

www.clearspan.com 1.866.643.1010

Software

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

Tire Recycling

Manufacturer of tire reduction systems since 1991.



**SIDEWALL CUTTERS
DEBEADERS • DERIMMERS**

Visit www.eagle-equipment.com to see our full line of tire-recycling equipment.

Lyons, NE | 800-755-8473 | eagle@brehmer.com

BUSINESS BRIEFS

DADE Capital adopts new business model for sales

International finance organization, DADE Capital Corp, headquartered in Ohio, has completed a strategic structural change meant to enhance the customer experience and expand options for buyer and sellers of new and used equipment in the recycling, salvage and waste industries.

The newly formed spinoff, named DADE Auctions, Inc., allows sellers to take their equipment to the marketplace in several auction formats and provides them with a much larger audience than what the typical avenues offer. Expanded services available from a regional representative include an in-person visit for photos and details about the sale items, making listing equipment easier than ever before.

For equipment buyers, the website www.dadeauctions.com enables browsing auction pieces online and researching before bidding. The specialized industry offerings enhances search speed and provides a unique source for focused, pertinent equipment.

Meridian Waste acquires WCA hauling assets

Meridian Waste, an integrated, non-hazardous solid waste services company, has purchased the hauling assets of Waste Corporation of Tennessee, LLC (WCA), in the Knoxville, Tennessee marketplace. The assets include vehicles, containers and customer contracts. The acquired assets will be housed out of Meridian Waste's newest hauling location at 6236 Rutledge Pike in Knoxville, 2.7 miles south of the company's Poplar View Landfill.

This purchase represents the seventh acquisition since Warren Equity's acquisition of Meridian Waste in April 2018.

Jeff Kaveney promoted to Eriez director of sales

Eriez-USA has promoted Jeff Kaveney as director of sales and product management. Kaveney, has been with Eriez for 24 years and had served as manager of product marketing and administration prior to this promotion.

Kaveney earned a bachelor's degree in business management from Gannon University in 1984. He joined the Eriez sales team in 1995 as a technical sales representative. During his tenure with Eriez, Kaveney has completed numerous training programs and authored an extensive array of technical articles.

Dan Byrne joins DADA Holdings as a director

Dada Holdings LLC has hired Dan Byrne as its director of strategy and investor relations.

Byrne will be based in the company's headquarters in Fort Lauderdale, Florida. Byrne joins Dada Holdings from J.P. Morgan where he spent five years in the firm's institutional wealth management group.

Hendrickson expands trailer systems operations

Hendrickson is expanding their trailer commercial vehicle systems operations in Northeastern Ohio. Thirty-five acres were purchased from the more than 325 acre parcel of the Stark County Farm property.

This new 35 acre plot will be home to Hendrickson's sixth trailer suspension plant. "This \$50 million, state-of-the-art facility will support local and Canadian customers as well as other Hendrickson divisions. It is our 11th manufacturing site in the U.S. and will have the capacity to manufacture axles and suspensions for Heavy-Duty Class 8 vehicles.

Hendrickson, a Boler company, is a global manufacturer and supplier of medium- and heavy-duty mechanical, elastomeric and air suspensions; integrated and non-integrated axle and brakes systems; tire pressure control systems; auxiliary lift axle systems; parabolic and multi-leaf springs; stabilizers; bumpers; and components to the global commercial transportation industry.

Stanley Infrastructure completes two acquisitions

The Stanley Infrastructure division of Stanley Black & Decker Inc. has finalized its acquisition of Paladin Attachments and Pengo Attachments. The acquisition does not include the Genesis line of attachments, with that brand remaining part of Oak Brook, Illinois-based International Equipment Solutions LLC (IES).

The Stanley Infrastructure division now includes the Paladin and Pengo brands, along with the Stanley, LaBounty and Dubuis brands in that business unit. Other brands within the Paladin family include FFC, Jewell and Sweepster

Collins named president of Akro-Mils and Jamco

Akro-Mils, a North American leader in storage, organization and transport products, announced that Chad Collins has accepted the position of president of Akro-Mils and Jamco.

Collins has spent 10 years with Parker Hannifin within the Aerospace, Filtration, Automation and Motion Systems groups. Most recently he was general manager in Europe with operating sites in United Kingdom, Germany, France, Italy and Czech Republic.

Talbert names 2018 Dealer Award winners

Talbert Manufacturing, specializing in heavy-haul solutions, named Hale Trailer Brake & Wheel, headquartered in Voorhees, New Jersey, as its top dealer for the 11th straight year.

This award recognizes a Talbert dealer for outstanding performance in trailer sales, service and parts. Hale outperformed all other Talbert dealers in 2018 and was also recognized as the top parts seller for the year.

BUSINESS BRIEFS

Kinshofer completes acquisition of Hammer SRL

■ Kinshofer, a manufacturer of excavator and loader crane attachments, is expanding its product line to include hydraulic breaker excavator attachments following the acquisition of Hammer SRL, an Italy based manufacturer of demolition, excavation, recycling and material handling attachments. Kinshofer chose the company because of its reputation for quality and more than 30 years of experience in the market. The new line includes 22 breakers for carriers from .5 ton to 200 tons and joins an already expansive line of Kinshofer tools.

The breakers are made up of the KSB Series for carriers from .5 ton to 12 tons and the KFX Series for weights from 8 to 200 tons. Each line includes features to improve operator comfort, reduce wear and improve longevity. The acquisition also includes a variety of grapples, buckets and more. These will serve as an alternative to Kinshofer's attachment line for the price-restricted customer.

The Hammer management team will stay in its entirety and will continue manufacturing in Italy. Hammer and Kinshofer will add additional staff to ensure a smooth launch of Hammer's products and services worldwide through Kinshofer's global network.

Hammer attachments will retain branding in Europe but will be marked Kinshofer in North America.

Seek to be worth knowing rather than be well known.

Doosan Infracore opens parts distribution center

■ Doosan Infracore North America, LLC, a manufacturer of construction equipment, opened its second North American parts distribution center near Seattle, Washington.

In late 2018, Doosan opened a new 100,000 sq.ft. parts distribution center in the Atlanta area. A second Doosan parts distribution center in Lacey, Washington, became operational April 1, 2019. The second Doosan parts distribution center nearly triples the company's parts inventory for its dealers and customers in North America.

The Doosan parts distribution center in Lacey is approximately 57,000 sq.ft. Doosan dealers and customers in the Western U.S. and Canada will benefit from the new facility, with better service options, deeper inventory and faster parts delivery.

The Lacey facility is designed for genuine Doosan® parts distribution and shipping. It is managed by DHL Supply Chain. The center will initially stock approximately 9,000 stock keeping units that can be shipped to service Doosan equipment throughout the Western U.S. and Canada, with room to expand parts inventory. Such Doosan construction equipment includes articulated dump trucks, crawler excavators, material handlers, mini excavators, log loaders and wheel loaders.

DHL's Transportation Brokerage Service will manage the Doosan less than load outbound transportation to Doosan equipment dealers.

Hitachi Wheel Loaders appoints new director

■ Masaaki Hirose, president of Hitachi Construction Machinery Loaders America Inc., (HCMA) has announced his retirement from his current position, appointing vice president of operations Al Quinn to succeed him in day-to-day management of the company.

Hirose has accepted a new position within Hitachi, now serving as chairman and director of HCMA, and vice president of the Hitachi Americas Operations Group. Quinn becomes managing director, reporting to Hirose.

