



SUSTAINABILITY TODAY

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Electrical Safety at the touch of a button - VeriSafe 2.0

Panduit's VeriSafe system minimizes the risk of electrical hazards by confirming the control cabinet is voltage-free before access. Compared to other portable test instruments, plant operators and machine builders can check whether an electrically safe environment is present much faster.



In addition, a network module for real-time diagnostics and performance reports is available. Thus, test results can be recorded with time stamps or data logs, or it can also be used for remote troubleshooting, monitoring the status of sensor lines as well as battery life or temperature development. Via the EtherNet/IP and Modbus TCP connection, VeriSafe 2.0 can be easily integrated into Scada systems, for example, or the integrated web server can be used.

The test system can be easily mounted and integrated into EMC-compliant superstructures. The background to Panduit's new development is that hazards and risks in switchgear for people, production and buildings must be avoided at all costs. Plant manufacturers must guarantee their design and compliance with standards, electrical safety, fire protection and mechanical safety.

VeriSafe 2.0, automatically ensures that the entire test process is followed for every single test. With a push of a button, you can achieve tested safety in both 3-phase and 1-phase applications in the now extended voltage range up to 1000 V for AC and DC applications. The fail-safe design uses active indicators for plant status and complies with SIL 3 (IEC 61508-1) safety functions. According to the NEC, specified in NFPA 70E, an electrically safe environment must be ensured before working with electrical installations without voltage, and the measurement procedure is precisely defined.

VeriSafe 2.0 is ideal for 480/600V CAT IV applications including outdoor, service access and all power distribution equipment including frequency converters and remote motor disconnect switches. The now extended VeriSafe increases the possibilities to protect the entire electrical area. If desired, the isolation module can be easily integrated into control systems via redundant semiconductor signal outputs (SIL 3).

The crucial basis is the National Electrical Code (NEC). The NEC is comparable to VDE 0100 or IEC 60364 and is published by the National Fire Protection Association (NFPA) under the working title NFPA 70E. In the data sheet, Panduit refers to all other international and European standards according to which VeriSafe is tested.

www.panduit.com

New study reveals microplastics can carry pathogen threatening human and wildlife health

As the world celebrates World Environment Day, a study from the University of California, Davis, reveals that microplastics can carry land-based pathogens to the oceans, posing a threat to the health of humans and wildlife alike. Bluewater, a world-leading innovator of water purification solutions designed to end the need for single-use plastic bottles, said the study's findings highlighted the need to celebrate, protect and restore our planet.

A UC Davis press release said the study by a team of its university researchers had indicated that, by hitchhiking on microplastics, pathogens can disperse throughout the ocean, reaching places a land parasite wouldn't be found usually.

The study, published in the Scientific Reports [6] journal, is the first to connect microplastics in the ocean with land-based pathogens.

"The study provides even more evidence of the threats posed by tiny microplastic particles smaller than 5 millimeters, which are literally everywhere, in the air we breathe, the food we eat, and the water we drink," said Swedish environmental entrepreneur Bengt Rittri, founder and CEO of Bluewater (Photo above). He noted how a study [7] by OrbMedia had found microplastics in bottled drinking water after testing more than 250 bottles from 11 brands.

The research team at UC Davis conducted laboratory experiments to test whether the selected pathogens can associate with plastics in seawater. They used

two different types of microplastics: polyethylene microbeads and polyester microfibers. Microbeads are often found in cosmetics, such as exfoliants and cleansers, while microfibers are in clothing and fishing nets.

They found that microplastics can make it easier for disease-causing pathogens such as Toxoplasma gondii, Cryptosporidium (Crypto), and Giardia to concentrate in plastic-contaminated areas of the ocean.

T. gondii is a parasite found only in cat feces, which has infected many ocean species with the disease toxoplasmosis, connected to the deaths of sea otters and other critically endangered wildlife, including Hector's dolphins and Hawaiian monk seals. In people, toxoplasmosis can cause lifelong illnesses, as well as developmental and reproductive disorders.

david.noble@bluewatergroup.com.



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RE THE ASSOCIATION FOR RENEWABLE ENERGY & CLEAN TECHNOLOGY

Efficient and sustainable biomass energy



Ranheat has been selected as one of our Top Exhibitors from the Futurebuild Show 2022. More can be seen on pages X & XI.

Ranheat has one of the most experienced and knowledgeable team of biomass engineers in the UK. Since 1991, the company has lived and breathed biomass boilers and heating systems and is trusted by customers nationwide to reduce costs and increase energy efficiency by designing, manufacturing and installing its UK-made range of industrial wood-burning systems.

Designed for industrial and commercial customers, Ranheat's services include biomass boilers, automatically fed warm-air heaters, biomass silos and hoppers, ceramic flue gas filters, and automatic stoker systems.

Manufacturing from its own site based in Northampton enables the company to offer many benefits over competitors such as no costly imports or long lead

times. This then ultimately results in delivering a faster and more responsive customer service.

As a family run business, Ranheat take great pride in its highly-skilled team who handle all the vital aspects of biomass projects directly. Its in-house engineering and software development skills ensure that the company continues delivering the smooth-running of its systems throughout the lifetime of the installation.

As the UK leaders in commercial and industrial biomass boilers for industrial wood waste management, Ranheat has the capabilities to customise its biomass heating systems to be able to use all wood fuel types. This not only helps businesses to save costs but provides a greener carbon neutral energy for businesses and non-profit organisations nationwide.

For more information, see below.
T 01604 750 005
sales@ranheat.com
www.ranheat.com



Snickers Workwear Trousers – More Than Fit For Purpose

Snickers Workwear's trouser families are suited to any kind of work on site. Delivering maximum functionality, comfort, protection and mobility they're the products of choice among discerning professional tradesmen and women. For them, sustainable, street-smart, body-mapping clothing are key parts of their product choices.



Hi-tech fabrics, functionality and fit are the hallmarks of these market-leading products. The AllroundWork trousers are ready for any kind of work in any trade. FlexiWork trousers deliver superior freedom of movement. While LiteWork trousers keep you cool, dry and ventilated.

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Snickers Workwear Trousers also deliver certified protection with the patented KneeGuard System for greater flexibility, comfort and durability. It's what makes them the optimal choice for craftsmen and women who need to get every job done comfortably and sustainably on site.

T 01484 854788
sales@hultaforsgroup.co.uk
www.snickersworkwear.co.uk

Sustainability excellence and a wide range of services



In this issue of Sustainability Today, we have selected Stuart Canvas Group as the recipient of our Industry Excellence Award.

Stuart Canvas Group is a long established and very experienced textile finisher and custom-made covering solutions manufacturer. Based in Warrington, the company was founded in 1971 and its sister company, Mudfords, was founded in 1832. Headquartered in Warrington alongside one of its production centres, Stuart Canvas Group also has



a production centre in Sheffield and a distribution centre in Wardle. The company has approximately 100,000sqft of purpose-built manufacturing facilities across these three sites.

Stuart Canvas Group specialises in the manufacture and design of bespoke coverings for a range of sectors including industrial manufacturing, haulage, schools, military and home use. "Many UK based manufactures are facing increased storage issues and protecting their products adequately during both summer and winter months, due to unpredictable weather conditions. Stuart Canvas can offer bespoke storage solutions and products to help companies protect their raw resources and equipment." – Craig Groves, Key Accounts Director.

The company also owns Mudfords and JMS Cricket, and these established brands have brought extra capability to Stuart Canvas group due to their experience and extra diversity of products and services. These range of sports covers are widely used, at Wimbledon as well as cricket grounds around the country. In addition, cricket products, nets, and sight screens are produced for every level of the game from school cricket, through to test match venues.

Stuart Canvas Group works with many blue-chip companies from around the country and exports to over 25 countries. With no job too big or too small, the company's client base

stretches as far as the West Indies, Hong Kong and California.

As the group has grown and developed, it has invested heavily in new machines and technology in order to remain at the forefront of the industry. Stuart Canvas Group produce bespoke coverings to help the transportation of equipment between sites, thus preventing damage. These covers can also help when equipment or plant machinery that is on site as they protect against the weather, industrial dust and manufacturing overspill. To further customise the covers, the company use a wide range of materials and offer bespoke printing enabling each cover to be custom made to the client requirements.

One of its primary products is the retractable aggregate bays which are designed to reduce the wastage of raw materials. These bespoke retractable roofing tunnels are custom made to fit existing or new aggregate bays. There is both a cost-effective manual operating system and a remote-controlled electric system for these roofing solutions that help reduce wastage by up to 30% by protecting raw material from the elements. Sustainability is at the heart of all work undertaken by Stuart Canvas Group and Marketing Manager Steven Ball stated, "our goal is to help other companies reduce their wastage of raw manufacturing materials and prolong the life of their equipment."

Many of the systems installed at some of the UK's largest concrete, asphalt and brickwork manufacturing plants also feature a new motorised system which was pioneered by Stuart Canvas Group. This allows the cover to

be retracted over the top of each bay quickly and efficiently with a single push of a button. This system then creates a watertight seal that protects the material underneath the tunnel.

