



SUSTAINABILITY TODAY

Issue 432 March 2022

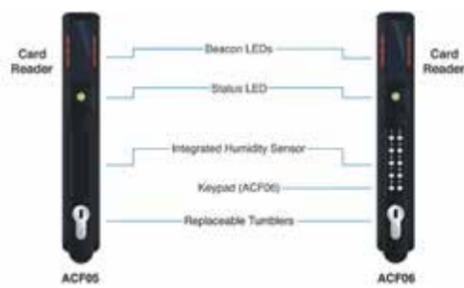
Tel: 0121 550 7510

www.businessandindustrytoday.co.uk

energy | water | waste | recycling | sustainability on LinkedIn

SmartZone G5 Security Handle offers secure dual authentication

Panduit has launched the SmartZone™ G5 Security Handle for ITE cabinets, which is designed to meet the most rigorous security challenges, both physical and digital, in today's data centre environments. The multi-functional smart handle offers multiple configurations with and without a keypad to complement users' operational requirements. The integrated keypad version enables dual authentication by allowing for a card swipe and pin-code combination to access the cabinet.



cabinet security needs.

It can support 200 authorised users and features an integral humidity sensor allowing humidity sensing to be optimally placed near the centre of the cabinet. The Status LED provides visual indication of the handle and security status. The Beacon LED is a visual indicator to provide status of the health of the cabinet at-a-glance. The beacon will flash yellow when the cabinet is in a minor alarm or flash red when the cabinet has a critical alarm. Users can use the beacon's locate function to flash the beacon a defined colour to easily locate the cabinet in a long run of cabinets.

Contact www.panduit.com

The G5 Security handle seamlessly mates with most data centre cabinets and has the capability to read both low frequency (125kHz) and high frequency (13.5MHz) cards. The handle has been designed to be current and future compliant with regulations required within this environment and is also GDPR ready, HIPAA ready and PCI-DSS ready to ensure that this design meets data centres and users'

Van-tastic...

Stockton-on-Tees based Doug Pope Heating Services has driven off in a brand new Nissan e-NV200 thanks to Wolseley and Baxi.



The amazing four-wheeled prize was up for grabs to one lucky customer who bought a Baxi boiler from the 200, 400, 600, 800 and Platinum plus ranges, either in branch or online, directly from Wolseley – and the winning name drawn out of the hat was the north-east of England business.

Collecting the sparkling new van from his local Wolseley Plumb & Parts branch in Stockton, Doug Pope, said, "We have installed Baxi boilers and have been an account holder at Wolseley Stockton for a long time.

"Baxi boilers are easy to install and service. The aftercare service from both Baxi and Wolseley is second to none. Of course, winning the van today

is a huge perk!

"With the rising cost of diesel and the government scrappage scheme, banning all diesel vehicles from 2030, this allows us to future-proof our company along with reducing our carbon footprint. We have been looking into hybrid and electric vehicles for our fleet.

"It's allowed us to meet our own goals with regards to being carbon neutral sooner than planned."

The electric van features a 40kWh battery and Nissan Intelligent Mobility, with a maximum range of 187 miles in city.

Contact www.wolseley.co.uk

Dreamtek acquired by System One

Dreamtek, a global video production company based in London and New York, is delighted to announce that it has been acquired by System One, the 5th largest Creative Staffing firm in the US. The strategic acquisition will see a significant evolution and expansion in Dreamtek's services and expertise on a global scale as the company joins forces with TeamPeople, a division of System One.



Growing the creative and digital division of System One, the acquisition will see Dreamtek and TeamPeople collaborate and offer creative video and broadcast production services, live, virtual and hybrid event expertise, and advanced technical production knowledge. Combining Dreamtek's technological and production expertise with TeamPeople's creative and technical multimedia staffing, recruiting and workforce solutions experience, both companies now have the added capabilities of managing global services from conception and planning to build, delivery and operation.

Drawing on Dreamtek's proven

track record in delivering creative video production services and development of broadcast products and software, TeamPeople is now able to expand its mission to build dynamic media teams for a variety of outlets, including in-house studios, creative services, video content creations, marketing operations, and live and hybrid events. With a diverse range of clients between the two companies – from Dreamtek's work with some of the world's biggest tech, social media, and fashion brands to TeamPeople's work with four of the largest international NGOs in the world and a roster of US Fortune 500 companies – the acquisition opens up new services and expertise for existing clients and offers new clients a fully-integrated service.

Contact www.dreamtek.tv www.teampeople.com

Applied Rubber Linings Ltd

Process Plant Liners

Serving the Mining, Quarrying, Water, Metal Finishing, Process and Marine Industries

Abrasion and chemical resistant rubber linings for sand washing plant, process vessels and pipework, valves, mixers, filters, storage tanks and shot blasting equipment.

Tel: 01452 381849 www.applied-rubber.co.uk

fuelGenie mobile app updates to help SMEs

SMEs are benefiting from the latest updates to the fuelGenie mobile app from the leading fuel card provider, enabling even greater functionality while enjoying low cost fuel.

Among the updates to the app, already popular with nearly 40,000 downloads, is the additional functionality that enables businesses to manage their drivers' card details directly from the app.

This now includes viewing the full card details including name on the card, vehicle registration and any card limits set, with the ability to edit the card details quickly and easily.

There is now a function to edit card details that require a new fuel card to be issued, which will result in a new fuel card being



automatically generated and sent out to the business address listed on the account.

Businesses now have the option to view cancelled cards, enabling them to keep a detailed record of all the fuel cards that have been issued.

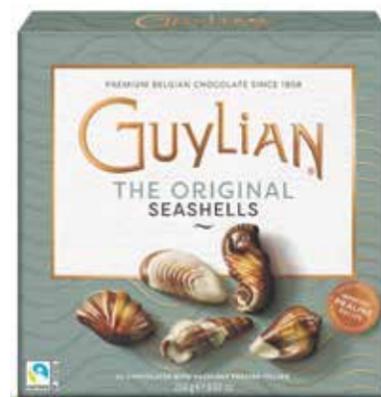
The updates have made it easier for businesses to manage business fuel invoices, including viewing current and past invoices listed by date, and downloading invoices to a mobile device in a PDF format.

To learn more about the fuelGenie app, visit: www.fuelgenie.co.uk/business-fuel-card-benefits/the-fuelgenie-app/

Chocolaterie Guylian unleashes full relaunch

Chocolaterie Guylian, world famous for its chocolate sea shells, is carrying out a thorough modernisation. The chocolate with hazelnut praliné, sold across four continents and in 120 countries, now comes in new packaging and with an upgraded recipe. Guylian is also taking its responsibility regarding sustainability seriously and has the ambition to be the sustainability leader in the chocolate industry.

After almost 60 years of conquering the world, the Guylian brand is in need of a metamorphosis, in more ways than one. "By changing our design and brand, we also want to introduce a broader target group to the unrivalled taste of our premium Belgian chocolate," says Tom Snick, CEO of Guylian. "The packaging will have a more contemporary and fresh design, while retaining the luxurious look."



From relaunch, Guylian will offer a selected limited curated range, which will be available all year round. The focus is on the seashells and seahorses, as well as on the 'Temptations' (individually wrapped seahorses) and our range of 100g premium bars. In addition, Guylian will be launching themed packaging around the key gifting occasions of Valentine's Day, Mother's Day, Easter and Christmas. Finally, the packaging for the duty-free channel will also get a makeover. The new packaging will be available in store from April.

As one of the most influential names in the Belgian chocolate industry, Guylian also has a responsibility to strive for a better planet for future generations. That is why it puts sustainability high on the agenda.

Contact www.guylian.com

Sustainable waste extraction and separation solutions

In this issue of Sustainability Today, we are delighted to announce that we have chosen to present our Industry Excellence Award to Impact Air Systems for its outstanding efforts in sustainability, quality and performance of its air-based waste extraction and material separation solutions.

"Our parent company has a strong corporate objective to support sustainability, so being recognised for this award, displays our work in accordance with this. At the core of our business, we support our customers by developing robust solutions to help minimise their environmental impact and increase the volume of materials being recycled. We also work extremely hard to ensure our own operations are environmentally friendly, so to accept an award that fully supports our overall business model is something we are extremely proud of," stated Dave Lansdell, Impact's Technical Sales Director.

Impact Air Systems is based in Leicester and was established in 1989. Since it began, the company has developed a vast range of solutions and is now an internationally recognised company, completing projects on almost every continent and offers a total solution that reflects engineering at its best. With a passionate and dedicated team of staff, Impact has continued to develop the business and achieve year on year growth.

As an industry leading air technology specialist with over 30 years' experience in providing air systems around the world, Impact's mission is to continue developing innovative solutions that affirms its position at the forefront of its industry, providing customers with solutions that meet their specific requirements as well as enable them to recycle more and work towards a zero-waste target.

"We specialise in air-based material conveying and material separation solutions. We categorise the business into three main areas, waste and trim extraction and material separation systems, that can be applied to many industry sectors. In 2008, we diversified slightly to a much broader recycling industry and reapplied our own technology to separate materials based on density, size, and shape to support the increased expansion of household and curb side collections, and for this, we work with a lot of major UK and overseas recycling facilities. Thirdly, our environmental solutions enable us to offer dust and fume and odour control systems for those sectors," said Dave.

There are numerous industries to which Impact Air Systems provide solutions for, including recycling and industrial production facilities for printing, corrugated and carton board, foil and film, and beverage can. But what makes Impact Air Systems so significant to the industry, is its long-term established relationships. "Many of our clients have worked with us for decades. We have an impressive range of air-based solutions, and our team has exceptional knowledge of these as well as our clients' processes, which



we believe, is why a large percentage of our business comes from repeat custom. Our solutions provide outstanding results, and that is why our clients choose us again and again. We are always looking for ways to add value to a process through the application of our solutions," said Dave.

Impact Air Systems waste and trim removal systems are designed and installed to remove waste and off cuts from the manufacturing process of paper, carton board, foil, and film trim, can scrap, tissue and sticky label web. From full turnkey trim extraction systems to standalone extraction units, industries such as print, packaging, label and beverage can, will find everything needed to resolve all waste and trim extraction problems. Experience gained from serving a vast array of industrial sectors, means technology designed for one sector can often be applied to a completely different application.

"We witnessed a significant increase in demand for our solutions and services from the packaging sector during the early parts of COVID-19 due to an increase in online shopping and ecommerce trading. Production output increased for large, corrugated and carton board packaging



companies such as Smurfit Kappa. The beverage can sector also exploded, which was positive for us as we have a large presence in this sector providing various solutions to many of the big-name manufacturers such as Ball Packaging. With thirty years of trading under our belt, we have a vast range of experience and knowledge of a broad range of industries from printing and packaging manufacture through to automotive, we cover it all," stated Dave.

Impact Air Systems also provide operation enhancing solutions for large ecommerce and fulfilment giants and major supermarket distribution centres, where the increase of online shopping has seen them struggle to handle unwanted flexible materials such as plastic film, cling pallet wrap, bags, and other flexible materials. "We offer solutions to these facilities to help them manage the huge volume of waste packaging and other flexible materials that come from deliveries and returned items. Our focus is to support these facilities with pneumatic conveying solutions, collecting waste materials from numerous positions within the facility and conveying them to one central recycling area, improving their overall ability to recycle those items," commented Dave.

The result? No more bins, slip hazards or waste cages and a higher sorting efficiency, meaning the standard of recycling is vastly improved at source, resulting in a greater reduction in handling and transportation costs and treatment fees at the waste sites.

Twelve months ago, Impact Air Systems re-engineered its popular density separation solution, the Zigzag Air Classifier (ZAC) due to increasing demands from clients who requested a higher throughput version. Combining its highly skilled in-house engineering team, 3D modelling software and working in conjunction with its carefully selected external supplier base,



the ZAC1200 includes all the same features as smaller models but operates at a 50% higher capacity. The ZAC1200 handles up to 36m³/h and has been re-engineered for the separation of waste material such as glass, SRF and aggregates.

The machine offers a fast return on investment, small footprint, and innovative engineering with one customer commenting on the system, "We process around 75,000 tons of construction and demolition waste a year and with the ZAC800 we can process the sub 40mm fraction and very effectively achieve a mix of clean glass, stone and ceramic that can be used in our recycled aggregate facility. Investing in Impact's ZAC800 was an easy decision for us, Impact carried out a detailed trial on our material and the results that were promised, have now come to fruition. It can process waste streams at a high hourly throughput with material recovery results that are very impressive. The value in the cleaned glass and stone stream and Solid Recovered Fuel (SRF) stream paid for the machine within the first 6 months of operation. The payback on this system has been so good, we've ordered another one!"

Impact Air Systems also has a strong presence in the US, as well as Europe and Japan.

Dave concluded with overseas plans for Impact, "Going forward, we wish to expand our presence and focus on the US, where we have been trading for over eight years now. We have strong partnerships across the waste management/materials recovery sector and with packaging manufacturers alike, so we plan to explore these areas further. With the global aim of reusing and recycling more, and with sustainability in mind, we are excited for the future of Impact's success."

For more information, see below.

T +44 (0)116 244 8855
sales@impactairsystems.com
www.impactairsystems.com



Prepare your business for the new Plastics Packaging Tax



In this issue of Sustainability Today, we are pleased to announce Cromwell Polythene as our Recycling & Waste Management Company of the Month.

Cromwell Polythene is an independent, UK family run business that has been supplying and manufacturing products for the capture and containment of waste and recyclables for nearly 40 years. Originally based in Tockwith, near York, Cromwell Polythene is now headquartered in Sherburn in Elmet, Leeds and has a manufacturing and recycling division in Alfreton, Derbyshire. Specialising in waste management, recycling and cleaning industries, Cromwell Polythene also caters to a wide range of sectors including health care, food service, building and construction, and industrial.

