



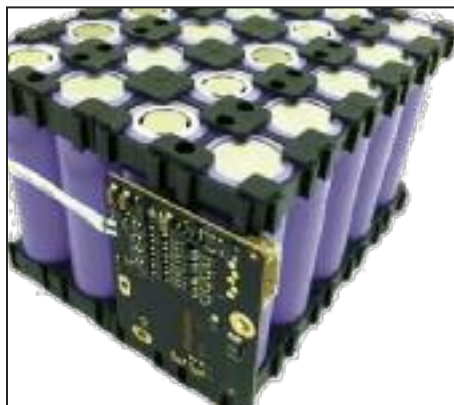
American Recycler

NewsVoice of Salvage, Waste and Recycling

AmericanRecycler.com

FOCUS: Metals

Precious metal recycling market is uncertain



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Waste-to-energy initiatives expand

by MAURA KELLER

mkeller@americanrecycler.com

Ask any waste and recycling industry professional what route should be taken to reduce the carbon footprint of the waste industry, and the majority will respond “to reduce, reuse and recycle.” Indeed, recycling ensures that our waste is used to its fullest potential. As David Unger, senior vice president, of Fortistar, explained, recyclable materials should not go into landfills, as their greatest economic value is in reprocessing for further use. But as landfills continue to be utilized to the fullest extent, more and more attention is being paid to enhancing biogas programs in various ways.

“The biogas industry works in tandem with recycling companies and organizations to maximize the beneficial use of waste by ensuring that non-recyclables are safely used to harvest methane,” Unger said. Additionally, landfill biogas, or RNG, is a low carbon renewable energy source that is decarbonizing both transportation and power generation, the top contributors to greenhouse gas emissions in the U.S.

Since 1979, landfills have been required to prevent contamination to the surrounding environment, with the largest landfills required to install gas collection and monitoring equipment. According to Unger, initially, landfill gas (LFG) was only lightly processed to be used in thermal applications like boilers or kilns, but today, over 70 percent of the 565 operational LFG projects in the U.S. use high-quality, processed LFG to generate green, renewable electricity.

“Yet because electricity generation is only 30 to 40 percent efficient, the fastest growing and newest sector in LFG use has been renewable natural gas (RNG),” Unger said. “Once processed to increase its methane content and reduce its carbon dioxide con-



Renewable natural gas from landfills can be compressed directly into natural gas pipelines or used locally in any traditional application.

tent, LFG can be upgraded to RNG and used as a direct replacement for fossil natural gas.” RNG can then be compressed directly into natural gas pipelines or used locally in any traditional CNG or LNG application.

“Whether used for electricity or RNG, LFG is a growing manifestation of the circular economy that we are all seeking to transition to in the coming decades,” Unger said.

Devin Walker, chief executive officer and co-founder of T2C-Energy, LLC, a University of South Florida spinout company that converts landfill waste to renewable transportation fuel, agreed that over the past two decades, the use of waste as an energy resource has gained a significant amount of interest. This was in part motivated by environmental regulations on landfills to capture and mitigate the biogas produced by the natural degradation of waste.

“These early efforts to mitigate the environmental impact of biogas prima-

rily involved the burning or flaring of the gas to convert the gases with higher greenhouse gas impact to less harmful species like carbon dioxide,” Walker said. “On the heels of these initial mitigation efforts, projects began to shift from solely mitigating the biogas to utilizing the biogas as a renewable energy resource.”

As Walker explained, in the early 2000s, as government programs to incentivize the use of renewable energy became more prevalent, the dominant technology in use was the conversion of biogas to electricity using gas generators. Also around this time efforts to decarbonize the transport sector began to receive significant interest with the development of biofuels and introduction of the EPA’s renewable fuel standard.

“Around 2010 a shift from electricity production to creation of transport fuels became more apparent and projects to produce renewable natural gas became more prominent. See WASTE-TO-ENERGY INITIATIVES, Page A4



Building complex of a modern waste-to-energy facility in Oberhausen, Germany where a higher concentration of facilities is seen in space restricted countries.

PHOTO BY STEPHAN PIETZKO | DREAMSTIME

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Pandemic concerns prompt recycling wake-up call

Republic Services released a survey highlighting how the COVID-19 pandemic has acted as a wake-up call for consumers to live a more sustainable life. Among the eye-opening results, 6 in 10 Americans reported they are worried about the future of the environment – and the pandemic is also helping them change their eco-friendly habits.

Conducted by OnePoll on behalf of Republic Services, the survey of 2,250 Americans – split evenly, geographically between nine major cities – revealed that 58 percent of respondents are reevaluating their eco-friendly habits as a result of the pandemic. About 65 percent said the pandemic has acted as a wake-up call for them to make sustainable choices, especially as they relate to recycling.

That said, while 75 percent of respondents recognized the importance of recycling, they don't always do it. About 52 percent said they recycle most of the time – the biggest barrier was simply a lack of space in their home for an extra bin (30 percent). That was followed by a lack of understanding of what can and can't be recycled (26 percent) and a belief that their recycling isn't actually recycled (24 percent).

Survey respondents identified five eco-friendly changes they've made since the pandemic started:

- Becoming more aware of their impact on their environment (44 percent)
- Being more careful to purchase eco-friendly products (43 percent)
- Working to waste less (41 percent)
- Taking more time to sort their recyclables (30 percent)
- Composting more (26 percent)

"These survey results reinforce that Americans can and want to be better recyclers," said Pete Keller, vice president of sustainability and recycling. "In the face of a pandemic, Americans are rightfully thinking about the steps they can take to be less wasteful. Today more than ever, we have a critical need for recycled cardboard, paper, rigid plastic containers, aluminum and tin for manufacturing and the supply chain in the face of COVID-19."

To help consumers improve their recycling habits, Republic Services created the Recycling Simplified education campaign, which provides an array of tips and resources, including at-home and school-based lesson plans for pre-kindergarten through 12th-grade students.

Keep America Beautiful encourages better practices

Individual recycling action and behavior were themes of this year's America Recycles Day, a Keep America Beautiful® national program and the only nationally-recognized day dedicated to promoting and celebrating recycling in the U.S.

In its 23rd year, America Recycles Day (ARD), educates people about the importance of recycling to our economy and environmental well-being and helps to motivate occasional recyclers to become everyday recyclers.

Focused on individual impact, Keep America Beautiful urges people to pledge to reduce, reuse, repurpose and recycle in every aspect of their life by taking the #BeRecycled Pledge. The pledge is a promise to learn about local recycling regulations; to recycle consistently and correctly; to reduce personal waste; and to buy products made from recycled content. Participants are encouraged to help spread the word by educating and encouraging friends, family, and neighbors to recycle in

their community and to integrate the act of recycling and buying recycled content throughout their daily routines.

Keep America Beautiful and Keep Texas Beautiful have recognized Joint Base San Antonio (JBSA) with the second annual America Recycles Day Recycling Hero Award, which honors groups or individuals who have made a significant contribution to the promotion or implementation of recycling programs. Joint Base San Antonio was selected for its Qualified Recycling Program which has been recognized as one of the best recycling programs in the Department of Defense and is known for its longevity and innovative approach for hard-to-recycle materials, materials reuse, and unique collection and processing ideas.

Sponsors of this year's America Recycles Day included Title Sponsor Cox Enterprises, as well as International Bottled Water Association (IBWA) and Michelob ULTRA.

Domestic recycling data updated by EPA

The U.S. Environmental Protection Agency (EPA) released an update to a report highlighting the economic benefits of recycling. By converting waste materials into valuable raw materials, recycling creates jobs, builds more competitive manufacturing industries, and significantly contributes to the U.S. economy.

"The environmental and economic benefits from recycling are clear, and we've made a lot of progress, but much more needs to be done to get our national recycling rate where it needs to be," said EPA administration Andrew Wheeler. "Our America Recycles Network partnerships will usher in dramatic changes in U.S. recycling by improving aging infrastructure, developing secondary markets, and communicating recycling methods more effectively with the public."

EPA released the most recent Advancing Sustainable Materials Management: Facts and Figures data on national municipal solid waste (MSW) and construction and demolition debris for the year 2018. The agency began analyzing data on waste and materials

recycling more than three decades ago, and EPA has data tables that go back to the 1960s. The combined recycling and composting rate increased from less than 10 percent of generated MSW (trash) in 1980 to 35 percent in 2017, but then dipped to 32 percent, as measured in 2018. Specifically, in 2018, 292.4 million tons of MSW were generated. About 93.9 million tons of MSW were recycled and composted, resulting in a 32 percent recycling rate. An additional 17.7 million tons were managed through other food management pathways.

For the Facts and Figures data, EPA enhanced its food measurement methodology to more fully account for all the ways in which wasted food is managed throughout the food system. Finally, EPA added construction and demolition debris management data, so both generation and management of construction and demolition debris are included.

For a direct link to additional information, view this article on www.AmericanRecycler.com.

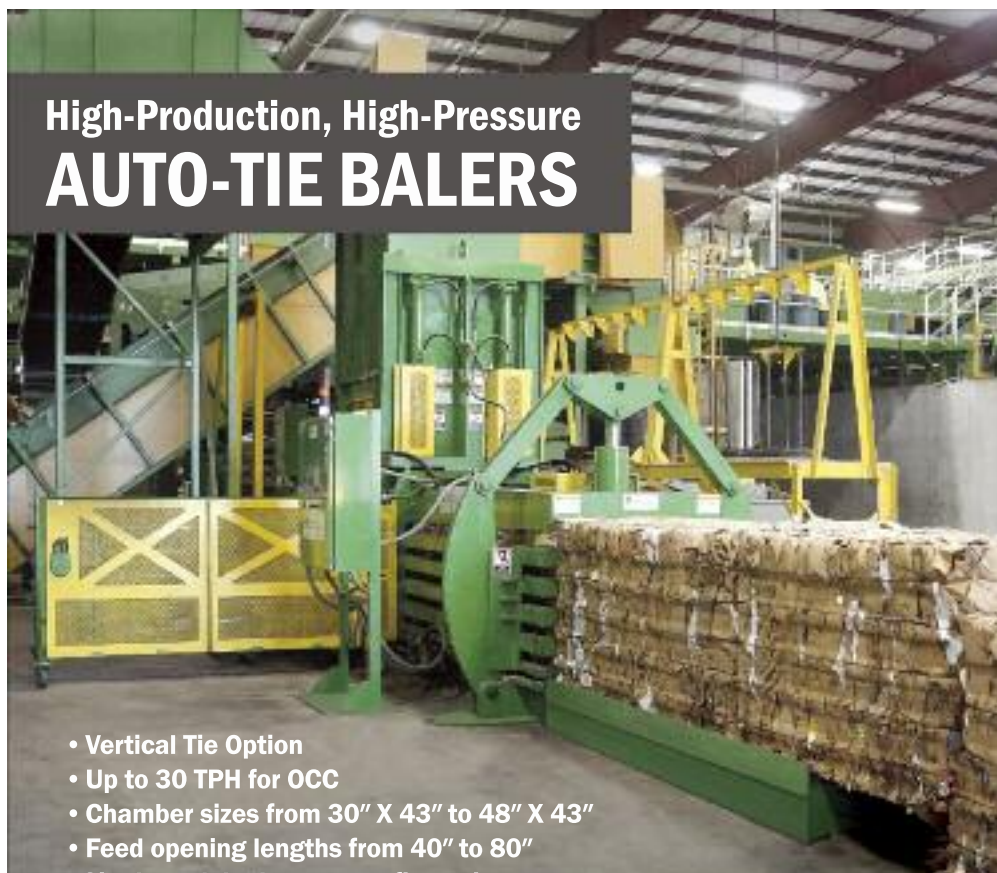
KAR completes acquisition of BacklotCars

KAR Auction Services, Inc., dba KAR Global has completed the acquisition of BacklotCars, Inc.