Whether large or small, fixed or retractable, Stuart Canvas Group offer a solution to all clients' storage needs and advise on how to create the best additional workspace both internally and externally. The tunnels can be produced as mobile or static workshops and can be designed to be dismantled and assembled should they need to be relocated in the future.

Offering a problem solving solution to all clients' needs, the company can deliver design solutions to address these problems. One of these being a CAD drawing service for its products that is offered in-house if the design of a product requires it. With over 50 years of experience, the group can ensure that all of its solutions are custom-made, and by offering a full service including a site



visit, design concept and installation, clients are guaranteed the service their business requires.

One of the company's prestigious clients is the iconic Wimbledon tennis championships held every June in SW19. Stuart Canvas Group has been supplying equipment to the tournament for over 30 years, including the championship nets and posts and the green perimeter fences for each court that helps separate the courts and create safe areas for spectators.

Stuart Canvas Group provide equipment that is nationally distinguishable throughout the UK. Most people would recognise the green rain covers that are unrolled every time the rain falls at Wimbledon. The covers are manufactured in-house by the company and features a specialist material that allows sunlight through without burning the grass while continuing to remain waterproof.

Looking to the future, Stuart Canvas Group will continue to remain innovative in its

design solutions in order to keep up with the demand of its diverse customer base. and one example of this was during COVID-19, when the group was able to use some of its textile manufacturing knowledge to produce over 100,000 pieces of PPE for the NHS.

Upon receiving our Industry Excellence Award, Steven said "with so many years of experience in providing solutions for companies throughout a variety of sectors, it is a thrill to receive this award. It demonstrates the vast knowledge and skill base that the company has gained from our dedicated staff."

For further information:

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'Skip'ping ahead to help create a brighter future



a special anniversary, as next year marks the company's 50th year of business.

Glosta Engineering is a manufacturer of skips, containers and bespoke products for numerous industry sectors, including: Waste, Plant & Machinery, Construction and Agricultural Industries. The company also manufactures steel structural frames for a wide range of industries and is equipped with CE Accreditation, which ensures that the company is compliant with legal directives for the manufacture of steel structures.

Dedicated to providing a comprehensive service, Glosta Engineering strives to excel at customer services, always going above and beyond to find the right solution for each customer. Utilising a team of highly experienced, personable and devoted sales personnel, Glosta Engineering ensures that all queries and orders are fulfilled to the highest standards of customer service.

"We always go the extra mile where we can, to make quality bespoke products for the construction industry ranging from flatbeds to insulated tarmac bodies," added Chelsea Stansfield, Sales and Accounts.

In this issue of Sustainability Today, we are proud to announce that we have selected Glosta Engineering as our Skips and Containers Company of the Month.

Glosta 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, Glosta Engineering is owned by Gary Moore.

Over the last five years owner Gary has worked hard to develop new projects, specifically for the waste and recycling industry such as biomass drying skips, water tanks and much more. Under Gary's leadership and the strength of Glosta Engineering's dedicated team, the company has developed significantly and now maintains an industry leading reputation.

The company is pleased to be approaching



Glosta Engineering is equally as passionate about customer service, as it is about the environment, and as such, the company endeavours to use materials and consumables throughout



the production of its products, which are environmentally safe. The company prides itself on its mission of providing quality skips and containers to the waste, recycling and reclamation industry, with the aim to secure a greener, brighter and cleaner outlook, to contribute towards the environmental investment for future generations.

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 Glosta Engineering's skip products are designed to C.H.E.M specifications.

In regards to recent developments, Glosta Engineering, like many others, faced many new challenges due to the COVID-19 pandemic. Showcasing its resilience and commitment to its customers, the company worked hard during these unprecedented times, continuously working during the COVID-19 pandemic. "We worked throughout the COVID-19 pandemic, without a day of not working as it was important for our business to continue to work in the manufacturing industry," said Chelsea.

As the company looks towards its future, Glosta Engineering plans to continue developing its products and services, to further its offering and expand through organic growth. The company is also currently developing some exciting new products which it will be unveiling by the end of this year.

Indeed the future looks bright for Glosta Engineering, and with many prestigious plans



currently under development, Glosta Engineering has many exciting developments in the pipeline, and Chelsea added, "watch this space!"

If you would like to find out any more information, please see below.

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We work together with many industries to offer variations of specified & custom-tailored skips and containers. No job is too big or too small for us to take on. All our skip products are designed to C.H.E.M specifications.

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Building Sustainability Into Commercial Hot Water



For more than fifty years, Advenco has been a leading innovator providing hot water (DHW) for commercial-scale projects across the UK. Today its focus is shifting to encompass a blend of traditional and new, more sustainable technologies in the form of solar thermal for those on gas and especially heat pumps for new builds to integrate greater sustainability into DHW systems.

With a predicted one-third rise in non-domestic floor space by 2050, much of the current focus resides on new builds, but this still leaves more than 1.6 million pre-existing non-domestic buildings in England and Wales, generating almost one-fifth of the UK's carbon emissions, needing expert, practical support.

Air source heat pumps (ASHP) have become the poster child technology for the government's net zero strategy. The advantage of ASHPs is that, with a performance greater than 100%, they can extract additional energy from outside of the building's metered systems delivering significant carbon savings. For a commercial DHW system, it is recommended that a working water temperature from the ASHP, such as



Advenco's FPi32 or L70, must be at least 55°C.

This is certainly attainable from current generation ASHPs when deployed in a hybrid approach. This uses the ASHP as preheat and combines it with either gas-fired or more preferably an electric top-up to achieve the required hot water temperature. This is where the additional system complexity and cost can creep in. But by correctly balancing a system through a mix of physical spacing in the vessel and system monitoring with dedicated controls, as developed for the Advenco FUSION, the system no longer fights itself, working seamlessly to deliver the highest operational efficiencies

In line with the European Commission's proposal for a tightening of F-Gas regulations, development work continues at pace to support the introduction of R290, or propane as it is more commonly known. This refrigerant offers a coefficient of performance (COP) that enables working flow temperatures from an ASHP of up to 75°C and potentially much higher. This means future commercial systems can be less complex, without the need for additional electric immersion for high-temperature flushing for legionella protection. That said, immersions remain perfectly suitable for low-demand backup applications in boiler-fed indirect cylinders, ensuring business-critical DHW demands are met.

What we have seen more recently though is a shift in use, where immersions are used 'directly' in high-demand commercial applications as the primary heat source. An electric immersion heater has a high heat intensity compared to gas or indirect and, when coupled with high operating temperatures and hard water will increase the rate of scale formation which, over time, will cause the element to rupture.

In response, protecting a system from limescale is often only addressed by a vigorous cleaning regime. This method has a cost and downtime associated with it that is not acceptable for many commercial buildings. For this reason, minimisation of scale formation with water softener or a scale inhibitor may be adopted, but for many sites neither provides a satisfactory response because of space, maintenance, downtime, or cost. A better option for these

sites would be to replace the immersion heaters with a low scale forming hot water system.

The new Advenco electric boiler range provides a proven and cost-effective answer. The boiler still utilises immersion heaters located in a small tank heat exchanger within the boiler housing. This electric boiler supplies a sealed 'primary' loop to an indirect coil in the cylinder. The electric boiler heats the same water continuously so there is only a finite amount of scale in the system which will not damage the elements. The heat exchanger in the cylinder is a large coil operating at relatively low temperatures. Advenco's extensive experience with indirect coil use in the UK has shown that scale is not a significant problem



reliability, the operational and maintenance savings will offset these additional capital costs. The electric boiler additionally offers a level of redundancy that is not achieved with a single immersion heater.

As limitation on new gas grid connections for heating systems becomes effective this year, it will become critical for system longevity to recognise the new challenges electric-only presents over more familiar gas-based applications.

But if a business already uses gas, the application of solar thermal with Advenco's built-in drainback functionality, can really improve the sustainability of a building's DHW system. When used as a preheat with coldest water possible to maximise the efficiency and output, solar thermal remains the best option, maximising free heat with no additional carbon emissions. This is an important consideration given buildings with an existing connection can still upgrade to new gas appliances until 2035, with 100% hydrogen-ready options extending that window well into the 2040s based on current appliance lifespan.

Advenco continues to support the refurbishment of existing buildings, recently extending its ranges of direct-fired condensing water heaters – the AD and the ADplus. Both ranges provide a compact, floor-standing design that is easy to introduce into an existing plant room to provide high-demand semi-instantaneous and instantaneous hot water applications. Improved combustion efficiency means the burner requires less gas, delivering up to 30% savings in fuel consumption, making it more cost-effective, while reducing emissions.

For smaller on-demand needs, ADplus heats only what is necessary, with no ignition for smaller withdrawals providing considerable additional energy savings. Both AD and ADplus as a result exhibit ultra-low NOx (Class 6 appliance at 27 mg/kWh) and CO emissions (19ppm). With the government already committed to enabling the



in these systems. The electric boiler operates at the same efficiency as an electric immersion heater (100%) so the only overall difference in system efficiency is the minimal pump electrical consumption and a small amount of heat loss in the pipework.