Established in 1983 by James Lee, Cromwell Polythene's mission has always been to be the most resourceful company in plastics, supplying products that help make the world cleaner, greener, and more resourceful. Their vision underpins the mission statement, and to this day the company continues to supply a comprehensive range of products with the highest recycled content possible, that are reusable, recyclable, or compostable. The range includes polythene and compostable waste & recycling sacks liners and bags, and packaging film including Single Wound Sheeting, Double wound sheeting and Lay Flat Tubing.

"We select the best solution for our customers based on their requirements. Many of our



products are CHSA accredited giving our customers the reassurance 'what's on the box is in the box'. Quality standards are ensured by our in-house quality team who test our products before they are released for distribution," stated Alex Lee, Commercial Director.

As well as its extensive product portfolio, Cromwell Polythene also prides itself on setting high standards for its dependable services, reliable knowledge and long-lasting relationships. One notable service is the Polythene Recovery Service, a used polythene recovery service which is used to help its customers be more resource efficient. "Our service is a great way of keeping valuable resources within the circular economy by returning clean polythene packaging to the production cycle. Used polythene is collected from our customers on a back-load basis, then recycled in the UK – by ourselves or by one of our partners. Benefits for customers include reduction of waste disposal costs and regular reporting of packaging returns for recycling," explained Alex.

With the introduction of the new Plastics Packaging Tax due to commence from April 2022, many businesses should be preparing for a new tax that will apply to plastics packaging manufactured in, or imported into the UK, that does not contain at least 30% recycled plastic. Alex commented, "While most Cromwell



Polythene products range from 95-100% recycled content, and are not liable to taxation, the increase in demand for recycled content is leading to higher pricing. If 30% recycled content and above is not possible, businesses need to prepare for the additional £200/tonne premium applied to their plastic products. It is important to note that the PPT will also apply to EN13432 accredited compostable plastics. Compostable products shall largely be classed as 'virgin' and therefore subject to the same tax as conventional, fossil-based plastics." More than 95% of Cromwell Polythene's products already meet and comply with this new legislation. By manufacturing, producing, selling and using recycled packaging products, Cromwell Polythene is already helping to reduce the levels of virgin materials being sent to landfill.

Cromwell Polythene has always been at the forefront of innovation, continuously improving the performance and efficiency of its operations to provide the best solutions for its clients and the industry. 2021 saw many complications and disruptions to lead times and stocking processes. Alex explained some recent changes the business has made to combat these issues, "We have recently consolidated our range to help provide the best solutions to our customers. Our recent efforts in our SKU rationalisation and consolidation project will allow us to stock higher quantities of a rationalised number of lines, thus offering customers ever improving reliability in their supply of quality products at the best price, despite the ongoing disruption further up the chain."

One positive effect from COVID-19 has been the increasing awareness and importance of practicing good cleanliness and hygiene in the workplace. Cromwell Polythene has received substantial demand from particular companies within the healthcare, clinical and specialist waste collection sectors that provided a platform for the business to promote its products

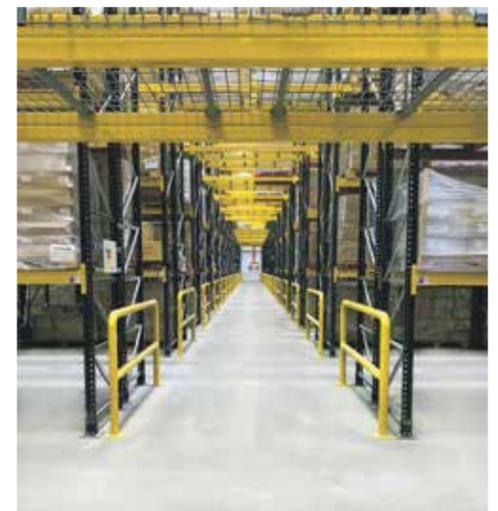


and share the importance of good waste management. "Many of the other aftermaths from COVID-19 are still being tackled such as supply chain disruption and increasing costs. Our plans will be well-placed to ensure we are well prepared for the future," stated Alex.

A successful company is nothing without the support, hard work, dedication and loyalty of its customers and employees. In closing, Alex shared his appreciation, "It is always worth thanking our loyal customer base for their ongoing support. As well as our supply partners and in particular the staff who are making everything happen. We have a great team of people at both sites working hard to continually make what we do better."

For more information, see below.

T 01977 686868
info@cromwellpolythene.co.uk
www.cromwellpolythene.co.uk



A volt from the blue... the UK's FIRST 35 tonne Terex Fuchs electric material handlers head out on long term contract hire

The UK's first Terex Fuchs MHL 850F electric material handlers head out on long term contract hire and aid Lancashire Renewables Ltd commitment to cut carbon emissions.

For the last decade, Contract Plant Rental have been providing bespoke contract hire solutions to a wide variety of sectors, satisfying the specific needs of customers nationwide. Proud to provide the latest machinery from the industry's leading manufacturers and suppliers, these latest two Fuchs material handlers are certainly no exception.



The UK's very first Terex Fuchs electric powered material handlers, supplied by Blue Machinery (Central) Ltd landed on long term hire with Lancashire Renewables Ltd recently, who wasted no time putting them straight to work. The first electric machine will be feeding their waste plant in Thornton while the second will be loading MSW waste at their site in Fleetwood.

As local authorities and businesses nationwide look to meet net zero emissions targets, Lancashire Renewables Ltd welcome the UK's first fully electric 35 ton waste handlers to the industry. Today the attitude to electric and battery powered vehicles and machinery is changing rapidly with many businesses already investing in electric powered cars, vans, sweepers and refuse trucks. Supplied by Blue Machinery (Central) Ltd via national contract hire specialists, Contract Plant Rental, Lancashire Renewables Ltd look set to make an impact with their new electric powered machines.



Lancashire Renewables Ltd Procurement Manager, Alistair Pope, explains, "Following an open and successful tender, Contract Plant Rental fully understood and supported our operational requirements to the fullest extent; with their selection of the Fuchs MHL850F promising to be a formidable piece of equipment." Adding, "Lancashire Renewables Ltd are excited at the prospect of a continued relationship with Contract Plant Rental and the support to move towards more environmentally friendly equipment."

In addition to the increasing drive to reduce emissions across the country, the recently announced abolition of red diesel, a popular fuel used in the heavy machinery sector, means come April 2022 many businesses are set to see a significant rise in their fuel bill. Sean McGeary of Blue Machinery (Central) Ltd comments, "I feel that 2022 will see a significant increase in the demand for electric machines across the spectrum for traditional diesel hydraulic mobile machines. This is more so for machines where mobility is not the primary function, eg. Material Handlers, Crushing, Shredding & Screening Trains. There is a convenience to have the machines with mobile capability, but they typically work on one site without regular movement. The demand will increase due to the change in diesel tax legislation as well as a general change in attitude across the construction associated sectors for decarbonisation and planning for the future."



The Fuchs MHL850F electric drive material handler is designed and built specifically for waste, scrap and port applications, destined to be reliable, economically efficient and environmentally friendly in one. On long term hire by Contract Plant Rental, the Fuchs material handlers offer zero emissions, no exhaust gasses and significantly reduced noise and heat output. The low energy consumption enormously reduces the environmental impact and the low maintenance costs provide a huge benefit.

Not just better for the environment, the electric powered material handlers offer more efficient working hours, reduced operating costs, up to 60% saving compared to diesel powered equivalent

machines all without compromise on the performance and quality. The electric motor means low operation and service costs as oil changes, servicing of moving parts of the diesel engine and refuelling are no longer necessary. The electric cable lengths and cable reel designs on the Fuchs electric machines are adapted to each customer's specific requirements. The machines can be equipped with an internal or external powerpack, to move the machine around the yard efficiently. As an additional benefit, the full torque is immediately 100% available when operating which gives more output than traditional diesel-powered machines.

Richard Creighton, Operations Manager for Contract Plant Rental, adds, "As electric cars become a staple on our roads it's only natural that all diesel-powered plant will be heading in that direction, its advantages in terms of running costs and operator health benefits make it the obvious choice for a wide and varied number of applications. As custodians of the industry for a relatively short period of time, we owe it to the next generation to look for processes that not only look after our own health but also that of the planet. The waste industry continues to spear head the move from landfill to recycling, the move to electric machines powered by

carbon neutral, solar and wind power will be a natural progression from its diesel-powered predecessor. Saving money on fuel with the aim of zero emissions."

Set on creating a cleaner and more sustainable future together, Contract Plant Rental look forward to working with suppliers and customers alike nationwide to help combat climate change.

Contact
T 01933 232663
info@contractplantrental.com

PINK ELEPHANT GROUP

Sustainability Across Clothing Retail.

We're working alongside UK clothing, home textiles, sportswear and work wear retailers, to transform the entire supply chain of textiles, as well re-use and recycling sector.

Supply.
Re-use.
Recycling.

+44 (0)116 326 3262
www.pinkelephantgroup.co.uk

Textile re-use
Textile re-use helps save the environment by reducing waste at landfills and offers people across the world with affordable apparel. Textiles make up about 3% of household waste, and more than 1 million tonnes of textiles are sent to landfill each year, according to estimates.

Textile Collection
We provide a professional and efficient service through collaborating with local authorities, government agencies, and private businesses. Collected textiles are meticulously sorted, then graded for further re-use and supplied, depending on quality, to end users. We strive for the highest quality reusable products and apparel that can be re-used rather than disposed of in landfills since we focus on re-use.

Home Collection
Refuse, reduce, re-use, recycle!!! We may arrange one-time or recurring collections, and our service is swift, attentive, and polite. This service is offered to individual members of the public, who have no time to go to the recycling centre or simply want to find a better use for things they have. We can help!

Recycling UK Limited

Recycling UK is one of the largest independent recycling companies/traders in the United Kingdom.

From its head office at Tarporley, Cheshire, and associate processing plants throughout the UK & Ireland, it can cover most recycling needs. It also has office/joint ventures in Mumbai, India, and Waterford, Ireland.

It is a trader of all grades of waste paper & plastic in the form of bulk loose, baled, or palletised material, surplus or damaged



reels & redundant stock of paper and plastic packaging and supply material to customers in the UK, Europe, India and throughout Asia.

Its wholly owned subsidiary OWP Ltd processes over 1,500 tonnes per week at a dedicated plant at Oswestry situated on the England/Welsh border with material collected by various means within a 150 mile radius. It also collects material throughout the UK and Ireland using trailers for delivery to Oswestry or to one of our associate processing plants.

Please contact our commercial team on +44 (0)1829 732471 or email: commercial@rukgroup.com or visit: www.rukgroup.com

The EDGE VS420 tried, tested and proven



With decades of knowledge in the design, manufacturing and installation of mobile waste shredders, it is no surprise that EDGE Innovate's VS420 twin shaft shredder released in March 2020 is quickly gaining a reputation as a world class shredder. With several units already installed in the UK, many British waste management companies have been quick to recognise the operational benefits of the VS420 with its capabilities and versatility being proven in wide range of applications from municipal skip waste to wood waste.

Popular design features

The VS420 offers operators a host of design features such as an intelligent load management and a VS Status Alert System which combine to ensure the efficient loading of the shredder leading to consistent high throughputs with minimal downtime. EDGE's 'track and shred' functionality compliments this combination, allowing the VS420 to be reposition without the need to stop shredding.

Performance

The high material throughputs achievable by the VS420 is made possible thanks to a set of 2m long, high torque shredder shafts that can be customised to suit a customer's exact application and to create their desired product piece size. EDGE Innovate offer a wide range of tooling options and chamber configurations to ensure that the VS420 is set up to achieve the best results for its operators. EDGE's twin shaft design provides exceptional material intake, ensures less wear, promotes self-cleaning and prevents material wrapping even in the toughest of applications.

The chamber is controlled via the latest EDGE Operating System (EOS) which is designed for improved user-friendly controls and gives operators greater control over program settings, shaft speed and reverse cycles.

The EDGE VS420 is powered via a Caterpillar C9.3B Tier 4 Final/Stage V ACERT engine with a power rating of 310Kw (420HP). Fuel consumption is 9% less than comparable Stage IIIB engine options.

Operator safety & maintenance

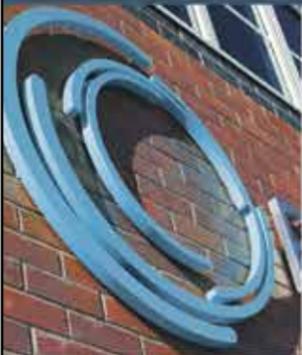
The VS420 has been designed around the operator to ensure enhanced operational and maintenance safety. For example, EDGE's uplifting power unit, radiator and chamber doors ensure superior maintenance access which is complimented by the VS420 'One Point' service area which enables daily maintenance checks to be done easier and quicker. The EDGE VS420 also offers added remote functionality as standard. All major functions on the VS420 including tracking, tipping hopper, shafts speed, engine speed, shaft reverse cycle, discharge conveyor working angle and magnet position can be remotely operated from a safe distance of up to 100m or in the comfort of the loaders cabin.

EDGE Innovate's next generation shredder; designed for high capacity shredding, reliability and low operational costs.

