



SUSTAINABILITY TODAY

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Oakwood Environmental Services

We provide focused solutions to a range of Source Emissions, Air Quality and Quality Assurance issues.

The Principle Consultant, Dr Roger Brown, has been involved with Environmental Affairs for over 25 years.

He has pioneered the use of technology to show compliance with environmental legislation, and has been responsible for environmental projects and the establishment of environmental businesses in the UK.



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Assent enables sustainability reporting for manufacturers, rebrands to expand into ESG

Assent Inc. (Assent), formerly Assent Compliance Inc., has launched its new brand as the latest sign of the firm's significant growth as a leader in delivering comprehensive supply chain sustainability management solutions to manufacturers.

Led by Andrew Waitman, CEO, Assent, the Ottawa, Canada-based supply chain sustainability management company is specifically focused on complex manufacturers in the industrial equipment, electronics, medical device, aerospace/defence and automotive industries, whose products have a long design cycle and shelf life. Assent has evolved as a leader in supply chain sustainability management, helping



complex manufacturers see deeper into their supply chains, be smarter with powerful data, and grow better to seize market opportunities.

Assent's current customer base includes household names such as GE Appliances, Bombardier, Cook Medical and Polaris. Complex manufacturers use Assent's

Supply Chain Sustainability Platform to capture, report on and manage supply chain compliance and sustainability performance through supplier declarations. Assent's SaaS technology platform and its regulatory team of subject matter experts help keep customers ahead of compliance and regulatory changes across the globe.

The company is expanding its strategic focus to build upon its compliance expertise with additional sustainability and ESG solutions to help its customers address ever-evolving marketplace needs.

Assent@padillaco.com
www.assent.com/company/contact-us/

Smarti Environmental

Leading waterless urinal provider, Smarti Environmental, is urging the facilities management sector to play its part in the battle against needless water wastage.

The business is encouraging organisations to review their use of flushing urinals amid the UK's growing water crisis. Its research shows that there are currently around 3.5 million water-supplied urinals in the UK, collectively wasting 217 billion litres of water each year.

To encourage the move to flushless urinals, Smarti Environmental is offering facilities management organisations with 100 or more urinals a free trial for 3 months, including free installation of its retro-fit valves. Smaller businesses can also benefit from

savings of more than 50% compared to the cost of running flushing urinals. Smarti Environmental is also offering to replace blocked pipework – the result of the chemical reaction between urine and water in flushing urinals.

Smarti Environmental's Kimberley Hill commented, "Businesses can play a key part in reducing water waste, and one of the simplest steps is switching to waterless urinals. This saves 100,000 litres of water per urinal, per year, cuts related costs by over 50%, and CO₂ by 105kg per urinal."

Smarti Environmental's valves fit 98% of standard urinals with no need to change urinal bowls.



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SafetyCulture

- UK retailers facing sustainability pressures to get free access to digital tools in new initiative from SafetyCulture
- New Retail Sustainability Initiative grants UK retailers free access to digital operations platform iAuditor
- Dedicated sustainability checks and resources will support organisations looking to move to greener ways of doing business

The retail sector, which continues to feel the economic fallout of the pandemic, is now battling increasing pressures to reduce waste, emissions, and its global environmental impact – against the backdrop of soaring global energy prices.

To tackle this issue, operations platform SafetyCulture is offering UK retailers free access to its iAuditor app to kick off its new Retail Sustainability Initiative. The technology will be free for teams of up to 10 users, giving them access to ready-to-use digital audit templates on sustainability and issues reporting, as well as thousands of additional templates on brand standards, loss prevention, store inspections, & more.

Nicky Chenery, General Manager EMEA at SafetyCulture, said, "We've seen first-hand the challenges faced by the sector, working with brands including American Golf, Decathlon and Pets at Home. Offering our platform free for UK retailers of all sizes alongside dedicated sustainability and retail operational checklists can help those at the start of their journey."

Learn more about the initiative: www.safetyculture.com/retail-sustainability-initiative

TANA Recycling Machinery UK



TANA Recycling Machinery UK has a mission to provide customers with simply more money on the bottom-line with cutting-edge technology in solid waste management. All TANA products aim to provide maximum efficiency and profit to make waste management businesses thrive. TANA machines are designed with skill and experience using the best components available. All products are manufactured from the TANA headquarters in Finland.

When using the right machine, waste can be transformed into valuable raw materials. Reducing, re-using and recovering waste to manage waste sustainably can be done profitably. Efficiently recycling waste by conventional means is notoriously difficult, and in most cases only a certain percentage of the waste ends up recycled. But what if there was an easier way that recycled waste from a variety of materials?

We are lucky enough to have the most versatile machine on the market, the TANA Shark Shredder. General waste, mattresses, tyres, wood, plastic, C&I, C&D the Shark can handle them all and more. Pair that with excellence in service and you have a winning formula.

There are many applications to which the TANA Shark shredder can be used. It can shred all kinds of end-of-life tyres. These could come from cars, trucks, aircrafts, and heavy-duty vehicles and can be difficult to recycle. The TANA Shark uses high-torque shredders to make it possible to shred tyres to an 80mm particle size in just one pass and separates most of the metal wires directly from the shredded material flow on the conveyor. The steel wiring is removed in the shredding process by an over-band magnet in the unloading conveyor. Once separated, shredded tyres and metals can be sold and reused in many ways.

In support of the TANA shredders range, TANA ProTrack® offers the possibility to significantly improve the engagement of personnel to a company and their work. TANA ProTrack® allows users to track their operations in real time enabling them to see the numbers and understand the waypoints that in turn will increase work efficiency.

Customers of TANA Recycling Machinery UK operate in a variety of areas amongst the waste management industry. The team at TANA Recycling Machinery UK's job is to help customers do their jobs as easily, cost-effectively, and eco-friendly as possible. Their efforts and proficiency in achieving that goal has been recognised recently as they received the honour of accepting the Sales Team of the Year Award within the business.