An electric boiler hot water system will take up a little more space than an all-in-one electric cylinder, but it has more versatility and requires less clearance for the cylinder. Similarly priced to an immersion heater, an electric boiler-based system will cost slightly more due to the small amount of additional installation work. But with virtually no maintenance and the cylinder forming significantly less scale, vastly improving

blending of hydrogen in the gas grid it is also worth noting that these latest generation direct-fired condensing water heaters will already support the initial 20% hydrogen/natural gas blend.

Together, these technologies offer actual development arcs right now for existing commercial properties that are currently on-gas, or new builds seeking to embrace low or no emission choices to deliver more sustainable operations that will help achieve net zero by 2050.

Contact www.advenco.co



Panasonic Provides 5-Star Heating and Cooling for Holiday Rentals



Overall guest comfort is an important factor to ensure a successful year-round holiday rental and having high quality heating and cooling can be the ideal accessory to help attract visitors. Installers, Pinder Cooling + Heating, helped take two holiday rentals to the next level with Panasonic's Etherea with nanoe™X.

The first property is a self-contained flat based near Bradford, and the second is a 2-bed, 2-bath penthouse apartment in the heart of York. Both properties were seeking a highly efficient and discreet solution to maintain heating and cooling levels throughout the year to ensure maximum comfort for guests.

Panasonic's range of Etherea with nanoe™X units is the smart solution to keep any environment clean,

comfortable, and welcoming. It's renowned for being highly efficient, and the sleek and stylish design allows for a unit that suits any interior with a compact width of just 870mm. Etherea boasts the highest energy rank of A+++ in heating and cooling, providing the greatest level of comfort. The air-to-air technology allows for a highly energy efficient solution to ensure optimal use year-round, utilising R32 refrigerant for a much lower environmental impact.

The units come with nanoe™X technology as standard. Panasonic's advanced technology produces up to 9.6 trillion hydroxyl radicals (also known as OH radicals) per second. Abundant in nature, OH radicals have the capacity to inhibit certain pollutants, viruses, and bacteria to clean and deodorise. nanoe™X technology

can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner and pleasant place to be. nanoe™X works independently from the heating and cooling operation when the unit is in fan mode, improving protection 24 hours a day, 7 days a week.

To find out more about the range - https://www.aircon.panasonic.eu/GB_en/

For more information on all involved in the above project please visit: <https://pindercooling.com/>

See also video interviews of the above story - EN_Panasonic_Case Study Provides 5-Star Heating and Cooling for Holiday Rentals - YouTube

The standard for holiday rentals in the UK is high, with a very competitive market post-pandemic.

SmogStop

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SmogStop® Barrier is the World's first Approved roadside pollution barrier scientifically proven to significantly reduce noise and hazardous NO_x & VOC emissions.



Independent studies by world-renowned universities have proven that the patented technology can remove 16 tonnes of NO_x each year; the equivalent of removing 200,000 vehicles from the road every day.

SmogStop® is specially designed to reduce traffic emissions by more than half, helping reduce occurrences of cancer, stroke, cardiovascular disease, asthma and other respiratory problems linked to motor vehicles.

1km of roadside SmogStop® Barrier can create up to £6 million in benefits each year. That's just the savings created by reducing premature death; add to that fewer doctor visits, fewer emergency admissions and less income lost to sick days. You'll earn back your investment in less than a year. And best of all, it's powered entirely by light (sunlight or artificial light) and the natural flow of air.

How it Works

SmogStop attacks air pollution in 2 ways, improving both local & regional air quality. Our patented aerodynamic design disperses pollution and our patented photocatalytic coating on the barrier actually breaks down the (NO_x) and (VOCs) that produce smog, transforming them into harmless by-products.

Testing & Results

Over its development, SmogStop has undergone independent testing at universities across Ontario. The proof keeps stacking up: this ground-breaking technology measurably reduces traffic-related air pollution. A year-long field study conducted by the University of Guelph and the Ministry of Transportation Ontario proved the effectiveness and viability of SmogStop®. The results from the field study, the overall average removal of NO_x was calculated to be 49% with the highest monthly average reduction being 54%. The highest daily & hourly reductions were determined to be 92% and 95%, respectively. The study showed that the patented photocatalyst continues to work during nighttime hours, provided that some ambient lighting is nearby.

Conclusion

In conclusion, motor vehicles are a significant source of hazardous pollutants and until now there has not been a roadside mitigation measure available anywhere in the world that could be implemented.

After 10 years in development, SmogStop® Barrier has been independently proven to effectively reduce NO_x and VOC air emissions, helping reduce occurrences of cancer, stroke, cardiovascular disease, asthma and other respiratory problems.

A further trial in the UK on a lower height barrier has also been carried out by National Highways with results due to be published soon.

Discover more about SmogStop® benefits - Contact Steve Barnes steveb@grammbarriers.com 07930 558 116



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SmogStop is the most effective air quality barrier in the world. Below are some of the key attributes of our system.

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- Full Lab Test Results in Solar & Wind Tunnels

That's like 200,000 cars removed from that 1 km road per DAY!!



SmogStop Trial on the M1 working with National Highways

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RECOUP

In this issue of Sustainability Today, we are pleased to announce RECOUP as our Plastics Resources and Recycling Company of the Month.

Established in 1990, RECOUP is a charity and leading authority providing expertise and guidance across the plastics recycling value chain. Built on a network of valued members, collaboration is central to RECOUP's activities. The organisation is committed to securing sustainable, circular, and practical solutions for plastic resources both in the UK and worldwide.

Headquartered in Peterborough, RECOUP works with organisations across the UK and is also on the EPRO board which works with companies around the world. Meeting the demand and support for change, RECOUP embodies a genuine confidence as it encourages others to also step up to the challenge of a plastic circular economy. RECOUP's work is based on evidence, research and facts with unbiased integrity. "We work with the whole of the plastics resources and recycling sector including manufactures, brands, retailers, packaging companies, local authorities, individuals, schools, waste processors and reproducers. This means we understand the whole of the plastics packaging process and can provide information and research based on facts and evidence," stated Amanda Bakewell, Communications & Engagement Manager.

An event not to be missed is the RECOUP Plastics Resource and Recycling Conference 2022 which will be held on Thursday 29th September at KingsGate Conference Centre, Peterborough.



Usually welcoming 500 delegates, the free to attend event is unique in its ability to draw together stakeholders, NGOs, Local and National Government bodies, and companies with business interested to network and share best practice.

Lined up is an excellent set of speakers and panellists to ensure the event remains an engaging conference and networking opportunity.



Tom Heap, BBC presenter and author of '39 Ways to Save the Planet', will be returning to Chair the morning sessions, who has quoted 'it promises to be a great day which will continue to challenge the status quo within the plastics resource and recycling space'.

The event will start at 08:00 for registration and networking breakfast and continue on to three sessions centred around Plastics Resource and Recycling, as well as an awards ceremony and many chances to mingle and network. The sessions will include speakers from across the industry



discussing and debating the topics of the day.

RECOUP, CEO, Stuart Foster, commented "the ongoing popularity and success of our annual event is of course linked to the ever-growing priority to get the plastic resource agenda right. But it is also a reflection of our pursuit of evidence-based change and improvement whilst retaining our independence and integrity. We are, once more, expecting vibrant and thought-provoking debate which we hope leads to actions."

Registrations are now open at www.recoup.org/recoupconf22

With a vision to be THE UK's plastic value chain coordinators and the independent voice of reason, RECOUP's expertise and teamwork approach are one of the many reasons the company is essential to the future success of plastics recycling and resource management in the UK. As the company continues to expand and grow to keep up with the demands of its members, we asked Amanda what RECOUP had planned for the future. She answered, "There is demand and support for change. It is not right to allow plastics to leak into the environment or for the resource to be lost. Nor is it acceptable

to remove the opportunity to use plastics where it is often the most cost effective and carbon efficient material available. Improved recycling, refill, re-use, and reduction programmes will all have a part to play as the world works towards net zero and a sustainable future.

Everyone has a responsibility to question the detail, look for the facts, and ensure environmental decisions are based on sound science, evidence, and data. RECOUP's work continues to be based on evidence, research and facts with unbiased integrity. Thanks to the members and sponsors that continue to support us, RECOUP continue to be able to demonstrate a high level accountability and transparency, viewed through an independent lens."

For more information, see below.

T 01733 390021
enquiry@recoup.org
www.recoup.org

Water Management

CWF technology

CWF: Self-regulating, controlled water storm tank flushing



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

The CWF 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 CWF system needs very little maintenance because of the few moving parts – the only moving part on the CWF 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

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High quality calibration services



In this issue of Sustainability Today, we are pleased to announce OBW Technologies as our Gas Detection Company of the Month.

Headquartered in Limerick, OBW Technologies is the leading national provider of portable and fixed gas detection instruments and solutions in Ireland. Supplying to a number of industries OBW Technologies is committed to the principles and practice of excellence and conforms to the requirements of ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 standards.