For more information on EDGE's range of next generation shredders, please visit: www.edgeinnovate.com



UK RECYCLING & GLOBAL TRADING



Industry leading service since 1998



National collections by trailer, container or multilift bins



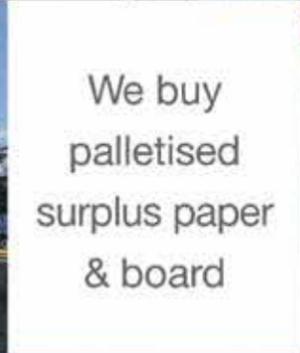
Local and national security destruction



We can supply compactors & balers



We buy baled waste paper & cardboard



We buy palletised surplus paper & board



Consulting & facilities management

Tel: +44 (0) 1829 732471

10 Portal Business Park, Eaton Lane, Tarporley, Cheshire, CW6 9DL

Visit our website www.rukgroup.com

Email: General info@rukgroup.com Sales/Trading/export sales@rukgroup.com

A far cry from a fleeting success

In this issue of Sustainability Today, we are pleased to announce Synergy Recycling as our Recycling Company of the Month.

Synergy Recycling are a haulage and recycling company that specialise in gas cylinder and pressure vessel collection and recycling. "We collect from waste sites, businesses, individuals and councils across the UK and bring these cylinders back to our permitted facilities for on-site recycling or onward disposal providing a full audit trail for our customers. We also specialise in high risk, ad-hoc collections such as fly tip and emergency situations often liaising with the emergency services," stated Sam Roud, Director at Synergy Recycling.

Established in 2001 by Simon Roud, who is the Managing Director, Synergy Recycling is headquartered in Canterbury, Kent, with a further site situated near Chester. Holding ISO 9001 and 14001 certification, Synergy Recycling are also members of the United Kingdom



Liquid Petroleum Gas Association (UKLPG); British Compressed Gas Association (BCGA) and Chartered Institute of Waste Management (CIWM), Brewing Food and Beverage Industry (BFBI). "We are fully compliant under all regulatory bodies and therefore offer a full audit trail for compliant disposals to our customers. We also put the customer first and keep them informed every step of the way through our friendly team from the point of their request for a quote, to the point the collection agent leaves their premises," explained Sam.

Synergy Recycling operates a state-of-the-art fleet of specially designed vehicles. All drivers are qualified to transport high consequence

hazardous goods by road through all classes of ADR including bulk tankers, and even in the specialist fields of classes one and seven such as explosives and radioactives. Further to their extensive and specialist ADR qualifications, its drivers are trained by its in-house experts and Dangerous Goods Safety Advisers (DGSAs) to be able to readily identify pressure vessels while on clients' sites to ensure that they are loaded and transported compliantly.

Synergy Recycling undertakes vital work with the emergency services utilising its capabilities to transport gas cylinders that would ordinarily not be fit to be transported by road or sea in encasement vessels. Its fleet consists of some of the most highly specialised vehicles on and off the road from Fendt 828 high-power rough terrain tractors, HAAS material shredders, Mercedes mobile welfare units, to its regular collection fleet of Mercedes Sprinters, Volvo FH750s and Scania S730s.

From training to transport, Synergy Recycling also provides a gas cylinder safety awareness course, which is a professionally run course designed specifically to train civic amenity sites operatives regarding awareness, identification, segregation and safe handling of gas cylinders.

With a keen focus to acquire further work with county councils and waste authorities, Sam mentioned some recent changes that have occurred within the company. "We have reformatted the company to work more closely with our sister company within the group, Excel Remote Zone Solutions. Excel specialises in complex overseas military



hazardous disposals working in areas such as the Falklands, Afghanistan, Ascension, and Cyprus. The two companies now work in tandem and share the same fleet and staff, operating under the umbrella of the Synergy Excel Group."

COVID-19 has cast many limits upon businesses over the past two years, and Synergy Recycling has felt the pressure. However, its strong business model and ability to adapt and overcome has enabled the company to fully retain all members of staff and has since continued on its path of success following the reopening of the waste sites that were closed throughout the lockdowns. "We made provisions to keep our staff and customers safe by striving to go paperless, providing additional PPE and modifying the way we work on site," said Sam.

www.synergy-recycling.co.uk



Recycling & Waste Management

New in baling technology

Waste wrap film with recycled content and a lower carbon footprint. Introducing our new waste wrap with more than 30% PCR material!



Up to now, waste wrap for waste baling was usually made of virgin material. At Trioworld, we've come up with something more sustainable: waste wrap consisting of more than 30% PCR material. Recycled plastics certified by RecyClass.

Climate impact
Lowering our carbon footprint is something we're all working on. Baling waste is already a highly efficient way of handling & transporting bulk material, reducing both volume and spoilage. By replacing the virgin material by a more sustainable alternative we're now able to reduce the climate impact of waste handling. At company level, this can mean a huge difference in CO₂ impact! This new product decreases the carbon footprint of 29% compared to a virgin product.

Furthermore, we've designed this film with specially optimised cling for continuous performance and sealed bales. This helps keep the material together, diminishing possible issues of smell and leakage. Also, good to know: our new waste wrap is easily combined with our mantle film containing minimum of 30% PCR, as these films are sometimes used together.

Contact: Anders Larsson
Anders.Larsson@trioworld.com

WasteWrap film with 30% PCR recycled content.

Up to now, waste wrap for waste baling was usually made of virgin material. We've come up with something more sustainable: waste wrap consisting of more than 30% PCR content. This way we're able to reduce the carbon footprint with 29% compared to a virgin product. At company level, this can mean a huge difference in CO₂ impact!

30% RECYCLED PLASTIC

www.recyclclass.eu Find out more on trioworld.com

THE UK'S NUMBER ONE CHOICE FOR COMPLIANT GAS CYLINDER AND FIRE EXTINGUISHER COLLECTIONS, REPATRIATION AND RECYCLING

Email our friendly staff or call our collection booking team and they will be happy to answer your queries and provide you with a free quote.

Visit www.synergy-recycling.co.uk
 email@synrec.co.uk | 01227 462008

Recofloor reaches major 6,000 tonne milestone

A whopping 6,000 tonnes of waste vinyl flooring has been collected through Recofloor since the scheme was founded in 2009 by leading flooring manufacturers Polyflor and Altro.

Offering a sustainable collection service for commercial waste vinyl flooring, the material is recycled back into new flooring, as well as traffic calming products. For post-consumer waste, Recofloor is regarded as a great example of the circular economy in construction.

To date, Recofloor's collection of 6,000 tonnes of waste vinyl flooring has produced 7,038 tonnes of carbon savings – equivalent to taking 1,837 cars off the road for a year.

It also equates to two million square metres of vinyl flooring having been recycled – enough to cover 276 football pitches. The carbon savings estimate is based on displacing concrete in traffic management products, the primary application for the recycled flooring.

Latest data for 2021 shows that a total of 578

tonnes of waste vinyl flooring was collected through Recofloor, saving 678 tonnes of carbon emissions that year.

The scheme accepts both installation offcuts and uplifted smooth and loose lay vinyl, as well as Luxury Vinyl Tiles (LVTs) and safety offcuts and roll-ends.

If you want to be a part of the Recofloor success story, you can find out more about the scheme at: www.recofloor.org or call 0161 355 7618 or email: info@recofloor.org



'Skip' past the rest, use the best from Glost Engineering



Glost Engineering is a North West of England based, designer and manufacturer of skips, containers and steel structural frames for various industry sectors. Established in 1973, Glost Engineering is owned by Gary Moore.

The company has developed significantly since its inception, and over the last 5 years, owner Gary has worked hard to develop new projects, specifically for the waste and recycling industry.

With its ethos of 'no job ever being too big or too small', the company has worked with a large amount of different industries, and through its industry leading skillset, is able to provide specified and custom made products to fulfil an array of different needs for customers and industry sectors. Furthermore, through the company's commitment to quality, all of Glost Engineering's skip products are designed to C.H.E.M specifications.

Utilising a team of highly experienced, personable and devoted sales team, Glost Engineering places the utmost importance on providing a comprehensive service. Ensuring that all queries and orders are fulfilled to the highest standards of customer service.

T 0161 725 9134
www.glost-engineering.co.uk

Exclusive insurance for vehicle recyclers

At Aston Lark, we have specialist knowledge of your industry. We are proud to work in partnership with the Vehicle Recyclers' Association (VRA).

We can provide an insurance solution for smaller dismantling sites through to larger vehicle salvage operations.

Plus, discounted rates are available for VRAC-certified vehicle recyclers.

Contact us for more information or to arrange a site visit so we can begin quoting for your business insurance.

Steve Walker
T: 01384 398326
E: steve.walker@astonlark.com

Dan O'Brien
T: 01384 398346
E: dan.o'brien@astonlark.com

Aston Lark Limited is authorised and regulated by the Financial Conduct Authority. AL.COM-099-0322

GLOSTA ENGINEERING

T: 0161 725 9134 E: sales@glost-engineering.co.uk

Supplying skips, containers and bespoke projects nationwide since 1973.

Our Vision is to see our skips in every town in the UK.

We work hard to create custom-tailored Skips and Containers to suit your requirements.

Visit Our Website: www.glost-engineering.co.uk

Water Management

CFW technology

CFW: Self-regulating, controlled water storm tank flushing



The ELIQUO HYDROK CFW technology

offers an efficient and cost effective alternative to the normal storm tank cleaning procedures. The CFW will only operate when it needs to, immediately after a storm event and can be utilised at the end of any length tank.

The CFW Storm Flush is a simple method for sediment removal. Storm water is held in reserve in the storage reservoir, filled as the tank fills during a storm – no separate water supply is required. At the end of a storm event and after the system has emptied, the retained flushing water is released via the vacuum break within the flushing vessel. This creates a RFP (Roughing, Fine and Polishing) staged flushing regime which mixes and carries the sediment from the base of the tank to the receiving sump. A CFW system needs very little maintenance because of the few moving parts – the only moving part on the CFW is the non-return valve, which is an easily interchangeable off-the-shelf item, quick and easy to replace.

View the video of it in action at: www.eliquohydrok.co.uk/en/product-videos.html
For further information, contact: sales@eliquohydrok.co.uk or visit: www.eliquohydrok.co.uk

Storm tank and sewer cleansing

- CFW 'Flushing Bell'
- Flushing Gates-KS
- Vacuum Flushing System (VFS)
- Channel Flushing Gate-CF
- Syphon Flush

FIND OUT MORE

Wastewater Management

Clean Water Management

Surface Water Management

Wastewater Treatment

Sludge Treatment

ELIQUO HYDROK LTD | T 01726 862000 | sales@eliquohydrok.co.uk | www.eliquohydrok.co.uk

ELIQUO HYDROK

Floodex



Organisers were delighted with the support that has been shown both with bringing Floodex to ExCeL and the launch of the National Drainage Show, both held at London's ExCeL from 9-10 November 2021.

2021's IPCC report and COP26 running the same week as the events are graphic reminders of how urgently companies need to ensure that, not only are they prepared for flood events, but that they also need to build, design and maintain the drainage systems in a more effective way.

The flood events that occurred over the summer and autumn in London, as well as across Europe, have shown that the need to design in and build resilience is a challenge for today not tomorrow. Floodex is on course to become the largest UK trade show tackling flooding and drainage issues.

Floodex and the National Drainage Show return to London's ExCeL this year from 23-24 November 2022. This is our pick of the best exhibitors from last year's event, listed here in alphabetical order: SPEL Products. Further details can be found below.

www.floodex.co.uk

Innovative water improvement solutions



With a history reaching back over 55 years SPEL Products has valuable experience and expertise in both GRP manufacturing and pollution control systems. Since its inception, the company has consolidated its activities to concentrate on pollution control in surface water drainage or what is known as Sustainable Urban Drainage (SuDS) which includes water treatment, attenuation, and rainwater harvesting.

In addition, the company has invested heavily in buildings and plant and equipment, harnessing the latest technology to ensure it maintains the capacity to meet future demands, and offers 'state of the art' production facilities to provide quality and competitive solutions.

Utilising its industry leading skillset, SPEL Products ensures its reputation for excellent quality is maintained, not just in the UK but across the globe with SPEL Australia manufacturing and supplying that part of the world they can support clients in most countries. Water quality products such as the SPEL fuel/oil Separators meet the stringent British/European standard BS EN 858 with newer systems now certified to meet the CIRIA SUDS Mitigation Index (C753).

The backbone of the product range is the ability to manufacture bespoke tanks from 2,000 litre right up to 300,000 litre capacity all from its own facility in Shrewsbury UK. Full ISO 9001 Quality Assured manufacturing along with the SPEL 25 Year Warranty gives confidence in the full product range right from a small domestic septic tank right through to a huge 300,000 litre Package Pump Station. In house design and technical back up complete the client support that SPEL can offer as we all become more concerned about the environment and the vital need for clean water.

For more information, please see below.

T 01743 457977
www.spelproducts.co.uk



LAUDA – Experts In Thermal Control And Measurement Providing Innovative Solutions For Thermal Process Control, Chilled Water Applications, Water Baths, Freezers, Incubators, Shakers, Stills, Tensiometers, Viscometers And Contact Angle Measurement.

LAUDA continues to provide an expanding range of feature-rich, future proof solutions with energy efficiency and connectivity front of mind, serving a diverse range of industries including chemical, pharmaceutical, biotechnology, oil and gas, composites, automotive, aerospace food

& beverage, brewing, digital printing, laser and beyond.

LAUDA's new range of water chillers has been designed not only to comply with the new Eco-design directive, but to surpass it through the innovative use of variable speed modules that automatically reduce their duty cycle in line with the cooling demand hence reducing energy consumption & running costs, giving a tangible return on investment for the user, while ensuring full compliance with the latest regulations on refrigerant (fluorinated) gases.

Further portfolio expansion delivers the new LAUDA 'Versafreeze' ultra-freezers, (deep-freeze storage down to -85°C), and higher power 'Integral' process circulators, (process control from -90

to 320°C with >25kW of cooling @20°C), with pressure overlay options to increase the working range of water/glycol up to 140°C.