Find out more at: www.tanauk.com



Blaxtair is the solution for safety on recycling sites

After several years of partnership with Arcure, the recycling leaders in Europe and the USA (Suez, Veolia, Paprec...) have just surpassed the 1,500 Blaxtair systems installed on recycling sites in France for the protection of pedestrians around handling machines (loaders, excavators and forklifts). This makes it one of the largest Blaxtair fleets out of more than 12,000 units in operation worldwide. Franck Gayraud, CEO of Arcure explained, "Using Artificial Intelligence, Blaxtair is the only smart 3D camera able



to distinguish a person from another obstacle in real time and alert the operator to the danger, without unnecessary alarms. Blaxtair enhances people safety, working conditions and productivity." To make full use of the data collected by Blaxtair, some of the waste management companies have also been deploying the Blaxtair Connect connected solution, which provides information on machine use and the mapping of hot spots on sites. Thanks to this data, Occupational Health and Safety Managers can act proactively on a daily

basis on the risks of machine/pedestrian collisions and thus drastically reduce them. Since the adoption of Blaxtair by the French national leaders in the recycling industry, several German and American companies have followed suit, making Blaxtair the reference solution in the recycling market, which represents some 80,000 machines to be equipped in Europe and North America.

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Water Management News



Using Water & Resources sustainably

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EMEX: Reduce your energy use

Energy is a cost to most organisations that has grown as a proportion of overall expenditure in recent years. And yet, there is considerable potential within most organisations to make large energy cost and carbon emission savings through the installation of energy efficiency measures.

EMEX, held at London's ExCeL from 24-25 November 2021, connects all industrial and commercial energy consumers with leading experts, policy makers and suppliers. EMEX is more than just an event. It's a platform where practitioners and experts from various backgrounds and sectors are coming together to share their knowledge and experiences from successful implementations of energy efficiency strategies.

Whatever the size of your business there is an opportunity to find more efficiency in your energy use. Applying silo thinking to energy management rarely delivers the maximum savings possible. A far more effective approach is to focus on the whole operation and identify the interdependencies between each function.

With this broader view, it is possible to develop and implement solutions that deliver greater cost reductions by increasing energy efficiency across multiple facilities, reducing maintenance costs, reducing water consumption, decreasing production downtime, removing supply chain costs, delivering a return on investment, increasing business assets value and enhancing workplace productivity.



This year's EMEX takes place from 23-24 November 2022 at ExCeL, London. This is our pick of the best exhibitors from last year's show, listed here in alphabetical order: Aceleron, B2B Energy & IC Synergy. Further details can be found on this page.

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IC Synergy

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With an excellent range of energy services, icSynergy's standout service is the energy management system. This SaaS platform enables businesses to monitor and measure their energy usage across the entire business at one or multiple sites.

The system provides energy, water, GHG, waste and project management modules as well as environmental reporting that complies with ISO 50001 requirements. The flexible software system and simple financial model, with its pay per point means you are in control of your costs at all times. Businesses can measure at a top level by monitoring at the main incoming utility meter/s, and in a lot more detail by monitoring disparate distribution points around your premises or even at each appliance.



IC Synergy provides a one stop shop for all of your energy management requirements. Whether this is a need for an energy audit, consultancy on part of a project, an energy management system, or a full energy reduction project, icSynergy will facilitate and support your business through the journey.

www.icsynergy.co.uk

There are not enough 'Energy Experts'

I have always known that there are not enough energy consultants in the UK. If the government announced tomorrow that we were to reduce our emissions immediately and all businesses had to appoint an expert, it simply wouldn't happen.

It is not just the volume of experts, but the quality of the expert.

The world needs experts who have a clear understanding of all energy services with the experts needing to understand data, procurement, and energy management.

The key area however, is to deliver implementation which is one thing we all really have to embrace. If we do not embrace implementation, then the whole process will collapse and it all becomes a waste of time.

I have an energy management process that follows the Review, Realign, Reduce and Report procedure. It is becoming a 'language' that I teach my students around the world that delivers an 11 Week Energy Program.

The whole combined package of principles and process, all form part of the 'ART' of energy management, as it is an art. In organisations, it brings Awareness, Reward and Training. It takes organisations from 'plan to implementation'.

"We all speak different languages, but we all speak the same language of reducing emissions."

Contact: Paul Webb, MEI Chartered Energy Manager, Director, B2B Energy Ltd sales@b2benergy.co.uk www.b2benergy.co.uk



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The Essential

Circular economy batteries set to change the way we view energy storage



Award-winning clean technology company Aceleron has designed and built the world's most sustainable, low-waste Lithium-ion battery products available. Anticipating a future with tonnes of unnecessary battery waste, co-founders Dr Amrit Chandan and Carlton Cummins designed and built the Essential, with the aim of stopping the world from seeing battery products as disposable items.

Using a patented compression technology method, each individual part of the battery can be accessed either for repair, upgrade or replacement, with replaced parts being easily recycled or repurposed. The Essential offers up to four times the cycle life and three times more continuous power than a lead-acid battery and can provide uninterrupted, reliable power at several different voltages.

Using the same technology, Aceleron has also launched a compact circular economy Battery Energy Storage System (BESS) called Offgen. Created for off-grid or grid-tied residential and light commercial use, it is designed to work with solar PV systems and has several benefits including easy installation, flexibility and the ability to be upgraded, which significantly improves the return on investment whilst also reducing battery waste. Operating at optimal performance at all times, Aceleron products have an endless lifespan which is kinder to the planet, keeps long-term costs down and contributes to the circular economy.

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Environmental Testing & Monitoring News

Honeywell Transmission Risk Air Monitor

Honeywell is introducing a new, cost-effective monitor for use in schools, restaurants, offices, homes, and all other occupied spaces. The device alerts users when conditions are present that may increase the risk of exposure to airborne viral transmission in an indoor area.



The Honeywell Transmission Risk Air Monitor is an easy-to-deploy, portable device that measures carbon dioxide and features a proprietary risk alerting system based on different activity levels within a room. This allows end users to proactively improve indoor ventilation, which according to the US Centres for Disease Control and Prevention, can help reduce the spread of certain diseases and decrease the risk of exposure among building occupants.

Research conducted by scientists at the University of Colorado has shown that real-time monitoring of indoor ambient air can be an indicator of increased risk of airborne viral transmission, utilising different levels of risk-based factors such as CO₂ concentration levels and the type of human activity in the area.