Its vision is to provide its clients with the best advice when choosing gas detection instrumentations for personal protection in the workplace. By working closely with its customers, OBW Technologies endeavours to enhance the overall service it can offer by maintaining a first-class relationship that keeps both parties satisfied with all products, calibration and repair services.

OBW Technologies is the supplier of choice for many of the largest life sciences, high tech organisations and utility providers in

Ireland, which has been a true driving force to its continuous growth over the years. "We specialise in the supply and service of gas detection. We act as a main distributor and authorised service agent for Honeywell Analytics and are also the main distributor for Blackline Safety, Bacharach, and PermAlert," stated Rebecca Keogh, Business Development Manager.

Established in 2010 by Sharon O'Brien, the family-owned Irish company is one of the largest independent gas detection solution providers in Ireland. Over the years, OBW Technologies has built a strong reputation for delivering a reliable and professional range of services that include



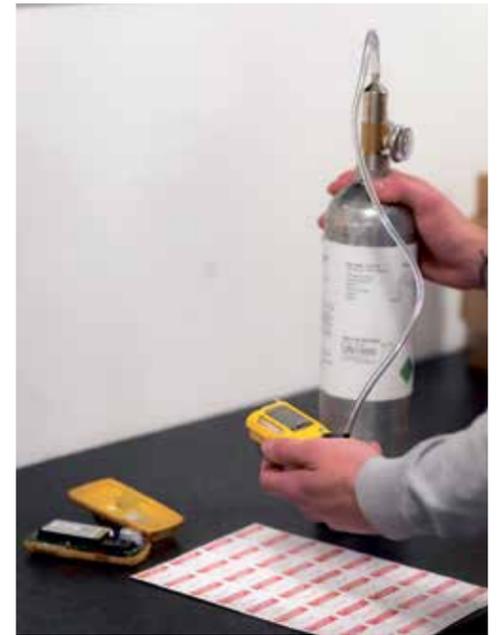
gas detection calibration, gas mapping, fire safety consultancy, instrumentation solutions, project management, gas monitor training, ex hire sales, confined space entry equipment, and service contracts. "Our specialist engineers are highly-trained on each supplier and are experts on everything their brand offers." explained Rebecca.

Recently, OBW Technologies has been

successful in winning the contract to supply Blackline Safety G7c portable gas detection monitor with Northern Ireland Water. The product will be rolling out over the next few months marking an exciting time in the future growth of the company.

2021 was also a significant year for the company as it was on the receiving end of many awards including being chosen as the supplier of the year both for Honeywell HGAS for the West Zone and Blackline Safety Europe. OBW Technologies is hoping to continue its achievements and repeat successes throughout Ireland as it directs its focus to future expansion within the UK and the EU. Hoping to mimic its industry recognised high standards here in the UK, Rebecca explained more.

"We are currently working to increase our brand presence here in the UK. We are eager to mimic what we have done in Ireland and put our stamp on the UK market. Our recent expansion has also seen us increase our workforce to nearly 50 members of staff which is a great achievement for us as this was done throughout COVID-19. We



are extremely proud because we actually thrived throughout COVID-19. Our engineers remained busy and our sales began to rise quite rapidly. Like everyone at first, we thought it may really affect business, but we managed to grow despite of it."

With the launch of its new ecommerce website at the start of 2022, OBW Technologies has a fantastic future ahead as it continues moving from strength to strength.

For more information, see below.

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info@obw.ie
T 0121 3874025
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www.obwtechnologies.com

Electric Utility Vehicle Dealership of the Month

A turning point for electric utility vehicles

In this issue of Sustainability Today, we are pleased to announce Off-Road Electric as our Electric Utility Vehicle Dealership of the Month.

Off-Road-Electric supply a full range of all-electric off-road and utility vehicles including UBCO 2WD work bikes, Eco Charger quad bikes, HiSun UTVs, Farmtrac tractors, electric converted Land Rover Defenders, and SUVs built electric from the ground up.

"Off-Road Electric is based in Oxfordshire and grew out of a renewable energy consultancy founded in 2017, called Power Progress Consultancy Ltd. We started distributing Eco Charger quad bikes in 2019, and in late 2020, Off-Road Electric was launched to supply a wider range of all-electric off-road vehicles. Now, we are proud to be able to distribute a full range of electric utility 2WD and 4WD vehicles, including UBCO motorbikes to the Munro Mark I SUV. We supply a large area across the central and southern part of England, and also provide all the after sales support on the vehicles, except the quad bikes, which is carried out by the manufacturer," stated Marc Monsarrat, Founder and Director.



Adding to its already striking portfolio of partnerships, Off-Road Electric has recently announced it has agreed on an established distribution and support partnership with Munro Vehicles as their first UK



dealer. The Munro Mark 1 is the main product from Munro Vehicles and is the first British-made full-size electric SUV that is marked as rugged and more than suitable to better any diesel run-around. The off-road-orientated 4x4 has a one-tonne payload and 150-mile range. Expect no compromises in off-road performance as the Munro retains a two-speed transfer box, lockable differential and rigid axles. Ideal for carrying people and cargo, it is also easily repairable with a custom-engineered body and frame that are also complimented by widely available OEM parts including brakes and suspension. The Munro Mark 1 will be available from early 2023, and customers can place their order now.

Of course, Off-Road Electric offer much more than Munro Vehicles, its portfolio of vehicles is the perfect fit for many industries that offer a strong environmental benefit too. With the UK energy industry growing, the electric vehicles market is fast becoming not just a



trend, but the future. "We only deal in electric vehicles and aim to provide a real alternative to noisy and smelly petrol and diesel-powered vehicles that are expensive to run, with no drawbacks on going electric whatsoever. Farm vehicles often need the torque for heavy applications, and landowners need to be able to hear their surroundings, and approach livestock and wildlife without disturbing them. Electric vehicles bring all of these attributes together, with the added health & safety benefit of a vehicle that does not produce harmful vibrations or toxic emissions. The time to act on reducing greenhouse gas emissions to avoid a climate change catastrophe is now, and our range of vehicles can help landowners to do just that," stated Marc.



Off-Road Electric recently took on the UBCO two-wheel drive electric motorbikes, as well as a new 2WD lightweight buggy called the 'Runner'. Available as an 'Adventure' or 'Work' Bike, the UBCO range is designed for tough outdoor settings and are completely silent. Working with HiSun, the 'Barrus

'Runner' is light and simple to drive, with a 40-mile range and 5kW motor.



Off-Road Electric take its sustainable responsibility seriously and therefore partners with Renewable World, donating a percentage of its profits to helping marginalised communities in Nepal and Kenya to power themselves out of poverty through renewable energy installations. Here in the UK, the company also aims to expand through inclusive employment to help serve a growing customer base, while also helping to employ people who might otherwise find it difficult to get a job.



M 07734 530452
marc.monsarrat@off-road-electric.com
www.off-road-electric.com



Recycling & Waste Management

Environmentally efficient solutions for your recycling plant



presses, you can optimally process a wide variety of materials such as industrial and commercial waste, household waste, paper and cardboard waste, plastics of all kinds, as well as aluminium and tin cans.

RCP Systems offer reliable, quality

equipment manufactured from A-class materials that are capable of processing high quantities of materials.

Producing heavy, dense bales with an energy efficient design, ensures low operational costs and maximum returns.

For more information on RCP Systems products and services, please contact us as below.

T 07437 004 247
john.dooley@rcp-systems.com
www.rcp-systems.com

RCP Systems is headquartered in Switzerland and specialises in the consulting, sales, installation, and service of recycling systems, of which it has been supplying and maintaining for 45 years.

Located across Switzerland, United Kingdom, the CIS countries and Serbia, RCP Systems is a family-owned business now in its second generation that has proven time and time again that it is a competent and innovative recycling specialist that offers the best possible solution from the individual component to a complex turnkey waste sorting system.

Through the use of MACPRESSE Baling Presses, RCP Systems offers an optimal and environmentally friendly solution to your recycling needs.

With the high-quality channel baling



MAC balers are available in a wide variety of sizes and models.

What they all have in common is the consistent quality of production, equipment with the latest microprocessor controls and a long service life.

For all your recycling machinery requirements contact us:-
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www.rcp-systems.com

WATER PROCESS SOLUTIONS

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

Intelligent innovation for water solutions

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

We pride ourselves in providing engineered water and wastewater treatment solutions across the global marketplace.



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

Berkshire Based Aldermaston Recycling Ltd stay on the CASE



Based in Reading and servicing Berkshire and the surrounding counties, Aldermaston Recycling Ltd is part of the Hutchins Group, a family-owned business that has more than 35 years' experience in skip hire and waste recycling.

Over the years, the group, which includes some well-known companies such as Ron Smith Recycling, Chiswick Skip Hire and Big Bull Bags, have established advanced recycling standards by adopting the latest technology to ensure that zero waste goes to landfill. Their operations are led by an experienced and professional team who are committed to delivering the highest level of customer service.