In recent months, KAR has evolved to a 100 percent digital model, and the addition of BacklotCars further advances the company's digital trans-

formation strategy. BacklotCars' customers will see benefits from their network of facilities where the company has invested heavily to streamline and digitize its storage, inspection, remarketing and reconditioning operations.

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Waste-to-energy initiatives

gas (RNG) or biomethane started popping up in the waste industry," Walker said. "This has now become the trend in waste-to-energy projects as more projects are shifting from electricity production to RNG production." Recently the production of advanced biofuels as "drop-in" replacements to petroleum derived fuels is receiving more interest in the waste industry as it offers a seamless transition to our current infrastructure in its distribution and use.

With support from the U.S. Department of Energy, the Florida high Tech Corridor Council and others, T2C-Energy has developed a biogas to diesel fuel technology that offers a new option for waste sites to produce a fuel that is readily used on-site and compatible with current engines. This minimizes any impacts to current operations and provides a cost competitive option to replace petroleum derived diesel with a renewable waste derived fuel.

Embracing Challenges

Larry Burton, chief executive officer of Temarry Recycling, said his company is not part of the biogas byproduct solution. Rather, Temarry Recycling utilizes waste-to-energy technology to prevent industrial waste from going to landfill.

"We accept organic solids such as rags, wipes and debris that are contaminated with solvents," Burton said. "This type of waste includes non-RCRA regulated debris such as oily rags. Waste-to-energy combusts the waste at 1500°F to create energy in the form of steam.

"The steam is used on site to operate solvent recovery stills and autoclaves for biohazardous waste," Burton said. "Recovery stills produce a wash solvent product that is sold back into industry to continue the life-cycle for its original purpose."

Walker said the biggest challenge in the waste-to-energy industry is the ability to remain economically attractive at the biogas production capacities

seen in the waste industry. "The waste industry is largely decentralized with sites spread out over large geographic areas creating a decentralized network of waste sites," Walker said. "This creates an economy of scale issue that limits the size of waste-to-energy projects making them dependent on environmental subsidies to be profitable, which in turn is an unattractive long-term business plan to most financiers."

In addition, as more concerns are raised over landfill physical footprints, efforts to reduce the amount of waste landfilled and recycle programs become more important. As Walker explained, the waste industry is now looking towards anaerobic digestion as a route to reduce the amount of waste going to landfills and still provide biogas production pathways for energy production.

"Gasification of solid waste will also play a role in reducing the volume of waste that does not readily biodegrade," Walker said. "Essentially efforts will shift towards creating a continuous flow type process for waste operations that speed up the degradation process of waste, recycle the energy content in a useable form, and avoid the accumulation of waste."

And as far as RNG is concerned, Unger said that even though RNG is environmentally safe, there are some utilities that limit the use of RNG in their pipeline systems. Many organizations, like Fortistar and TruStar Energy, are working with utilities, municipalities and the federal government to increase the awareness, acceptance and use of RNG across the country.

"Thanks to the industry's collective efforts, policies like California's Low Carbon Fuel Standard, which incentivizes the use of RNG and RNG-capable vehicles, the use of RNG is rapidly expanding across our country," Unger said.

Future Outlook

Here's one thing we know: The

Continued from Page 1

waste-to-energy sector will constantly evolve to further tap into this renewable energy resource. Walker said that traditional landfilling will most likely become less popular as new environmentally friendly pathways to reduce waste volumes are developed.

"This will involve novel uses of waste feedstocks for production of value added chemicals and products," Walker said. "Ultimately waste will no longer be considered "waste" but as a feedstock for a variety of different processes."

Burton said that while there will always be waste and byproducts created from waste, if more companies take a circular approach to creating and managing waste, we can prevent the amount of waste going to landfills. "Growth of any industry is highly dependent on cost of operation," Burton said. "If regulatory costs are reduced the landfill/biogas/waste-to-energy combination will progress."

Unger points out that we may not create more landfills, but growing populations will create more waste. "Even as more communities embrace the recycling of waste materials, growing total waste will create more room for renewable technologies and sustainable solutions like biogas; enzymes that break down waste more rapidly and thus generate more biogas are essential to keeping up with growing waste inflows," Unger said. "With only 565 of the country's 2500 landfills served by biogas facilities today, there is enormous room for growth. As biogas technology advances and we develop better, faster means of breaking down waste, we'll be able to both harvest more biogas more rapidly from existing sources like landfills, wastewater facilities, and farms and enjoy new innovations that will vastly expand opportunities for biogas production and consumption."

American Recycler
NewsVoice of Salvage, Waste and Recycling

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

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March 21st-23rd

2021 C&D World Annual Convention. AT&T Hotel and Conference Center, Austin, Texas.
866-758-4721
www.cdrecycling.org

March 30th-31st

Northeast Recycling Council's Virtual Spring '21 Conference. www.nerc.org

Aircraft Solutions enters into MOU for three new recycling facilities

North American Aerospace Industries (NAAI), a provider of sustainable end-to-end aircraft recycling solutions, announced that its affiliate, Aircraft Solutions Middle East, has entered into a Memorandum of Understanding (MOU) with Aircraft Support Industries for the development of three new aircraft recycling facilities including the NAAI facility planned at the Global TransPark in Kinston, North Carolina, USA. The other two facilities being constructed for Aircraft Solutions will be located at Al Ain International Airport in the Emirate Abu Dhabi, UAE and Clark International Airport in the Philippines.

According to Sven Daniel Koechler, PhD, president and chief executive officer of North American Aerospace Industries Corporation (NAAI), "This is an exciting development for us. Aircraft Support Industries is one of the world's premier builders on custom-designed aircraft maintenance facilities, systems and equipment. Its proven track record for delivering leading-edge, flexible, and cost-effective facilities is consistent with our goals for our North American operation."

In providing its services on behalf of Aircraft Solutions, Aircraft Support Industries will rely on a phased-in project development approach. Phase one will focus on a custom designed 323,000 sq.ft. dismantling hangar that can accommodate 3 of the largest aircraft such as the A380. Aircraft Support Industries will apply its proprietary stressed arch building system along with a 81,000 sq.ft. annex for the construction of the 1076' span hangar. The annex will be used to house the engineering support workshops and materials warehousing for the NAAI facility in the USA and Aircraft Solutions' facilities in the Middle East and Asia.

"Our state-of-the-art facilities will enable our companies to provide comprehensive, sustainable aircraft recycling solutions for aircraft owners, operators, airport authorities, and military services with a zero-waste mission to recycle 100 percent of an aircraft," said Koechler. "While the pandemic has introduced delays in our construction schedule, we are optimistic that we will be able to make up for lost time in that Aircraft Support Industries is a strong partner able to facilitate a construction project in the most efficient, timely manner."

NRRA names its 2020 recycling award winners

The Northeast Resource Recovery Association (NRRA) has announced the recipients of its 2020 Recycling Awards, which recognize organizations and individuals for their contributions to support NRRA's mission of partnering to make recycling strong through economic and environmentally sound solutions. The award winners were:

•**Business of the Year Award** – OPRSystems, Inc. from Wilmington, Massachusetts

•**Rookie of the Year Award** – Steve Bullek, public works manager for the Town of Lee, New Hampshire

•**Sami Izzo Recycler of the Year Award** – Paula Dow, finance and human resource manager, NRRA

The award winners were announced at NRRA's Annual Meeting, which was held virtually on November 4, 2020.

Business of the Year – OPRSystems, Inc.: NRRA presented Dave Cameron, general manager of OPRSystems, Inc., with the Business of the Year Award. NRRA works with many businesses to support its members with recycling and waste reduction. Each year NRRA chooses a business that has demonstrated a high excellence in service to NRRA's municipal members.

NRRA markets mixed paper, cardboard, newspaper, sorted office paper, and plastics through OPRSystems to be recycled. NRRA has worked with OPRSystems for over a decade. OPRSystems, through its general manager Dave Cameron, provides NRRA with monthly recycling market updates for fibers and plastics as well as answers questions from NRRA members.

Rookie of the Year Award – Steve Bullek: NRRA presented Steve Bullek, public works manager for the Town of Lee, New Hampshire, with the Rookie of the Year Award. Each year, NRRA awards a solid waste operator who is new to their position for their initiative and connection with NRRA.

While Bullek is not a rookie when it comes to public works generally, he came to his current position in 2019 without prior experience managing recycling programs. He took advantage of NRRA's educational and networking programs as well as technical assistance. Bullek facilitated a transparent resident education system by posting his community's monthly revenue for recycling and contrasts that to the cost for municipal solid waste. In addition, Bullek oversaw Lee's new separation of sorted office paper to enhance revenue and participated in NRRA's upcoming film about using processed glass aggregate (crushed recycled glass) in infrastructure projects.

Sami Izzo Recycler of the Year Award – Paula Dow: NRRA presented Paula Dow, NRRA's finance and human resource manager, with the Sami Izzo Recycler of the Year Award. NRRA presents this lifetime achievement award each year in remembrance of Sami Izzo, a high energy, multi-talented individual known for her contributions in the world of waste reduction and recycling. This award is given to the individual who best combines the qualities of commitment, leadership, and enthusiasm in developing and sustaining an environmentally and financially sound solid waste management program.

Dow recently completed 30 years of service with NRRA. She has worn many hats in her years at NRRA, including acting as NRRA's interim executive director. On her first day of work as a receptionist, she wondered what she would do to keep herself occupied after she finished her initial tasks. Since that day, Dow has never once been bored and has worked in various departments at NRRA. Her dedication, high standards, and desire to keep improving are evident to everyone who has had the good fortune to work with her. During her tenure, she has supported NRRA's members to recycle thousands of tons of material and has helped NRRA return millions of dollars to its members from the sale of their recyclables.

Virginia Recycling Association names board members

The Virginia Recycling Association (VRA) announced four new board members and a new board chair.

The VRA also chose the city of Manassas Refuse and Recycling Coordinator Monica Boehringer as its president. Boehringer has served on the VRA board since 2018 and was the board's vice president.

The four new board members are:

•Christine McCoy - McCoy is currently a management analyst II for Fairfax County where she is responsible for program development and outreach and education.

•Robert Waschler – Waschler is currently the general manager of GFL Environmental (Waste Industries) where he serves GFL's Wytheville and Christiansburg locations.

•Kevin Drumm – Drumm is an inside buyer at the Sims Recycling center located in Tabb, Virginia. He has over 20 years of experience in business management related to the construction and manufacturing industry.

•Billy Basham – Basham is the Enon Drive general manager for Recycling Disposal Solutions (RDS). He has over 12 years of experience in solid waste management with the City of Roanoke and excels in information and data analysis, contract management, vendor relations, budgeting and financial analysis, as well as process improvements (LEAN certified).

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EPA releases draft National Recycling Strategy

The recycling industry currently accounts for approximately \$37 billion in wages

The U.S. Environmental Protection Agency (EPA) released a draft National Recycling Strategy for public input in preparation for America Recycles Week and ahead of the third annual Recycling Summit. The draft National Recycling Strategy identifies strategic objectives and actions needed to create a stronger, more resilient U.S. municipal solid waste recycling system.

“Over the last two years, we’ve heard from our partners about the challenges facing our nation’s recycling system, and in particular for municipal solid waste recycling” said EPA administrator Wheeler. “Our strategy aims to move recycling in America forward by identifying actions that all of us – governments, non-profits, private industry, and the public – can take together.”

The draft National Recycling Strategy was developed as part of EPA’s continued leadership in addressing the challenges facing the U.S. recycling system and builds on EPA’s 2019 National Framework for Advancing the U.S. Recycling System. The strategy organizes high level actions around three strategic objectives to improve the U.S. recycling system: 1) reduce contamination, 2) increase processing efficiency, and 3) improve markets.