Using this guidance and Honeywell algorithms, Honeywell identified air quality conditions that are driven by common activities and variables such as average room size, number of people present, breathing rate, and duration. The device comes with three pre-programmed indoor activity settings: low activity (movie theatres, libraries, and classrooms), medium activity (restaurants, offices, small clinics), and high activity (gyms, indoor arenas, recreation centres) and is recommended for coverage of 800-1,000 square feet.

For each setting, the monitor provides indications using a traffic light pattern (green, yellow, or red) and a sound alarm so users can be aware of conditions that may increase the risk of airborne transmission based on detectable CO₂ levels.

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Glamping attracting older and greener consumers

As the glamping market matures and the demographic widens beyond the core millennial sector, so does the demand for more up market, sustainable, accommodation.

"Consumers are looking for more innovation, luxury, and all year around usability," says Rik Currie, CEO of Anthropods, the Yorkshire-based design and build pod manufacturer. "They also want to know what is going into

their pods and where the materials are sourced," he continued.

Anthropods has made a play of its green credentials since launching in 2018. All timber comes from renewable forestry sources and the pod's insulation is made from recycled plastics. "We are constantly evaluating our suppliers and looking for ways to reduce carbon impact; for example, we are starting to use ground screws to secure the pod legs,

instead of concrete pads," said Currie.

There is an increased demand for off-grid Anthropods, using solar power for lighting and a new waterless toilet. Prices range from £23k-£56k. They offer a Planning Service for £500.00 returnable if you purchase. Finance also available.

More details at: www.anthropods.co.uk
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Sustainable Print & Packaging News

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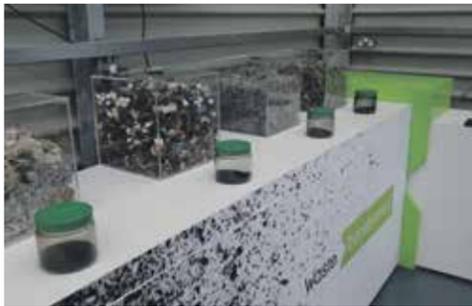
72_2018

Next level innovation in waste transformation, material recovery and carbon sequestration



In this issue of Sustainability Today, we are pleased to announce PyroCore as our Waste Transformation Company of the Month.

In 2018, 3TFinance took over an existing pyrolysis technology and created PyroCore. Since 2018, 3T have invested over £25 million into the continuation and further development of this technology. This has led to the delivery and commissioning of four units onboard Queen Elizabeth class aircraft carriers and a commercial demonstration and research facility with a capacity to process throughputs from 5kg/h



up to 500kg/h. The three units are used to conduct detailed trials of their prospect's waste, demonstrate the processing of similar wastes, and conduct research on other troublesome waste streams. Through testing, PyroCore provides accurate real-world data on efficiency, energy outputs, and material recovery. This enables them to work with industry to improve circularity, carbon capture, and Corporate Social Responsibility.

For example, they successfully recovered glass & carbon fibres from wind turbine blades and aluminium from aluminium plastic blends such as crisp packets and coffee cups. The recovered materials are then further treated to increase their value and application possibilities.

At the core of the PyroCore solution is the Phoenix. The Phoenix is a continuous and self-sustaining commercial unit that processes 500kg of waste an hour. The system has a modular design allowing it to be used for a variety of applications, offer a range of benefits, and ultimately make the technology future proof and flexible. These additional modules include

electrical generation, waste preparation and material recovery. The process can be operated between 600°C & 900°C depending on the Feedstock. This adds another layer of flexibility as the temperature can be adjusted to allow customers to run different waste streams at different times.

The key to the solution is that it empowers the customer with the control of their own waste streams by ensuring disposal method & cost, adding circularity, and freezing energy costs up to 2MWth.

Alexander Van Heuverswyn, the commercial director of PyroCore, would like to add that it is not only material recovery that separates PyroCore's technology from conventional thermal waste treatment as the Phoenix also captures 40 to 50% of the carbon in the char as opposed to being released. Moreover, he stressed that Carbon capture and sequestration (CCS) is an integral part of the industry's move towards net-zero. Adding that, the Phoenix has the capability to trap carbon in solid form and produce biochars for use in agricultural remediation.

Based in their new Avonmouth headquarters,



PyroCore has consolidated its offices, commissioning and demonstration facilities to one location. The headquarters is home to a team of 25, including 17 engineers, who are focused on providing solutions for a better, cleaner future. This consolidation allows for a true end to end experience for visiting prospects and has created unity in the purpose of PyroCore and its sustainable journey.

Demonstrating and supporting a circular economy, we spoke to Alexander Van Heuverswyn, about the benefits PyroCore delivers to its customers. He answered, "Besides our elaborated waste testing capabilities, which make us unique, the fact we propose a flexible solution to a specific waste problem is what differentiates us from the rest. A solution which focuses on increasing the circularity and reaching the net-zero carbon commitments of the customer." These benefits are a great way to increase income whilst enabling companies to save time and money and improve their overall brand values.

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Environmental Testing News



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Solent Gas Consultants Ltd. Supply of City Technology Gas Sensors

Solent Gas Consultants Ltd was founded in 2019 to provide a customer focused consultation and technical authoring service to the gas sensing community. We supply the complete range of City Technology gas sensors, including the new AQ3 and AQ7 air quality sensor range, the new intelligent iSeries sensor range, and the CRIR M1 commercial CO2 sensor (for ventilation and office air monitoring applications).

Ambient Air Quality AQ3 Sensor Range

City Technology's new AQ3 Series of sensors are specifically designed for ambient air quality monitoring applications.. The range includes sensors for carbon monoxide, sulfur dioxide, nitrogen dioxide, and ozone. The custom-built, low noise board enables high accuracy, low level ppb monitoring.

Key Features

- Low-noise PCB enables high accuracy, low-level ppb monitoring
- Individual compensation for temperature and cross sensitivity
- High correlation with control station
- Multiple gases - CO, H₂S, O₂, SO₂
- Low ppb detection level
- High resolution



CRIR M1 Commercial Carbon Dioxide Sensor

The CRIR M1 Commercial Carbon Dioxide (CO₂) sensor in a high performance, single channel, non-dispersive (NDIR) sensor, designed for HVAC, ventilation and office air monitoring applications.