Aldermaston Recycling's aim to reduce the impact on the environment & improve health and safety in the workplace by utilising the latest technology, is evident in their latest investment of over 1.5 million pounds redeveloping their Reading based transfer station. The new state of the art facility is equipped with a new picking station, trommel, the latest in dust suppression systems and three brand new CASE G-Series Evolution wheel loaders.

The new CASE G-Series evolution wheel loaders are champions of productivity thanks to the optimal weight distribution, resulting in a tipping load at the top of each machine's range, for the maximum productivity. The cooling system's innovative "cube" design ensures the best cooling efficiency when compared to the conventional overlapping radiators: as such, all the coolers are simultaneously crossed by the same air flow at the same temperature for increased reliability, preventing overheating failures on engine, transmission, and hydraulics.

The NEW range of machines also come with CASE SiteConnect and SiteWatch™ as standard for three years. This telematics solution is built to gather critical information about the machine's performance and location, with the data quickly available for site managers to make decisions without being physically present.

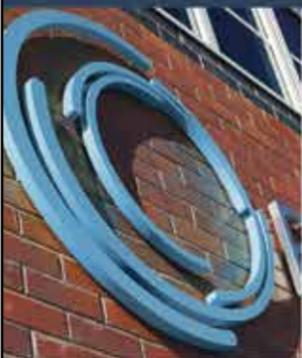
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Futurebuild Review – Top Exhibitors

Catalysts for change



Futurebuild is the built environment event where leading brands can share innovations, from products, to processes and solutions, with thousands of industry influencers and shapers. The world class knowledge programme, alongside the exhibition of innovative and inspiring brands, combine to create an unmissable experience.

Futurebuild is the industry event which empowers visitors to become the catalyst for change that is needed to tackle

the biggest challenges facing the built environment.

The industry leading Arena programme had sessions which focused on solving the current climate and ecological crisis led by politicians, academics and industry shapers.

This is our pick of the best exhibitors from the show, listed here in alphabetical order: Aceleron, Anhydretic, Clivet, EDGE, EV Blocks, Excel TM Group, Halcyan Water, Kensa, Kiss House, Marmox, Ranheat Re-flow, REHAU, SWIFIX and Zypho. Further details can be found on this page and the next two pages.

Futurebuild is such an important event for business and it will return 07 - 09 March 2023 at the ExCel London.

www.futurebuild.co.uk

Aceleron: Energy Storage Solutions with a Circular approach



Award-winning cleantech company Aceleron designs and builds the world's most sustainable, low-waste Lithium-ion batteries available on the market.

Anticipating a future with tonnes of unnecessary battery waste, co-founders Dr Amrit Chandan and Carlton Cummins designed a patented compression technology battery assembly method, allowing for each individual part of the battery to be easily accessed for repair, upgrade or replacement (with replaced parts being easily recycled or repurposed).

The technology is utilised throughout the entire

product range, currently comprising Essential and Offgen.

The Essential – a lead-acid battery replacement - offers up to four times the cycle life and three times more continuous power than a lead-acid battery, providing uninterrupted, reliable power at several different voltages.

Offgen is a complete and modular Battery Energy Storage System (BESS), designed for off-grid or grid-tied residential and light commercial use. It is optimised to work with solar PV systems and has several benefits including easy and flexible installation, and the ability to be upgraded, which significantly improves the ROI 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.

T +44 (0)121 201 2933
sales@aceleronenergy.com
www.aceleronenergy.com

EV Blocks

There are now a wide range of EV chargers available in the UK each with different fixing arrangements for their pedestals from one model to another, some provide the information you need, others don't do that so well.

It was from these problems that EV Blocks were born, EV Blocks are a universal pre-cast EV charger base made in the UK and prepared in a controlled environment. Casting EV charger foundations on site can be problematic both in the winter and summer, with extreme temperatures at each end of the spectrum. We all know how being at the mercy of the weather can cause project delays and disruption to project timelines.

EV blocks can be installed during the construction phase, which allows for projects to commence before chargers have been selected or they can be retro-fitted to

an existing site. With large national EV roll outs happening across multiple sites and multiple contractors completing the works, discrepancies will creep in, with an EV Block you can be sure you will get a uniform finish every time.

With futureproofing in mind, if the charger needs to be changed after the project has finished, it's just the case of replacing the adaptor plate and fitting the new charger, what could be easier?

T 01733 513 777
info@EVblocks.com
www.EVblocks.com



EDGE

The urgency for the built environment to reduce its carbon footprint is very real considering the recently experienced global warming impact on our lives and something EDGE, an acronym for Eco Design Green Environment, aims to address with a solution driven approach.

EDGE have created a showroom in response to the tremendous impact the construction industry has on the environment, both in the building of structures and in their lifelong footprint. It has created a space to connect sustainably-conscious material suppliers and specifiers while welcoming the general public and anyone dedicated to building and designing with the environment in mind.

Located in the central London Marylebone design district, London, it hosts a library of materials that are either by products, re-using and recycling different waste streams, natural and are biodegradable, zero carbon footprint in their production or 100% recyclable. It works with innovative, sustainable brands in the paint, heat recovery, wall finishes, flooring, carbon-neutral furniture categories and is a holistic showcase of



the many ways that we can design our spaces so that they integrate with the environment, rather than disrupt it.

EDGE is also an event space that hosts sustainably-minded CPD's, think tanks, talks, networking events, bringing the industry of sustainably-minded professionals and consumers together to push the boundaries of what a sustainable future means.

T 02038 767093
edge@edgelondon.eco
www.edgelondon.eco
@edge_ecodesign

Construction telemarketing & lead generation

Located at stand E69, Excel TM Group had an incredibly successful week at Futurebuild 2022, where not only did it exhibit but was named an official data partner for the show.

Excel TM Group is the UK's fastest growing and most efficient, outsource construction specific telemarketing and lead generation provider. With a combined experience of over 30 years of knowledge in the construction and built environment, Excel TM Group have an unrivalled level of market-leading intel and expertise.

Developed to offer you a maximum return on investment, Excel TM Group's services include CPD call campaigns, appointment scheduling, framework and supply chain agreements, product launches, events and seminars, website audits, all of which guarantee to provide your business with the highest quality leads into the construction and built environment sectors.

Founded by Managing Director Mike Dunn whose own experience across various stages of construction led him to create the company is what gives Excel TM Group the edge when it comes to running construction telemarketing and lead generation campaigns. This coupled with the capabilities to tailor all services to each customer is the company has grown from 1 to 21 employees in two years and why it received a 96% renewal rate in 2021.

T 01244 256 920
info@exceltmgroup.com
www.exceltmgroup.com





EXCEL TM GROUP
CONSTRUCTION TELEMARKETING & LEAD GENERATION

Construction specific Telemarketing and Lead Generation Campaigns ran by experts

- Combined experience of over 30 years in construction and built environment
- 96% renewal rate in 2021
- Grown from a team of 1 to 21 in 2 years
- Nominated for multiple business awards
- Tailored Telemarketing which guarantees return on investment

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Tel: 020 3876 7093 E: edge@edgelondon.eco
www.edgelondon.eco

Re-flow

Re-flow is a Devon-based company providing award-winning field management software for construction and infrastructure.

The software's comprehensive set of powerful features spans numerous areas of field management. This includes the creation of digital job packs, which can be fleshed out with attachable site-relevant PDF documents. Events can be scheduled against jobs, and operatives can be assigned, ensuring the right people are on site and effortlessly getting works moving. Work details can even be updated on the fly in the dashboard, synchronised to the app and communicated through the messaging system.

Customisable forms that can be built from the ground up to regulatory standards ensure strict compliance, with real-time data instantly communicated from the app to the dashboard as forms are completed. Going beyond the capabilities of paper forms, submitted data can even trigger automated workflows which can update job progress or change the status of plant,

vehicles and equipment within the system's records.

With over 180 firms successfully implementing Re-flow field management software, the company is trusted by industry heavyweights such as M.V. Kelly, Colas and BMI who have freed themselves of the many small inefficiencies causing roadblocks in their business and taken their field management to the next level.

T 01392 574002
info@re-flow.co.uk
www.re-flow.co.uk

Re-flow
Field Management

REHAU

REHAU, a leading polymer specialist, supports designers, contractors and clients in developing low carbon projects by providing product solutions for today's challenges, including the drive to net zero and the need for easy-to-install flexible pipework to meet ambitious, government-mandated decarbonisation targets.

Such solutions available from REHAU are the RAUTHERMEX pipe range for medium-to-large district heating installations and RAUVITHERM pipework for small-to-medium scale systems, which is the only PE-Xa district heating pipe made in the UK. Alongside this, REHAU offers a leading plumbing and heating system, RAUTITAN, well-suited for communal heating in multi-



occupancy properties.

A spokesperson at REHAU said, "The need to decarbonise the nation's building stock has been a long-standing challenge that has become increasingly pressing, and to do this will require a wide array of district heating and communal heating solutions suitable for different circumstances, from built-up urban areas to low-density housing in the suburbs and countryside.