Beyond temperature control, LAUDA has a well-established suite of solutions for measuring viscosity and surface/interfacial tension aimed at the development of polymers, oils, and surfactants.

We look forward to hearing from you.

T +44 (0)1780 243118
info@lauda-technology.co.uk
www.lauda-technology.co.uk
www.linkedin.com/company/lauda-technology-ltd
www.facebook.com/LAUDA.UK/
www.twitter.com/lauda_uk

Drains have standards too!

For decades the drainage industry has strived to improve public understanding of the importance and fragility of their drainage systems. A fight against floods, pollution and the unnecessary build-up of fat in our sewer network has reinforced the need to regularly inspect and maintain the network, which in most cases is now over 100 years old.



Tens of millions of pounds are spent each year on surprisingly advanced and regulated methods of inspection and renovation to maintain our networks. Employing 'No Dig Technology', a means of inspection and repair without excavating the pipes, helps significantly in keeping these costs down, spreading the budget across a wider area, satisfying the fifty year life expectancy for customer's peace of mind. Sharing and analysis of inspection data from a CCTV inspection survey, enables contractors to identify and pinpoint an issue to conduct permanent localised repairs at reduced cost. Whether for pre-adoption (house purchase in domestic terms), or reactive purposes (repeat blockages, or subsidence investigation) these methods are widely used in the UK and across the world.

Viewline CCTV Inspection reports embrace this joined up approach and have been widely adopted by insurance claim handlers and contractors up and down the country for this purpose. The reports intricately inform those carrying out repairs (and customers alike), of what needs to be done to keep the drain in good serviceable condition. The technology is available at a domestic level with reports including photographs and in depth descriptions, making inspection the first invaluable step towards utilising No Dig systems and helps tremendously in decisions which could save you hundreds of pounds.

Contact
T 01752 358142
enquiries@viewline.tv
www.viewline.tv

EXPERTS IN PRECISE TEMPERATURE CONTROL
Industrial & Laboratory Solutions

Process Circulators · Chillers · Shakers · Incubators · Freezers
Viscometers · Tensiometers · Stills · Contact Angle Measurement

+44 (0)1780 243118
www.lauda-technology.co.uk

°FAHRENHEIT. °CELSIUS. °LAUDA.

PUMPS FOR HAZARDOUS CHEMICALS



CENTRIFUGAL



MAGNETIC DRIVE



AODD



TURBINE



ROTARY VANE



ATEX

AND MANY MORE....



UPCOMING SHOWS



MARCH MAY LTD
HOWARD ROAD, EATON SOCON, ST NEOTS, CAMBRIDGESHIRE, PE19 8NZ

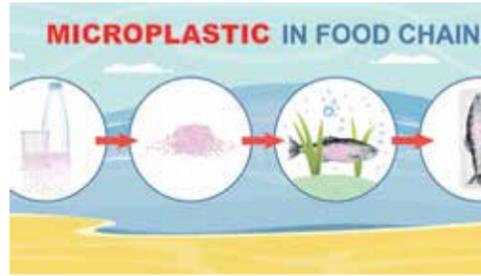
SALES@MARCHMAY.CO.UK +44 (0) 1480 214444 WWW.MARCHMAY.CO.UK

Study links microplastic in human poo with bowel disease

A potential link between microplastics and inflammatory bowel disease (IBD) has been flagged up by a new scientific study, reports Bluewater, a world leader in sustainable water and bottlesolutions for homes, businesses and public dispensing.

Researchers at Nanjing Medical University, Nanjing, China, discovered that people suffering from IBD had more microplastics in their poo than those without the disease, which can cause symptoms ranging from persistent diarrhea to abdominal pain, weight loss, and fatigue.

Bluewater senior research scientist, Ahmed Fawzy, PhD, said this is the first study to report the different concentrations of fecal microplastics between patients



and healthy people. "The study provides yet more alarming evidence of the pervasiveness of microplastics. It is deeply concerning that these non-biodegradable

materials that are literally present everywhere are entering and accumulating in our bodies," Fawzy said.

The researchers noted their findings, published in the journal Environmental Science & Technology, did not conclusively show that microplastics were causing IBD and said more research was needed to corroborate and develop an explanation for the link. Nonetheless, the researchers said their study provided "evidence indicating that a positive correlation exists between the concentration of fecal MPs & the severity of IBD".

For more information, please contact Dave Noble, head of PR and Communications Director, at: david.noble@bluewatergroup.com or on his cell at +44 (0)7785 302694.

Water Process Solutions

Aran Bray of Water Process Solutions gave us further insight into how they provide value to the services and products they supply to their clientele.

"We are fortunate that we're often able to provide multiple process choices to suit any application as opposed to pressing a single product fit approach. This allows the client to explore the benefits of each approach or even hybrid solutions. These benefits may be physical, such as an existing location or service, a process or system technology with regards to automation or instrumentation and feedback, or of course a budget friendly solution that meets the essential needs of the application without creating unused inbuilt additional costs. These solutions can also often result in chemical and operational savings as well."



Aran continued, "Take a recent project that we executed. Our client was after a polymer make-up system with a variety of specific operational needs and feedback but via the use of a particular systems processing manufacturer to allow seamless communications with their existing plant set-up. We were able to work with the user and provide a completely bespoke arrangement by using a hybrid of our standard system features to ensure the client was confident in its proven operation, robust nature and available support, entwined with fabrications to suit the peculiarities of the installation. This particular system needed to be fully skid mounted, of a fairly large volume for process throughput, whilst also staying within the limits of sensible transportation as it was required to travel several thousand miles to its destination – quite a challenge to capture all of these design elements."



After some regular discussions with the client, providing process methodology and a wide array of modelled drawings, Water Process Solutions were able to create a beautiful system to fit the client's needs, whilst allowing easy transport and a simplified installation on arrival. Furthermore, they were able to meet the high-level operational automation, integration and feedback that the client required.

This particular system – a powder to liquid polymer system for mining purposes, included a big bag loading arrangement for the powder polymer. Aran explained, "As a primary mix we used our high shear DD4 disperser system for proper activation of the polymer and prevention of agglomerations, a large volume hydration tank, and secondary mixing via our patented 'hollow wing' impeller design amongst other elements. I am very pleased to say that this was a well-executed and received project, that provided value and hit the target for specification. I believe our client would confirm that the value of this project reached beyond the goods supplied."



For more information, see below.

T 01622 719945
enquiries@waterprocesssolutions.com
www.waterprocesssolutions.com

WATER PROCESS SOLUTIONS

Providing engineered solutions for a wide range of water treatment problems

Trusted Performance

We manufacture and distribute a range of products, providing additional value through innovative design, vast experience and focused support.

We believe that customer service is paramount to our success and that of our clients and partners.

Our product range

The WPS product line and services support treatment within areas of water re-use, potable water, wastewater, pools and leisure, facilities management and food processing, plus a vast array of industrial processes such as mining and power generation industries.

- PolyBlend liquid Polymer Feed Systems
- Powder polymer make-up systems
- Varea-Meter® Variable Area Flowmeters
- Encore Pumps and skid packaged systems
- Dry Chemical Feed Systems
- Site based electro-chlorination systems
- Bespoke engineering solutions



For more information or to discuss a project please contact

Aran Bray
Mobile: +44 (0) 7557 363 728
Main Office: +44 (0) 1622 719945
Email: aran.bray@waterprocesssolutions.com



www.waterprocesssolutions.com

Environmental Testing & Monitoring

IMS' Retrofit SCRT System



IMS introduces its Retrofit SCRT System for London NRM and HS2 Emissions Compliance

With the ongoing focus on 'Air Quality' and tackling of the current climate crisis, we envisage further development of rules, regulations, and laws governing the levels of emissions we're allowed to emit into the atmosphere within our planet. As London is the 'technical' capital of the world, it is at the forefront in setting standards for the rest of the UK, and potentially the rest of the world.

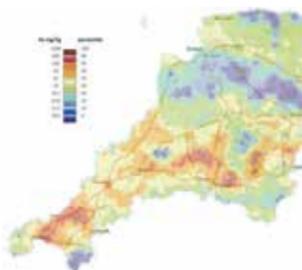
IMS has developed the Next Generation of 'Stage V' Emissions Reduction Technology that combines a DOC, DPF, SCR/ASC Catalyst with an Electronically Controlled AdBlue Dosing Package. The unit is bespoke to client requirement to help reduce all legislated primary and secondary emissions and is certified by the Energy Saving Trust.

Using 30 years of experience within our sector, we will endeavour to help London and other cities reduce air pollution in their quest towards Net Zero. Businesses can then remain up-to date and compliant making their engines as clean as can be, raising awareness and putting them ahead of any changes likely to take place. Time for the Ecological Revolution – or what we call: the ECOLUTION.

T +44 (0)1509 506792
sales@silencers.co.uk

The problem with Arsenic in Cornwall

The geology of Cornwall is unique, with today's landscape a relic of both geological and human processes. Heavy metal



contamination is present across much of the country, with Arsenic levels varying in accordance with geological formations and their subsequent exploitation in the 19th and 20th Centuries. Although Arsenic has historically been extracted for use in paint, weedkillers and insecticides (most notably at Botallack in the late 19th Century), it was generally a by-product of tin and copper processing. Arsenic and other unwanted heavy metals were often deposited in mine waste tips close to the mine from which they were extracted.

In 2013 the British Geological Survey collected data on the spatial distribution of heavy metals across the Southwest, as part of the TellusSW Project. The picture illustrates Arsenic distribution across the Southwest region (Contains British Geological Survey materials © UKRI 2021).

In assessing the risk from Arsenic to sensitive receptors (eg. humans), a Category 4 Screening Level (C4SL) of 37mg/kg is used. This is a generic assessment criteria for Arsenic in residential soils in England. As can be seen, much of the Southwest is above the 37mg/kg threshold. In fact, a study by RS Middleton et al [2017] found that 69% of soils in Cornwall exceed the C4SL for Arsenic under the 'Residential with Homegrown Produce' setting.

T 01208 243192
M 07708 485373
enquiries@groundconsultants.co.uk
www.groundconsultants.co.uk

DOG Oscillation Flowmeter for dry or wet gases

Introducing the all-new DOG-4/-6 Oscillation Flow Meter from Kobold, designed for the accurate measurement of gases. The DOG-4 is ideally placed to measure dry gases. When needing to optimise the condensate drain for applications involving wet gases, ie, biogas, the all-new DOG-6 with its special sensor construction and inclined measuring head is the ideal solution.

- Typical applications:
- ▼ Compressed Air
 - ▼ Hydrogen
 - ▼ Natural Gas
 - ▼ Biogas
 - ▼ Fermentation Gas
 - ▼ Nitrogen
 - ▼ Carbon Dioxide
 - ▼ Oxygen
 - ▼ Methane Gas



Need help with an application? Talk to the Kobold Team on 01623 427701 or email: info.uk@kobold.com



Water Management

LEACHATE SOLUTIONS

FLOW MONITORING

Engineering a Greener Future

- Ultrasonic & Doppler Flow Meters
- Magflow flow Meters,
- NON Invasive flow monitoring for
- Full or Partially filled Pipes
- Level Control Systems
- Pump Sales, Service & Repairs
- Pumps & Pumping Equipment
- On Site Instrument Calibration
- Pump Maintenance & Management
- Water & Waste Water Management

01772 816593 07764 449299

enquiries@leachatesolutions.com

www.leachatesolutions.com

Science and technology = healthy air for life

Panasonic recently introduced a ground-breaking solution, discovered by their R&D team of scientists and technology experts, nanoe™ X, a perfect marriage of science and technology that forms a building block of the future for healthier indoor air quality and incorporated as standard into many of Panasonic Air Conditioning range of units.

nanoe™ X is a cost-effective way to improve air hygiene by preventing transmission of airborne pathogens. The technology collects invisible moisture in the air and applies a high voltage to it to generate hydroxyl radicals contained in water. Hydroxyl radicals, abundant in nature, inhibit the growth of certain viruses, bacteria and allergens.



Contained in tiny water particles, nanoe™ X generates particles that have a long lifespan and can spread

over long distances. Recent, independent testing verifies that nanoe™ X can inhibit certain types of bacteria and viruses, including SARS-CoV-2, meaning the air conditioning systems that incorporate the nanoe™ X technology can help bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner and more pleasant place to be. nanoe™ X works independently from the heating and cooling operation of its units and uses minimal energy and requires no maintenance.

For more information on Panasonic nanoe™ X technology, please visit: www.aircon.panasonic.eu/GB_en

Why companies should consider rainwater harvesting



Businesses looking to reduce their environmental impact often focus on electricity and gas consumption, while water consumption is overlooked.

There are two key reasons why water consumption should be targeted for reduction, the significant carbon footprint caused by water treatment and the Environmental Agency's stark warnings of water shortages by 2050 based upon the current ever-increasing consumption.

In Britain, there is no shortage of water falling from the sky. We explore why businesses should consider a rainwater harvesting system as an alternative to the mains water supply.

How does rainwater harvesting work?

A rainwater harvesting system takes advantage of the frequent rainy weather to replace the need to use mains water. Rainwater harvesting can be as simple as filling a water butt with rainwater from your property's gutters and using it to water a lawn.

However, sophisticated rainwater harvesting systems can produce high-quality drinking water through the following three-step process:

- ▼ Initial filtration removing twigs, leaves and other debris present in rainwater.
- ▼ A sedimentation filtration process to remove any other particles present in the water.
- ▼ A UV disinfection process to kill any bacteria and pathogens present in the water.