Under Hirose's leadership, HCMA has seen 175 percent growth in revenue and has nearly doubled its market share. Last June, the company celebrated the grand opening of its new U.S. corporate headquarters and training facility, representing a \$4 million investment in support for customers and dealers in the Americas.

ASV Holdings adds new dealers to its network

■ ASV Holdings Inc., a manufacturer of all-purpose and all-season compact track loaders and skid steers, added several new dealers to its dealer network in Q4 of 2018 — R&S Industries, Inc., Robin Rents, and Kruseman Implement, Inc., plus new locations for Heavy Machines, Inc., Buckeye Power Sales and Delta Power Equipment.

The new dealers are a welcome addition to ASV's quickly growing dealer network as the company expands across the U.S. and Canada.

The new dealers will offer all ASV Posi-Track compact track loaders, featuring best-in-class operating capacity, cooling systems and hydraulic efficiency. Among these are several new CTLs — the RT-25 and RT-40, industry-leading small-frame CTLs, and the RT-65, the company's newest radial lift CTL offering maximum serviceability, reliability and productivity. The companies will also carry ASV's skid-steer loaders.

Eriez promotes Milton to director of heavy industry

■ Eriez-USA has promoted Darrell Milton to director of heavy industry. Milton has been an Eriez employee for nearly three decades, serving most recently as metalworking filtration systems manager.

In his role as director of heavy industry, Milton's responsibilities will include developing key sales strategies, tactics and action plans to expand Eriez' metalworking, heavy industry and recycling market sales. He will also oversee the performance of Eriez-USA's metalworking representative network in the U.S. and Canada.

Milton, a native Canadian, joined Eriez in 1991 as part of the company's Canadian sales staff, rising to the position of Canadian national sales manager in 1995. He was promoted to recycling market manager in 2011 before his promotion to metalworking filtration systems manager in 2013.

Tailwater Capital sells Petro Waste to WM subsidiary

■ Tailwater Capital LLC, an energy-focused private equity firm based in Dallas, announced the sale of Petro Waste Environmental to WM Energy Services Holdings, LLC, an indirect wholly owned subsidiary of Waste Management, Inc. Terms of the transaction were not disclosed.

Based in San Antonio, Texas, Petro Waste Environmental was originally funded by Tailwater in 2014 in partnership with founder and chief executive officer George Wommack and has since grown to become a leading provider of comprehensive oilfield environmental services and solid waste disposal serving the Permian Basin and Eagle Ford Shale Play, two of the most economically active oil and gas producing regions in the U.S.

Since inception, Petro Waste Environmental has organically permitted five landfills, acquired two landfill permits and built five state-of-the-art facilities, strategically increasing its footprint and proximity to exploration and production activity in the West Texas region while improving its service and disposal capabilities for its valued customers.

GRYB acquires Bateman Manufacturing

■ GRYB has acquired Bateman Manufacturing which has over 40 employees and is located in Oro-Medonte, just north of Toronto.

Bateman boasts over 30 years of experience manufacturing grapples and other attachments for the demolition and recycling industries. Rémi Beaudoin, Luc D'Amours, Jacquot Caron, and Jason McNeil, the current GRYB owners, are proud to welcome these new employees into the GRYB family, who will now be part of the company's future success. This acquisition will allow GRYB to become a national leader in manufacturing and sales of attachments for heavy machinery in a variety of industries, including industrial, construction, demolition, recycling and forestry. GRYB's goal is to revolutionize the client experience by offering an enhanced product line and an unmatched execution speed, from design to after-sales customer service.

In recent years, GRYB has become a leader in designing specialized attachments in Quebec. In the coming years, GRYB plans to launch its products and expertise internationally. The company, now located at two production sites, Victoriaville, Quebec and Oro-Medonte, Ontario has a total of 105,000 square feet with over 175 employees all working to push boundaries and overcome any challenges. Since 2007, GRYB has been growing significantly and expects revenues to total approximately \$40 million in 2019.

The acquisition of Bateman Manufacturing will diversify the product range offered to existing clients in Quebec by introducing a line of grapples and by establishing a presence in Ontario.



There are MUCH better ways to get new business.

Go on inside, put your feet up and give us a call. We'll design the ads for you, for free. Now *that's* value.

FREE
AD
DESIGN

877-777-0043

www.AmericanRecycler.com

OVER
34,000
READERS

GET OUT THERE



AND GRIND.

Precision Husky Corporation leads the forest products industry, building the highest quality, most rugged equipment available since 1964.

Our horizontal grinders are the most powerful, easiest to use grinders in the industry. They are designed with innovative features and

advanced technologies to give you the power and production needed to tackle the most demanding grinding operations.

You can invest in our equipment with confidence, and know it will do the job for many years to come. Call us today to discuss your needs and learn more about our high-performance products.

ProGrind Horizontal Grinders

- Dual Shear Protection for Hammermill
- Remote Control
- Magnetic Head Pulley for Metal Separation
- Steel Infeed Belt
- Self-Adjusting Hydraulic Clutch
- Fold Down Infeed Tailgate for Increased Bed Length and Closes for “Hopper” Style Feeding
- Enclosed Engine Cover with Dual Access Doors for Ease of Maintenance



ENGINEERED FOR PERFORMANCE. BUILT FOR ENDURANCE.



PRECISION
PRECISION HUSKY CORPORATION

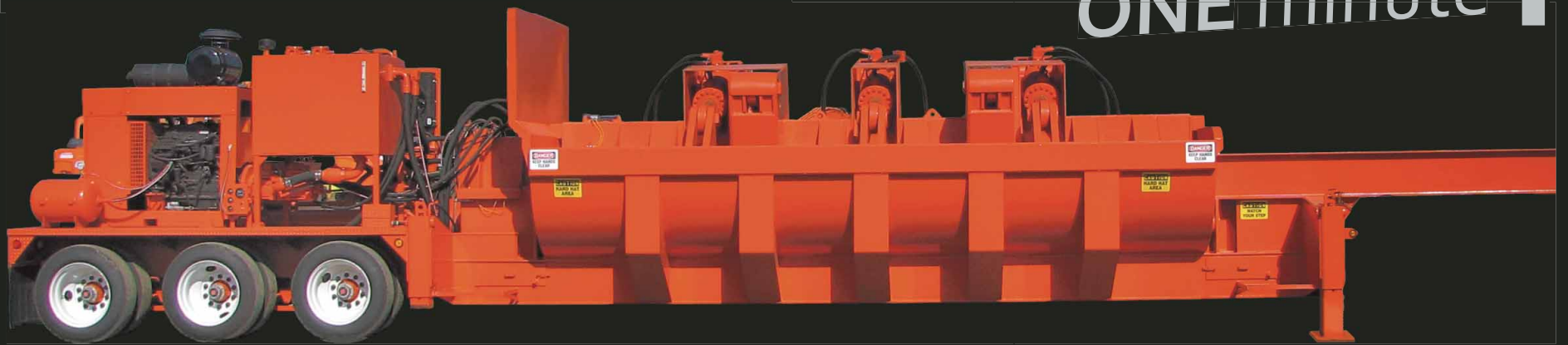


P.O. Drawer 507, Leeds, AL 35094 • 205-640-5181 • www.precisionhusky.com • sales@precisionhusky.com

IRON PACK BALER

Remote Control • Automatic Cycle

Bale a CAR in
ONE minute



IRON AX ENVIRO-RACK

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

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

*Complete fluid removal
in less than 5 minutes!*

BIG MOUTH SHEAR



- 2 Piece Cutting Tip
- 8 Cutting Edges per Blade!
- Low Operating Cost
- Flip the Tip without Rebuilding!