"At Futurebuild 2022 we presented on the increasing use of polymer pipes in low-carbon heat networks for low-density housing. New build housing is a key area for lowering emissions nationwide and it was an opportunity to show the role polymer pipework can play in the ongoing transition to more sustainable residential properties."

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enquiries@rehau.com
www.rehau.uk/districtheating



Gyvlon® screeds : a range of flowing liquid screeds from ANHYDRITEC®

Anhydritec are experts in free flowing screeds and are part of the Anhydritec® company which applies over 14MilL/m2 of screed per year in 15 European countries.

Anhydritec's properties and performance gives Gyvlon® Screeds many unique advantages compared to cementitious screeds. With over 30 years' experience in the formulation of self-levelling screeds, its research and development centre designs innovative products that offer a vast range of benefits across multiple applications and platforms.

In the UK Anhydritec Gyvlon screeds are supplied through a network of 90+ partners across the UK & Ireland and installed by their 200+ approved screeder's. Gyvlon® Screed has a full range of fluid liquids screeds that are quality controlled and manufactured in the customer's concrete plants or mixed mobile trucks. Ready-to-use, from the delivery truck and pumped into place.

Anhydritec® understand that the products chosen in the construction process can have a huge impact on the environment both in embedded carbon used and also energy to operate the building. Benefits of using Gyvlon® Screed products are that their binder is made



from 98% recycled material and greatly contributes to sustainability in the supply chain by reducing embedded carbon by +80% compared to cementitious screeds. They also have specialist UFH screeds which can be used to reduce the input energy for the same heat output, saving on running costs.

For more information on the Gyvlon® Screed range, see below.

T 01925 428 780
enquiries@anhydritec.com
www.gyvlon.co.uk

Why you should specify a Halcyan in every home and business

Hard water affects 60% of UK dwellings and businesses and, while causing considerable damage to appliances, fixtures and increasing maintenance costs, it also has a highly significant impact on energy usage and fuel bills.

To put that into perspective, just 3mm of limescale build-up on the heating elements of appliances means they will use at least 21% more energy.

By treating hard water with a Halcyan Water Conditioner, the following energy and utility bill savings can be made every

year for 30 years:

- ▼ **Family Home** – Reduce bills by c.£500 and CO2e by 0.7 tonnes
- ▼ **Commercial Office** – Reduce bills by c.£8,300 and CO2e by 15.7 tonnes
- ▼ **Large Hotel** – Reduce bills by c.£25,000 and CO2e by 61.8 tonnes
- ▼ **Craft Brewery** – Reduce bills by c.£12,200 and CO2e by 43.4 tonnes

The Halcyan is a 'fit and forget' device the size of an old Smarties tube and can be installed by a plumber in under an hour. For existing buildings, it offers a quick and easy retrofit solution, preventing future limescale build-up and treating



existing limescale for a guaranteed 30 years.

Halcyan is THE SUSTAINABLE SOLUTION for hard water problems.

T 0345 5040 656
www.halcyanwater.com



INNOVATIVE PRODUCTS TO ENABLE FIXING THROUGH EXTERNAL WALL INSULATION

SWIFIX fittings have been designed and developed specifically for refitting and installing both lightweight and heavy items through External Wall Insulation systems.



Fixings are available from www.swifix.co.uk and from various distributors and builders' merchants throughout the UK.

SWIFIX award-winning fittings for EWI



SWIFIX fittings have been designed and developed specifically for refitting and installing both lightweight and heavy items through External Wall Insulation systems.

The fixings can be used during the EWI system installation, or as a maintenance provision for future installations providing a cost effective and maintenance-free solution, whilst also ensuring the integrity and protection of guarantees and warranties, and fully compatible under PAS2035 for compliance.

Fully tested and recommended by numerous EWI system providers

and installers, the fixings are manufactured from high quality recycled plastic and provide an aesthetically pleasing appearance to enhance newly installed external wall insulation. Currently supplying and versatile across the retrofit, new build and volumetric sectors where EWI is applied.

Recently receiving the Innovation Award at the recent INCA (Insulated Cladding & Render Association Awards) the fixings are an excellent alternative to timber pattresses. There are a suite of products all compatible with any finish such as brick slip, render and spar dash. The fixings are manufactured in the UK in black and white, however bespoke finishes and in a fire retardant material are available to compliment the finished render.

Fixings are available from www.swifix.co.uk and from various distributors and builders' merchants throughout the UK.

Let's stop throwing heat down the drain!



Did you know that after space-heating, hot water is the largest energy consumer in the home? At current energy prices, 30 minutes of shower use per day costs a household around £520 per year. But this can be reduced significantly by the installation of waste water heat recovery units such as Zyphe under a shower or bath, or in the waste water pipe.

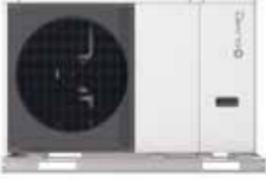
Most showers send waste water down the drain at 40°C – a major waste of energy. With Zyphe, the outgoing waste water is run against a copper coil of incoming fresh cold water. While the two streams are kept physically separate, heat passes from the waste hot to the fresh cold, effectively recycling the heat and lightening the load placed on the hot water generation system. The pre-heated fresh water can be directed to the shower tap, to the water heater, or to both. By the simple act of recovering heat from waste water, Zyphe improves the efficiency of the shower by between 30% - 75%, depending on the application and model. Perfect for new build or for retrofitting, its unique, self-contained mechanism requires no mains connection or maintenance. One day, all showers will work this way.

Contact shower@zypho.uk to discuss your building project or get a quote.

www.zypho.uk

Futurebuild Review – Top Exhibitors

Over 30 years: Solutions for sustainable comfort, people and environment well-being



Established in Feltre, Belluno in 1989 by Bruno Bellò, the company began its activity with the production of chillers and heat pumps. Then Clivet develops innovative specialised systems based on Roof-top units, WLHP Systems (Water Loop Heat Pump) and residential systems.

In 2016, thanks to the strategic alliance with MIDEA Group, Clivet

completes its offer integrating it with MIDEA's products, technology and sales structure, offering the market a complete and competitive range of chiller, heat pump, packaged, mono and multi split, VRF solutions.

Specialised systems for any application and climate

Today, buildings have to deliver an elevated and constant standard of well-being, regardless of the outside conditions. Not all buildings are alike: depending on their use, there are considerable differences in terms of load intensity, simultaneous requests for hot and chilled water, domestic hot water production and air renewal.

That is why Clivet has created a series of specialised system solutions for applications that meet the specific needs of different buildings by optimising the overall efficiency in relation to traditional systems (boiler, chiller, AHU).

Clivet's specialised systems simplify the design and installation work, improve the control of the entire system, reduce the environmental impact and, at the same time, optimise the initial investment, reduce running costs, increasing the building's energy rating and therefore its value on the market.

www.clivet.com

Flexibility and scalability of the renewable heat solution are key

It is one thing to make low-carbon heating technologies like ground source heat pumps available, but it is entirely a different matter to achieve their installation in homes and their adoption for use on a mass scale.

Rather than replacing gas boilers with ground source heat pumps on a house-by-house basis, Kensa is urging key stakeholders to focus efforts on street-by-street installations of Networked Heat Pumps on ambient temperature loops that utilise the natural heat in the ground combined with waste heat, to facilitate the widespread roll-out of the technology.

Kensa has developed a split-ownership model: energy companies, water companies, local authorities and pension fund managers fund, own and maintain the underground infrastructure in return for income via a modest, long-term infrastructure access fee. This approach provides a viable pathway for a subsidy-free replacement of the gas grid network.

With the right legislative changes, this would be a self-sustaining, subsidy-free method for widespread decarbonisation. Whilst these policies are put into place, strategic Government subsidy investment could bridge this gap to kickstart a low carbon transition.

Kensa is working to break down the perceived barriers to the widescale electrification of heat and showcase to policymakers and the public that Networked Heat Pumps can achieve mass decarbonization goals at scale for the lowest economic and societal cost.

T 0345 222 4328
info@kensacontracting.com



Kiss House

Kiss House delivers innovative Passivhaus homes, building systems, and products for self-builders, developers, housebuilders, and the mass market. The Kiss House team is dedicated to changing housing for the better, so that people can live better, healthier, more fulfilled lives.

After decades delivering bespoke homes, they have innovated a high-quality housing product which they deliver via a vertically integrated solution. The result is that they design, manufacture, and deliver Kiss House homes using a highly efficient model that reduces uncertainty and the site-specific design and engineering required for Passivhaus.

The Kiss House team has innovated a timber component based, low-rise residential construction system

with a high degree of in-built architectural flexibility. Designed to utilise ethically sourced multi-grades of timber from sustainable local forestry, it minimises reliance on engineered timber and creates a new market opportunity for variable grade timber not usual in this application.

Their system can deliver a wide range of housing typologies that are Passivhaus compliant and low in embodied carbon. When designing their construction system, they determined to move away from a traditional ground floor system. They now have a patent pending, Passivhaus compliant ground floor system that virtually eliminates the requirement for concrete and steel; and which is viable on the vast majority of sites. They have further reduced their carbon impact by innovating an enhanced natural



fibre insulation which is in testing at Bangor University BioComposites Centre. It has the mass market potential to displace petrochemical based products and is further testament to their commitment to decarbonising residential construction.