Harvested and treated rainwater collected can be safely used in toilets, showers and all other processes that generally use a mains water supply.

Reasons your business should consider a rainwater harvesting system

There are plenty of benefits of using rainwater harvesting, from reducing your impact on the environment to saving vast amounts on your water bill:

- ▼ Reduce your overall water consumption as a business.
- ▼ Cost-effective.
- ▼ Reduces the carbon footprint of your business operations.
- ▼ Simple to implement and easy to use.
- ▼ Harvesting rainwater helps to achieve a BREEAM certification.

Businesses have been found they can reduce their overall water consumption by 40% using a rainwater harvesting system.

Other sustainable water practices for businesses to undertake:

- ▼ **Borehole water supply** – A borehole freshwater system extracts clean water directly from the ground beneath your property.
- ▼ **Greywater system** – Greywater systems are a recycling method where greywater produced in a property is reused in non-human processes.

We hope this information was useful to you; at AquaSwitch, we look to educate businesses on how to reduce their water consumption and how to become a water-efficient business. Use the AquaSwitch business water rates comparison service to save on water bills.

Contact
T 0203 086 8225
contact@aquaswitch.co.uk
www.aquaswitch.co.uk



AQMesh



5
YEAR
WARRANTY

URBAN AIR
QUALITY

TRANSPORT
TERMINALS

CONSTRUCTION

OIL & GAS

CONSULTANCY

- Most experienced team in the industry
- Customisable platform
- Short & long term rentals
- Low maintenance
- Quick & easy to install
- Free remote upgrades
- Free data download



Enquire now for the best air quality monitoring system and outstanding customer support

www.aqmesh.com | info@aqmesh.com
+44 (0) 1789 777703

www.aqmesh.com | info@aqmesh.com | +44 (0) 1789 777703

Environmental Testing

Temperature and Relative Humidity data loggers for Post-Occupancy Evaluation (POE)

Post-Occupancy Evaluation (POE) helps architects, designers, and builders understand how a building's design impacts running costs and occupant comfort in practice. Key measurements of temperature and relative humidity (RH) are integral to the comfort of building occupants and indicate the true performance of the building in lived-in conditions.

Temperature and RH data loggers provide this essential data, allowing in-depth analysis of building performance and the ability to cross-reference with other factors, such as outdoor temperature fluctuations and occupant self-reporting.



Tinytag data loggers are ideal for monitoring domestic and commercial properties, providing an accurate and detailed picture of conditions across the whole build. An unwired and compact design makes Tinytags an easy-to-install

and discreet option for monitoring in occupied spaces.

Long battery life and large internal memory enable extended monitoring periods without interruption or inconvenience to building occupants – well-suited to gathering data for POE. Indoor loggers can be used in conjunction with robust, outdoor data loggers to reveal insight into the relationship between the conditions inside and outside the building.

Discover our range of temperature and relative humidity data loggers on our website at: www.tinytag.info or email: sales@tinytag.info or call 01243 813000.

New pQA portable quadrupole analyser

The Hidden pQA portable gas analyser is a versatile mass spectrometer and offered with a range of interchangeable sampling inlets to suit a broad application range. MIMS inlets are offered for analysis of dissolved species in ground water, fermentation cultures, soil samples, and general applications where analysis of dissolved species in liquid sample is required. The system is suited to gas analysis applications, where sample volume is small, and for environmental applications where detection of low concentration levels is required. The pQA system has a mass range of 200 amu and sub ppb detection levels. Extended mass



range to 300 amu is optional. The system is supplied in a Pelican® case and can be powered by a 12V supply for

field use, battery and/or solar powered, or a 220V supply for laboratory use.

The new pQA system is designed to be compact, lightweight and portable extending the applications of high sensitivity, high dynamic range multi gas analysis by mass spectrometry for use in the field, on riverbanks, at sea, or in the laboratory.

For full details on this or any other Hidden Products, contact Hidden Analytical at: info@hidden.co.uk or visit the website at: www.HiddenAnalytical.com or call +44 (0)1925 445225.



Manufactured in the UK

Tinytag Data Loggers: Energy Efficiency Monitoring

power usage • temperature • humidity • CO₂ • count • voltage • current

Tinytag Energy Logger: single and three phase power usage monitoring

- Easy to use, self-configuring
- Non-invasive and portable
- Voltage, current and power readings
- Power factor data
- Spot checks or longer term recording

The Energy Logger helps identify when equipment is being used, times of peak load, and how much energy is being used overall to build consumption profiles.



ORDER ONLINE AT WWW.TINYTAG.INFO OR CALL 01243 813000

Gemini Data Loggers (UK) Ltd
Scientific House, Terminus Road,
Chichester, West Sussex, PO19 8UJ,

Telephone: +44 (0)1243 813000
email: info@tinytag.info
www.tinytag.info



Recycling & Waste Management

Standing the test of time with IQR



It has been a year since IQR Systems installed their static IQR FH1800 static shredder at the site of one of their customers, and the machinery has really been proving its worth.

The machine is fed by a loading shovel and 360 degree material handler, and they are averaging 46T/hr on shredding waste wood grades A-C. How do they know the tonnages? They have a load cell fitted to the exit conveyor which weighs the material after it has passed under the overband magnet.

The machine is controlled by a remote control in the cab of the material handler which gives information on the kilowatts being used by the motors and other important details, enabling the smooth running of the machine.

The material is not being pre-shredded and a set of FlexHammer hammers are lasting at an average of 11,000 tonnes of processing. And even after a full year of demanding processing, the anvil and screen have not yet been needed changing!

Talk to IQR Systems about reducing your processing costs and moving to static electric processing.

Contact
M +44 (0)7834 585247
paul.caldwell@iqr.se
www.iqr.se
skype: paul.j.caldwell
www.iqr.se/en

Red Rhino mini electric jaw crusher

The Red Rhino 5000ES is a recent addition to the range of crushing and screening equipment manufactured by Red Rhino.

The mini electric jaw crusher is environmentally friendly, reduces costs and lends itself to where environmental, legislative, or noise constraints are all possible issues to overcome.

The 5000 ES series is made to

crush all types of aggregates ranging from small demolition projects to larger excavations.

Its small structure can be easily moved thanks to its confined dimensions and manageable weight. This robust static structure is equipped with Fork Truck handling and slinging capability.

Requiring a 3 Phase 380/415v power supply its plug and go

characteristics enables it to be taken to site and deployed in minutes.

Once plugged into a local power supply the touch button control panel is easily operated to commence the crushing process.

For more information on Red Rhino please contact: +44 (0)1476 590790 or visit: www.redrhinocrushers.co.uk



NUMAC Your first stop for portable waste compactors



Supplying the waste industry with compactors, containers and skips since 1978

Get in touch today

028 308 51791 | info@numac.co.uk

www.numac.co.uk



49 Chapel Hill,
Mayobridge,
Co Down,
BT34 2EX

028 308 51791

Superior performance, high uptime & global service network

In this issue of Sustainability Today, we have chosen M&J Recycling as our Waste Shredding Solutions Company of the Month.

Formerly known as Metso Waste Recycling, M&J Recycling specialises in the design and manufacture of industrial waste shredders. As developers of the world-renowned range of M&J PreShred industrial shredders along with the M&J FineShred range of secondary shredders, its shredders are designed to reduce the size of waste materials effectively and reliably. "We have more than 1,000 installations worldwide and alongside our continued focus on R&D innovation, we are one of the world's leading suppliers of industrial waste shredders for the recycling industry, backed up and supported by a global network of sales, service, parts and maintenance partners and distributors," stated Dan Fairest, Area Sales Manager.

The first industrial shredder was designed and produced in 1988 by the original M&J Industries, which was founded in 1857 by Messers Moeller and Jochumsen as an iron foundry. In 2009, the company became part of the Metso organisation and in 2021 returned to its roots as an independent company known as M&J Denmark A/S, trading as M&J Recycling.



The M&J K210 pre-shredder is a compact all-round shredding machine with an impressive output; it can process various waste types from municipal solid waste to industrial, commercial or bulky waste

Headquartered in Horsens, Denmark, M&J Recycling has an established global presence with offices in the UK, Germany, Thailand, China, USA, Sweden, Poland, and South Korea. As designers and manufacturers of specialist size reduction and shredding machinery, its solutions are strongly favoured for any waste recycling application that functions within EfW, hazardous waste, incineration, recycling, landfill, cement production, biomass and composting along with processing RDF/SRF, MSW, C&I, C&D, WEEE, metal, paper, plastic, bulky and wood waste sectors.

We spoke to Dan who explained the benefits



M&J PreShred 4000 Mobile: An efficient waste shredder with superior mobility

of their products, "Our PreShredders are recognised as the preferred choice when it comes to processing raw materials. This is down to our patented open cutting table design which allows impurities and unshreddables to pass through without causing damage and reducing wear. They include large aggressive knives with high 'grabability' which eliminate the need for a pushing device and thus avoids bridging, and our hydraulic drive system which is incredibly resistant to shocks (from large unshreddable items) delivers a smooth power performance avoiding power peaks and therefore reducing consumption. Coupled with bi-directional shredding delivered by asynchronous motors, all help to deliver an unbeatable performance and throughput figures that help our customers to improve their operational efficiency, reduce risks and increase their profitability."

M&J Recycling is always looking at ways to improve its machinery and service offering. With a product portfolio that is continuously growing to adapt to the latest industry trends and requirements of the customer, M&J Recycling has some new products soon to launch that are set to revolutionise waste shredding production in the recycling industry. "Over the last couple of years, we have introduced a new PreShredder, the M&J K210, which sits in between our most popular model, the M&J 4000S and the M&J K160 (M&J 1000 as was) giving more flexibility to our PreShredder range. Last year we launched the M&J F320, the latest and largest model in our secondary

shredder line-up. We are also introducing a new range of packages for our service offering. And, with IFAT coming around again this year, we have a new product launch which we are very excited about – watch this space!" stated Dan.

The M&J F320 is a heavy-duty-fine-shredder for production of RDF/SRF material. It is a powerful flagship in the line of its already strong fine-shredder series and targets the production of alternative fields such as RDF and SRF. Created from scratch the M&J F320 has a 35% lower operating expense making it the most competitive OPEX in the industry. Harnessing a more environmentally friendly approach, it uses 20% less power for installation, as well as operating at a 20% lower cost to alternatives. Some unique features include its cutting system that requires minimal daily maintenance. Once the rotor knives and static knives have been set in the initial setup, or after knife holders have been changed, it does not require routine adjustment. Along with its modular design that ensures fast servicing, M&J's service team have quick and easy access to everything and can therefore replace all wear parts extremely quickly to avoid lengthy maintenance. As it uses the M&J patented knife system, a single-rotor-fine-shredder can process a wide range of different materials such as refuse-derived fuel, hard plastics and loose material.

2021 was a landmark year for the company as it was divested from the Metso family and acquired by Ahlström Capital, who is a family-owned investment company that focuses its investment activity on industrial companies and real estate. Dan commented, "We are now known as M&J Denmark A/S trading as M&J Recycling. We are the still the same company, same people, same great shredders and embark on the same global locations and back up as before. This is great news for the business and has allowed us to become a truly independent business for the first time in many years which has given us the commercial freedom to forge our own path. This change has given us even more scale

and coverage to help our customers with their operational objectives and future expansions."

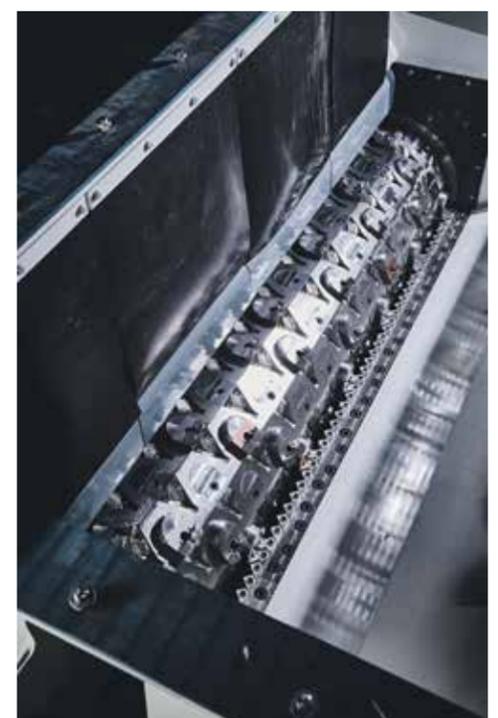
Despite the unprecedented times that was thrust upon the world by COVID-19, M&J Recycling has successfully managed to exceed its targets over the past two years. With work remaining as busy as ever, the company is excited to get back out in front of the public to exhibit face-to-face once again. You can find M&J Recycling at IFAT 2022, in Munich and at RWM 2022 in the UK later this year where it will be exhibiting all new products and offerings.



UK Contact: Dan Fairest, UK & ROI Area Sales Manager (pictured above)
M 07341 885553
daniel.fairest@mjrecycling.com
www.mjrecycling.com



M&J F140, M&J F210 and M&J F320: The M&J F320 is the heavy duty fine-shredder for production of RDF and SRF material



M&J F320: The unique cutting system secures a homogeneous output with minimal heat generation and limited fine particles; easy access for replacing knives

Innovation for water

In this issue of Sustainability Today, we are pleased to announce EnviroChemie as our Water & Wastewater Treatment & Recycling Company of the Month.

EnviroChemie entered the UK market in March 2018 through the purchase of Clearfleau Ltd and has since established a reputation for energy and resource efficient technologies for water, wastewater treatment and recycling, specialising in developing and implementing sustainable customised solutions in different industries. EnviroChemie is part of the EnviroWater Group and is an operational subsidiary of Skion Water, a technology and solution provider for both municipal and industrial water and wastewater technology.