IRON AX SHEAR PACKAGES

All shears feature 360° continuous rotation.

 **RECYCLING**
EQUIPMENT SALES, INC

Toll-free 877-247-6629

Fax 478-252-9030

Wadley, Georgia

Website: www.ironax.com

E-mail: ironax@ironax.com

**Equipment Ready For
Shipment Today**

We have a NEW Doosan DX225 with a
NEW Iron Ax IA25R Shear mounted
and ready to cut iron.

Contact us for full details!

 **You Tube**

View the Iron Ax YouTube Channel
to see the Iron Pack Baler
In Action Today!

Hazardous waste projected to increase

by MAURA KELLER

mkeller@americanrecycler.com

According to IBISWorld, the hazardous waste collection services industry has increased steadily over the last 5 years, growing at an annualized rate of 5.9 percent to \$3.8 billion. Likewise, the “Global Hazardous Waste Management Market” industry report predicts the industry is anticipated to grow at a healthy rate of more than 6.66 percent over the forecast period 2017 to 2025.

While most industry revenue is generated through commercial and industrial businesses, household hazardous waste disposal and handling is a growing segment of the industry. EPA categorizes household products that explode, react, catch fire or are toxic or corrosive as hazardous waste. As such, the increased focus on the illegal movement and disposal of hazardous waste – both from an industrial and consumer standpoint – will be a major trend for the next few years.

Jennifer Taylor, marketing manager at Solus Group, a material handling supplier to waste collection and recycling companies, said that hazardous waste creates a risk of environmental harm, but more importantly, potential injury to waste management workers collecting hazardous waste.

“Safety is always the first priority. Injuries at MRFs and landfills have actually been trending upward in the past couple of years, and that’s definitely a trend we need to reverse,” Taylor said.

The second big fear surrounding hazardous waste at landfills and MRFs is getting tangled up in EPA violations. As Taylor said, the Resource Conservation and Recovery Act (RCRA), established more than 42 years ago, declare that the waste generator is responsible from “cradle to grave.”

“This means that, if you end up with contaminated wastewater running out of barrels into a private landfill, it’s the responsibility of the company that generated that wastewater to clean it up, not the landfill operator,” Taylor said. “But in a MRF situation, the generator isn’t always clear. That can create a lot of anxiety, with haulers and operators worrying that they’ll get stuck with an EPA fine.”

“Oftentimes we see hazardous waste mixed in with non-hazardous waste in the regular trashcan, which can ultimately lead to serious issues.”

According to Wade Scheel, director of governmental affairs at Stericycle Environmental Solutions, one of the biggest risk concerns is making sure waste, specifically hazardous waste, is disposed of properly.

“Waste must be managed and disposed of properly as insufficient waste management poses health, safety and environmental risks for individuals and



Proper disposal of hazardous waste is important to health and safety as it generally ends up in landfills which can potentially cause environmental pollution and material recovery facility fires.

PHOTO BY SOUTH YORKSHIRE FIRE & RESCUE

communities,” Scheel said. “Outside of creating health and safety risks, improperly disposing of hazardous waste can lead to large fines. We’ve seen a recent increase of regulatory pressure, which has resulted in record fines for businesses that are improperly disposing waste.”

The EPA consistently evaluates and modifies the criteria established in the RCRA. Most recently, in February 2019 the EPA issued a final rule that created a new set of regulations for pharmaceuticals that are regulated as hazardous waste under the RCRA when discarded. This final rule imposes a new set of regulations on healthcare facilities and reverse distributors in lieu of the existing hazardous waste generator regulations.

As the EPA explained, these new regulations prohibit the disposal of hazardous waste pharmaceuticals down the drain and eliminate the dual regulation of RCRA hazardous waste pharmaceuticals that are also Drug Enforcement Administration (DEA) controlled substances. The rules also maintain the household waste exemption for pharmaceuticals collected during pharmaceutical take-back programs. The rules become effective on August 21, 2019.

Education Is Key

Along with making sure hazardous waste and regular waste isn’t mixed together, it’s vital to make sure hazardous waste is properly identified and separated to keep incompatible materials segregated, including aerosols and flammables, corrosive acidic and alkaline items, toxics, oxidizers, universal waste and reactives. This can ensure the safety and well-being of waste management workers.

“This is challenging because there are dozens of household items consumers just throw away,” Scheel says. “As industry leaders, we need to assist in helping making that shift and educating others on the dangers of throwing away hazardous waste. This is a long and grueling process.”

Stericycle is seeing more municipalities partake in hazardous waste collection “take back” days. Whether it’s a drug take back day or household hazardous waste take back day, more and more cities are hosting these events on a local level to help communities dispose of hazardous waste. They are also making a significant effort in educating consumers about the proper disposal of household hazardous waste.

See HAZARDOUS, Page B6

STEEL, CARDBOARD, COPPER, ALUMINUM... and TONS MORE!

MAREN
Balers & Shredders
Building customer loyalty since 1962.

THE REASON TO LOOK AT MAREN JUST GOT BIGGER!

The NEW wide-box ProPak 2R350 2-Ram baler delivers maximum performance and speed. Available up to 225hp. and boasting an 80" chamber box. ALSO new to the ProPak line-up are the 2R210, 2R265, and the 2R285.

Achieve Bigger Results...Bigger Bale Weights...Bigger Margins!

ProPAK 2R350
high capacity two ram baler

marenengineering.com
800-875-1038
sales@marenengineering.com

April adopted for Winning on Reducing Food Waste month

The U.S. Department of Agriculture (USDA), the U.S. Environmental Protection Agency (EPA), and the Food and Drug Administration (FDA) kicked off Winning on Reducing Food Waste Month by calling for greater collaboration with public, private and nonprofit partners as well as state and local officials to educate and engage consumers and stakeholders throughout the supply chain on the need to reduce food loss and waste.

In the U.S., more than one-third of all available food goes uneaten through loss or waste. Food is the single largest type of waste in daily trash. In recent years, great strides have been made to highlight and mitigate food loss and waste, but the work has just begun. When food is tossed aside, so too are opportunities for economic growth, healthier communities and environmental prosperity.

"The USDA alone cannot end food waste – it will require partners from across the supply chain working together on innovative solutions and consumer education. We need to feed our hungry

world and by reducing food waste, we can more wisely use the resources we have. I am pleased President Trump identified this issue as one of importance, and I look forward to USDA's continued work with our agency partners at EPA and FDA to change behavior in the long term on food waste," said U.S. Secretary of Agriculture Sonny Perdue.

"With 1 in 6 people getting a food-borne illness every year in the U.S. and up to 40 percent of food left uneaten, it's understandable why food safety and food waste are major societal concerns," said FDA deputy commissioner Frank Yiannas. "The FDA is working to strengthen its collaboration and coordination with the EPA and USDA to strategically align our federal efforts between the two issues to better educate Americans on how to reduce food waste and how it can be done safely."

As part of the month's observances, the EPA hosted a livestreamed event with USDA and FDA. Additional joint agency actions were announced at the event regarding the Winning on Reducing Food Waste Initiative.