Key Features

- UART digital interface
- Automatic baseline and temperature compensation
- Enhanced, long-term stability
- Self diagnostics
- High accuracy



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A market leader in HVACR

In this issue of Sustainability Today, we are proud to announce that we have selected Sauermann UK as our Indoor Air Quality Solutions Company of the Month.

Sauermann UK is part of Sauermann Group, which specialises in the design, manufacture and sale of products and services for the industrial and HVACR markets. Sauermann Group covers the whole HVACR market for measurements and even with condensate pumps for air conditioning, refrigeration, and heating. The Sauermann Group develops and manufactures indoor air quality (IAQ) monitoring tools and condensate removal solutions for HVACR professionals, specifically the group is focussed on the detection, measurement and control of indoor air quality.

The group maintains two side of the business, operating two main brands: Sauermann and Kimo. Sauermann Group was founded in 1976 in Chevy, France. Since its inception, Sauermann moved into the international condensate detection and removal pumps market. The company later expanded and became a group, which further expanded its business to include air quality measurement instruments and acquiring a number of other brands: Kimo (France), E Instruments (United States) and Megatech (Chinese distributor). Sauermann UK was established in October 2004 by Ernest Bate the Managing Director and KIMO was founded in 1979 in Montpon, France.

Sauermann UK manufactures condensate pump solutions using its own piston technology for the HVACR industry. Utilising its patented pump technology, results in higher efficiency, longer life, and reliability for HVACR systems. In HVACR systems, condensate water is collected, and a removal solution is necessary to dispose of condensate by-product.

Sauermann UK has built a strong reputation for its innovative product calibration and design, with 20 patents to its name. The company utilises the expertise produced by its R&D teams and several metrology laboratories ISO/IEC 17025 accredited. Additionally, Sauermann UK also sells its own products, and is committed to customer service, providing on-site and after-sales services in accordance with market demand.

A few noteworthy feats within Sauermann UK's range include the Delta Pack and new combustion gas analysers (Si-CA 030/130/230).

The Sauermann Delta Pack is one of the company's most popular products. The Delta Pack is designed for wall-mounted air conditioning units, in areas where a visible condensate pump may not complement a rooms aesthetics.

The updated Delta Pack design was designed to provide easy installation and maintenance, and benefits from the Si-10 UNIVERS'L pump, which incorporates Sauermann UK's patented piston technology which can pump up to 20 litres per hour. The design features a new quick fit and release corner piece, which opens with a finger push and requires no tools. The improved design uses a compact elbow and trunking design that can be easily opened for maintenance and also boasts an improved internal space design, with increased space for pipework. With an eye for detail, the company offers the Delta Pack in two colours: Brilliant white (RAL 9003) and off white (RAL 9001).

In addition, the Delta Pack elbow includes 'High Energy Absorbing Foam' which produces a quiet



solution by absorbing vibration and sound. The anti-vibration and condensate insulation is also included on discharge line.

The company prides itself on listening and understanding the needs of the industry and after reviewing feedback from HVACR engineers, Sauermann UK's combustion experts have developed devices that improve productivity and efficiency.

Another innovative product is the DBM 620 Air Flow Meter, the latest iteration of its air flow meter line. Featuring a new updated design, the DBM 620 provides a dynamic indoor air quality solution for market sectors such as industrial facilities, office areas, laboratories and cleanrooms.

"The DBM 620 allows users to calculate the Air Changes Rate on our mobile app. The purpose of this product has become more prevalent due to Covid and there being new CO₂ concentration rate recommendations in buildings," said Karis Gorst, Communications Officer.

The cost-saving Air Changes per Hour (ACPH) metric is an innovation and first of its kind to be included in a balometer. The DBM 620 incorporates several new features, specifically designed to improve the unit's accuracy and its overall utility in both normal and hazardous conditions.

Firstly, the all-new DBM 620 has been reengineered, making it far more efficient for installation and take down. Incorporated in its design, the DBM 620 uses a patented lighter and foldable frame, using lighter weighted, more durable carbon fibre rods. This in turn, creates a far more compact design, resulting in less space being taken up in a work vehicle. Another benefit



is DBM 620's extendable tripod, which provides a far more efficient process for most applications, as a technician will not need to use a ladder to record readings from most ceiling vents. Not only does this help technicians

work faster, but it also reduces risk and increases safety.

In addition to its lighter weight and a compact design, the new DBM 620 balometer is an innovative solution for field technicians, providing unmatched versatility. Versatility is achieved through a multitude of features including the ability to switch between one of five different hood options to find the perfect fit for gathering sample data, a Pitot tube which enables it to function as an autonomous micromanometer, and for vents too large for the hood options, the DBM 620 can use the included grid system on its own, freeing up even more space in a work vehicle.

Furthermore, the DBM 620 is highly intuitive and is a fully 'Smart' device, which enables it to provide remote display capabilities, accessible to the user via their smartphone. This makes collecting data more efficient and straightforward, and the instrument is even equipped with a holder for a smartphone, to hold the phone for users when taking measurements. Using the SmartKap app allows users the ability to calculate Air Change Rate (ACR) automatically from the measurements taken. A very important measurement to take since the development of COVID-19.

The DBM 620 has been designed by Sauermann UK's engineers, based on an extensive review of the competitive landscape and solicitation of feedback from installers. Through this data, expertise and experience, in combination with Kimo Instruments' years of R&D experience in product development, has led to creating



a standout product, with industry leading capabilities.

In 2015 the Sauermann Group acquired an instrumentation manufacturer KIMO. KIMO offers a wide range of measuring and control solutions for HVACR technician and industrial applications. "Our instruments specialise in measuring air parameters and indoor air quality (IAQ), designed to monitor buildings' aeratic systems, cold chain protection and thermal machines' combustion efficiency. We design and manufacture our own instruments by our own R&D department and own factories. We also do services as metrology experts with certified ISO 17025:2017 in-house labs in France, Spain, and China," added Karis.