EPA has shared the draft National

Recycling Strategy for public comment through December 4, 2020, with the goal of finalizing it in early 2021.

Recycling is a critical component of the U.S. economy, providing approximately 700,000 jobs and \$37 billion in wages; however, stressing the system are factors such as:

- Confusion about what materials can be recycled;
- Recycling infrastructure that has not kept pace with today’s diverse and changing waste stream;
- Reduced markets for recycled materials; and
- Varying methodologies to measure recycling system performance.

Recognizing this opportunity for progress, Wheeler hosted the first America Recycles Day Summit on November 15, 2018. Since then, more than 250 organizations have signed the America Recycles Pledge, promising to work collaboratively to improve the American recycling system. Administrator Wheeler hosted the third annual America Recycles Day Summit on November 17, 2020, where he announced the National Recycling Goals.

To read the National Recycling Strategy and provide comments, view this article on www.AmericanRecycler.com.

GLASS

Most consumers expect to be able to recycle glass

Ninety percent of residents and consumers still expect to be able to recycle glass, according to members of the recycling value chain. The third annual survey by the Glass Recycling Coalition (GRC), released at the GRC Fall 2020 Member Meeting, queried more than 200 municipal officials, top glass industry professionals, and materials recovery facility (MRF) operators in an open survey from August to September 2020.

“This study reaffirms the fact that consumers fundamentally understand that glass is a recyclable material and they expect to be able to recycle it in their community,” said Scott DeFife, president of GPI and member of GRC leadership committee.

The survey revealed some shift in perceptions, trends and concerns among glass recycling stakeholders.

•Concerns about glass recycling decreased by 13 percent since 2018 among public-sector representatives; however, challenges persist in cost-effectiveness, end market availability, and contamination.

•More than 55 percent of MRFs have increased recycling education influenced by current market conditions, increased contamination, and rising quality standards.

•Ninety-five percent of public-sector respondents care about what happens to glass collected for recycling up from 53 percent in 2018.

•Top priorities for the public sector respondents included resident satisfaction, meeting recycling sustainability goals and reducing contamination.

Glass industry respondents named consumer’s desire to recycle glass as a top priority.

•Haulers, MRFs and the public-sector were ranked as members of the value chain that should cover the cost of collecting and processing recyclables (not solely glass).

•Approximately 50 to 60 percent of public sector and glass industry respondents facing glass recycling challenges expressed interest in public-private partnerships and grants to improve glass recycling and help them achieve their goals.

The trend for decreases in glass recycling concerns could be attributed, in part, to GRC’s hard work and outreach demonstrating how to keep glass in your program through partnerships, MRF glass cleaning equipment or alternative collection methods.

For nearly four years, the GRC has offered resources and educational support to benefit the glass recycling value chain, including nationally recognized subject matter expert webinars, trend monitoring, best practices and case studies. The GRC is dedicated to breaking down barriers to keep glass in the recycling stream, meeting and growing end-market demand and building awareness of the benefits of glass recycling.

GRC’s new membership levels reflect the evolution of the coalition, and open the door to public sector/non-profit organizations, entrepreneurial businesses, and small businesses in addition to larger recycling companies, brands, and glass industry members.

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PAPER

AF&PA names winners of sustainability projects

The American Forest & Paper Association (AF&PA) announced its annual Better Practices, Better Planet 2020 Sustainability Award winners, which recognize exemplary sustainability programs and initiatives in the paper and wood products manufacturing industry and are awarded based on the merit of entries received across multiple categories.

“We had a record number of submissions to our Better Practices, Better Planet 2020 awards program, which underscores that sustainability is a top priority for our industry, even in the midst of a global pandemic,” said AF&PA president and chief executive officer Heidi Brock.

AF&PA’s Better Practices, Better Planet 2020 Sustainability Initiative is one of the most comprehensive sets of sustainability goals established for a U.S. manufacturing industry, nearly a decade ago. The initiative recognizes the three essential pillars of sustainability – economic, environmental and social – interdependent factors that collectively support long-term viability, growth and improvement. The Sustainability Award winners demonstrate the industry’s long-held commitment to improving practices to build a better planet today. AF&PA congratulates the following winners:

Leadership in Sustainability – Energy Efficiency/Greenhouse Gas Reduction

•Resolute Forest Products: Modernization of Coosa Pines (Alabama) Mill Helps Reduce Resolute’s Carbon Footprint

Resolute’s \$4 million upgrade to the Coosa Pines mill’s cogeneration turbine resulted in a 65 percent reduction in purchased energy and enabled the mill to self-generate 40 percent of its energy use in 2019 and to increase total energy sourced from renewable sources, including biomass and hydroelectricity, to 68 percent.

Leadership in Sustainability – Safety

•Clearwater Paper: Aspects & Impacts Process to Identify and Reduce Serious Injuries and Fatalities (SIF) Risks

Taking a proactive and systematic approach, Clearwater Paper’s risk-based assessment program resulted in an immediate improvement in specific safety targets and employee engagement – each site met their 20 percent improvement goal within the first year.

Leadership in Sustainability – Sustainable Forest Management

•Evergreen Packaging: Family Forests – The Key to Certified Success Through major investments in regional programs, Evergreen Packaging is reducing barriers and increasing access for small landowners to partici-

pate in forest certification programs and ultimately increase sustainable forest management practices in the region.

Leadership in Sustainability – Water

•Sappi: Somerset Mill’s Caustic Reclaim & Reuse

Sappi North America’s Somerset Mill designed and installed an innovative system that recovers used sodium hydroxide during boiler feed water preparation and repurposes caustic. The process has reduced the use of caustic purchases of wood-related products by 660 tons per year, reduced water use by more than 12,000 gallons per day, as well as reduced acid consumption in the wastewater treatment plant by 816 tons per year.

Innovation in Sustainability (Large Company)

•WestRock: Pak On Demand™ Pouch System

Pak On Demand™ is a major advance for the paper-based packaging market, enabling companies to produce right-sized, highly sustainable, fiber-based pouches. The innovative pouch system uses automation to increase packing rates by up to five times. In addition, the fiber-based pouches are 100 percent curbside recyclable.

Innovation in Sustainability (Small Company)

•Appvion: Innovative and Sustainable Direct Thermal Technology

Appvion’s patent-pending technology is the next innovation in direct thermal paper. CleanSlate is a transformational technology that eliminates chemical developers and leuco dyes, as well as chemical reactions to form the image. The first application of CleanSlate™ Technology is point-of-sale (POS) receipt paper and Appvion has applied the technology to thermal label and ticket products as well.

Innovation in Sustainability (Small Company)

•The Price Companies: Restoration & Management of Marginal Agricultural and Timberlands

The Price Companies are increasing conservation and sustainable forest management practices throughout the Mississippi Delta region, enhancing the profitability of marginal agricultural and timberland and restoring many of the original features that make the Delta unique.

The 2020 AF&PA Sustainability Award winners were selected by a judging panel of sustainability experts from the Department of Energy, GreenBlue, American Council for an Energy-Efficient Economy, Quad Packaging, Two Sides North America and Wisconsin Institute for Sustainable Technology.

AUTOMOTIVE

Grant helps repair shops choose less toxic chemicals

The U.S. Environmental Protection Agency announced the selection of 11 organizations across 9 states to receive \$1.16 million in grant funding to support pollution prevention activities. The grants will fund innovative, replicable source reduction approaches enabling grant recipients and others to save energy and water, reduce pollution, and improve public health. EPA awarded a \$119,872 grant to the Pacific Northwest Pollution Prevention Resource Center (PPRC) to help reduce toxic chemicals commonly used in auto repair.

“When the groundbreaking Pollution Prevention Act was signed 30 years ago, EPA was given a simple charge: work to prevent pollution before it happens,” said EPA Office of Chemical Safety and Pollution Prevention assistant administrator Alexandra Dapolito Dunn. “By providing our partners with essential tools, resources and information, we have taken a strategic approach that has yielded millions of dollars in savings and avoided the use of tens of thousands of pounds of hazardous chemicals. I’m looking forward to seeing the contributions of EPA’s 2020 source reduction grantees to our national pollution prevention effort.”

EPA’s individual Source Reduction Assistance (SRA) grant awards range from \$43,000 to \$174,000 for a two-year funding period. For these grants, EPA

prioritized funding for projects that support research, education, and/or training of innovative source reduction techniques. The grantees will document and share source reduction best practices that are identified and developed through these grants so that others can replicate these practices and outcomes.

PPRC will use the SRA grant funds to work in partnership with states to help auto repair businesses reduce their use of chemicals regulated under the Toxic Chemicals Control Act (TSCA) such as perchloroethylene (PERC), trichloroethylene (TCE), methylene chloride (MC) and n-propyl bromide (nPB), which are commonly used in auto repair. PPRC will provide webinar trainings and roundtable conferences for agency and auto repair businesses and staff. Businesses will also benefit from industrial on-site assessments, and educational resources such as checklists, fact sheets and case studies. PPRC will also give pollution prevention assessment training to interns and project participants, assisting as necessary with on-site assessments, and advising participating businesses and interns. In the first year of the project, PPRC will conduct a webinar in safer chemical alternatives in auto repair. PPRC will host a second webinar targeting breweries for pollution prevention technical assistance in wastewater in the project’s second year.

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AUTOMOTIVE

Overwhelming number of new car sales will be electric vehicles

Electric vehicles will make up as many as 8 out of 10 new cars sold in 2050. But it will still be a long road before they dislodge gasoline as the predominant fuel in transportation, IHS Markit vice chairman Daniel Yergin said in his new book, *The New Map: Energy, Climate and the Clash of Nations*.

“Oil is no longer the unchallenged king in automotive transportation. But for some time to come its writ will still extend quite widely across the realm of transportation,” Yergin wrote.

IHS Markit projects that electric vehicles (including battery, plug-in hybrid and fuel cell electric) will comprise 60 to 80 percent of all new car sales in 2050. That increased mar-

ket share (from 2.2 percent of new car sales in 2020, according to IHS Markit data) will be driven by greater scale in manufacturing, as well as the continued improvement of batteries. IHS Markit now projects that the average cost of lithium-ion cell cost will fall below \$100 per kilowatt hour by 2023.

Nevertheless, gasoline powered vehicles will still comprise two thirds of the 1.9 billion cars on the road in 2050 owing to the time it takes for the fleet to turn over. The average age of vehicles on the road in the U.S. is nearly 12 years.

“At least for now, the demand for electric vehicles is largely coming not from consumers, but from governments whose evolving policies are

shaped by climate concerns as well as by urban pollution and congestion,” Yergin observed in *The New Map*.

Failure to meet new government targets for lowering emissions “could cost European automakers as much as \$40 billion in fines” over the next 5 years, he said. “That is a strong signal that is coming from regulation rather than consumer demand.”

Electric vehicles also bring their own set of challenges, particularly in the supply chain of some battery materials, Yergin observes. Electric vehicle demand for lithium could rise 1,800 percent by 2030 and would represent about 85 percent of total world demand. Demand for cobalt, another essential element in batteries, could rise 1,400 percent. And more than 50 percent of global cobalt supply comes from one place – the Democratic Republic of the Congo.

Nevertheless, Yergin wrote that the possible emergence of what he calls a “New Triad” (the convergence of the electric car, ride-hailing and car-sharing services, and self-driving autonomous vehicles) could disrupt oil’s century-long dominance in transportation. This would give rise instead to a new trillion-dollar industry, what he dubs “Auto-Tech.”

The advent of Tesla broke “the logjam” that had held since the failure of Thomas Edison’s electric car to gain traction a century earlier, Yergin writes, and major automakers are hastening to catch up and deploy their own electric vehicles.