"We operate across all major industrial markets including life science, pharmaceutical, chemical manufacture, metal finishing, cosmetics manufacture, and automotive. However, in the UK our main focus has been the food & beverage market, providing a range of technology solutions to help customers achieve compliance and sustainability. The original Clearfleau business was seen as specialists in anaerobic digestion technology for biogas production. We have continued this and are delivering green energy solutions for industrial customers alongside more traditional solutions," stated Lester Young, Managing Director.

As an established German business, EnviroChemie has been in the industry for over 45 years and its presence is known throughout the world, with a UK base located in Bracknell, Berkshire. From its many locations EnviroChemie supplies sustainable system solutions for all tasks in industrial water treatment, and the treatment of process water, circulation water, cooling water, boiler water and wastewater.

"We design and build plants and also provide a full after sales service including chemicals



and consumables, process and service support, operations and maintenance contracts, remote monitoring and operations support via digital platforms," said Lester.

Providing a wide range of in-house technologies, EnviroChemie offers many industry leading advantages and benefits to its services. The ability to design bespoke solutions to the customers exact specification enables EnviroChemie to deliver the right solutions every time at a competitive price, ensuring compliance and sustainability throughout.



Used to optimise plant operation while simultaneously reacting to challenging operating conditions, it's a great way to safeguard the know-how of your team members.

The WaterExpert™ digital solution can be tailored to the needs of your company, meaning it can be as simple or as robust as you need it to be. Putting you in control, you choose which features you require for your plant operations and WaterExpert™ combines multiple digital solutions to form one user-friendly package.

How WaterExpert™ can support you:

- ✔ Digitising routine operator rounds
- ✔ Setting up alarms and messages with detailed instructions for solutions
- ✔ Implementing an effective inspection and maintenance programme
- ✔ Improving knowledge transfer and reducing knowledge loss
- ✔ Minimising recurring paperwork/routine work
- ✔ Remotely monitoring your system's performance data

Through its research and development team, EnviroChemie regularly participates in German and European collaborative research projects. Always putting the customers best interests first, for internal research projects, EnviroChemie specifically examine key areas that are regularly redefined based on current developments, as well as issues that arise as a result of the needs of its customers. The lasting effects of COVID-19 is a great example of how the company has adapted and overcome



through a difficult time.

Post COVID-19, EnviroChemie has witnessed a steady growth and has gained some vital partnerships to help maintain its momentum towards continued expansion of its UK business and growth in the after sales market. "COVID-19 was a difficult first few months of lockdown for us initially, but we won some significant projects towards the end of 2020 and early 2021, that have been the platform for our UK growth, which is still continuing. Our customer base has remained busy and the need for our services has also remained. In addition, environmental pressures have made people more aware of the need for clean water to discharge back to the environment and potentially reuse," mentioned Lester.

As more companies are looking for new ways to recycle or reuse water, EnviroChemie is constantly working towards developing new energy-efficient technology and conserve resources. As the environment is constantly changing, it is vital EnviroChemie is alert to all current and future challenges and always remains one step ahead of the legal requirements for wastewater. Its experienced and highly qualified team of experts are continually working to enhance processes and develop new water chemicals in their own laboratories that bear the hallmarks of quality, innovation and industry leading solutions.

For more information, see below.

T +44 (0)8444 776292
info@envirochemie.uk
www.envirochemie.co.uk



In recent news, the company has launched the EnviroChemie WaterExpert™ digital service platform complete with in-built app. WaterExpert™ is an all-in-one solution for digitising your water treatment plants. Combining real-time data monitoring, alarm management, digitised operator rounds, knowledge capture, maintenance management, asset management and on-demand remote access in a single easy-to-use platform, its designed to keep you up to date on the status of your plant at all times in the easiest, most convenient way.



Weener Plastics

Sustainability is an integral part of Weener Plastics' strategy. Weener Plastics (WP) also recognises that convenience and quality are fundamental and should not be compromised. Respecting sustainability as well as functionality, WP's Innovation & Development team has developed an unprecedented solution: the world's first 100% recyclable valve.

100% recyclable

Dispensing closures fitted with the 100% recyclable valve offer a convenient dispensing. This valve is made of a specially developed material, which enables full recycling with polyolefin waste streams – regardless of the bottle material. A renowned

independent research institute has confirmed the 100% recyclability of this new valve.

Uncompromised functionality

This recyclable valve offers a fully controlled and clean dispense of any quantity the consumer may require. The dosing behaviour can also be adjusted, depending on preference. The valve fits in all of WP's existing MaxiDose valve closures, but it is also perfectly suitable for customised designs.

Widely applicable

WP's new valve is highly versatile and compatible with a wide range of applications such as food, home care and personal care. When used to dispense



oily or fatty formulations, this recyclable valve also performs better than any other solution. Especially when controlled dispensing is essential, this valve provides the ideal solution.

www.wppg.com

Recyclable pouches join the family of McCoo's



How can a recyclable pouch possible do justice to the Steven Brown Art's – the McCoo's?

When Deans of Huntly wanted to launch their range of Cookies in a recyclable pouch, they approached National Flexible for ideas. They had the designs which are incredible, incorporating Steven Brown Art's McCoo's but were worried that a recyclable laminated pouch wouldn't do the designs justice as some recyclable materials can have a 'dull' finish similar to polyethylene.

National Flexible had already had extensive experience of recyclable films and pouches and were able to help. The pouches needed to have intensity of colour not only in the main design but also in the photographs of the small packs on the front.

"We needn't have worried. National Flexible understood exactly what we wanted to achieve. We are extremely happy with the pouches – they look amazing!" said Michael from Deans of Huntly.

T 01274 685566
sales@nationalflexible.net
www.nationalflexible.co.uk

You are what you eat. So eat 'Proper'.



Proper have moved into the fast growing snack bar category with a healthy alternative. The two flavours, Salted Caramel and Hazelnut Praline, are vegan and gluten free, have no palm oil and use 'Proper' ingredients.

The launch is in response to demand from shoppers for healthier on-the-go snacking options as the nation moves towards more mindful snacking.

The packs are made from matt and metallised film with 30% recycled content, meaning they are exempt from the Plastic Tax.

The Plastic Tax is being introduced in April 2022 to "provide a clear economic incentive for businesses to use recycled material in the production of plastic packaging, which will create greater demand for this material and in turn stimulate increased levels of recycling and collection of plastic waste, diverting it away from landfill or incineration".

A full range of films with recycled content are available now.

T 01274 685566
sales@nationalflexible.net
www.nationalflexible.co.uk

When you need to deliver the ultimate performance

For swatches and samples please contact us on info@denmaur.com

denmaur
papermedia

www.denmaur.com

Rock Breaker Solutions Company of the Month

The breakthrough for your rock breaker needs



developments throughout its years in operation, and has become a diversified group covering mining, quarrying, demolition, recycling and bulk handling. Today TECMAN is represented in five continents with a global dealer network. The TECMAN group, also maintains sales and service operations in South Africa, Chile, Spain and United Kingdom.



installation, training and commissioning of equipment from start to finish," added Brian.

Harnessing the experience and expertise of its team of highly motivated, manufacturer trained service engineers, TECMAN is able to solve any issues that may occur. Whether this is for a service or a break-down, TECMAN is fully equipped to keep your machinery running smoothly and is renowned for its quick response. Aiming for excellence in everything they do, the team places the utmost importance on customer satisfaction and its customers' needs are always at the forefront of its operations. The team can also provide onsite support.



easily installed, requiring minimal modifications to the crushing facility.

In terms of recent developments, TECMAN is unveiling a new automation system which can be installed on any rock boom system, thus enabling it to be operated anywhere in the world, without the need for the operator being close by.

In this issue of Sustainability Today, we have selected TECMAN as our Rock Breaker Solutions Company of the Month.

TECMAN was established in 1993 and has developed an industry leading reputation as a global leader in the manufacture of Rock Breaker Boom systems.

"Luc TEMPLIER Founded in 1993, TECMAN has become a global specialist in the design of rock breaking solutions for the quarrying and mining sectors. Over a quarter of a century later, TECMAN consists of three integrated factories covering all processes of rock breaker boom, hydraulic hammer, design and manufacture," said Brian Johnson, Regional Manager UK & Ireland.

Gaining a strong reputation and impressive growth, TECMAN has undergone many changes and



"Utilising 'Advanced Performance Technology', TECMAN has become a world leader in rock breaker boom design, manufacture, and automation. With the integrated manufacturing platform, TECMAN not only aims to meet the exigences of modern mining and quarrying companies, but to excel in offering the highest production, technology and performance levels," stated Brian.

TECMAN prides itself on delivering a full service for its clients, offering a complete design to installation service. The company is able to create modular rock breaker and column systems that are easy to ship and install, enabling the company to provide its systems on a worldwide scale.

"We can handle the

Regarding its rock breaker booms, Tecman specialises in remote-controlled hydraulic arms which are equipped with rock breakers. The hydraulic arms are installed on crushing facilities, and are able to destroy oversized rocks and allow the crusher to be safely unlocked. The arms can be fitted to mobile crushers, jaw crushers, gyratory and percussion grinders. Furthermore, each equipment is custom built for the customer, and is



TECMAN provide numerous remote control methods enabling operators to access a boom system easily and efficiently. Tecman offers a server which is complete with an interface for either the mine/quarry communications systems or directly with the mine management system.

If you would like any further information, please see the details featured below.

Contact
M +44 (0)7516 537290
www.tecman.com
www.tecman-rockbreaker.co.uk

GPR Solutions Company of the Month

ImpulseRadar defines GPR

In this issue of Sustainability Today, we are pleased to announce ImpulseRadar as our GPR Solutions Company of the Month.

Headquartered in Malå, Sweden, ImpulseRadar was founded in May 2015 by a group of experienced GPR professionals. The company has grown to include offices in America and Malaysia, and an ever-growing network of international resellers. World-renowned for its incredibly modern and advanced ground-penetrating radar instruments and related software, ImpulseRadar is on a mission to develop and produce market user-friendly high-tech products and rapidly become the leader in its core target markets. ImpulseRadar is the only GPR manufacturer that offers an entire 360 solution and product line that utilises the latest real-time sampling technology.

"Our GPR instruments and software enable people and organisations to investigate and map subsurface features and structures non-invasively. Our cutting edge GPR systems make it possible to 'see' through various media such as the ground (soils and bedrock), concrete, roads, fresh water, and snow/ice. We can address a host of associated and established applications with our technology," said Brian Wright, Director of Business Development.

Brian continues, "We provide mapping and geospatial solutions for underground utility assets and infrastructure, cultural resources, and transportation infrastructure. We categorise ourselves as a geomatics company focusing on subsurface imaging and mapping solutions using GPR as the core technology. We target selected niches of the



GPR market with products based on our own, in-house developed technology, which offers significant advantages over existing competitors."

Its product line offering is wholly tailored towards specific application areas to achieve a clear advantage in functionality, user-friendliness, and system performance. Brian commented, "At ImpulseRadar, we've been taken somewhat by surprise by the sharp rising popularity of our products. We've asked ourselves what is it that we do, so right? One answer may be found in our warranty records, which are close to nil! This reality leads us to believe that the modern design, quality of build, and the superiority of our testing and QA/QC processes are key to our success. We also subject our products to rigorous environmental tests and field evaluations over wildly different soil conditions. Combined with our customer-driven corporate culture, where we work closely with customers and actively listen to



their feedback, it's clear what has driven our success."

New to the UK market is the PinPointR that has been developed to maximise in-field productivity by utilising ImpulseRadar's innovative real-time sampling (RTS) dual-channel antenna technology. The PinPointR offers a clear & dependable way to quickly & easily locate, avoid or map underground utilities with the functionality required to meet approved industry standards.

PinPointR features:

- ▶ Wireless data acquisition
- ▶ Android-driven user interface
- ▶ Dual-channel operation 400 MHz (LF) & 800 MHz (HF)
- ▶ Seven-hour battery life
- ▶ Internal GPS as standard
- ▶ Supports external DGPS/RTK-GPS
- ▶ Automatic utility report generation

PinPointR is ideal for use in applications including utility locating, infrastructure, road/bridge inspection, law enforcement & military, environmental, & archaeology.

Raptor is another new introduction to the UK market, a high-speed 3D ground-penetrating radar array. Enabling the fastest 3D GPR data at speeds in excess of 80 mph and at 5cm point intervals. Raptor is capable of survey speeds that eliminate the need for traffic control and safety vehicles and is available in two ranges, Raptor - 45 and Raptor - 80.

Keen to advance on the promising success of its new product additions to the UK market, Brian explained

the company's future plans. "The company has ambitious plans to continue its robust growth and international expansion. We are actively recruiting in-house for multiple roles and externally for new sales partners."

The ability to adapt and overcome challenges marks any business's powerful resilience and determination. The effects of COVID-19 have been hard for many companies; however, ImpulseRadar has relied on its strong values and ethos to sustain and stabilise its business practices through such uncertain times.

In closing, Brian described how the company is moving forward, "We've learnt to adapt and use modern communication technology platforms to facilitate effective remote interactions with prospective clients, existing customers & our network of sales partners. That said, with the easing of restrictions, we look forward to getting back on the road interacting face to face."

Contact: Geomatrix Earth Science Ltd, UK reseller
T +44 (0)1525 383438
sales@geomatrix.co.uk
T +46 953 100 08
www.impulseradargpr.com



Supporting a sustainable future



In this issue of Sustainability Today, we have chosen Middleton Engineering as our Recycling Machinery Company of the Month.