Ten million gallons of renewable fuels from waste to be created

Clean Methane Systems LLC and EIP Ventures, LLC announced a joint venture named EcoRNG to develop more than 10 million gallons of renewable fuels from waste streams at landfills, waste water treatment facilities and dairies throughout Oregon.

EcoRNG's plan is to replace millions of gallons of diesel with renewable natural gas generated from existing waste streams. By capturing harmful waste gases and converting them into pipeline-quality renewable natural gas, EcoRNG will lessen dependence on fossil fuels, reduce emissions and demonstrate a productive use of waste stream bi-products.

Clean Methane Systems LLC and its acquired operations has provided technological solutions to the biogas industry for more than 20 years. EIP Ventures, LLC is a strategic advisor,

developer and asset manager of cutting edge, socially conscious water and renewable energy projects.

"This joint venture is an innovative solution that requires cooperation among regulators, consumers, utilities and producers," said Tim Robinson, president of Clean Methane Systems. "The collaboration will provide meaningful environmental and economic benefits to our region. We aim to produce better, healthier, and locally produced energy and fueling options."

The EcoRNG aggregation project in Oregon includes installing biogas upgrade and conditioning equipment at existing production facilities, converting the raw biogas into pipeline-quality RNG, transporting it to a central injection site and marketing the gas for use as environmentally friendly vehicle fuel.

#Trashtag Challenge inspires recycling and litter pickup

by LINDSAY BROWN

lindsay@americanrecycler.com

Last month a new viral challenge spread like wildfire across the internet. Like many other viral challenges, the aim was to raise awareness for a cause, but for this particular challenge the focus was on increasing recycling efforts and reducing pollution.

The goal for this challenge was for average people, especially teenagers who love viral challenges, to clean up areas of their community and post before and after pictures. These pictures showed both how many bags of trash were recovered from the area cleaned and the remarkable difference in how it looks.

Reports are mixed on just who started this challenge, some point to a specific post on Facebook from March 2019 that was quickly shared to other social media sites such as Instagram and Twitter.

Others note that it dates back to 2015 when outdoors gear company UCO launched the #trashtag initiative to inspire people to clean up pollution in nature.

Regardless of who started it, everyone involved is excited at the overwhelming response. Over 70,000 photos on Instagram have been tagged with #trashtag as of mid-April, with new posts being added across social media platforms every single day. These posts show people of all ages cleaning up their communities all across the world.



Byron Román shared the above photos on Facebook with the caption "Here is a new #challenge for all you bored teens. Take a photo of an area that needs some cleaning or maintenance and then take a photo after you have done something about it, and post it." He is credited with popularizing the #trashtag challenge.

NY DEC collects 320 pounds of waste pharmaceuticals

The New York State Department of Environmental Conservation (DEC) collected 320 lbs. of pharmaceutical medications during DEC's annual Long Island Pharmaceutical Take Back event. A total of 27 long-term healthcare facilities from Nassau and Suffolk counties participated in the program, which collects and responsibly destroys unused or expired pharmaceuticals. More than two tons of pharmaceuticals have been collected since the program began in 2014.

The DEC program is in its fifth year and is designed to reduce the number of pharmaceuticals that are flushed or unsafely disposed by facilities and may end up in Long Island's groundwater, bays, and estuaries. Pharmaceuticals have been detected at low levels in New York waterways and Long Island's shallow groundwater.

Twenty-seven facilities made up primarily of nursing, extended care and rehabilitation centers, participated in this year's collection. The unused stored medications were brought to the Covanta waste-to-energy plant in Huntington, which volunteered its services to incinerate the products.

In addition to collection events, DEC encourages New Yorkers to use medication collection box locations, which can be found by visiting DEC's

website and clicking on the NYS Medication Drop Box Locations map.

DEC launched its Pilot Pharmaceutical Take Back program in May 2018, and installed 250 medication collection boxes at retail pharmacies, hospitals, and long-term care facilities all across New York State. Since May 2018, DEC has collected and destroyed 15,229 lbs. of unwanted medications through the pilot program. DEC plans to install an additional 230 medication collection boxes under Phase 2 of the pilot program. Prior to these initiatives, many facilities flushed unwanted or waste drugs.

With technological advances in analytical techniques, it is now possible to detect very low levels of drugs in surface water and groundwater. Some drugs pass largely unaltered through wastewater treatment plants and enter rivers and other waterways. Flushed medications have been found in New York lakes, rivers, and streams, which can negatively affect the waterways.

A nationwide study conducted by the United States Geological Survey found low levels of drugs such as antibiotics, hormones, contraceptives, and steroids in 80 percent of rivers and streams tested. Medications adversely affect fish and other aquatic wildlife and increase the development of drug-resistant bacteria.

Call John Monaghan, CPA, CVA for your expert financial advice.

EXPERIENCED IN SOLID WASTE & RECYCLING BUSINESS VALUATIONS

What's Your Business Worth?



VZN Group, LLC

419-882-1886

www.vzncpa.com

- Accurate Business Valuation
- Financial Forecasting
- Consulting
- Tax Preparation & Planning

John Monaghan, CPA, CVA

Rubicon Global pilot program to enhance waste and recycling efforts in Texas

Rubicon Global, a technology company that powers a digital marketplace, provides a suite of products for waste, recycling and smart city solutions, and collects and analyzes data for businesses and governments worldwide, announced that the City of Irving, Texas selected Rubicon to provide a smart city pilot program to improve the residential waste and recycling services for its more than 240,000 residents.

Starting in April, the City of Irving will use the RUBICONSmartCity™ platform in a six month pilot program to enhance its waste and recycling offerings and outcomes, both in terms of sustainability and customer service, through the integration of technology.

The City of Irving has more than 40 collection vehicles that service approximately 42,000 locations, all of which will be a part of this pilot program.

Of paramount interest for the City of Irving during this pilot program is generating data for route optimization and management for its waste, recycling, and brush vehicles, as well as collecting data and documentation on the volume of material picked up for every route.

The RUBICONSmartCity platform includes a smartphone loaded with the Rubicon application, as well as an on-board computer plug-in device. Both have been placed in the City of Irving's collection vehicles.