“The world of autos—and their fuel suppliers—has become the arena for a new kind of competition,” he concludes. “It is no longer just about selling cars to consumers for personal use. No longer just automakers versus automakers, no longer gasoline brands versus gasoline brands. It has become multidimensional.

Q: *What did the flour say to the bread?*
A: *I saw you yeast-erday!*

RUBBER

DOC issues preliminary duty on tires from Vietnam

U.S. Secretary of Commerce Wilbur Ross announced an affirmative preliminary determination in the countervailing duty (CVD) investigation of passenger vehicle and light truck (passenger tires) tires from Vietnam. The Commerce Department preliminarily determined that exporters and producers from Vietnam received counter available subsidies with rates ranging from 6.23 percent to 10.08 percent. Among the subsidies preliminarily countervailed is Vietnam’s undervalued currency – making this the first time that Commerce has ever made an affirmative CVD determination regarding a foreign currency with a unitary exchange rate.

As a result of this decision, Commerce will instruct U.S. Customs and Border Protection to collect cash deposits from importers of passenger tires from Vietnam based on these preliminary rates noted above.

The petitioner is the United Steel, Paper and Forestry, Rubber, Manufacturing, Energy, Allied Industrial, and Service Workers International Union, AFL-CIO, CLC. The company is headquartered in Pittsburgh, Pennsylvania.

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 April 30, 2021. 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 of countervailable subsidization or the ITC makes a negative final determination of injury, the investigation will be terminated and no order will be issued.

In 2019, imports of passenger tires from Vietnam were valued at approximately \$469.6 million.

SALVAGING Millions

by Ron Sturgeon
Autosalvageconsultant.com

Passion as a management style

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.

Passion – where did it go? Many folks I talk to say, “It’s just not fun anymore.” That can be the case. But where did that competitive spirit go? I think business is just as much fun as it always has been, but the bar has certainly been raised.

Several of my articles this year have discussed passion. Those of you who know me understand my passion for business and how I apply it to all my endeavors. I am unrelenting in my desire to reach a goal. Much of my success has to do with my management style. My style has evolved over the last three decades, but it includes these three crucial elements:

Manage by objective – I often see folks wringing their hands because they didn’t hit a goal and expressing remorse over some things they could or should have done. Never for me. When I decide to do something, I decide what it takes. I hold nothing back. You can accuse me of being over the top, but never

of holding back. If I don’t hit the goal, I never have remorse over my methods. I know I did everything humanly possible to make it happen, so I have no regrets. It’s important to me, as I set so many goals and try to accomplish so much, but this approach allows me to turn the corner and go on when I fail.

Choose battles carefully – I don’t try to change something I can’t change or attempt something I know I can’t do. Life is too short, and energies are too rare. It’s that simple.

Manage by consensus – I didn’t learn this until I had been in business about 10 years. I thought I knew all the answers. I didn’t. I learned to listen better. Some folks were kinder, more diplomatic, and knew the financials better or simply had a different (and sometimes better) perspectives. I met industry experts like Don Egilseer (Smart Parts), Al & Ed Lacy, Herb Lieberman, Garry Howard, Stu Willen, Howard Nussbaum, Ken Vonhoff, Don Fitz, Jr., Barry Isenberg, and the list goes on and on. When several of us get together and work on an idea and come to an agreement on it, the product is almost always better than what I could have done on my own. Be willing to listen and adjust your ideas.

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.

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WASTE

Waste Management reports continued strong performance

Given the strength of the Waste Management's third quarter, which demonstrated the resilience of the business model and reducing the cost to serve, the company expects to exceed its 2020 adjusted operating EBITDA margin guidance of 28.0 percent to 28.5 percent and generate free cash flow in excess of \$2 billion.

Revenue

In the third quarter of 2020, revenue declined \$99 million in the company's collection and disposal business compared to the third quarter of 2019, driven by \$192 million in volume declines partially offset by \$93 million of growth from yield.

Core price for the third quarter of 2020 was 3.2 percent compared to 4.0 percent in the third quarter of 2019 and 1.3 percent in the second quarter of 2020.

Collection and disposal yield was 2.6 percent in both the third quarter of 2020 and the third quarter of 2019 compared to 1.6 percent in the second quarter 2020.

Cost Management

Operating expenses as a percentage of revenue improved 110 basis points to 60.4 percent when compared to the third quarter of 2019.

Profitability

Total company operating EBITDA was \$1.10 billion, or 28.5 percent of revenue, for the third quarter of 2020. On an adjusted basis, total Company operating EBITDA was \$1.14 billion, or 29.5 percent of revenue, for the third quarter of 2020 compared to adjusted operating EBITDA of \$1.14 billion and 28.8 percent of revenue for the same period in 2019.

SWANA and Glad expand COVID aid for solid waste and recycling workers

Glad and the Solid Waste Association of North America (SWANA) announced the expansion of the Sanitation Workers Support Fund (Fund) providing financial assistance to solid waste and recycling workers in the United States and Canada adversely impacted by COVID-19. Glad and SWANA are expanding eligibility beyond front-line collection workers such as drivers and helpers.

A solid waste worker at a municipal sanitation department or hauling company who has direct interaction with front-line collection workers may now qualify for the Fund, including but not limited to, supervisors, dispatchers, mechanics and other maintenance personnel, and administrative staff.

In addition, a recycling facility worker, including front-line workers (e.g., pickers, equipment operators) and workers at recycling facilities who have direct interaction with these front-line workers, including but not limited to, supervisors, maintenance personnel, and administrative staff, may also qualify for the Fund.

Solid waste and recycling workers will potentially qualify for assistance if they: (1) have tested positive for COVID-19; (2) were laid off because of COVID-19 and

continue to be unemployed; or (3) if an immediate family member was a front-line solid waste or recycling collection worker and passed away as a result of the coronavirus. Individuals directly impacted by COVID-19 by testing positive for the coronavirus or who lost their job due to the coronavirus and are currently unemployed can receive US \$500. Immediate family members (spouse or minor children) of a solid waste and recycling collection worker who died due to COVID-19 can receive \$2,500.

"SWANA is very pleased to expand eligibility for the Sanitation Workers Support Fund to other solid waste and recycling employees," stated David Biderman, SWANA Executive director and chief executive officer. "Supervisors, mechanics, dispatchers, and recycling facilities workers have been equally essential in making sure that solid waste and recyclables in the U.S. and Canada are being managed properly during the COVID-19 pandemic. We are glad to be working with Glad to provide this financial support during this difficult time."

"Glad is honored to continue our partnership with SWANA and the Sanitation Workers Support Fund," said C.C. Ciafone director of

marketing. "We at Glad realize how essential solid waste and recycling workers are to keeping our homes and communities safe during the pandemic. We are proud to be part of recognizing their work during these unprecedented times."

SWANA has approved more than 260 applications and has distributed nearly \$120,000 to date. There have been recipients in 24 states and in Canada, with the largest number of recipients at the New York City Department of Sanitation.

SWANA expects the expansion of eligibility will result in the remainder of the money in the Sanitation Workers Support Fund being disbursed by early December. SWANA processes applications on a rolling basis and they will be accepted until the fund is depleted. There may be a limit on the number of applications approved from any specific state, province, or country, to ensure funds are distributed in an equitable manner across different locations. SWANA membership is not required to be accepted as a recipient.

For a direct link to application information, view this article on www.AmericanRecycler.com.

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BUSINESS BRIEFS

Casella Waste acquires Pinto Trucking Services

■ Casella Waste Systems, Inc., a regional vertically integrated solid waste, recycling and resource management services company, has acquired the assets of Pinto Trucking Services, Inc.

Pinto is a provider of residential, commercial and roll-off collection services in the Grand Island and Buffalo, New York market. The company expects to generate approximately \$4 million of annualized revenues from the Pinto acquisition.

Terms of the transaction were not disclosed.

Ed Donovan joins UNTHA America as sales manager

■ With more than 30 years' sales experience – including 28 in this sector – Ed Donovan has a wealth of environmental knowledge and contacts, which will play a key part in UNTHA America's continued growth ambitions.

Having started his career in Michigan, with Pepsi, Donovan then moved to Morbark. He spent over 12 years working for the renowned waste wood equipment brand, looking after different sales areas across the U.S. For half a decade, he also had international responsibilities, before he moved to Continental Biomass Industries.

Ely Enterprises welcomes Parr as sales manager

■ Ely Enterprises announced Craig Parr as the company's sales manager, Pneumatic Conveying Division. Parr will be responsible for sales leadership with his main objective being the field analysis, design, and sales of used/reconditioned and new pneumatic conveying systems and material handling solutions as the application dictates to tie into their existing line of balers and compactors.

He joins the Ely Enterprises' team from sales management positions with multiple material handling companies.

Parr brings over 40 years of experience in the following industries and will enable Ely to provide the turnkey systems necessary to bring the product from the source to the end receptacle (baler, compactor) already supplied by Ely Enterprises: pulp & paper, corrugated, folding carton, plastics/film/foil, non-wovens, printing/envelopes, and labels (including exposed adhesives).

Meridian Waste acquires assets of Radid Response

■ Meridian Waste Missouri, LLC, a subsidiary of Meridian Waste, acquired the assets of all roll off trucks, containers and contracts from Rapid Response, Inc. located in Wentzville, Missouri. The roll off assets and associated CDL drivers will be relocated to Meridian Waste's existing hauling and transfer station operations in Foristell, Missouri.

ACV Enviro promotes Robert Belanger

■ ACV Enviro announced that Robert Belanger has been recently promoted to director of lab pack services. In his new role, Belanger will lead the ACV Enviro team (sales, project managers, chemists and technicians) by expanding ACV's lab pack and onsite services nationwide, providing employee training and serve as the program's oversight.

Belanger, having worked in EHS for over 20 years, joined ACV Enviro in April 2020 as the lab pack manager and was promoted seven months later to the title he currently holds.

American AllWaste acquires Walker Aero

■ American AllWaste LLC has acquired Austin based Walker Aero Enterprises LLC and its affiliated companies, including JV Dirt & Loam, Daisy Works and Sheridan Environmental.

The acquisition of Walker Aero will allow AllWaste to divert waste from landfills and instead recycle, reuse or resell materials as compost. This both reduces company costs and is a more sustainable approach.

Walker Aero co-founder and president Phillip S. McCammon V will continue with AllWaste as general manager of JV Dirt & Loam.

Kobelco names Company Wrench as new dealer

■ Company Wrench, Ltd. is the new dealer for Kobelco Construction Machinery USA, Inc. in Central Florida. Company Wrench also represents Kobelco in five other states, including North Carolina, South Carolina, New Jersey, Pennsylvania, and Tennessee.

Company Wrench will represent the full line of Kobelco excavator and demolition products in Brevard, Citrus, Hernando, Hillsborough, Lake, Orange, Osceola, Pasco, Pinellas, Polk, Seminole and Sumter counties.

Steel Cities Steels adds national sales manager

■ Burns Harbor-based Steel Cities Steels recently announced that Chip Cable has joined the company as national sales manager. He brings over 14 years of experience in metal industry business development.

In his most recent role, Cable served as a business development manager for with Union Corrugated Company in La Porte, Indiana. Before that, he spent over 12 years with Central States Manufacturing, Inc. in Michigan City, Indiana as a territory manager and also as business development manager.

Cable also has extensive personal experience with metal building components and pre-engineered buildings. He's spent most of his life working with steel fabrication and members of his family also worked in the industry by trade.

Wisetek appoints new vice president of sales

■ Wisetek, a leader in advanced IT asset disposal, data destruction, technology reuse and manufacturing services, has appointed Bob Truelove as its new vice president of sales. As part of this role, he will be responsible for the company's sales operations in the U.S.