Middleton Engineering specialises in the waste recycling industry, with a long history and experience in designing, manufacturing, supplying, and servicing recycling equipment for over 45 years. Middleton Engineering has built a reputation based on quality, excellent service and innovative design, driving the company to the forefront of the industry as a major supplying force for the UK and worldwide.

The company primarily manufactures recycling machinery, this includes baling presses from 60T up to 120T, 80T Semi-automatic machines, channel balers and Twin Ram machines; the latest update in baling to deal with many products, to include Bottle perforators and Bale wrappers and conveyors of all kinds. Middleton Engineering maintains a portfolio of clients including: local authorities, supermarkets, recycling companies and leading distribution centres.

"We have our own fabrication shop, a machine shop, producing our own cylinders from short up to 300 ID X 4½M in length. We manufacture all of our own items in house and keep a large store for everything we build and items readily available for service work and repairs. We have our own design office and draw and manufacture all our own parts.

We also build horticultural machinery for processing compost. We can build many things



upon request, we just need a sketch, drawing or photo to work from. We have many skills. We currently have three apprentices and one further learning, so we also feel strongly about supporting training and improvement," said Joan Middleton, Company Director.

One of the most notable machines is Middleton Engineering's own series of Twin Ram Machines. The ME2R series balers are available as 80, 100T and 120T and can be customised to the customers' requirements, plastic and wire tying options. The machines are extremely versatile



and able to manage the widest range of waste materials, with the ability to be able to switch quickly between materials. The ME2R series provides many advantageous qualities such as energy efficiency and longevity.

From the company's location in Somerset, Middleton Engineering delivers everything on site, under one roof. The company maintains a CNC machining department, fabrication facilities, service workshops and a large storage department housing over 20,000 spare parts, for an array of recycling equipment. With such a vast amount of resources, Middleton Engineering has the expertise to handle a wide range of projects, from simple refurbishments and service contracts to large scale, full turnkey installations.

Middleton Engineering understand the demands and needs of the industry and is constantly looking at new ways of improving its waste baling solutions. Utilising the skills of its highly experienced team, Middleton Engineering works in collaboration with its clients, ensuring that every project is completed to the highest standard and customer specification. Its highly advanced design engineers also use the latest 3D design software.

"We feel from our long history of working on many sites. We can offer the very best solutions when given a certain area the company has to process in, so that the flow of materials into a site and completed products leaving the site, is best for the process of materials and safe traffic is carried out, providing a free flowing site.

"We always like a good discussion with our customers – to make sure we know what they want. We can then ask questions and give advice for the best solutions with appropriate machinery to suit their needs, also make suggestions where we feel we could offer improvements," added Joan.



In terms of recent events, Middleton Engineering faced some new challenges during the last 12 months, but was able to respond and adapt quickly, enabling the company to continue working throughout the COVID-19 pandemic. Joan expanded, "We continued working throughout the pandemic with the Distribution Depots that we service. We had to put procedures in place to ensure our engineers could travel on and off site safely, so that we could service our customers with contracts. We also initiated further processes into our working day to ensure all vehicles and working spaces were sanitised, but other than that, work pretty much carried on as normal!"

A main focus for the company, Middleton Engineering ensures it maintains an environmentally and socially positive work ethic. With this in mind, the company is constantly working to reduce its waste and emissions through recycling and other energy conservation measures. Furthermore, Middleton Engineering is committed to sourcing materials and consumables from suppliers that uphold the same ideals and values. The company is committed to ensuring that its products are built with sustainability being of the utmost importance throughout the process. Through this ethos, customers can feel assured that when placing an order for a Middleton Engineering baler, that they are helping to support climate protection and preservation.

For more information, please see the details below.

T 01458 860264
www.middletonengineering.co.uk



Resource and waste management

RWM, held at Birmingham's NEC from 22-23 September 2021, is the UK's largest trade show for recycling and waste management, providing the biggest platform for world changing innovations that are shaping the future of sustainability.



RWM has grown to attract 12,000 professionals from across the recycling and waste industry and beyond to network and build beneficial relationships for the future. The visitors all share a vision of a cleaner and more resource efficient future, and RWM put these ideals in the spotlight.

Across the two days RWM boasted unrivalled seminar schedules delivering expert advice and guidance, live demos of the latest and greatest technology as well as hundreds of market leading companies coming equipped with their finest solution-led products and services. RWM, in partnership with CIWM, is the only UK event of this scale for the recycling and waste industry and brings the industry together unlike any other event on the market.

This year RWM highlighted the importance of a Circular Economy in 1 of its 11 theatres, and how the recycling and waste management industry was adjusting to include resource management.

RWM returns alongside Let's Recycle Live to Birmingham's NEC this year from 14-15 September 2022. This is our pick of the best exhibitors from last year's event, listed here in alphabetical order: Arolco Engineering Solutions, Bio-Dynamics Tanks Ltd, Bucher Municipal, Gasmat & Perry of Oakley. Further details can be found on this page and the next.

www.rwmexhibition.com

30 years of experience, expertise and excellence

Bio-Dynamics specialises in building tanks for wastewater treatment plants, biogas plants and industrial and agricultural applications.



The company maintains its main head office in Deinze, Belgium, with its UK Division, Bio-Dynamics Tanks Ltd based in Thurnscoe, near Rotherham, and Monostore bv, based in Kampen, The Netherlands.

Bio-Dynamics has gained an impressive amount of expertise, built from over 30 years of experience in the treatment of industrial waste water and environmental engineering. Bio-Dynamics specialises in the building of round tanks with a diameter starting from 15ft (5m) to 164ft (50m) and up to 66ft (20m) in height, with or without a roof, underground or above ground level.

The primary focus of Bio-Dynamics is the supply of concrete anaerobic digesters and associated tanks to the Biogas renewable energy sector. For the agriculture market, the company is able to provide biogas-units (in collaboration with key Technology Providers) based on the size of the farm, which are mainly fed with manure and other substrates that occur on the farm.

As the company looks to the future, Bio-Dynamics plans to continue focusing on its core activities, working with strategic partners and technology providers to enhance and sustain the burgeoning biogas sector, for years to come.

Bio-Dynamics are keen to discuss any of your needs for liquid containment, and its technically qualified staff are ready and waiting to receive your call to start the process of developing a solution.

Contact
M 07956 854669
www.bio-dynamics.be
www.bio-dynamics.co.uk

Bucher Municipal leads the way

When it comes to technology and equipment that can clean in a sustainable and efficient manner, Bucher Municipal leads the way.

We know there's a better way to create smart and efficient solutions striving to deliver more sustainable solutions through innovation. That's why, through committed partnerships and reliable equipment, we're continually setting new industry standards. We invest heavily in the future and are pleased to be able to offer an electric vehicle alternative across all our divisions (street cleansing, sewer cleaners and winter maintenance) reducing operational costs and significantly reducing our emissions into the



local communities. If it's not available already, it will be in the very near future...

In addition, we publish a yearly Sustainability Report clearly setting out our short, medium and longer term objectives with appropriate milestones, positioning ourselves at the forefront of the industry and evidencing our move to greener and more socially responsible operations.

For more information on our principles, what we stand for and our journey towards a greener earth, please visit: www.buchermunicipal.com/int/about-us/sustainability-report

Meeting the demand for screw conveyors

Together with Invest NI, Arolco Engineering Solutions have identified the increasing demand across Irish and UK markets for augers (screw conveyors), as well as the products and services that complement this core product.

Screw conveyors are used in conveying material from point 'A' to 'B', across a huge range of industries, from tiny stainless augers used in pharmaceutical factories to heavy-duty conveyors moving coarse industrial materials.

Over the last 12-18 months, Arolco Engineering Solutions have experienced considerable growth and the demand for screw conveyors has been seen across many industries with significant contracts secured with Full Circle Generation, Vital Energi and Balcas, so the investment into new equipment and processes is coming at a great time. Improved processes and modern equipment will give Arolco Engineering Solutions total flexibility in the design and manufacture of augers with any geometry flight (anticlockwise or clockwise) or driving method to be specified or produced, as well as the capacity to handle outside diameters of up to 800mm using up to 20mm plate.



Related products that are often purchased alongside augers are troughs, liners, chutes, hoppers, etc. Arolco Engineering Solutions are experienced in manufacturing all these products & are able to advise the required parts which will be needed to ensure your application or operations run as effectively and efficiently as possible.

For more information on augers, visit Arolco's website at: www.arolcoengineeringsolutions.com or contact them at: marketing@arolcoengineering.com

AROLCO
ENGINEERING SOLUTIONS

SCREW CONVEYORS

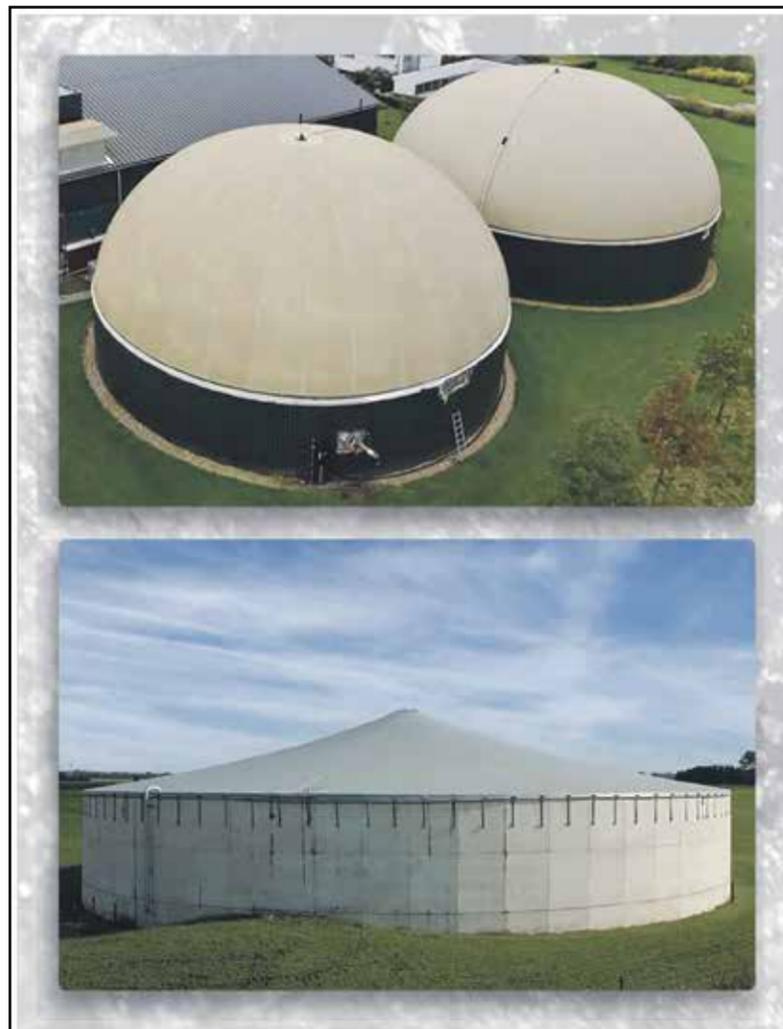
QUALITY MATERIALS & WORKMANSHIP DRIVING GREATER RESULTS

Arolco Engineering Solutions specialise in manufacturing bespoke material handling solutions suitable for industrial applications.

[CONTACT US](#)

02881672800

VISIT AROLCOENGINEERINGSOLUTIONS.COM



YOUR FIRST CHOICE FOR CONCRETE TANKS



Poured in-situ concrete tanks and bases for lifetime, trouble-free operation

Albion Drive, Lidget Lane Industrial Estate
Thurnscoe, South Yorkshire S63 0BA

0330 808 0021

JLT@bio-dynamics.co.uk

www.bio-dynamics.co.uk

The Perry Belt Drier

The Perry Belt Drier is ideally suited to drying almost any non-flowing product or more granular products that require a lower through put capacity. Popular applications for them are drying woodchip, flaked maize, grass & refuse (SRF/RDF), paper pulp, anaerobic digestate and hemp.

The modular construction allows the driers to be extended at a later date, allowing the drier to grow with your requirements.

The Perry Belt Drier is designed so that air is drawn down through the product bed which keeps the product tight to the belt, improving drying efficiency & reducing product loss through fans via product lift. It's available in widths of 1.5m, 2.2m & 3.0m and lengths of up to 75m.

Perry also manufacture a complete range of handling equipment to feed and discharge the belt driers, including: conveyors, elevators, augers and screw conveyors, in addition to many more handling & storage solutions. Perry are able to offer full solutions for industries ranging from farms/agricultural



applications to feed mills & flaking mills, biomass and industrial applications.

To find out if the Perry Belt Drier is the drying solution you are looking for, call now on +44 (0)1404 890300 or email: sales@perryfoakley.co.uk or visit: www.perryfoakley.co.uk

Gasmet

We design and manufacture world-class gas analysis systems and emission monitoring solutions to measure gaseous emissions from industrial processes, gases released from natural sources into the atmosphere, & gases present in working environments.

Emission monitoring systems

Our products represent the pinnacle of what can be achieved in the measurement of gaseous emissions using automated measuring systems. We excel in manufacturing reliable, sensitive, and cost-effective continuous emission monitoring solutions that represent the future of gas analysis. We have a world-leading reputation, and we take pride in making sure all our current devices and future solutions are fully certified to the latest standards.

Portable gas analysers

We manufacture robust and accurate portable gas analysers for a wide variety of applications. Different models comes with different technical properties. All analysers are based on the same FTIR technology, so all users, working in any application, can rely on the same high levels of accuracy and reliability.