Find out more about Kiss House
Subscribe to news here: <https://kisshou.se/Subscribe>

T 0118 3800 172
support@kisshouse.co.uk
www.kisshouse.co.uk

Marmox Building New Relationships With Thermoblock

The high level of interest in Marmox's Thermoblock from attendees at this year's Futurebuild (Stand FO2) has underlined how the product was actually ahead of its time when originally launched back in 2012.

The 600mm long composite units have always been recognised as presenting a ready solution to the problem of cold-bridging at the floor/wall junction or beneath parapet walls, but stricter Building Regulations and an overall greater emphasis on energy saving across the industry has served to make Thermoblock ever more attractive to specifiers.

Grant Terry, the Marketing

Manager for Marmox, commented: "We were delighted though not really surprised at the enthusiasm architects and builders showed for Thermoblock at Futurebuild, it's proved itself in a range of applications and is now widely used in commercial contracts as well as by housebuilders. Crucially it avoids having to use punishing default values under SAP and it is also now being used beneath modular multi-storey buildings."

Thermoblocks are available in widths of 100, 140 or 215mm and are formed from sections of XPS (extruded polystyrene) encapsulating two rows of high strength, epoxy concrete mini-



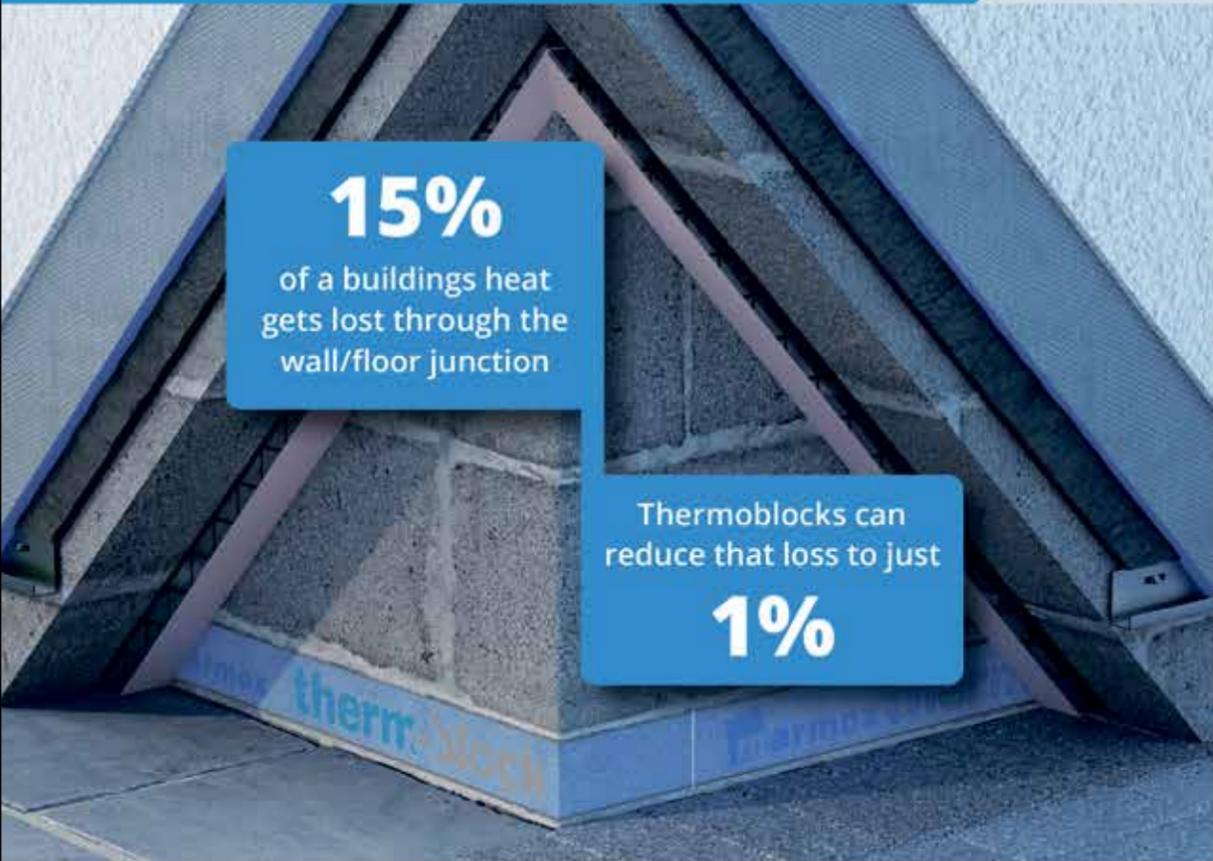
columns. These are attached at either end to the top and bottom layers of glass-fibre reinforced polymer concrete, to ensure a good bond with the rest of the structure.

For Further Information, Please Contact:

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Helping to Eliminate Thermal Bridging



15%

of a buildings heat gets lost through the wall/floor junction

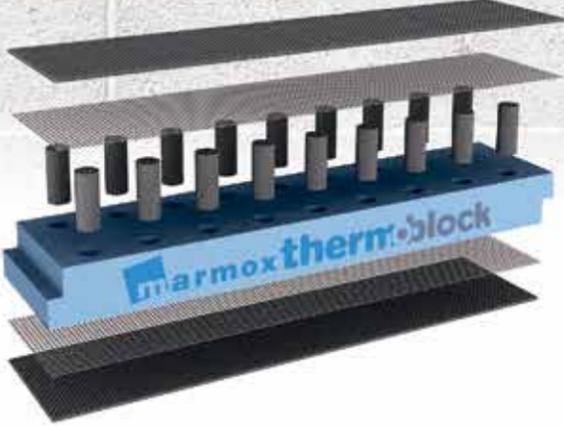
1%

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Reduce heat loss at the base of walls

Your environmental future



Winner of Best Flexible Working Initiative in the Employee Experience Awards 2022, as well as attaining High Growth Business of the Year at The Yorkshire and Humber FSB Awards 2022, Comply Direct has achieved so much already.

Cherry commented, "we are hugely proud of our environmental and sustainability achievements. Last year we achieved a 36% reduction in total gross emissions, switched to a renewable electricity supplier so electricity makes up 0% emissions, signed-up to the Race to Zero campaign and committed to reach net zero by 2030 for our direct emissions. Alongside this, we also joined as a supporter of The CEE Bill, signed-up to the Better Business Act, and have started the process for transformative change for the business which will become apparent later in 2022 and into 2023."

Drawing on its 16 years of experience, the company has established an inhouse team of expert carbon and energy management consultants, helping organisations at every stage of the carbon management pathway, from measuring emissions, to target setting, reducing emissions and offsetting. Comply Direct's Carbon Management service is designed to help organisations effectively measure and manage their carbon emissions whilst understanding where greenhouse gas emissions are generated within their business, in order to take proactive action towards Net Zero.

Need help building an ESG proposition? Comply Direct offers a flexible ESG package that enables you to choose the most relevant ESG factors to your business and create your own timeline. Comply Direct has experts who work with you to breakdown each area of the ESG criteria to provide your business with a complete ESG review that highlights valuable information to stakeholders, reduces natural resource and operational costs, boosts employee productivity, and many more benefits.

In this issue of Sustainability Today, we are pleased to announce Comply Direct as our Environmental Services Company of the Year.

Comply Direct is a market leading environmental consultancy and compliance scheme. Supporting and empowering organisations to achieve their sustainability obligations and aspirations, Comply Direct deliver offerings for mandatory and voluntary initiatives, from carbon management and environmental social and governance (ESG), to packaging sustainability, plastic packaging tax and extended producer responsibility. Furthermore, the company also fulfils the legislative requirements of obligated companies under the waste packaging, WEEE and batteries legislation; for which they are the largest WEEE scheme and second largest packaging scheme in the market.

The company has witnessed a remarkable growth over the last few years to which many areas of the business have developed and changed making way for implementations of new services, projects and initiatives. We spoke to Cherry Whittaker, Marketing Manager, who explained how the last 12 months have fared for Comply Direct. She answered, "overall, very successful and the business has grown in many ways with the last year being full of exciting developments and change, award wins, and employee growth to which we are now up to 40 employees. We have performed well against our sales targets and overachieved these in multiple service areas. Overall, we have grown our service offering and achieved an increase in sales revenue compared with the previous year. Furthermore, we have also started our journey to B Corp certification to underpin our business ethos of being a business for good and have already made significant headway, currently at the verification queue stage. In support of this, we have defined our revised vision, purpose and values to align with our B Corp journey."