Truelove has over 20 years of sales experience in the technology industry and has held a number of senior sales positions with IT asset disposition (ITAD) providers. This extensive experience will help support Wisetek as it continues to further expand its global footprint.

Truelove will be based primarily in Columbus, Ohio. As part of the role, he will oversee the company's sales operations across its facilities in the U.S., including in Texas, Massachusetts, Virginia, Maryland and California.

Truelove previously worked as the director of ITAD sales and services with Rand Technology in Columbus, Ohio. Prior to that, he worked as director of sales at Computer Wholesalers Inc. in New Jersey. He also worked as director of ITAD sales at Arrow Electronics in Colorado.

McCloskey International welcomes TBF Thompson

■ Screening and crushing industry leader McCloskey International has welcomed equipment dealer TBF Construction Machinery to its global network of distributors. The company will serve the Ireland market, offering a full suite of products, parts and services for their customers.

TBF Group has a rich history, having been involved in the automotive and plant industries throughout the island of Ireland since 1958. Established in Garryvagh, TBF Thompson has grown to include depots in Dublin, Mallusk and Portadown. They are an authorized Hitachi® dealer, also offering and servicing Bell dump trucks, DAF trucks, Thwaites dumpers, Bomag compacting equipment, Cummins engines, Doosan Portable Power, Palfinger cranes and Montabert Breaker products.

TBF prides itself on world-class equipment sales and support in the construction, quarry, roadbuilding, and forestry sectors, among others. McCloskey equipment plays a key role in the growth of the crushing and screening systems product line offered by TBF Construction Machinery.

TBF Construction Machinery stands firmly behind the products it sells, and support continues long after a machine is sold. Parts and service departments can be found at each of the five depots across Ireland, with experienced and knowledgeable staff available in store or by phone. Dedication to aftersales support has served the company well for over 60 years and many long-lasting and trusted relationships have been built with both manufacturers and customers in that time.

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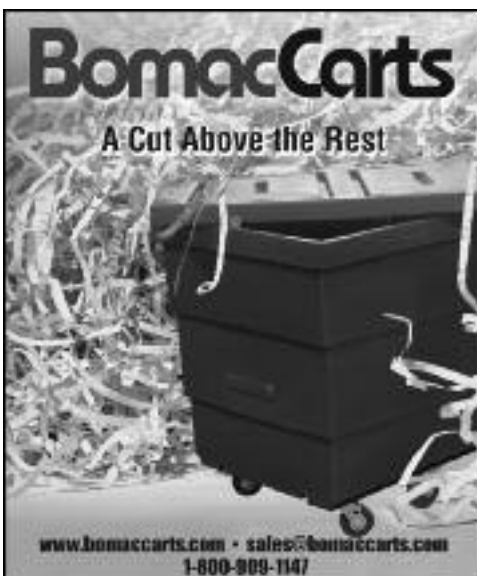


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Precious metal recycling market is uncertain

by MAURA KELLER

mkeller@americanrecycler.com

A year ago the idea of a global pandemic completely altering life as we knew it was pure science fiction. Added to that, global economic instability and the traditional challenges of an election year, the ability to forecast what the metals recycling marketplace would look like the great unknown.

Li-Cycle's Sean Grixti, business development and operations, said the metals recycling marketplace looks good right now, with a strong outlook going into 2021. "This is mainly due to the increasing demand for critical metals coupled with an increasing appetite for utilizing recycled materials in industry," Grixti said. Having said all of this, COVID-19 has caused some capacity constraints in the supply chain as a result of reduced operations at processing sites and lower collection numbers from the general public.

"The effects of the COVID-19 pandemic seem to be fairly even across the range of metals; a lot of impact is mainly due to capacity constraints from reduced operations at processing sites," Grixti said.

Li-Cycle is a clean technology company with revolutionary technology for resource recovery of end-of-life lithium-ion batteries. Li-Cycle Technology is a closed loop, economically viable, safe and sustainable process that can recover 80 to 100 percent of all materials in lithium-ion batteries. The company is on a mission to provide sustainable and safe customer-centric solutions for end-of-lifecycle lithium ion batteries while meeting the rapidly growing demand for critical battery materials.

According to Ajay Kochhar, Li-Cycle co-founder, president and chief executive officer, the economic impact of the coronavirus pandemic on the waste and recycling industry can have a ripple effect on the supply chain for electronic components.

"Global critical materials production for the lithium-ion battery supply chain, is heavily concentrated in a

handful of countries, particularly China," Kochhar said. "In the wake of COVID-19, these centralized critical materials supply chains are already proving how vulnerable they are to geo-political problems."

Kochhar pointed out that this global pandemic is exposing the need for local critical material supply chains, particularly during such a crucial time in the development of the electric vehicle industry and worldwide electrification.

"In regions where domestic supply is not available from primary resources, one strategy is to leverage secondary resources such as second-life batteries from end-of-life portable electronics, end-of-life industrial batteries, and electrified vehicles – both hybrid and fully electric," Kochhar said.

According to Carl Smith, chief executive officer and president, Call2Recycle, there is no question that the commodity markets will continue to evolve. "We see the world continuing to embrace more circular economy approaches to manufacturing, relying much more heavily on recycled metals. This trend, really led by Europe, will continue to grow in the U.S., too," Smith said. "We believe that virgin material will have increasing constraints on their use in manufacturing, further accelerating efforts for a more circular approach."

As a program focused on battery recycling, Call2Recycle is most interested in the markets for nickel, cadmium, cobalt, and lead. Over the last five years or so, cobalt has been the most sought after metal generated by batteries but even before COVID, cobalt prices have fallen as battery manufacturers seek out less expensive metals to use in battery cathodes.

"For the most part, the activity in general for all metals have softened due to the economic downturn caused by COVID. The prices haven't crashed but the activity is clearly down," Smith said. Call2Recycle has had the greatest challenge with the cadmium market. Not only has this been affected by



Precious metals like those recovered from electric vehicle batteries are most often used to remanufacture products.

COVID, but recent regulatory efforts to ban nickel-cadmium batteries in the EU have also depressed the price for cadmium.

Consumer Education & Metals Recycling

The metals recycling industry is dependent on consumers understanding how certain metals within their home and work environments can be recycled. A recent survey by Tanaka Precious Metals found that the substantial majority of consumers (62 percent) said they know how to recycle their smart devices, yet only 16 percent actually do so. Consumption without recycling could disrupt the supply of smartphone materials in the long term which could lead to a shortage or delay in smart device production and availability for consumers.

Rather than recycling, the Tanaka survey found that most respondents

said they either sell or exchange their old devices (40 percent) or keep them (26 percent). When it comes to the hardware of smart devices, baby boomers are the least likely to know that parts of smart devices are made from recyclable materials compared to other generations.

As part of their report, Tanaka Precious Metals stressed that his recycling gap is something manufacturers should pay close attention to. The more that precious and rare metals are consumed without recycling, the sooner the stable supply of these materials can be disrupted and potentially cause a substantial increase in material prices.

William Crockett, vice president at Tanaka said COVID has impacted the metals recycling by reducing and/or eliminating collection channels which have paused services.

See **PRECIOUS METALS**, Page B6

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Novelis reports record shipments for second quarter 2020

Novelis Inc., a leader in aluminum rolling and recycling, reported a net loss attributed to its common shareholder of \$37 million, down 130 percent versus the prior year due to a \$181 million net loss associated with discontinued operations. Net income from continuing operations increased 17 percent versus the prior year to \$144 million for the second quarter of fiscal year 2021. Excluding tax-effected special items in both years, second quarter fiscal 2021 net income was \$158 million, down one percent versus the prior year period, as higher after-tax adjusted EBITDA was offset by higher depreciation, amortization, and interest expense mainly associated with the acquisition of Aleris.

Second quarter results reflect outstanding operational performance, flexible and efficient customer service, and the ability to meet rapid recovery in customer demand across end markets, with total flat rolled product shipments up 19 percent sequentially as compared to the first quarter of fiscal 2021. The recovery is most pronounced in the automotive market, with second quarter automotive shipments double compared to the first quarter, led by North America and the second consecutive quarter of record automotive shipments in Asia. In South America, increased at-home beverage consumption has significantly shifted package mix towards aluminum cans, resulting in record shipments in this segment. While the COVID-19 pandemic has caused muted demand in the aerospace market, the North American building and construction market has rebounded quickly, exiting the quarter at pre-pandemic levels. The company is also encouraged by the improving demand levels across several other specialty markets, including electronics, coffee capsules and painted products.

“Our outstanding performance this quarter was largely driven by our ability to effectively manage our business and work with customers to meet a sharp increase in demand,” said Steve Fisher, president and chief executive officer, Novelis Inc. “While future economic implications resulting from the pandemic remain uncertain, our diverse product portfolio, geographic footprint, and strong financial position will enable Novelis to continue to successfully meet customer needs and continue to invest in our business.”

Net sales increased 4 percent from the prior year period to \$3.0 billion for the second quarter of fiscal 2021, primarily driven by an 11 percent increase in shipments, partially offset by lower average aluminum prices. Total flat rolled product shipments increased to a record 923 kilotonnes, mainly reflecting the addition of the acquired Aleris business.

Adjusted EBITDA increased 22 percent to a record \$455 million in the second quarter of fiscal 2021 compared to \$374 million in the prior year period. Adjusted EBITDA increased versus the prior year even before the positive EBITDA contribution from the acquired Aleris business or acquisition synergies, driven by targeted cost control initiatives, as well as favorable metal costs. On a consolidated per ton basis, Novelis achieved a record EBITDA per ton of \$493 in the quarter.

Year-to-date fiscal 2021 free cash flow of \$132 million compares to \$18 million in the prior year period, driven primarily by lower capital expenditures and working capital, par-

tially offset by lower Adjusted EBITDA, negative metal price lag, and exceptional items recorded in the first quarter fiscal 2021. Capital expenditures decreased versus the prior year to \$222 million, as the company reduces and defers non-strategic capital spending to prioritize cash.

“Our financial strength, particularly as it relates to cash flow generation, is enabling us to move forward with our strategic plans to invest in new capacity and grow the business,” said Devinder Ahuja, senior vice president and chief financial officer, Novelis Inc. “We also remain committed to reducing net leverage and total debt, while maintaining ample liquidity levels that allow us to adapt quickly to changes in customer demand during these unprecedented times.”

COVID-19 Response

Novelis’ primary focus remains the health and well-being of its employees. The company is closely monitoring the changing landscape with respect to the COVID-19 pandemic and taking actions to manage its business and support customers. Novelis has bolstered its Environmental Health and Safety protocols to align with guidance from global health authorities and government agencies across company operations to help ensure the safety of its employees, customers, suppliers, communities and other stakeholders. While customer demand recovered across many end markets during its fiscal second quarter, Novelis is actively managing its costs and continues to work closely with customers to leverage its global manufacturing footprint and adjust production levels to meet their needs.

Update on Aleris Acquisition and Required Divestments

On April 14, 2020, Novelis closed its acquisition of Aleris Corporation and is integrating the two companies to drive a number of strategic benefits and allow for at least \$180 million in potential annual synergies. The results from continuing operations reported today for the period ending September 30, 2020 reflect the acquired businesses. Results related to the Duffel and Lewisport plants are reflected as results from discontinued operations. The company filed a form 8-K/A with the Securities and Exchange Commission on June 30, 2020, providing historical and pro forma financial information related to the acquisition.

On September 30, 2020, Novelis completed the required divestment of the Duffel plant to ALVANCE, the international aluminum business of the GFG Alliance. On November 8, 2020, Novelis signed an agreement to sell the Lewisport automotive body sheet business to American Industrial Partners, a private equity firm, for estimated net cash proceeds of approximately \$171 million. With divestments now complete, Novelis is focusing on integration of the continuing operations to drive value creation. Novelis’ acquisition of Aleris provides a strong pro-forma financial profile, many strategic benefits, namely securing an integrated manufacturing footprint in China, further portfolio diversification with the addition of aerospace and building and construction, well as new technology and operational capabilities. The acquisition continues to be value accretive, with the long term outlook in line with the original acquisition case.