Sauermann Group's HQ is based in Montpon and the group maintains holdings in Brussel, and Sauermann UK is based in Blackpool. The group has a worldwide presence, and is located on three continents; Europe, Asia and North America, with 12 sites (including four production plants) and employs over 400 people.

Sauermann UK boasts many benefits for customers, including the use of its own piston technology in its range of condensate removal pumps and patented dual wave piston technology for mini pumps offering unrivalled performance. Karis expanded on the company's industry leading expertise, "We also offer auto-calibrated pressure sensors in high end manometers. Our subsidiaries adapt to local markets with large teams to advise customers. We have a long-standing history of working in collaboration with high tech industries and pharmaceuticals. Plus, our partnership with big commissioning, test and balancing, and maintenance professionals. We have a focus on improving professional efficiency with ultra-reliable, fast, and easy to operate instruments. We utilise the latest technologies and mobile apps to stand out from our competitors, also."

In terms of its services offering, as a market leader, Sauermann UK is able to provide a comprehensive solution, covering a wide range of services. Sauermann UK prides itself on supporting its excellent range of measuring instruments with unmatched customer service. This is achieved through working closely with its diverse range of clients, which includes installers, contractors, maintenance engineers, plant managers, and technical specialists from a wide variety of sectors.

Offering a full suite of services, Sauermann UK provides instrument calibration and repair, instrument hire, field support and on-site calibrations, & a comprehensive range of training.

Regarding its training, Sauermann UK offers a broad range of hands-on training, for customers, end users, maintenance and/or aftersales technicians, distributors and other industry



and Indoor Air Quality

professional. These include General trainings on metrology and calibrations: Air flow, Air velocity, Combustion, Humidity, Pressure, Acoustic measurements, Specific trainings on Sauermann instruments and products and Technical trainings: first level (adjustment) and expert (repair.)

Through continuous development, Sauermann UK is constantly evolving its offering and as such, the company is launching a new generation of digital combustion gas analysers in the UK, which have already achieved record-breaking sales in the US.

The comprehensive new range of digital combustion gas analysers have been created for maintaining combustion equipment across residential, commercial and industrial applications. The range incorporates the latest technologies and has been expertly designed by the company's in house R&D engineers.

The range is comprised of three new measuring instruments: the Si-CA 030, Si-CA 130 and Si-CA 230 models. All three models are able to connect wirelessly to the free Sauermann Combustion app for Android and iOS smartphones and tablets, thus allowing engineers to control the analyser remotely, gain insight into measurement results in real time, and compile them into ready-to-export reports. The devices are equipped with a large colour display, meaning they can be used as standalone analysers, and the 130 and 230 models feature a large 4.3-inch touchscreen display with a customisable graphical user interface for gas analysis, delivering superior flexibility.

In more recent news, Sauermann UK has been continuing to expand and develop its range offering and is currently adding to its HVACR instruments, to include a new gas leak detector, refrigerant detector, and hotwire thermos-anemometer. Furthermore, Sauermann UK is developing its factories in France and China and its operations, in-line with Industry 4.0 and the Internet of Things (IoT). The result of these developments sees the company move toward robotisation and implementing a massive digitalisation across the company.

In other recent developments, the effects of COVID-19 have created new varying challenges for most businesses and industry sectors. Sauermann UK was busy throughout the pandemic, as the company supply to critical business sectors. During this time, Sauermann UK and the world, have seen the importance of IAQ, especially in regards to the COVID-19 virus. Karis told us that, "The pandemic has brought into focus the importance of IAQ. As our mission is to provide solutions for superior IAQ, our products have provided solutions for many business sectors. For example, face mask manufacturers and ventilation systems in businesses and schools. We have also provided

a lot of hospitals and labs with our instruments. Especially our CPE 310 for differential pressure. CO₂ concentration rate and air change rate have become more and more important for mitigating contaminations since the pandemic began. Being a global company, the pandemic has impacted the business but also boosted it."

Indeed, Sauermann UK's industry leading skills

and innovative products have been a valuable asset for businesses during the pandemic, and moving forward, Sauermann UK maintains many plans to continue developing and innovating its customers and industry sectors. Furthermore, the group plans to consistently set new standards for electronic and mechanical performance. Karis explained, "In the UK we plan to expand distribution for measuring instruments. Our R&D

team aim to constantly push the boundaries of innovation focusing on ergonomics, digitalisation and connected devices. Along with the constant improvement of the electronic and mechanical quality of our measuring instruments and condensate pumps."

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Leachate Solutions expands into new sector in Wastewater Treatment

In this issue of Sustainability Today, we are pleased to announce Leachate Solutions as our Leachate Treatment Company of the Year.

Leachate Solutions specialise in Leachate Treatment and are the UK's only designer and manufacturer on the market of airless CH₄ (methane) stripping plants for water and leachate. Maintaining a greener future, Leachate Solutions provides a full turnkey service to its customers helping them to design and deliver new innovative solutions to previously problematic processes. They also test and maintain existing leachate extraction systems within their business.

We spoke with Carl and Jane Rostock, Founders and Directors of Leachate Solutions who explained the company's main principles and services. "We offer a new and alternative process for the treatment of dissolved Methane. It's really cost-effective and runs alongside our environmental credentials that are paramount to our business practice. We search for the greenest modes of engineering, from the materials we choose through to the entire production, even the electric pumps we use are the most economically, environmentally friendly pumps on the market."

COVID-19 has most certainly had a large effect on UK economy, with many businesses struggling to get back on their feet. Leachate Solutions has responded remarkably, with early insights showing that the past 12 months have been the most successful for the company in the last seven years. Carl commented, "It's fair to say we have had an excellent 12 months and long may it continue. We have just completed two



Carl Rostock, Director, Leachate Solutions, accepts the Company of the Year award

Continuing on the company's last 12 months success, we asked Carl how sales fared in comparison to forecast, he answered, "Sales have been fantastic. They have at least doubled, and I would go as far as to say even tripled! We have just completed two projects, and we have projects waiting in the background from our steady influx of customers. We are incredibly busy, and we couldn't be more grateful, but also, we have worked very hard to get where we are, so it is a well-deserved position to be in and a credit to our entire team for all their hard work."