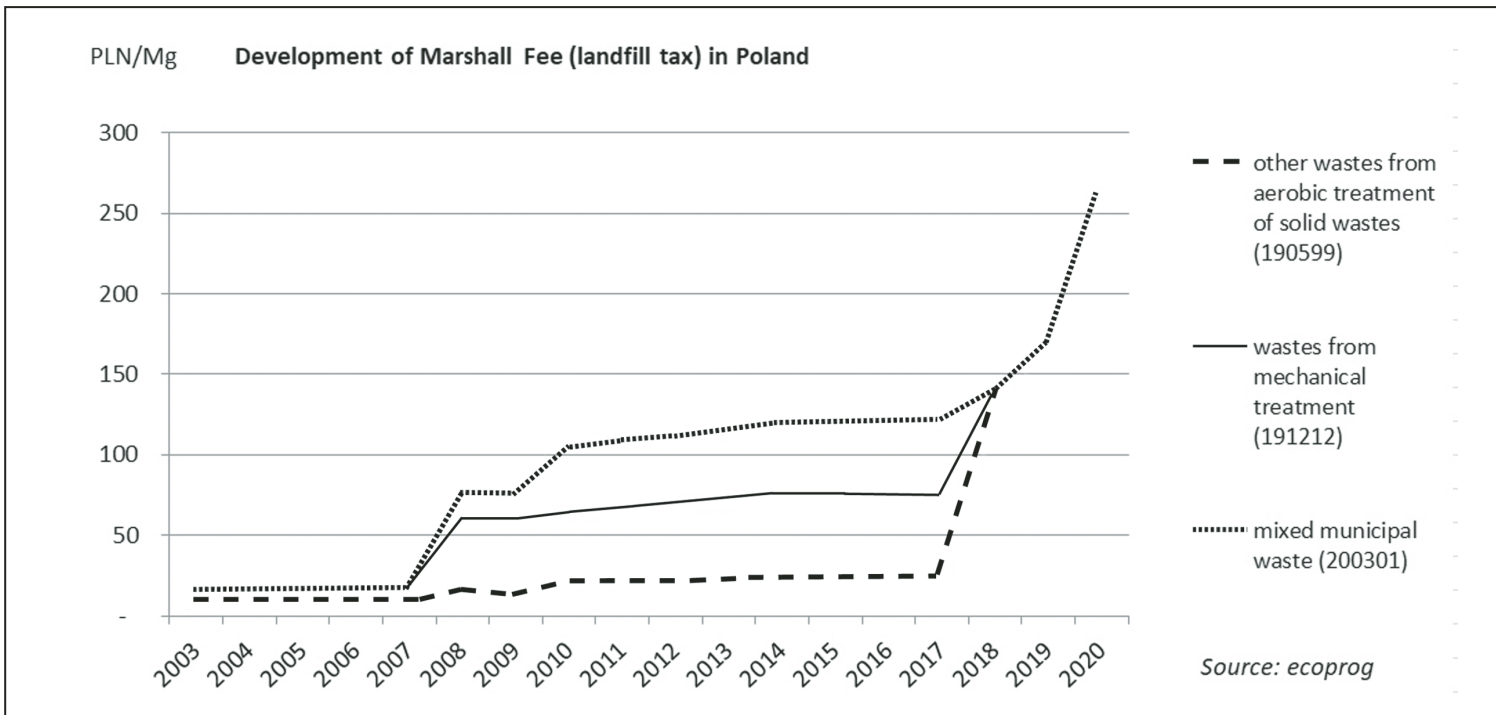
This technology will allow for the collection of real time service confirmations, provide GPS vehicle tracking, and enable documentation of any driver issues or the inability to successfully complete a pick-up.

The manager portal in RUBICON-SmartCity™ collects all of the data and analytics and provides to the city real time route updates, daily reporting, and operational insights.

"The City of Irving continually is looking to take advantage of technology and data that helps improve efficiency, maintenance and makes the city better for our residents," said Irving's solid waste service director, Brenda Haney. "We think this specific smart city solution from Rubicon Global could be a game changer for our fleet, and we look forward to exploring its impact and application throughout our system."

RUBICONSmartCity has been rolled out in more than 30 cities across the U.S., including Atlanta, Georgia; Columbus, Georgia; Fort Collins, Colorado; Montgomery, Alabama; Philadelphia, Pennsylvania; Santa Fe, New Mexico; Spokane, Washington; Tyler, Texas; and West Memphis, Arkansas.

Landfill tax causes changes to Polish market



The increasing landfill tax has caused a disposal bottleneck in the Polish waste management system. The most dramatic indication of this development was an increasing number of landfill fires in the past months. In the years to come, more than 3 billion EUR should be invested in over 600 waste infrastructure projects.

The Polish waste market is on the move. The immediate trigger of the current market distortion is the increase of the landfill tax. By 2020, the tax will amount to over 60 EUR per ton. This increase is accompanied by the abolishment of special rates for pretreated waste.

This hike mainly affects the around 170 mechanical-biological treatment plants (MBT plants) in Poland. In the residual waste segment, they reach a market share of about 90 percent, which translates into a treated amount of around 8 million tons of mixed MSW.

Most of the MBT plants' output continues to go to landfill. Between 2017 and 2020, the landfill tax for presorted waste will almost quadruple. In early 2019 already, disposal fees for pretreated MSW reached or even exceeded 100 EUR per ton at many locations – and prices can be expected to increase further until the beginning of 2020.

In order to reduce the landfilled amounts, considerable investments are planned to increase the material and energetic recovery as well as the organic treatment of waste. According to the plans of the 16 Polish voivodeships, between 2016 and the mid-2020s, way more than 3 billion EUR should be spent for over 600 waste infrastructure projects.

Almost 400 existing plants should be modernized. On the one hand, sorting plants and biological treatment units are envisaged to be expanded in order to be able to handle the increasing amounts of separately collected MSW. On the other, almost 140 treatment lines in existing MBT plants should be retrofitted (again, mainly for the growing separately collected MSW amounts). At the same time, the pretreatment of mixed waste should decline. The plans furthermore

include the construction of more than 130 new treatment units for material recovery and almost 80 new lines for composting and fermentation.

The highest investments, however, are planned in the thermal waste treatment segment. According to the waste plans of the voivodeships, 34 additional thermal treatment plants should be developed in the years to come. The far majority of these projects are power plants for the incineration of refuse-derived fuel (RDF). Even though we consider many of these projects to be unrealistic, as their envisaged dimensions are just too large, it is a fact that the currently high disposal costs are causing a planning boom for waste incineration projects.

Ecoprolog has analyzed the Polish MSW market in detail. Amongst others, they identified 2,100 plants and treatment units for MSW disposal and assessed sites, operators, capacities and throughputs. The new study "The Market for Municipal Waste Management in Poland" can be ordered at www.ecoprolog.com.

As a respected industry expert, ecoprolog accompanies clients from Germany and abroad in dealing with implementation oriented management issues with political, technical or economic backgrounds in the environmental and energy technology segments. Ecoprolog works in the fields of strategy consulting, market and competition analyses as well as multi-client studies.

DUST AND ODOR CONTROLLER



GAS, DIESEL & ELECTRIC MODELS

GET CONTROL (716) 592-2700 • BuffaloTurbine.com



EQUIPMENT SPOTLIGHT

Fleet management software

by MARY M. COX

maryc@americanrecycler.com

For a lean bottom line, it is crucial for waste disposal firms to properly coordinate the large number of collection stops that are required to serve their clients.

The client base at Alpine Technology Corporation ranges from small haulers with a single location and thousands of customers to large corporations that span multiple locations and hundreds of thousands of customers. Alpine's office solution, Visual RAMS-Pro (RAMS), is highly customizable and is the result of four decades of input and feedback from haulers all over the globe. RAMS seamlessly integrates with Alpine's in-cab computing system, Visual On-Route (VOR). "The waste industry is evolving and compliance requires more data – from drivers and routes, better reporting and real-time communication that many solutions cannot provide. Also, AlpineLive, our Cloud solution, allows our clients to access RAMS anytime, from anywhere. We know the industry and we know what our clients need. We want to help you do what you do best...run your business. Leave the software to us," suggested Steve Flemming, owner.



Alpine Technology Corp

He said that although Alpine was the first to introduce tablet use in trucks, the staff has worked the past 10 years perfecting and evolving VOR for residential, commercial, roll-off and cart delivery services. "We provide more affordable and accessible hardware with mobile applications. Route management and dispatch is made easier with extensive mapping features. VOR also integrates new industry-changing technologies like Optical Character Recognition, integrated video capture and playback, route optimization algorithms, and extensive Google mapping tools. Having VOR is

like having an assistant in the truck with your drivers. With a single tap of a finger, drivers can record extras, track content, take a picture, record recycling contamination, generate a work order, and more," Flemming said.