September 2020 crude steel production increases

World crude steel production for the 64 countries reporting to the World Steel Association (worldsteel) was 156.4 million tonnes (Mt) in September 2020, a 2.9 percent increase compared to September 2019. Due to the ongoing difficulties presented by the COVID-19 pandemic, many of this month’s figures are estimates that may be revised with next month’s production update.

World crude steel production was 1,347.4 Mt in the first 9 months of 2020, down by 3.2 percent compared to the same period in 2019. Asia produced 1,001.7 Mt of crude steel in the first nine months of 2020, an increase of 0.2 percent over the same period of 2019. The EU produced 99.4 Mt of crude steel in the first 9 months of 2020, down by 17.9 percent compared to the same period in 2019. Crude steel production in the C.I.S. was 74.3 Mt in the first nine months of 2020, down 2.5 percent compared to the same period in 2019. North America’s crude steel production in the first 9 months of 2020 was 74.0 Mt, a decrease of 18.2 percent compared to the same period in 2019.

China produced 92.6 Mt of crude steel in September 2020, an increase of 10.9 percent compared to September 2019. India produced 8.5 Mt of crude steel in September 2020, down 2.9 percent from September 2019. Japan produced 6.5 Mt of crude steel in September 2020, down 19.3 percent from September 2019. South Korea’s crude steel production for September 2020 was 5.8 Mt, up by 2.1 percent from September 2019.

Germany produced 3.0 Mt of crude steel in September 2020, down 9.7 percent from September 2019. Italy produced 1.8 Mt of crude steel in September 2020, down 18.7 percent from September 2019. France produced 1.0 Mt of crude steel in September 2020, down 20.1 percent from September 2019. Spain produced 0.9 Mt of crude steel in September 2020, down 20.7 percent from September 2019.

Production in the C.I.S. is estimated to be 8.2 Mt in September 2020, down 0.3 percent from September 2019. Ukraine produced 1.7 Mt of crude steel in September 2020, down 5.4 percent from September 2019.

The U.S. produced 5.7 Mt of crude steel in September 2020, a decrease of 18.5 percent compared to September 2019.

Turkey’s crude steel production for September 2020 was 3.2 Mt, up by 18.0 percent on September 2019.

Brazil produced 2.6 Mt of crude steel in September 2020, up 7.5 percent from September 2019.

Raw steel production rises in October 2020

In the week ending on November 7, 2020, domestic raw steel production was 1,573,000 net tons while the capability utilization rate was 71.1 percent. Production was 1,823,000 net tons in the week ending November 7, 2019 while the capability utilization then was 78.8 percent. The current week production represents a 13.7 percent decrease from the same period in the previous year. Production for the week ending November 7, 2020 is up 1.0 percent from the previous week ending October 31, 2020 when production was 1,557,000 net tons and the rate of capability utilization was 70.4 percent.

Adjusted year-to-date production through November 7, 2020 was 67,379,000 net tons, at a capability utilization rate of 66.8 percent. That is down 18.8 percent from the 82,977,000 net tons during the same period last year, when the

capability utilization rate was 80.0 percent.

Broken down by districts, the production for the week ending November 7, 2020 in thousands of net tons were: North East: 155; Great Lakes: 544; Midwest: 162; Southern: 639 and Western: 73 for a total of 1573.

The Raw Steel production tonnage provided is estimated. The figures are compiled from weekly production tonnage provided from 50 percent of the domestic producers combined with monthly production data for the remainder. Therefore, this report should be used primarily to assess production trends. The AISI production report “AIS 7”, published monthly and available by subscription, provides a more detailed summary of steel production based on data supplied by companies representing 75 percent of U.S. production capacity.

Don B. Daily Memorial Fund selects 2020–2021 recipients

The Association for Iron & Steel Technology (AIST) Foundation and the Steel Manufacturers Association (SMA) announced Dr. Ibukun G. Awolusi of the University of Texas at San Antonio (UTSA) and Dr. Rupkatha Bardhan of Murray State University as the 2020–2021 recipients of the \$10,000 Don B. Daily Safety Grant to Promote Steel Industry Safety and Health.

The fund was created to commemorate the life and industry service of the late Don B. Daily, a compassionate man who truly cared about the safety of all employees working in the steel industry. His career as president of Gallatin Steel and chairman of the SMA left an enduring mark on the steel industry of North America and has inspired the establishment of numerous safety and health initiatives that have significantly improved the workplace.

Dr. Ibukun G. Awolusi's proposal is titled "Wearable Sensing Devices and the Internet of Things for Worker Safety and Health Management in the Steel Manufacturing Industry." This project will evaluate the applications of Internet of Things based wearable sensing devices for worker safety and

health management in the steel manufacturing industry. Awolusi's industry mentor is Michael J. Volkmann, mechanical engineer, CMC Steel Texas, Seguin, Texas.

Dr. Rupkatha Bardhan's proposal is titled "Managing Heat Stress-Related Injuries and Illness in the Iron and Steel Industry." The project will investigate heat stress and its risk factors in iron and steel industry employees and provide ways to manage heat stress through assessment, control and training. Bardhan's industry mentor is Eric Woosley, safety and health manager, Gerdau Long Steel North America Jackson Mill, Jackson, Tennessee.

The Don B. Daily Safety Grant challenges North American university teams (students and professors) to submit proposals for grant funding in the theme area of safety and health awareness within the steel manufacturing industry. The dual objective of the fund is to promote a safe workplace for the steel manufacturing industry and to increase the number of students studying health and safety awareness relative to the manufacturing environment.

Liberty Steel Group makes an offer to acquire thyssenkrupp Steel Europe

Liberty Steel Group, part of sustainable industry leader GFG Alliance, has made a non-binding indicative offer (NBIO) as part of a thyssenkrupp-led process to acquire the steel activities of thyssenkrupp. Liberty Steel is a global steel and mining business with annual revenues of about \$15bn and 30,000 employees in more than 200 locations on 4 continents.

With both transformation experience and an entrepreneurial approach, a possible combination of Liberty Steel and thyssenkrupp Steel would create a strong group well positioned to tackle the challenges faced by the European steel industry and accelerate the transformation to Greensteel.

Liberty Steel is convinced that a combination with thyssenkrupp Steel Europe can be the right answer from an economic, social, and environmental perspective.

From an economic perspective, there is potential for a compelling industrial concept given that the businesses are complementary with respect to assets, product lines, customers, and geographic footprint.

From a social perspective, Liberty Steel stands for a long term commitment to the industry and jobs reflecting the values of a family owned company. Liberty Steel has repeatedly proven to turn around businesses in a way that is

loyal to local communities and saves jobs.

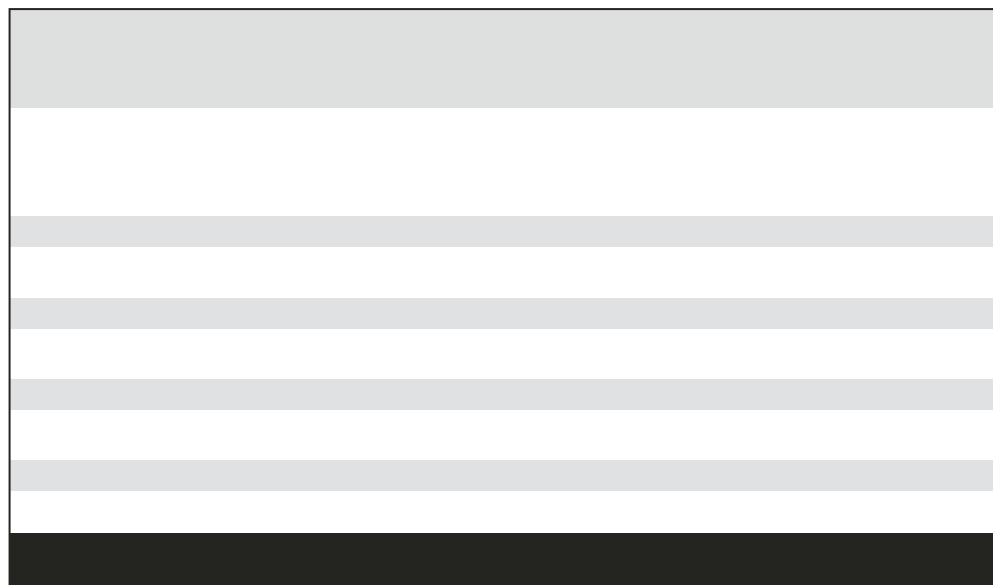
From an environmental perspective, Liberty Steel is a leader in sustainable industry with a mission to become Carbon Neutral by 2030. But to transform a whole industry a European approach is required. A joint entity would be well positioned to create the sustainable Greensteel industry leader in Europe.

Liberty Steel's current proposal is a non-binding indicative offer subject to certain assumptions about the business. The NBIO is supported by a number of financial institutions. Given the opportunity to proceed in the transaction process, Liberty Steel is open to intensify the dialogue with thyssenkrupp and would like to engage in further due diligence to present a potential binding offer.

The discussions with thyssenkrupp have been conducted on a non-exclusive basis, and there is no certainty that the discussions will lead to any agreement or transaction.

The terms of a potential binding offer could deviate from the current non-binding offer. Should the discussions materialize in any relevant agreement between the companies, Liberty Steel will publish further information on the matter in due course.

Steel imports down 21.9 percent year-to-date



Based on preliminary Census Bureau data, the American Iron and Steel Institute (AISI) reported that the U.S. imported a total of 1,255,000 net tons (NT) of steel in September 2020, including 1,166,000 net tons (NT) of finished steel (down 2.8 percent and 1.1 percent, respectively, vs. August final data). Through the first 9 months of 2020, total and finished steel imports are 17,646,000 and 12,367,000 NT, down 21.9 percent and 26.7 percent, respectively, vs. the same period in 2019. Annualized total and finished steel imports in 2020 would be 23.5 and 16.5 million NT, down 15.8 percent and 21.7 percent, respectively, vs. 2019. Finished steel import market share was an estimated 16 percent in September and is estimated at 18 percent over the first 9 months of 2020.

Key finished steel products with a significant increase in imports in September compared to August are heavy

structural shapes (up 114 percent), hot rolled sheets (up 41 percent), plates in coils (up 28 percent), sheets and strip all other metallic coatings (up 19 percent), tin plate (up 11 percent) and sheets and strip hot dipped galvanized (up 10 percent).

In September the largest volumes of finished steel imports from offshore were from South Korea (124,000 NT, up 11 percent from August final), Taiwan (58,000 NT, up 73 percent), Japan (57,000 NT, up 28 percent), Germany (52,000 NT, up 3 percent) and The Netherlands (33,000 NT, down 10 percent). For the first 9 months of 2020, the largest offshore suppliers were South Korea (1,519,000 NT, down 26 percent vs. the same period in 2019), Japan (586,000 NT, down 42 percent), Germany (525,000 NT, down 37 percent), Taiwan (463,000 NT, down 37 percent) and Turkey (427,000 NT, up 65 percent).

Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$262.00	259.00	253.00	265.00	321.00
#1 Bundles	per gross ton	249.00	263.00	231.00	264.00	298.00
Plate and Structural	per gross ton	262.00	249.00	246.00	265.00	300.00
#1 & 2 Mixed Steel	per gross ton	179.00	244.00	227.00	248.00	270.00
Shredder Bundles (tin)	per gross ton	126.00	132.00	164.00	148.00	140.00
Crushed Auto Bodies	per gross ton	126.00	132.00	164.00	148.00	140.00
Steel Turnings	per gross ton	88.00	89.00	87.00	132.00	154.00
#1 Copper	per pound	2.78	2.63	2.81	2.85	2.82
#2 Copper	per pound	2.65	2.54	2.65	2.67	2.64
Aluminum Cans	per pound	.47	.49	.50	.52	.51
Auto Radiators	per pound	1.41	1.35	1.57	1.59	1.70
Aluminum Core Radiators	per pound	.47	.44	.42	.40	.51
Heater Cores	per pound	1.01	1.03	1.08	1.04	1.40
Stainless Steel	per pound	.52	.52	.55	.51	.54

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

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EQUIPMENT SPOTLIGHT

Attachments

by MARY M. THORNTON

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A wide range of attachments are available for use by those in metal or waste recycling operations. Magnets move ferrous scrap and grapples in all sizes and shapes can lift scrap metal and tires. Crushers pulverize scrap concrete, buckets can handle finer scrap particles and mobile shears can be used to process metal and tire scrap.

According to Mark Vandenberg, general manager, Bateman Magnet Grapples (Mag-Grabs) “are purpose-built to provide 100 percent handling efficiency for incoming and outgoing material, with the ferrous metal sorting capabilities of a magnet. The main body and tines are designed with great strength to survive tamping and packing loads as well as to withstand the extra load of the integrated magnet.”

Bateman Mag-Grabs feature a new wide-body design, equipped with internal hydraulic relief valves for jaw and cylinder protection. According to Vandenberg, this grapple will easily exceed user needs, due to the following features – high torque, heavy duty high capacity rotate bearing with 360° continuous rotation; fully protected easy access cylinder hoses; fully guarded high-pressure cylinders, 5000 psi working pressure; oversized pins with custom locknuts; heavy duty high abrasion resistant tines with thick backs, wear strips and heavy-duty replaceable weld-on tine tips; heavy duty lift magnet; internal slip ring assembly fully sealed



Bateman Manufacturing

in the lower section; internal hoses and flange connections are fully protected; supplied with jumper hoses and a custom pin-on yoke to fit your equipment.

Bateman Manufacturing was established in 1989 in Barrie, Ontario. In the beginning, Bateman manufactured attachments for excavators, loaders and material handlers for the construction, demolition, and forestry industries. In 2002, Bateman moved to Orillia, Ontario and increased production with orange peel grapples and demolition grapples, introducing even more products to the recycling and demolition industries. In 2011, Bateman moved to a 35,000 sq. ft. facility in Oro-Medonte, Ontario in response to the increased demand for Bateman products. The company now proudly supplies material handling equipment/attachments and generators both domestically and internationally.

“Flipscreen is the world’s best, high volume, patented, screening bucket that inexpensively and efficiently processes any material, on-site, for any industry,” commented Joshua Hill, the firm’s North American vice president. He also noted how the attachment is made to suit any size excavator, loader, skid steer or tractor with zero daily maintenance on new direct-drive models. “Flipscreens are replacing trommels and screening plants because they screen more at greater profits, with a low operating cost. Our EX85 DD will screen over 138 yd³ per hour, weighs 3,109 lbs and fits excavators between 18 and 25 tons. The mesh in our super-tough EX85 DD bucket, as with all Flipscreen products, can be changed in less than 5 minutes. It has the biggest screening area in its class, can be used under water and to dig fresh ground. Approximate cost for the maintenance of a direct drive unit is about 2 cents per hour, which helps to save bucket loads on waste disposal fees, raw material and transportation costs by screening on-site.

“Grizzly screens have been replaced by our products, which handle materials once and so they save time. Also, the EX85 DD is truly portable, reduces hauling and labor costs, and provides rapid, easy separation of any material—scrap metal, vegetation, rocks and anything you can scoop up. Any operation that requires a primary separation process could benefit from using our



Flipscreen LLC

inexpensive, efficient product. Flip-screen has reinvigorated the way work is done at every type scrap recycling operation.”

Mark Kirsten, sales manager at SAS Forks said the company’s Extreme Auto Processor is “a maximum extractor of precious metals in end of life vehicles. A patented design and heavy duty build quality make this attachment the easy choice for auto salvage yards and scrap processors looking to extract more engines, copper wiring, aluminum and hard to reach catalytic converters. The SAS Extreme has the build quality and precision our customers demand and SAS Engineering designed it for installation on a wide variety of new and existing machinery. Many of our customers are moving away from standard crush and haul to shredder in favor of more diverse market opportunities.”

He continued, “SAS hydraulic adjustable forks are the ultimate in versatility. One set of forks can handle all your material handling needs without leaving the operator cab. With a wide array of functions at your fingertips, they offer better load stability along with fast, smooth attachment operation. Built with the same legendary toughness as our auto forks, our adjustable forks vs traditional hook mounted forks, have an average 65 percent more shaft mount weld for added durability. Due to a wide array of lifting requirements, our clients often need custom carriage widths and we can provide fork spacing from 2 – 260”. We offer several fork options for use with Conex container pockets and our hydraulic fork positioning allows

See ATTACHMENTS, Page B5

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Mark Vandenberg

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www.batemanmanufacturing.com

Bodine Mfg

Steven Becket

800-269-0257

www.bodinemfg.com

Builrite Manufacturing LLC

Jason Rice

218-834-5555

www.builritehandlers.com

Flipscreen LLC

Joshua Hill

214-223-3763

www.flipscreen.net

Iron Ax, Inc.

John Kitchens

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www.ironax.com

Kenco Corp.

Tracy Black

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www.kenco.com

Kinshofer USA

Francois Martin

800-268-9525

www.kinshofer.com

Moley Magnetics Inc.

Ron Slaby

716-434-4023

www.moleymagneticsinc.com

Pemberton Inc.

Tony Kaiser

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Braidy Industries changes name to Unity Aluminum

Unity Aluminum, the new name replacement for Braidy Industries, signifies the company's steadfast commitment to its customers, innovative technologies and local community in Ashland, Kentucky. The company plans to address a substantial global aluminum shortage impacting American jobs and economic growth. They also unveiled a reenergized vision, "Together. Lighter. Stronger. Greener."

Unity Aluminum's leadership team, led by globally recognized metals expert Don Foster, has accelerated its plans to build the world's most technologically advanced aluminum rolling mill at a time when global capacity is significantly constrained. They are currently working to finalize fundraising and begin construction.

"Unity Aluminum has a bright future. Based on the market needs, the initial positive customer response, and the shovel-ready position we are in, I am extremely optimistic," said Don Foster, president and chief executive officer of Unity Aluminum. "The name and vision, 'Unity Aluminum: Together. Lighter. Stronger. Greener,' reflects our commitment to successfully complete this project and follow through on our promise to be the preferred supplier of innovative, high quality, sustainable aluminum solutions. This will be accomplished by working in unity with our customers, employees, suppliers and local community."

Recent market assessments indicate a domestic shortage of 2.6 million metric tons of aluminum, and the

average age of domestic facilities is approximately 70 years old. Using a state-of-the-art, low emissions green-field manufacturing facility at EastPark Industrial Center in Ashland, Kentucky, Unity Aluminum is positioned to fill the domestic shortage and become the premier low-cost provider of 330,000 annual tons of production-ready series 3000, 5000 and 6000 aluminum sheet for the automotive, transportation and distribution markets. Future opportunities are available in the rapidly growing beverage can market, as well.

"Simply put, America is not producing enough aluminum to meet its own demands. Just to replace imports with American-made aluminum, the U.S. needs four new mills with production capacity similar to the one we are building in Northeast Kentucky," added Foster. "Not only can the U.S. increase production to manufacture our own materials like aluminum, but we can do it with American workers, creating jobs that support local economies – Unity Aluminum is proud to be paving the way for this great on-shoring comeback."

Unity Aluminum operates under the oversight of its five-person board of directors, led by successful Kentucky entrepreneur Charles Price.

Unity Aluminum's first project, a mill in Eastern Kentucky, is projected to generate more than 1,000 construction jobs, 550 full-time mill jobs and thousands of indirect jobs and additional investments in the region.

Grants for aluminum can recycling offered



The Can Manufacturers Institute (CMI) will make grants available in 2021 to Material Recovery Facilities (MRF) for aluminum can capture equipment, which will ensure used beverage cans (UBC) are accurately sorted, sold and recycled. Capturing and recycling aluminum cans provides a positive environmental and economic impact as metal recycles forever and UBCs are typically made into new cans.

Aluminum beverage cans currently provide critical revenue to MRFs. A CMI funded study concluded that without the revenue from UBCs, most MRFs, which are vital to the U.S. recycling system since they sort single stream recyclables, would not be able to operate. But, while UBCs are typically the most valuable commodity in the residential recycling stream, up to 25 percent of UBCs are missorted at a typical MRF. These missorted cans can be captured with the right equipment, which would pay for itself with the additional revenue.

Directly funded by aluminum beverage can manufacturers Ardagh Group

and Crown Holdings, the grant program will provide clear examples of the efficacy and revenue impact that additional aluminum can capture equipment can have for a MRF. The results are expected to encourage more MRFs to invest in additional aluminum can capture equipment. Further, Ardagh Group and Crown Holdings are exploring additional recycling programs that they, along with other partners, can implement to leverage additional aluminum can capture equipment in MRFs.

"With this new grant program, the aluminum beverage can industry is demonstrating its commitment to building on the industry's leading beverage packaging recycling rates," said CMI vice president of sustainability Scott Breen. "Capturing these missorted cans will result in significant additional revenue for recyclers and deliver significant carbon emissions reductions from greater use of recycled aluminum."

For a direct link to additional information, view this article on www.AmericanRecycler.com.

Attachments

Continued from Page B4



SAS Forks

operators to remain in the cab when switching from container to pallet spacing and centering the load on the carriage. Other hydraulic functions include side shift, rotate, tilt, or a combination of multiple functions, requiring only one hydraulic spool. Our forks can interface with most direct pin and quick coupling machines."

"SAS Forks can custom design and precision manufacture a solution for nearly any piece of machinery on

the market including wheel loaders, skid steers, tractors, back hoes, telehandlers and even excavators. We've served the salvage industry for nearly 50 years so we offer reliable guidance for applications that will best fit your operation. We provide a full line of maintenance and replacement parts and in stock components for fast shipment, to maximize client uptime. Our service is unparalleled in the industry."

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TROMMELS FROM BPS SEPARATE MATERIALS BY SIZE EFFICIENTLY

Trommels manufactured by Best Process Solutions are ideal for downstream applications that require the separation of materials by size.

Contents are moved to trommels via feeders or conveyors for an even flow rate. The rotating drum then allows for the contents to be sorted by size through differing screen apertures. Trommels can be designed to meet the needs of any application and include different tube shapes and multiple screening stages.

BPS manufactures a complete line of custom-engineered recycling and bulk material handling equipment.

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1071 Industrial Parkway
Brunswick, OH 44212
330-220-1440
www.bpsvibes.com



BCA OFFERS NEW TRIPLUS KNIFE SYSTEM TECHNOLOGY

With the patented Triplus knife system technology from BCA Industries, a standard shredder is changed into a hybrid between a rotary shear shredder and a single shaft granulator. BCA's knife system is capable of shredding, chipping and sizing any kind or size plastic in a single pass without a screen. A shredder utilizing this design can produce over 85 percent correctly sized material.

Specify the chip size needed, and it produces chips in that size. It works with wet or difficult to screen materials, and clean cuts those that create fines and dust.

BCA Industries
4330 West Green Tree Road
Milwaukee, WI 53223
414-353-1002
www.bca-industries.com



BLADECORE ANNOUNCES THE NICORE PREMIUM BLADE SERIES

BladeCore is a supplier of mobile shear and stationary shear blades and is now offering their new NiCore premium blade series. Made from specialized high alloy material with a 4 percent nickel content, these blades are yielding an average of 60 to 80 percent longer per edge than a standard blade.