With no two projects ever the same, Leachate Solutions have developed a versatile and flexible way of working that ensures every client requirement can be met to the highest standard and within the agreed deadline. A new recent development for the company sees them active in a brand-new sector of 'contaminated water clean-up' to which it has never entered before.

Carl explained, "We are currently developing a treatment plant for a demolition company. They are demolishing old gasometers on the South West Gas network. Some of them are over 100 years old and are full of contaminated water. This water, some 6.5million litres, has to be cleaned up prior to discharge into a public sewer. So we have made certain adaptations to our standard treatment plant in order to filter out Hydro-Carbons and suspended solids to meet the discharge consent. The first is due to be delivered to their site in Plymouth on March 31st." Jane added, "It's an additional service, an



add-on if you will to what we currently do that will feed into a number of other sectors and be a service that we can offer to many clients. This project has gone from a phone call concept to a design and delivery within six weeks. We worked closely with our client to deliver what they needed within their tight time frame."

With the current state of the economic climate and delays to sourcing and delivery of specific equipment, this has been a fantastic achievement for Leachate Solutions and speaks volumes for its undeniable commitment to excellence, due in no small part to the excellent relationships held within their supplier network, including Pumping Solutions (UK) and their superb Service providers, JPR Engineering in Burscough.

Leachate Solutions delivers the highest standards that are both ethically and theoretically correct. They work alongside Dr Mike Fischer, Technical Director and Company Scientist at Biochemit Environmental Ltd, who advises on the chemistry that is involved in each project. From this, customers can be assured that everything Leachate Solutions delivers has a proven theory behind it and is according to industry standards.

The flexibility of Leachate Solutions is undeniably one of its strengths, as the requirements of its clients are always changing. By utilising the latest technology where available and injecting their years of technical know-how and expertise, the process of stripping dissolved methane from water and leachate discharges through their treatment System, is now seen as Best Available Technology (BAT) as it creates a more efficient, safe and compliant discharge and



is a service that is completely unrivalled and unique within their field.

Going forward, we asked Jane what the company's plans for the future entail, she responded, "We will continue to develop solutions that run-in line with our customers' needs. We will continue growing organically and at a pace that is attainable, not rushing into anything. We will also be looking to expand our workforce over the next year to accommodate for our growth."

Carl added, "It's always a positive to receive such awards in the industry and to be recognised for all our hard work. As a company, we embrace new technologies and put into them what we already know, and that's why we come highly recommended by all of our clients. Our solutions offer strong environmental benefits to the planet and to the customers business, and receiving this award gives us a great platform to talk about it."

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Contamination & Geotech Expo 2021

The organisers couldn't be prouder with the result of the long-awaited 2021 edition of The Contamination & Geotech Expo. They would like to thank the visitors who came to support the event. The event took place on 22-23 September at the NEC, Birmingham, connecting the industry once again after a challenging 18+ months. Alongside this, the contamination, geotechnical and environmental industries already find themselves in an ever-changing environment, from government legislation to new projects and the increasing threat of climate change.

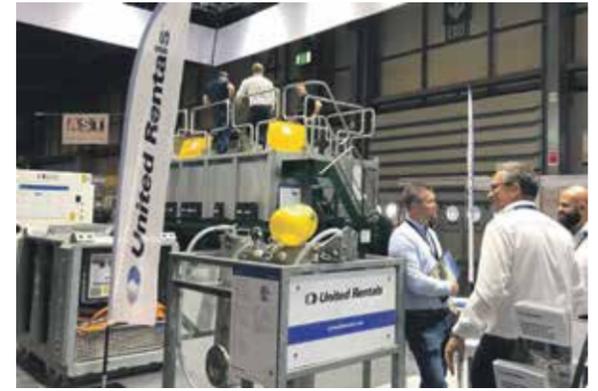
It was clear that the industry was relling in the opportunity to reconnect and meet face-to-face once again to connect with industry peers and prospective business connections. The exhibitors, sponsors, speakers, partners, and of course the attendees at the Contamination & Geotech Expo are vital for the industry's continued development through innovation, collaboration and knowledge sharing—making it the most important 2 days in the calendar for contamination, geotechnical and environmental professionals.

Covering all aspects of land, water, and air

contamination, insight and learning were high on the agenda with the 7 specialised zones and a seminar programme full of expert-led CPD accredited sessions, panels, and demonstrations.

The Expo returns to Birmingham's NEC next year from 14-15 September 2022. This is our pick of the best exhibitors from last year's event, listed here in alphabetical order: Acoem UK, Coir Products, Hygiene Pro Clean & Institute of Explosives Engineers. Further details can be found on this page.

www.contaminationexpo.com





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Acoem UK

Acoem UK's core purpose is to help our customers find the right balance between progress and preservation – protecting businesses and assets, and maximising opportunities while respecting the planet's resources. Human activity does not have to get in the way of protecting the environment, nor do sustainable practices have to get in the way of human activity. We offer products and services that prevent and control air, noise and vibration pollution, increase the productivity and reliability of industrial machinery & contribute to

the development of effective, robust & noiseless products.

According to the UN, net zero means we are not adding new emissions to the atmosphere. Emissions will continue but will be balanced by absorbing an equivalent amount from the atmosphere.

We signed the Pledge to Net Zero which means that we will set and commit to a science based carbon reduction target, publicly reporting our emissions



and progress against this target. The challenge is real and our hope is that by documenting our journey, we can help other businesses to begin.

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Coir logs are made of coir that is trapped inside a biodegradable coir twine or PP netting to form a log shaped structure, while coir sheets consist of layers of fibre with a natural rubber latex layer added on to it to hold the fibre together. Our coir blankets can be used to help control wind erosion on slopes and in wetland environments.

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Tusker, Sustainability Today's Company of the Year



Following a year of exceptional results in its core business of the provision of environmentally conscious salary sacrifice car benefits schemes, and in recognition of its outstanding commitment to the environment, we are delighted to announce Tusker as our Company of the Year for 2022.

Specialising in the provision of salary sacrifice car schemes for companies of all sizes, Tusker continues to make a positive environmental impact both for the drivers and companies it serves, thanks to its stellar record in carbon neutrality since 2010.