Partner for your needs

Our solutions are carefully designed to meet your specific gas analysis and emission monitoring needs. With Gasmet, you will get so much more than just an instrument service. You will be supported by our experts throughout the lifespan of your investment.

T +44 (0)1908 227722
contact.uk@gasmet.com
www.gasmet.com

Classifieds

Hot Water & Heating

ADVECO 50th **AC Smith** Water Heaters
 Commercial Hot Water & Heating Design, Supply & Servicing

- Commercial Water Heaters
- High Efficiency Boilers
- Air Source Heat Pumps
- Prefabricated Systems
- Thermal Storage
- Solar Thermal
- Heat Recovery

Adveco.co 01252 551540
 Adveco (AWP) Ltd trading as A.O.Smith Water Heaters

Storage Tanks

Drayton Tank & Accessories Ltd

WRAS

45 ltr - 100,000 ltr
 One Piece Water Tanks
 Two Piece Water Tanks
 Sectional Water Tanks
 GRP Housings

Type AB Airgap
 Screened Overflows
 Brass and Stainless Steel Inlets
 Raised Ball Valve Housings

Email: info@draytontank.co.uk
 Web: www.draytontank.co.uk
 Tel: 0871 288 4213 Fax: 0871 288 4214

Liquid & Solid Separation

QUALITY PRODUCTS & SERVICES

euroby

SUPPLIERS OF LIQUID AND SOLID SEPARATION TECHNOLOGIES TO THE WATER AND INDUSTRIAL MARKETS

- SALES • RENTAL • MAINTENANCE •
- REFURBISHMENT • SPARE PARTS •

Euroby Ltd
 New Dawn House, Gorse Lane, High Selvington, Worthing, Sussex BN13 3BX
 T - 01903 69 44 00 F - 01903 69 44 77 E - sales@euroby.com www.euroby.com

Dust Suppression

Marsh Machinery Ltd
 Dust Suppression Specialists

Units available for purchase or hire
 01606 841925 / 07836 231402
enquiries@marshmachinery.co.uk
www.marshmachinery.co.uk

Turnkey Solutions

CECO + **ETG** Environmental Technology Group

TURNKEY SOLUTIONS

Design, Manufacture and Installation of VOC Abatement and Odour Control Systems

- Thermal Oxidisers
- Carbon Adsorption
- Biofiltration
- Chemical Scrubbers
- Dust Filters and Cyclones
- Distillate and Capture Systems
- Binary Concentrators
- Heat Recovery
- Catalytic Oxidisers

Phone: +44(0)121 550 7079 Email: enquiries@onececo.com
 Website: www.etg.co.uk

Crusher Spare Parts

KEEPING YOUR CRUSHER CRUSHING

We stock a full range of wear and spares to suit all major crusher brands

+44 (0)1443 228329
info@crushersparesttd.co.uk
www.crushersparesttd.co.uk

CRUSHER SPARES LTD

Finance

Cash neutral asset finance for your energy needs

For over 30 years AFM Solutions has been offering long and medium term finance for all your sustainable energy needs.

- LED Lighting & Controls
- Solar Photovoltaic
- Solar Thermal
- Voltage Optimisation
- Biomass Boilers
- Wind Turbines (small)
- Heat Pumps
- Building Management Systems

afm. SOLUTIONS FOR TECHNOLOGY FINANCE

Call or email Mike Baker on 01268 572587
mbaker@afmgroup-solutions.co.uk
www.afmgroup-solutions.co.uk

Terminodour

CSO Group
 AD & Pollution Solutions

Terminodour Ionised Air Solution for Odour Control Applications

www.csogroup.co.uk

Water Solutions

control water solutions

Project Design
 Installation
 Service & Support

Monitoring, Dosing & Control Equipment for Industrial Water Treatment Applications

Tel: 01562 743656
www.controlwatersolutions.co.uk

Energy Metering

TURNKEYaM&T
 Meter and monitor any utility. In house designed hardware and software.

Mbus, SMEs, City Wide Projects, Pulse, Modbus, Large Organisations.

Energy Metering Technology Ltd

www.energymeteringtechnology.com
enquiries@energymeteringtechnology.com
 Tel: 01628 664056

Drilling Contractors

Ground Source & Water Borehole specialists

DRAGON DRILLING

01824 707777 www.dragondrilling.co.uk

Drainage Solutions

Allerton
 Sewage & Effluent Treatment Systems

The Dependable Choice in Drainage

0800 328 5492
sales@allertonuk.com
www.allertonuk.com

Energy Metering

METERING DOCTORS
 LET US SOLVE YOUR METERING PROBLEMS

EMT resolves issues with meters and aM&T systems that have been badly fitted or wrongly installed.

Energy Metering Technology Ltd

Tel: 01628 664056
enquiries@meteringtech.com
www.energymeteringtechnology.com

Air Conditioning TM44 Inspections

CUBIC APPLE

Cibse TM44 (ACEA) UK Wide #1 Independent Specialists
 ATHERSTONE WARWICKSHIRE CV93AD

Tel: 01827 713 870
accounts@cubicapple.co.uk
CUBICAPPLE.CO.UK

Waterless Wheel Cleaning

The DriveOn V-Tech Dry Wheel Cleaning System from Ecogreen Plant Hire Ltd

0800 1303437
www.ecogreenplanthire.co.uk
info@ecogreenplanthire.co.uk

Ecogreen Plant Hire Ltd

Industrial Plastics

Hygrade Industrial Plastics Ltd
 Over 40 Years Experience

COMPLETE RANGE OF ODOUR CONTROL & SCRUBBING PLANT TURNKEY CAPABILITY

- Packed Tower Scrubbers
- Venturi Scrubbers
- Ductwork & Pipework
- Carbon Filters
- Bio-Trickling & Bio-Filters
- ODORGARD® & HYDECAT®

+44 (0)1788 571316
techsales@hygradeplastics.com
www.hygradeplastics.com

Supporting a greener future

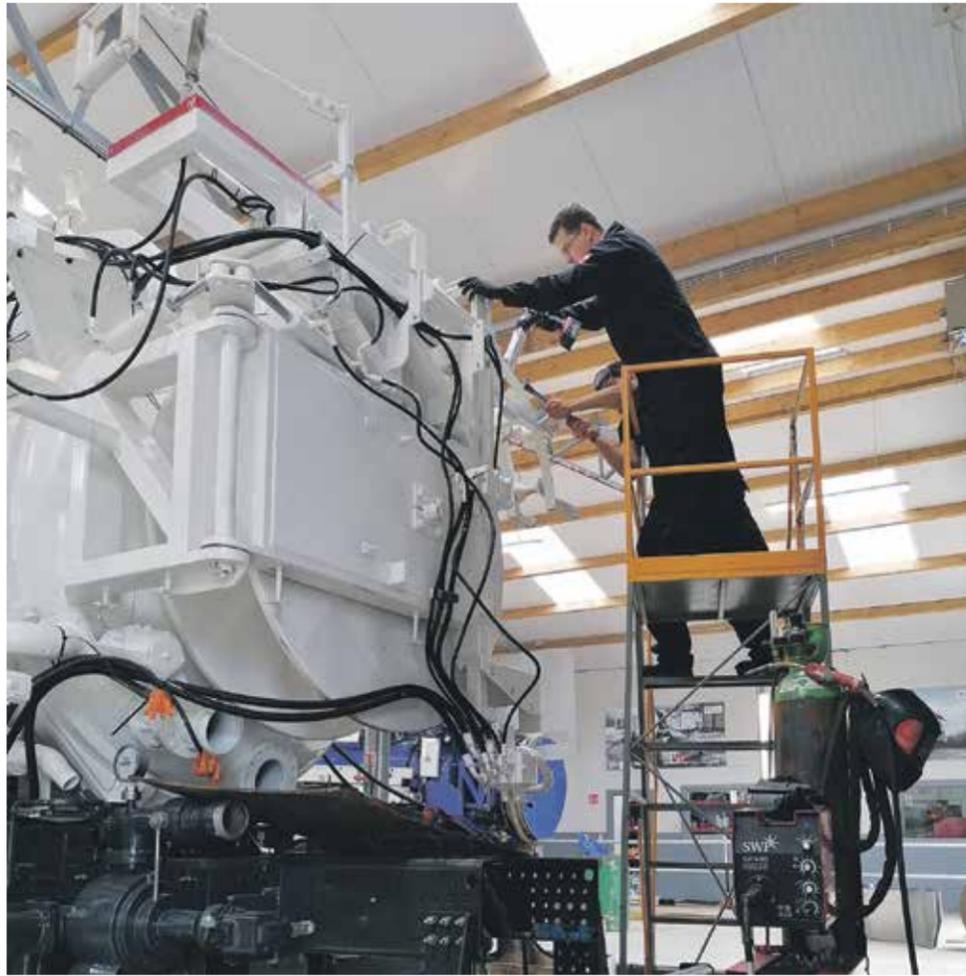
In this issue of Sustainability Today, we are pleased to announce Revive Environmental International Ltd as our Environmental Services Company of the Month.

Established in 2020 by Liam Kearney, CEO, Revive Environmental International Ltd (Revive) remanufacture and develop specialised mobile-environmental equipment for the water, wastewater and sewerage industry. With a commitment to reducing CO₂ through its innovative production processes, its specialised mobile-environmental equipment, otherwise known as 'Units' offer anything from combination units, recyclers, JetVacs, tankers and more.

Revive units are built to last with every vehicle benefitting from additional reinforcements of the OEM subframe, upgrades to the original tank mounts and improvements to the pump supports and hydraulic mounting brackets. "Our whole business model is focused on reduced demand for virgin steel. We remount and remanufacture existing sewer cleaning units creating savings of up to 25 tonnes in CO₂ emissions for each unit," stated Liam.

The production of just one 3-axle sewer cleaner through the remanufacturing of existing units, can help many companies across the UK and Ireland take control of their sustainable responsibilities while drastically reducing the amount of CO₂ in the atmosphere. The benefits of one unit from Revive are far more than just financial, Liam commented, "Our team have extensive knowledge of the industry. We can utilise this experience to develop and improve existing issues with the units we revive, all while ensuring that wastage is kept to a minimum. We work with many companies within the water and wastewater sectors from utilities to local government authorities. We aim to attract the interest of environmentally conscientious business owners who are keen to help us reduce unnecessary waste within the industry."

Each unit is also fitted with a new, fully rewired Revive Siemens operating system, heavy-duty stainless-steel upgrades to the control panels, trays and storage boxes, and improvements to the unit's structure and subframe. Revive re-manufacture a number of combination units, the first being the Revive 15-Cube, designed to handle the most challenging of tasks. This version is fitted with a Kaiser KWP3100 vacuum pump offering unrivalled suction and jetting



power and is perfect for stubborn jobs. Secondly, Revive 10/12/14 Cube Combination Units are some of their most versatile and suitable for almost any task within the water and wastewater industry. These unit sizes are ideal for routine daily jobs such as emptying septic tanks, cleaning pipework and general maintenance of the main sewerage network. Thirdly, the Revive 4-Cube Combination Unit is compact and practical and designed for use in densely populated areas. Its small size enables minimal obstruction and allows access to areas many larger units would find difficult.

The steel used to manufacture just one new tanker releases over 15 tonnes of CO₂ into the atmosphere, and just one tonne of virgin steel releases up to 1.9 tonnes of CO₂. Being non-organic, steel's ability to be recycled again and again without loss of quality means there will in the future be less demand for virgin raw materials. Revive tankers come in a variety of different sizes and options, and so far, Revive has delivered 3,000, 4,000 and 4,200 gallon tankers to customers across the UK and Ireland. Assuring its customers are playing their part in lowering emissions while helping save the planet, Revive has a well-established client portfolio that it is always keen to expand on.

Over the past year, Revive has supplied some of the industry's most well-known companies with their units including DALROD UK, McAllister Group, Lanes Group, and many more.



"Revive's facilities are in Thurles, County Tipperary, Ireland. Our UK distributors, Acumec UK are based in Coalville, Leicestershire. Our mantra is that our work can only make a lasting impact if we have the industry's trust and support. Together we can make a real difference, and when companies order more than one unit, the numbers (in terms of savings) quickly add up. Revive and its clients are Partners in Sustainability," said Liam.

Since it began, Revive has formed many partnerships that have remained reliable and trustworthy. Acumec UK act as Revive's UK distributors and proactively work hard to promote, demonstrate and create awareness in the industry of Revive's products.

Always evolving and



continuously looking to broaden its markets, Liam explained the company's recent successes: "In such a short space of time we have already gained the trust of some established and well-respected clients in the UK and Ireland and have just added a new partner that will be launching soon in Auckland, New Zealand. We have delivered trucks to Eastern Europe and will continue to grow and expand to ensure that the savings we provide are deliverable on a larger scale. Revive was formed during a global lockdown, so we are excited about what the future will bring once restrictions have eased."

As a company, Revive is relatively new to the industry, but has made a large impact already. Despite launching in the midst of COVID-19, Revive has had to tackle all challenges head on and has used specific restrictions to its advantage. "COVID-19 has been challenging for everyone, but we have managed to find positives within the restrictions. We are keen to minimise unnecessary business travel and mobile salespeople and have specifically chosen to utilise social media as much as possible. This approach has been positive for us and allows us to reach a wider audience without overly impacting our carbon footprint," stated Liam.

In closing, we asked Liam how he felt the company's immediate impact to the industry has affected the overall outlook of sustainable business practices. "We are pleased with the steps we have made thus far and hope that the wider acknowledgement on a more sustainable future will only help us to grow and develop. We are confident in the quality of our products and believe that our customers will quickly see the financial and environmental benefits of our units."

For more information, see below.

T (+353) 504 22422
info@rei-limited.com
www.rei-limited.com