During a trial with almost 75 customers, over 90 percent concluded that they preferred blades comprised of this material because of the additional output of processed scrap. NiCore blades are currently available through BladeCore for Fortress, Genesis and LaBounty shears as well as many other types of stationary shears.

BladeCore
155 Main Street
Superior, WI 54880
715-395-5813
www.bladecore.net



DOPPSTADT RELEASES SINGLE SHAFT SHREDDER, THE METHOR

Doppstadt's Methor was specifically developed for handling small volume flows. The advantages of Doppstadt's high performance technology is being made available to customers who frequently process or shred small quantities, particularly batches or materials that change frequently.

The flexible Methor is the only single shaft shredder in its class with bolt-on tools – and at the same time, the system with the largest selection of tools. It also features a hydraulic drive that continuously adapts the shredding system's performance to match demand.

Doppstadt
1265 Lear Industrial Parkway
Avon, OH 44011
440-937-3225
www.doppstadt.de



LABOUNTY ADDS SHEAR JAW TO UPX 1800 PROCESSOR

Stanley Infrastructure, manufacturer of industrial tools and attachments, announced that LaBounty added a shear jaw to its UPX 1800. This adds to the concrete cracker jaw already available with the 32,000 lb. demolition attachment.

The LaBounty UPX platform has one of the industry's best power-to-weight ratios, with a streamlined design and increased stress flow, which directly compliments increased power of newer, high-performance excavators. It delivers high productivity to help contractors complete large infrastructure projects in less time.

Stanley Infrastructure
6430 SE Lake Road
Milwaukie, OR 97267
503-303-2672
www.stanleyinfrastructure.com

AISI publishes cold-formed steel research reports

The American Iron and Steel Institute (AISI) has published two new cold-formed steel research reports: "RP20-4: Cold-Formed Steel Bracing Design Using Combinations of Discrete and Sheathing Bracing," and "RP20-5: Structural Design Example – Four Span Metal Building Z-Purlin Line Supporting a Standing Seam Roof."

"RP20-4: Cold-Formed Steel Bracing Design Using Combinations of Discrete and Sheathing Bracing" summarizes efforts related to establishing the behavior and design of cold-formed steel wall assemblies potentially braced by discrete steel bracing and wall sheathing. A focused series of experiments on wall stud assemblies in compression with different combinations of discrete bracing and sheathing bracing were completed. The testing indicated that sheathing bracing dominates the braced stud response and that brace forces in discrete braces do not accumulate when sheathing is present. Spreadsheets were developed to provide engineers with a clear and efficient means to predict the strength of studs with both discrete bracing and sheathing bracing. The research was conducted by Benjamin Schafer, Ph.D. under the purview of the Cold-Formed Steel Research Consortium.

"RP20-5: Structural Design Example – Four Span Metal Building Z-Purlin Line Supporting a Standing Seam Roof" provides an example step-by-step calculation of a new approach offered in Section I6.1 of AISI S100-16, North American Specification for the Design of Cold-Formed Steel Structural Members, 2016 Edition. Section I6.1 allows for the design of metal building roof purlin lines supporting a standing seam roof by analysis and calculation. The example purlin line structural analysis offered in RP20-5 considers load eccentricity, roof slope, and bracing from the roof clips and roof diaphragm. The example is automated with recently developed open-source software. The research was conducted by Christopher Moen, Ph.D., P.E. under the purview of RunToSolve, LLC.

"This research enables us to advance cold-formed steel design and guides us on next steps to take in standards development and technology transfer," said Jay Larson, P.E., F.ASCE, managing director of AISI's Construction Technical Program. "We appreciate the work of all the researchers involved and the review by members of the AISI Committee on Specifications and the AISI Committee on Framing Standards."

Precious metals

■Continued from Page B1

"There are limited alternatives for the consumer, so the e-waste is accumulated, stockpiled and forgotten," Crockett said. COVID aside, Crockett said metals recycling and the e-waste market looks promising as new opportunities and "cleaner" process technology have been introduced.

"5G will introduce new growth areas, however as e-waste is taking over the world, toxicity will be an area to address," Crockett said.

Currently Tanaka receives material from "urban" mines in which some of the precious metals are recovered and refined. "We use some of the recovered precious metals to remanufacture products." An example of this, Tanaka recovers scrap mufflers from automobiles (urban mines), and refines them using a safe and environmentally friendly system that provides a high return ratio. This solid material can be used to produce sputtering targets, IC package test pins and various thick film paste/epoxies which are all used to manufacture new electronics.

"Tanaka is committed and constantly adapting, gaining trust and meeting the diverse needs of our customers around the globe," Crockett said. "The challenge of the future is to continue to offer 'total solutions' for our diverse customer base and to remain efficient and operate in a rapid manner."

What the Future Holds

Grixti believes that metals recycling will play a pivotal role in raw

materials supply chains going into the future. "There is currently an ever-increasing push to create local supply chains for raw materials to decrease the dependence on global trade," he said. "There is also growing pressure to increase the sustainability of our supply chains. Metals recycling is something that contributes to both these efforts."

One area that COVID has particularly affected is the collection of materials for recycling. Additionally, the collection methods for certain materials will need to change. For example, a lot of batteries and e-waste are— or were —collected through drop-off bins at office buildings and workplaces. "With everyone working from home these days, these collection methods have not recently been as effective," Grixti said. This collection issue may persist into the post-COVID world as many companies are ditching their office spaces for 100 percent remote work.

While we would ideally like to see open free markets be the catalyst for recycling, Smith doesn't think that they will be sufficient to spur significant improvements in metals recycling.

It's going to require leadership from the government, particularly the federal government, to spur the types of changes that are necessary," Smith said. "This will be particularly true to help markets recover post-COVID. Leadership must include some financial stimulus along with a clearer path on how these markets need to change over time."

Arconic reports third quarter 2020 financial results

Arconic Corporation announced third quarter 2020 results, with reported revenue of \$1.4 billion, up 19 percent from the prior quarter due to strength in automotive end-market volumes which recovered fully from the second quarter and exceeded third quarter 2019 levels. Year over year, revenues were down 22 percent reflecting weaker volumes across all end markets other than automotive primarily due to the impact of the pandemic. The company reported net income of \$5 million, or \$0.05 per share, in third quarter 2020 compared with a net loss of \$24 million, or \$0.22 per share, in third quarter 2019.

Third quarter 2020 Adjusted EBITDA was \$165 million, which was impacted by the pandemic and partly mitigated by cost reduction actions. Adjusted EBITDA margin was 11.7 percent, primarily due to the proactive cost reduction actions. Cash provided from operations was \$240 million resulting in quarter-end cash on hand of \$802 million. The company ended the quarter with total available liquidity of approximately \$1.5 billion.

The company expects full-year 2020 revenue to be in a range of \$5.6 billion to \$5.7 billion (assuming LME aluminum price of \$1,660/mt and Midwest Premium of \$270/mt for the full year). Adjusted EBITDA for the full-year 2020 is expected to be in a range of \$610 million to \$630 million. Cumulative free cash flow for Q2 2020 – Q4 2020 is expected to be in a range of \$150 million to \$200 million.

During the third quarter of 2020, the company changed its inventory cost method to average cost for all U.S. inventories previously carried at last-in, first-out (“LIFO”) cost. The company’s heritage on LIFO extends back to 1955 as an aluminum producer. As the company has changed, the use of LIFO does not fully align with our operations as an aluminum converter. The company determined, as a result of its recent separation from its former parent, that the environment was appropriate for the

company to simplify its inventory cost accounting method. Management believes the average cost method more closely reflects the physical flow of inventories, improves comparability of the company’s operating results with its industry peers, and provides an increased level of consistency in the measurement of inventories in the company’s consolidated financial statements. This will result in both alignment with management’s internal evaluation of the business and provide greater visibility into the company’s operating results. The impact of this change will not have a current cash tax impact considering the company’s significant tax attributes primarily related to pension, other postretirement benefits, and environmental liabilities. The effects of the change in accounting principle from LIFO to average cost have been retrospectively applied to all prior periods presented in the company’s consolidated financial statements. The effect of this change in accounting principle as reported under average cost in third quarter 2020 compared with the amount had it continued to be reported under LIFO, was a decrease of \$14 million to cost of goods sold. Comprised of a \$26 million benefit for the elimination of the incremental LIFO cost associated with inventory sold during the period and a \$12 million charge to establish the incremental cost on an average cost basis for inventory sold during the period. Accordingly, effective in the third quarter of 2020, management refined the company’s Adjusted EBITDA measure and Segment Adjusted EBITDA measure to remove the impact of metal price lag, which was negative \$16 million in the third quarter. This change was made to further enhance the transparency and visibility of the underlying operating performance of each segment by removing the volatility associated with metal prices.

Three steel companies receive Ohio EPA recognition

Ohio EPA director Laurie A. Stevenson announced that TimkenSteel, Vallourec Star and Charter Steel, along with other honorees of the Encouraging Environmental Excellence program, have shown a commitment to environmental stewardship.

“Through recycling efforts, waste-reduction processes, renewable energy programs, and sustainability programs, these companies are making a major impact in their communities,” Stevenson said.

The award is given in four levels of recognition: achievement, silver, gold and platinum. TimkenSteel and Vallourec Star were among the Gold-level recipients.

TimkenSteel was recognized for its water treatment plant, which uses alternative coagulants that have reduced chemical use by 90 percent.

Vallourec Star was recognized for reducing energy usage for its electric arc furnace, purchasing 86 percent of power from “zero carbon emitting sources,” recycling 45,000 gallons of wastewater annually and reducing water consumption.

Charter Steel’s processing and distribution facility in Fostoria, Ohio, was recognized for reducing its use of shipping plywood and reducing solid waste generation; reusing shipping supplies; and for a facility-wide energy efficiency program.

U.S. EPA settles with metal finishing company

The U.S. Environmental Protection Agency (EPA) announced a settlement with Automation Plating Corporation over federal hazardous waste violations at their metal finishing facility in Glendale. Under the settlement, the company will pay a \$49,706 civil penalty.

“Metal plating facilities must ensure they comply with hazardous waste laws to prevent harm to workers and the surrounding community,” said EPA Pacific Southwest regional administrator John Busterud. “Improper management of hazardous waste can lead to fires, explosions or release of hazardous waste into the environment.”

EPA inspected the Glendale facility in 2019 with the Glendale Fire Department. The inspection identified violations of federal Resource Conservation and Recovery Act (RCRA) regulations.

As a result of the inspection, EPA determined that Automation Plating Corporation:

- Failed to make a hazardous waste determination for certain wastes generated at the facility.
- Failed to prepare a manifest for shipment of hazardous waste.
- Stored hazardous waste without a permit beyond the 90 days allowed.

•Failed to comply with the labeling requirement for some hazardous waste containers.

•Failed to keep a hazardous waste container closed.

The facility has since resolved these violations.

In addition to paying the penalty, the facility also agreed to develop and implement a standard operating procedure for inspecting and maintaining containment systems associated with plating operations, including but not limited to: preventing debris from accumulating; inspecting for cracks in and deterioration of secondary containment systems; and ensuring epoxy coatings are inspected and repaired.

Metal finishers use a plating or anodizing process to coat industrial metal, and typically generate hazardous wastes including: sludges containing heavy metals such as chromium, cadmium, and lead; spent plating solutions containing metals or cyanides; flammable liquids; and both alkaline and acidic corrosive liquids. U.S. law requires metal finishing companies to properly manage hazardous waste to prevent harm to human health and the environment and to prevent costly cleanups.



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