He also noted that Alpine has served the solid waste industry for over 40 years with practical, affordable and integrated software for both the office and trucks. In addition to the U.S., Alpine serves clients in Australia/New Zealand, the United Kingdom, Guam, Hawaii, Canada and Western Europe.

Routeware claims to offer the safest option in the market. They've had decades of success with their software, providing assistance that allows users to operate on time, in a short time and on the first trip. Their product interfaces with AMCS Tower, Soft-Pak, Trux, Encore and more. Using only industrial grade devices that are thoroughly tested to withstand shock, moisture and dust – thousands of models have been sold over the years to municipalities and waste haulers. The software has been designed to be intuitive; thanks to the knowledge Routeware software developers have gained in learning about the unique conditions that various types of users may encounter. An entry-level, tracking-only product is available for clients that aren't in the market for a tablet option. Solutions are available for every budget and for Windows or Android, thick and thin 8 or 10" tablets, Routeware or self-hosted, subscription or up-front fees, tablet or for a simple tracking device. Support capabilities cover client computers, mounts, cradles, cellular service, RFID readers, cables, on-board software, back-office software and more so that users only need to make one call when issues arise, not several.

Zonar's Ground Traffic Control® (GTC) paired with its V4ä telematics control unit provides a real-time picture of fleet operations including mapping every turn of the key, every stop and start, and all activity while measuring driver performance, such as speed, path, safety and idling. In addition to the base telematics offered, Zonar also can help fleets automate and streamline inspections,



Routeware

help drivers track and even prevent bad behavior and help any manager ensure the safety and compliance of their fleets.

The firm's patented Electronic Verified Inspection Reporting (EVIR®) system uses a unique and first-of-its-kind approach to verify the collection and transmission of compliance and maintenance data—which used to involve an analog method—an often tedious process. Fleets using EVIR are able to reduce the processing time for inspections by more than 50 percent. This helps to ensure vehicles stay on the road and are repaired before issues arise. "Busy and congested streets can be dangerous for even the most alert operators but with Zonar Coach™ drivers have another set of 'eyes' watching the road. Coach provides real-time, audio violations and video capture, so drivers can correct their behavior immediately and even protect their safe driving records while behind the wheel. Managers can also use Coach to reward good behavior," explained Gary Schmidt, vice president, business solutions.

Although new technology often takes time to implement and set up on each vehicle, Zonar's round-the-clock customer service and support team helps with set up and regular maintenance. "It can be challenging to train staff in the correct usage. However, we can help any user within an organization to understand how Coach, EVIR, or any of our other products function. We can also help ensure that businesses using these tools increase the overall safety and efficiency of their fleets," Schmidt said.

He concluded with "More organizations are being asked to do more, with less – fewer operators, vehicles, and even



Zonar Systems

budgets—alongside updated safety regulations and compliance guidelines. Zonar design solutions like EVIR and Coach increase the accuracy of data captured, automates time-consuming tasks like pre- and post-trip inspections and ensures that operators practice good driving behavior. The added benefit of information gathered from EVIR and Coach is the ability for managers to identify trends around vehicle defects, driver behavior, and other issues—to quickly address and even prevent them from becoming crises."

MANUFACTURERS

Alpine Technology Corp
Steve Flemming
888-852-7267
www.rams-pro.com

Fleetmind Solutions, Inc.
Randall Suter
888-639-1666
www.fleetmind.com

Paradigm Software
Trevor Mann
410-329-1300
www.paradigmsoftware.com

Routeware
Lisa Seitz
503-906-8500
www.routeware.com

Trux Route Management Systems, Inc.
David Ische
519-658-4322
www.trux.com

Zonar Systems
Gary Schmidt
877-843-3847
www.zonarsystems.com

DADE
Auctions

REGISTER ONLINE TODAY FOR A CHANCE TO WIN!

www.DadeAuctions.com

FINANCING AVAILABLE FOR AUCTION LISTINGS

844-222-2020

Biodigester allows food distributor to compost food waste into environmentally safe waste water

Jersey Lynne Farms, a family-owned wholesale food distributor in the Canarsie section of Brooklyn, carries 1,500 to 1,800 items, including milk, eggs, butter, frozen foods and other perishables. Delivering to independent supermarkets and mom-and-pop grocery stores and bodegas, Jersey Lynne serves diversified customers including Spanish, Russian, Middle Eastern, Asian and Caribbean groceries. The company delivers six days a week, sending out six trucks daily and three on Saturdays throughout New York City's five boroughs, as well as Nassau and Suffolk Counties on Long Island.

In 2017, New York City began enforcing stringent new commercial recycling laws as part of the city's "Zero Waste Design Guidelines," an ambitious plan to send zero waste to landfills by 2030. Jersey Lynne Farms was faced with a challenge.

"All food and organic products have to be handled separately and no longer mixed in with the garbage," explains Michael Loconte, president of Jersey Lynne Farms and son of its founder, Vito Loconte. "Given that we have a lot of perishable items, we needed to find a way to dispose of them according to the law. We looked into it with our trash haulers, but the fee to pick up the perishables twice a week was too high. We wanted another solution.

Designed and manufactured by Power Knot LLC, San Jose, California, the LFC-200 operating at Jersey Lynne is a fully enclosed automatic biodigester, decomposing 440 to 800 lbs. of food waste into

environmentally safe 'grey water' in 24 hours with no noise or odor.

When organic food waste is buried in landfills, it decomposes anaerobically, producing methane, which is 84 times worse for the atmosphere than carbon dioxide according to the Intergovernmental Panel on Climate Change.

To prevent the problem, New York City's latest commercial recycling regulations require certain businesses to separate organic waste from other refuse. Included are food wholesalers having a floor area of more than 20,000 sq.ft.. They must separate organic waste and have it transported to a landfill by a private carter, or process the material on site.

With nearly 57,000 sq.ft. of warehouse space, Loconte needed a solution, opting for a model LFC-200 biodigester.

"There are no extra steps to using the biodigester," said Loconte. The waste can be added at any time to the top loading, U-shaped drum. A horizontal agitator slowly rotates every 20 minutes to mix the newly-added and previously-added food waste with air, Powerzyme™ enzymes and automatic infusions of cold and hot water.

Powerchips™ porous plastic chips, which remain in the drum and occupy approximately one-third of its volume, serve to both contain and distribute enzymes and microbes throughout the solid food waste, creating a large surface area that accelerates the decomposition process.

The aerobic, exothermic process produces water, CO₂, and heats to 108°F, further accelerating bio-digestion. The CO₂



The LFC-200 biodigester in Jersey Lynne Farms' Brooklyn distribution warehouse is compact, quiet and odorless during continuous operation.

created is part of the natural cycle of carbon generation from plants, which makes the process carbon neutral. Environmentally-safe grey water drains through a screen at the bottom of the vessel and into a standard municipal sewer line.

During its first year, the LFC biodigester processed 17,420 lbs. of solid food waste for Jersey Lynne, and reduced the wholesaler's carbon footprint by 6.3 tons of CO₂.