Earlier this year, Tusker went further still, announcing it had become a net-positive contributor to the environment by offsetting more carbon than they were responsible for, and had surpassed the milestone of offsetting more than 250,000 tonnes of carbon via Verified Carbon Standard programmes.

Furthermore, from 2022 onwards, Tusker has expanded its carbon offsetting to include the emissions produced through the charging of its EVs, which are calculated using UK grid averages. By using the 'worst case scenario' emissions in these calculations, Tusker is ensuring that it offsets appropriately for all EV customers and not just those on green energy tariffs.

Paul Gilshan, Tusker's CEO, was delighted to receive the award on behalf of the company. "Ensuring the sustainability of our choices as a business has been a cornerstone of Tusker's operations since 2009; it's at the heart of everything we do. In championing the benefits of salary sacrifice as the most economical means of EV adoption right from the start, we are proud to have made a substantial difference to the employee benefits landscape, helping the UK's drivers into new, affordable, and environmentally friendly vehicles. For many of our drivers it's the first time they've driven a brand new car, let alone an EV, as the average age of the vehicle they move from is over 8 years old.

"This award comes in the same month in which we have announced that we are on course to achieve Net Zero by 2023, a full seven years ahead of the national target and that we have also surpassed the milestone of offsetting more than 250,000 tonnes of carbon emissions while doing so. To be awarded Company of the Year by Sustainability Today is a testament to our ongoing commitment to the environment and it's an award of which we are very proud.

"Whether an employee salary sacrifice car



Paul Gilshan, CEO, Tusker

scheme or a more traditional company fleet, we offer a full range of leasing services to companies of all sizes, including contract hire and daily rental options. While we have always offered unrivalled individual benefits, Tusker is also the only company to offset tailpipe emissions AND all emissions produced by our EV drivers who may not have access to green tariffs for charging.

"We do this using the Verified Carbon Standard offsetting project, which ensures measurable carbon offsetting, recorded by internationally recognised bodies. We offer this offset as standard across our contracts, whether for EV, hybrid, or ICE vehicles. With Tusker, drivers can be confident that their carbon neutrality is guaranteed, and that it's not just a case of corporate grandstanding.

"This recognition of Tusker's sustainability profile marks a tremendous achievement for the company, it is one which we believe goes unrivalled within the leasing industry. As a proudly carbon positive contributor to the environment, a member of the EV100 group of companies and a founding partner of World EV Day in 2020, we are pleased to have helped some of the UK's major fleet owners significantly



lower their emissions through our innovative schemes. We count large blue-chip companies such as EQUANS, British Airways, EDF and Astra Zeneca among our customers, as well as hundreds of other smaller businesses. There is no fleet too big or too small to gain from a car benefits package.

"While the EV revolution is underway amongst our customers, we are very aware that an electric car may not be the best possible solution for every driver. To ensure that no one is ever in a vehicle that is unsuitable for their needs, we have a team of independent, impartial experts on hand to review car choices with every single customer. We know that some people still aren't ready or able to go electric, but as we still cover these motorists through our carbon offsetting program so everyone can be assured that they are motoring sustainably. On top of this, for those new to EVs, the same team is on hand to help customers better understand batteries, charging and range options, to take any possible stress or confusion out of their first foray into driving electric.

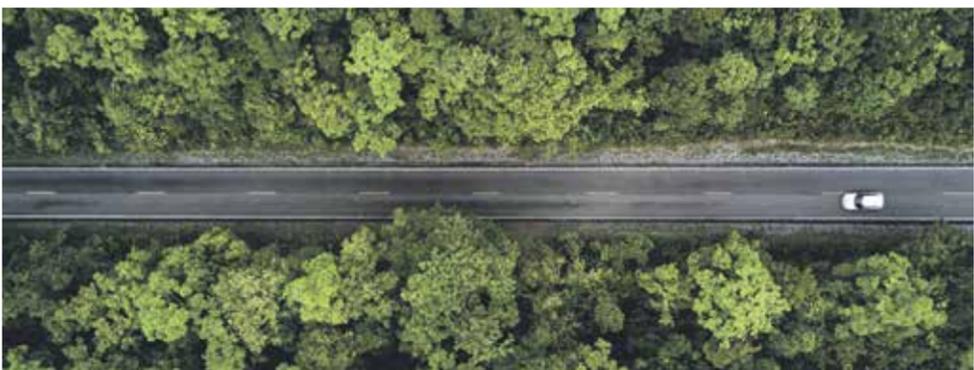
"When it comes to Salary Sacrifice schemes, the numbers don't lie, we currently have a fleet of more than 20,000 cars, of which more than 95% are on salary sacrifice schemes. We work with more than 900 organisations across the UK, including NHS Trusts, local authorities, and corporations of all sizes. In the 14 years since

we launched the car scheme, we have replaced more than 60,000 older, more polluting vehicles with newer, cleaner and more environmentally sustainable vehicles and in the last two years, our fleet has been predominantly made up of EVs.

"Thanks to the innovative nature of salary sacrifice which means that every driver is able to benefit from monthly savings whatever their tax bracket, 70% of our fleet is made up of 20% tax payers. We are proud to be enabling those who might previously have been excluded from more traditional company car schemes, such as nurses and administrators, to access new and affordable vehicles. It's helping to level up drivers into EVs. We now see more and more 'cash for car' drivers taking advantage of salary sacrifice too, because it offers them a fixed price, inclusive car, enabling motorists to take better control of their monthly costs with no surprises.

"We will use this award as a sign of our commitment, and to bolster our ongoing resolve to achieving our Net Zero targets, while we continue to help drivers enjoy a more affordable, safer and sustainable way of motoring."

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Sustainable Crushing with ROCO



It's fair to say that a successful business is one that is always striving to be more efficient, therefore making the best efforts to improve their bottom line. Efficiency can be easily achieved in many forms, required personnel, transport and indeed the equipment to get the job done.

With costs at an all-time high and the introduction of tough new government fuel laws in 2022 the time has never been more right to make the switch to sustainable electric powered crushing.