LET'S BUILD

YOUR IDEAL STRUCTURE



Sourcewell
Formerly NJPA

Awarded Contract

Contract # 030117-CSS



To find out how we can help with your structure needs visit or call
www.clearspan.com 1.866.643.1010

FOR NEARLY 40 YEARS CLEARSPAN

has been helping companies maximize profits with superior building solutions



Energy
Efficient



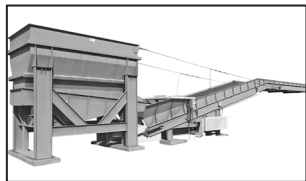
Superior
Warranties



Expert
Project Managers

No Money Down Financing, Terms Up To 7 Yrs and As Low As 5.99% on buildings

NEW PRODUCT SHOWCASE



BPS CONTAINER LOADING SYSTEM QUICK AND EFFICIENT

The BPS Container Loading System is engineered to load 20-ft. and 40-ft. shipping containers quickly and efficiently for the export of ferrous and nonferrous metals. The three major components of this system are the vibratory hopper feeder, loading belt conveyor and system controls.

The surge hopper is constructed of 1/2" plate and has a holding capacity of 15 cubic yards. The heavy-duty cantilevered belt conveyor has a speed of 500 to 1000 FPM to allow for more material to stack up in the container. The BPS container loading system also comes with a complete system control package.

Best Process Solutions
1071 Industrial Parkway
Brunswick, Ohio 44212
330-220-1440
www.bpsvibes.com



ELDAN SUPER CHOPPER REDUCES THE POWER USE BY 50 PERCENT

For 20+ years the Eldan Super Chopper has been the first choice for a heavy-duty pre-chopper in any recycling process. It can be used for pre-chopping of most materials e.g. tires without de-beading, cables and electrical waste, aluminum, municipal solid waste, plastics and industrial waste.

The new Eldan Super Chopper Frequency Drive has the strength, capacity and the function as the hydraulic version, but will also reduce the power consumed by up to 50-60 percent. The Eldan Super Chopper is now available with frequency and hydraulic drive, as a single and twin rotor and as a heavy duty version.

Eldan Recycling
6311 Inducon Corporate Drive, Unit 14
Sanborn, NY 14132
716-731-4900
www.eldan-recycling.com



MORBARK LAUNCHES VERSATILE RAYCO T415 FORESTRY MACHINE

The powerful and versatile Rayco T415 Forestry Machine is perfect multiple industries as the T415 allows customers to change between a Predator forestry mower/mulcher head and a Hydra Stumper stump cutter attachment for optimal versatility.

Powered by a 415-HP CAT C9.3B Diesel Tier 4 Final engine, the closed-loop hydrostatic system powers the mulcher or cutter head, sending 140 gallons per minute to the attachment's drive motor. The hydraulic output is power optimized to match the engine's power curve, keeping the mulcher/stumper RPM constant even under load for a finer mulched product with fewer passes.

Morbark, LLC
8507 S. Winn Road
P.O. Box 1000
Winn, Michigan 48896
800-831-0042
www.morbark.com



PHIL PUSH BLOCK DISLODGES OFF-HIGHWAY TRUCKS

Philippi-Hagenbuch Inc., a global leader in off-highway truck customization, introduces the Push Block for articulated and rigid-frame trucks. PHIL engineered the Push Block to integrate with the rear chassis on off-highway trucks ranging from 20 to 400 tons.

The optimal positioning of the Push Block allows operators a safe and engineered "push point" to dislodge trucks from areas with poor ground conditions without damaging the truck body or pushing equipment.

The Push Block provides a stable assembly that transfers rear pushing force directly to the truck's frame, preventing damage.

Philippi-Hagenbuch
7424 W. Plank Road
Peoria, IL 61604
309-697-9200
www.philsystems.com



SIERRA INTRODUCES PORTABLE TWO-RAM BALER

Utilizing Sierra's expertise and experience with portable machines and two-ram balers, the REB-X Press two-ram baler is easily transportable while maintaining a heavy duty construction, remarkable performance, and the ability to process a variety of material.

This portable two-ram baler is highly adaptable and is the ideal machine for various applications: multiple facilities that need a baler to use on a rotational basis or during maintenance shutdowns, demolition projects, disaster cleanup, landfill projects, and rural locations.

Sierra International
1620 East Brundage Lane
Bakersfield, CA 93307
800-343-8503
www.sierraintl.com

New dust control enforcement action against Dunn Landfill

The New York State Department of Environmental Conservation (DEC) Commissioner Basil Seggos announced that DEC is initiating new enforcement actions against SA Dunn & Company to immediately address blowing sand from this facility, including possible penalties for any violations found during the agency's ongoing investigation of facility operations in the city of Rensselaer.

"DEC will not tolerate these latest violations at the Dunn Landfill," said commissioner Seggos. "We are committed to upholding our responsibility to ensure landfill operations like Dunn are not negatively impacting surrounding communities and DEC will continue to take rigorous enforcement against this facility or any facility that violates our stringent permit requirements."

On April 3, DEC responded to reports of blowing dust around the Dunn Landfill to investigate the nature and extent of the dust. DEC will take aggressive actions to hold the facility accountable for these violations and is directing

Dunn operators to immediately hydroseed the sand piles at the facility to ensure dust is contained on site.

DEC recently directed the Dunn Landfill to improve operations and reduce odors at the facility. These comprehensive actions included new gas collection and cover system requirements and enhanced odor monitoring to reduce impacts to the community. DEC is deploying four H2S monitors to strategic locations to provide enhanced monitoring of odors at the landfill site. The monitors are being placed at the perimeter of the landfill property to determine whether and when the landfill is emitting excessive levels of hydrogen sulfide. The devices will sample and record hydrogen sulfide data every 10 minutes around the clock, and DEC will regularly review the data and take any necessary actions to address any violations found.

DEC will continue to monitor landfill operations to ensure the community and the environment are protected.

Hazardous

■Continued from Page B1

"Not only do these take back days provide an outlet for consumers and businesses, the program also raises general awareness about hazardous waste and how it can't be mixed with normal waste," Scheel said. "Smaller businesses can rely on these days to dispose of hazardous waste, where larger companies should consider hiring a third party to help manage all hazardous waste."

Taylor stressed that the big shift in handling hazardous household waste comes from social media and online information educating residents on what can and can't go down the drain or into the landfill.

"Take car batteries, for instance," Taylor said. "Nearly 99 percent of all lead acid batteries are recycled in the U.S. these days. That wouldn't be possible without awareness campaigns. Especially in the case of electronics, we need to make sure everyone knows that recycling is an option. We need electronics recyclers out front and center, letting residents know where they can drop off their old devices. Too many electronics end up in landfills. How to do that? Meet people where they are. Spread social media campaigns far and wide. Team up with local environmental groups. They love getting the word about recycling out there."

Scheel is seeing more companies finding innovative ways for recycling electronics including TVs, computers, clocks, phones and more, is one of the fastest growing segments in U.S. hazardous waste streams.

"The innovations in e-waste will not only make it more cost effective for businesses and consumers, it will also help eliminate the need to send this type of waste overseas for processing," Scheel said.

Areas of Improvement

One area of consumer education that could be improved upon, especially with the help of waste management companies, is with "point of sale" advertising at local household hazardous waste drop off programs.

"During these types of events, it'd be beneficial to provide more examples of the health and safety risks of household products," Scheel said. Something as simple as throwing away lithium batteries could result in a dumpster truck or landfill fire. Waste workers can also be injured by exposure to splashes and spills from cleaning products, which typically have harsh chemicals. "As more and more consumers using smart phones or other electronic devices to consume information, using a digital or mobile marketing technique would be best when communicating these types of local collection events," he continued.

Scheel predicts that the waste and recycling industry will start seeing more waste-to-energy initiatives in the future, along with an overall reduction of hazardous waste streams. In fact, hazardous waste collection has changed significantly in just the last five years alone.

"More organizations are taking an active approach in eliminating their waste streams and finding alternative solutions," Scheel said. "We can expect to see more waste-to-energy plants in the future as well, which are a great alternative to just burying waste in landfills."

The industry also is putting effort in changing the chemical ingredients of consumer products, moving toward less hazardous components and more "natural" ingredients.

"On a waste collection front, we are seeing the industry move toward more sustainable options," Scheel said. "This includes recycling and recovering usable products and working them back into the product mix. This will help eliminate the potential for environmental, health and safety risks."

Brooklyn holds food waste fair

The NYC Department of Sanitation's Foundation for New York's Strongest will hold the 2019 Food Waste Fair on May 23, 2019.

The fair is an interactive experience connecting food, beverage and hospitality professionals with the resources and education they need to reach zero food waste in their businesses. Tickets for the Fair, to be held at the Brooklyn Navy Yard, are being sold at foodwastefair.nyc.

Food related organizations send more than 650,000 tons of usable food to landfills each year. Instead, that food could be used to feed people or animals, nourish soil, grow healthy food or create energy.

The 2019 Food Waste Fair will provide businesses with hands on workshops, skills training and access to resources that not only lead to more sustainable operations, but also save the business money when less food goes to waste.

"With hands on workshops and skills training for chefs and industry professionals, food waste solution exhibitors and experts helping address those 'How do I?' questions – we'll make it easy for businesses to save money and embrace sustainable operations," said the incoming executive director of the Foundation for New York's Strongest, Julie Raskin.

The Fair is open to anyone interested in reducing food waste, such as chefs, grocery store owners, street vendors, restaurant and fast food operators, manufacturers, wholesalers and building and custodial management.

"A growing number of New York City businesses are required by law to separate their organic waste – and we are committed to supporting these businesses with the resources they need to be successful," said Bridget Anderson, deputy commissioner for recycling and sustainability at the New York City Department of Sanitation. "The Food Waste Fair will highlight solutions to prevent and reduce food waste before it even begins, including the newly launched donateNYC Food Portal,

which facilitates efficient, hyper-local food donations between organizations that can use or redistribute excess food."

The Fair will also give participants the opportunity to attend offsite workshops that will provide attendees with an immersive experience in a hands on format.

Scheduled workshops include:

- A two day course for chefs, including site visits to food suppliers and processors, and hands on cooking demonstrations featuring overlooked or often discarded ingredients.

- A two part course for operations professionals, including site visits to food establishments to see best practices for food waste prevention and reduction in action, and the opportunity to participate in a mini food waste audit.

- A course for home cooks going beyond the usual carrot top pesto to assess the home kitchen for opportunities to minimize waste and save money.

This year, the fair will highlight pioneering food solution providers in the Innovation Corner sponsored by Closed Loop Partners. The selected companies include: Atlas Organics, Cambridge Crops, Farmshef, Misfits Market, Natural Machines, and YourLocal.

In addition, more than 50 exhibitors will highlight their food waste prevention and recovery solutions, including donation services, inventory management, waste auditing, hauling, on-site processing and digestion, compostable products, animal feed solutions, food-from-scrap products and catering, among others.

"Common Ground Compost understands recycling anxiety – there are inconsistencies in recycling rules across the U.S., and not everyone may know what goes where," said Meredith Danberg-Ficarelli, director at Common Ground Compost. "We want to make recycling easy and effortless. We are excited to partner with the organizers of the 2019 Food Waste Fair to ensure all the waste from the event is properly recycled and that attendees are educated on proper separation."

SEAT launches project to turn organic waste into biofuel

There are vehicles powered with petrol, electricity and gas. Now there is a new way to drive engines, and it begins with household rubbish. This is the aim of the Life Methamorphosis project – to achieve bio methane from organic waste, and turn it into renewable gas. Following are the steps necessary to achieve this.

Recycling. Each inhabitant of the city of Barcelona, Spain generates about 1.5 kilos of waste daily, totaling 2.5 million kilos of rubbish every day of which only 40 percent is recycled. "With all the organic waste that is generated we can produce enough bio methane to power 10,000 cars to travel around 15,000 kilometers every year," said Andrew Shepherd, the SEAT engineer who heads the Methamorphosis project. Of all the rubbish collected at the Ecoparc 2 in Barcelona, bio methane is produced using organic waste.

Transforming. The transformation process begins once all the organic waste is selected onsite at the Ecoparc and fed into 26 meter tall anaerobic digesters. As there is no oxygen in the digesters, a decomposition process begins, which generates gases. About 30 days later, biogas with 65 percent methane is produced.

Refining and Compressing. At this point, the mixture contains methane and carbon dioxide, but it requires refining to obtain a high enough quality for cars. Shepherd points out that "one of the greatest efforts we are making with our project is to ensure that the gas is of the



With all the organic waste that is generated, enough bio methane is produced to power 10,000 cars to travel around 15,000 kilometers every year.

highest quality." Following this refining stage, the gas is compressed and stored.

Refueling. The bio methane is now ready for use in any gas powered vehicle. Refueling at the project's gas station takes less than three minutes. "This bio methane can be injected into the gas supply network. They have the same chemical composition, so it can be used directly or mixed with conventional gas," said Shepherd.

Driving Off. If all the biogas at the Ecoparc 2 were refined into bio methane, 3,750 SEAT Leon cars could drive around the world every year.

"We're tackling very important issues today with this renewable gas, such as contributing to the circular economy, and reducing waste and greenhouse gases, as its production and use generates 80 percent fewer CO2 emissions than petrol," concludes Shepherd.

There are currently two models of cars being tested. The three SEAT Leon and one Arona are working with this bio methane to test its effect on their engines after being driven a minimum of 30,000 kilometers each.

AR EQUIPMENT SPOTLIGHT

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

To be listed in the appropriate spotlight, please call 877-777-0043.

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

UPCOMING TOPICS

- JUN Magnets
- JUL Concrete Crushers
- AUG Primary Reduction
- SEP Shears & Shredders

"I get more calls than EVER before."

"It's so easy - I wish I had called before."

REACH
YOUR
TARGET
AUDIENCE

"The ad results REALLY surprised me!"

"Sales are UP!"

American
Recycler

877-777-0737 • AmericanRecycler.com

Launch Giveaway



Register at www.DADEAuctions.com before June 30th, 2019 for a chance to win:



\$1,000 Amazon Gift Card



\$500 Amazon Gift Card



\$250 Amazon Gift Card

The drawing will take place in the first week of July 2019. Winners will be announced in *American Recycler News* and on www.DADEAuctions.com!

See our website for the terms and conditions.



Granutech Saturn 62 x 40 Tire Shredder
300 HP motor. Includes conveyance!



Mosley Portable Tin Baler
24" x 32" bales. 40 HP motor.



Eagle Stationary Tire Debeader
Light truck and passenger tires.



Williams 60 x104 Mill and Rotor
Includes a spare rotor!



2016 Wolverine Tire Debeader
New! Never used!



Granutech Saturn M-50 Shredder
200 HP motor. Includes conveyance!

www.DADEAuctions.com 844-222-2020