Family-owned ROCO have put their 40 years of vast crushing experience to good use over the last 2 years and developed the very impressive RYDER 1000 Hybrid powered jaw crusher. This first in class 29t diesel electric super-sized permit free RYDER 1000 ticks all the boxes when it comes to size, performance and efficiency. Customers are offered the Dual-Powered build as standard. This means they have the option to power the crusher via fuel or 100% electric mains power.

The RYDER utilises an onboard CAT generator which is unbeatable in the 30t category when it



comes to fuel burn. Strenuous tests have been carried out over the last 2 years via Finnings-UK in hard rock quarries to various recycling centres and mixed material applications. The average fuel burn per working hour in Recycling was only 10 litres per hour and an average of just 15 litres per hour in natural virgin aggregates. This is on average a 40% fuel savings in comparison to typical diesel hydraulic driven crushers.

It doesn't end there; customers now have the option to plug the RYDER into their onsite mains electric power supply and no longer burn any fuel whatsoever as the RYDER is 100% electric driven. This in return offers the customer a crusher that not only can now work indoors in a recycling centre but also ideally suited to work on the end of a washing plant for crushing the oversize product with minimal running costs. While using

onsite electric supply the business can cut out daily engine checks, re-fuelling, dust issues/air filters while not burning any fuel and creating a much safer environment for staff to work in that is free from carbon monoxide.

Using electric power also improves the residual value of your crusher dramatically as no hours are being clocked on your engine and with a separate hour meter installed to the crusher you are sure to monitor the plant with ease.

All Roco RYDER 1000 crushers are built with FULL spec as standard so no extra hidden costs or paying extra for the electric plug-in option. The crushing plant also boasts super advantages over its rivals with its 180-degree radial conveyor which has the option to install a pre-screen mesh to regulate a second product. Furthermore, it has a dual directional powerful



overband magnet combined with a very generous 1,000mm wide discharge conveyor meaning it is sure to maximise the recovery of steel ferrous metal from your crushed product.

Roco's crushing experience can really be seen when it comes to maintenance and access to all service-related areas. There is a massive 600mm clearance underneath the crushing chamber combined with a deflector plate to cater for Recycled material. The discharge conveyor also lowers down via hydraulic cylinders for any visual or maintenance requirements. Fixed, trouble free hopper with wear liners and 5 cubic metre capacity also means the RYDER is the ideal size for wheel loader or excavator feed.

With a big global push to go Green the time is right to take advantage of the UK's lucrative tax incentives while also avoiding rising fuel costs, more importantly invest in a sustainable crusher that will hold a much better residual value over its less desired hydraulic driven rivals in the years ahead.

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Exceptional products and services from Deltax

In this issue of Sustainability Today, we are proud to announce that we have chosen to select Deltax Ltd as our Machinery & Equipment Company of the Month.

Deltax is the market leader in hydraulic shears and cable strippers. The company is an industry leading designer, manufacturer and supplier of equipment and machinery involved in scrap recycling, demolition and construction industries.

With extensive experience and a team of qualified personnel, some of whom were responsible for the original design concepts in this field; Deltax equipment is unique, innovative and designed to the highest quality. Most of the component production is created in-house, using only quality materials and latest production techniques. The company utilises new technologies such as computer aided design and manufacturing systems, and maintains an ongoing policy to constantly improve design and production, to ensure that Deltax consistently meets the changing needs of the industry. Most importantly for the company, Deltax has built a solid foundation and reputation for honesty,



extensive knowledge and fairness across a range of industries.

The company maintains its operations on a worldwide scale, with sales agents placed in every continent and in a number of different industries. These include: United Kingdom, Canada, Italy, Africa, Middle East, Australia, New Zealand and the South Pacific Region, Europe, Lithuania, Russia Sweden, Norway, Denmark, Iceland, Finland, United States of America and Mexico.

Deltax has proven its wealth of industry leading expertise and is now registered as a United Nations Approved Vendor. Over the last two years, Deltax has supplied various DTX model shears with operator training to eight separate Caribbean Islands as part of the UN's Weapons Destruction Programme in the Caribbean.

Committed to quality, all Deltax equipment and parts are guaranteed under its standard warranty policy, and meticulous attention to detail is paid during the manufacturing process. In fact, from the smallest component part to the largest finished machine, Deltax ensures that quality is maintained throughout. This guarantees that when purchasing Deltax products, the highest level of engineering and design has been applied to the production of the equipment.

Deltax uses Computer Aided Design (CAD) techniques in its design process which ensures accuracy, consistency and compatibility of



product design. From the product design, individual component drawings are then created to form the basis of a machining program.

After the CAD design stage, a machining program is produced, this converts a graphical representation of a part of the machine into an analytical program, which is then interpreted by the CNC machine tool. The machine tools are then prepared to create the component parts which are produced on a large range of CNC machine tools including laser cutting, lathes and milling machines.

Through this detailed design and manufacturing process, all equipment is created to a high quality, offering longevity of working life and when maintained, holds a high re-sale value.

In regards to its product range, Deltax maintains a wide varied range consisting of standard duty shears, heavy duty shears, heavy duty rebar shears, wire and cable strippers, vertical metal shears, scrap electro-magnets, hydraulic grapples, mobile portable shears and specialty equipment. In addition, the company also maintains a well-stocked selection of common spares, including cutting blades.

In terms of its services, Deltax houses a team of highly qualified technicians, who maintain a plethora of expertise and experience, enabling them to provide readily available, in-depth and efficient assistance. This allows customers to gain access to a technician with the expertise to help them to restore the normal operation of their machinery, in as short a time as possible. Other dedicated services include telephone assistance for service requests, spare parts, maintenance advice, telephone assistance for spare part estimates, special requests and



general assistance.

A notable partnership, Deltax is proud to be working with supplier Sun Hydraulics limited in the UK, a leading designer of various proprietary flow adjusting, sequencing and regeneration valve bodies, for Deltax's line of DTX alligator shears.

If you would like to discover Deltax's equipment, then a noteworthy upcoming appearance for the company is taking place this year. Showcasing its abundance of innovative products and services, Deltax will once again be exhibiting at this year's Recycling and Waste Management (RWM) show located at the NEC, Birmingham, England, from 14-15 September at Stand: R-M130. The company plans to use this event to display its new line of DTX shears with hydraulic activated hold down mechanism for scrap.

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