Its recent sustainable growth has enabled Comply Direct to take full responsibility for all its business impacts allowing growth that is repeatable, ethical and responsive to current and future economies. In reflection of this, Comply Direct has launched multiple new service offerings including Environmental, Social and Governance consultancy and a bespoke data management platform to support packaging producers with Extended Producer Responsibility preparation, plastic packaging tax and more.



and successfully. "To do this we will utilise our ESG framework to make our business' future fit and have multiple ISO standards in place that assure our internal processes and procedures are resilient, allowing us to quickly adapt to change and achieve continuous improvement. To ensure business longevity, our customers' needs are paramount to all our key business decisions and strategic direction, therefore, we will continue to place them at the forefront of our business strategy and operations," stated Cherry.

It is evident that much of Comply Direct's success over the past 16 years is the result of its hard work, blend of expertise and experience, and its ability to adapt with the changing sustainable environment we live in. In closing, we asked Cherry how the company felt receiving our award. She answered, "we are delighted to have won Company of the Year in our sector, as this very much recognises the consistent dedication and hard work of our full team towards achieving a better, fairer, sustainable world for all. We have always operated as and continually focused on being a business for good so it's wonderful to have our efforts noticed."

For more information, see below.

T 01756 794951
sustainability@complydirect.com
www.complydirect.com



Two other notable services provided by Comply Direct include Plastic Packaging Tax, a consultancy service to help you understand how plastic tax impacts your business, manage your liability and data reporting, and recommends mitigation options to reduce these effects. In addition, Sustainability Integrated Database (SID), which is a service that echoes the company's focus on guiding producers through the transition to EPR and other new environmental legislations seamlessly. SID is an online data analysis portal enabling intelligent data upload, storage, editing, filtering and bespoke outputs, and is essential to prepare for the complexity of reporting under Extended Producer Responsibility and Plastic Packaging Tax.

Comply Direct offers a simple, trusted and transparent approach to compliance focused upon providing a premium level of customer service. Marked as not just an 'environmental compliance scheme' or 'purely a consultancy', the company endeavours to support and empower organisations to achieve both sustainability obligations and aspirations. "We hold multiple ISO standards and are committed to reducing our emissions and impact on biodiversity. Our dedication to creating an improved environment is underpinned by our company vision to build a better, fairer, sustainable world for all," added Cherry.

Over the next five years, Comply Direct has a roadmap in place to ensure it can navigate the changing environmental legislative landscape strategically



CCTV Drain Inspection Systems Company of the Month

If you can do your job well, then we are doing ours well

In this issue of Sustainability Today, we are pleased to announce XTI Ltd as our CCTV Drain Inspection Systems Company of the Month.

Based in Oldham, XTI Ltd manufactures specialist drainage equipment and also repairs numerous other brands' equipment. The company was founded by company director Anna Humphreys in February 2010 who has now worked in the industry for 20 years, and she was driven to develop the business into a market leader by her previous knowledge and experience.

XTI provides its customers with state-of-the-art CCTV drain inspection systems, with repair and customer services to match. All XTI products are designed and manufactured on-site and the company believes that ongoing product development is key when it comes



to delivering technologically advanced drainage equipment. Since its inception, XTI has grown year-on-year serving customers across the UK.

By manufacturing all of its products and undertaking all repairs on-site, XTI is agile in terms of keeping the right levels of parts and equipment on the shelf. Anna stated, "by producing so many products



here, companies can rely on us at short notice and that's something our customers comment on time and again. I'm not a person who likes to say 'sorry we can't help you' so it's part of XTI's ethos to be prepared to say 'I can ship that to you today', although lots of customers also collect items because there will be a cuppa waiting."

As well as having a its own range of products, the

company can also repair other brands of drainage camera equipment. Anna continued, "many of our customers came to us originally with a repair on another brand because they needed a rapid turnaround."

When they have experienced our customer service and learned about our products, the next time they have needed new equipment they've come straight back to us."

Anna is particularly proud that XTI helps smaller businesses as well as large and its USP is the 'while you wait' repair service, which really helps those companies to negate down-time. Anna commented, "if a small business owner has a problem with their equipment, it could mean that they are out of action for some days, letting their customers down and ultimately losing money. I always tell people they can call us at any time, and if they drive their equipment to us, we will make it a priority to undertake the repairs so they can quickly get back to business as usual."

Being easily accessible from the M60 and M62, Oldham is in a central location for customers – whether in Scotland or London – to bring things to be repaired. However, XTI also works in partnership with numerous courier services so if companies prefer to wait one more day, rather than making the journey to Oldham, Anna and her team can arrange rapid collection and delivery to anywhere in the UK.

Since its establishment, XTI has always kept ahead of the swift moving technological times that we are in. Anna mentioned, "moving, for example, from DVD to USB technology was a challenge to all companies, and we adapted very quickly. Being a small company does not mean that we cannot keep



up, I think it makes us more reactive and forward-thinking if anything. We manufacture great products, offer robust systems and prioritise the need of our customers."

While COVID-19 affected many businesses adversely, XTI continued to work because drainage and sewage water management systems had to keep running smoothly in hospitals, schools, and many other crucial businesses. The company therefore remained on call to aid organisations that had any problems, and as a result they XTI has gained even more loyal customers.

Anna concluded, "whether a company is looking for a new CCTV drainage inspection system, a repair to another brand's product or an upgrade for a specific piece of equipment, we make the customer our priority and go above and beyond to meet their needs. From fast turnaround times to competitive prices, from straight talking to a good cup of tea, there's a few reasons why new customers end up as long-standing customers."

For more information:

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www.xtiltd.co.uk

Industrial Machinery Manufacturing Company of the Month

Engineering at its best

In this issue of Sustainability Today, we are pleased to announce STADLER as our Industrial Machinery Manufacturing Company of the Month.

STADLER is one of the leading global manufacturers of materials sorting facilities for the waste management industry. Headquartered in Germany, STADLER is a 7th generation, family business that has successfully transformed into one of the most well-respected environmental, high-technology companies within the recycling industry. Countries around the world have benefitted from STADLER's high-quality machines and expertise, and in 2007 STADLER UK was set up as a project delivery and operational management company for the UK market.

"At STADLER UK our priority is the assembly of automated sorting systems with a main focus to solve and manage the UK waste problem through functioning recycling streams. Materials that our plants process are plastic bottles, municipal solid waste, dry mixed recyclables, commercial waste, paper and cardboard, mixed construction materials and bulky waste, and



many more," stated Benjamin Eule, Director STADLER UK.

Contributing towards the 400+ STADLER sorting plants around the world that feed the global recycling loop, STADLER UK has recently designed and built a new processing plant for Hywel NMP Ltd. in Wales, that is unique in its capacity to treat fines below 50mm, achieving exceptionally high recovery rates with a process that has a remarkably high yield for producing Solid Recovered Fuel.



Benjamin commented, "we have a close-knit collaboration with Hywel NMP Ltd. and have worked with them on previous projects. We understood the particular material they wanted to process and we were able to advise them on certain processes."

The main objective was to generate a high-quality fuel that is highly efficient and therefore saves resources as the residue of the material is minimalised and diverts high amounts of material away from disposal. We installed energy efficient motors so that the energy used in the processes was as low as possible."

The continues rise of fuel prices and a focus on saving natural resources is driving growth in the demand for Solid Recovered Fuel. This demand goes in line with reducing the amount of waste going to landfill. STADLER UK hope the industry will recognise its expertise, and that its collaboration with Hywel NMP Ltd. will create a ripple effect for further work within the UK, and for more opportunities to continue its R&D processes.

STADLER has also recently released two new products; STADLER Label Remover and the New STADLER PX Conveyor. Both products fall in line with the company's overall



commitment to produce sustainable ways to maximise the efficiency of the recycling process and quality of output. The STADLER Label Removers are a valuable asset for plastic bottle



sorting plants, where they can significantly increase the output and purity rates. The new STADLER PX acceleration conveyor integrates the best features of the BB and DB conveyors, for optical sensor sorting and takes purity to new heights.

In the future, STADLER UK will continue its efforts to improve processes in the recycling industry and offer its expertise and guidance on implications of the new Deposit Return System legislation, here in the UK. Sustainability in the workplace is a key priority for STADLER UK, and together with its parent company, they will continue finding ideal solutions for every requirement to tackle the global waste problem.

For more information, see below.

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Strength. Reliability. Honesty



In this issue of Sustainability Today, we have selected Deltax as our Scrap Metal Machinery & Engineering Company of the Year.

Deltax is the market leader in hydraulic shears and cable strippers and its machinery can be found operating in every continent in a number of different industries. As a leading designer, manufacturer and supplier of all equipment and machinery involved in scrap metal, demolition and construction industries, Deltax has built a strong and thorough reputation of being reliable, trust worthy and professional amongst its clients.

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.

Focusing on the last 12 months, we spoke to Lee Stainton from Deltax who explained how business has been for the company. "We have been very busy production wise and our sales have increased which is great. We are currently trying to improve our aftersales support and up to now it has been really good. We are generally looking to improve in all aspects of the business and our service. The sales of our machines and spares have been fantastic and we have seen considerable growth in this area."



Deltax provides an extensive range of high-quality equipment, 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.

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 the latest production techniques. These technologies include the use of Computer Aided Design (CAD) and manufacturing systems, and Deltax maintains an ongoing policy to constantly improve design and production, to ensure that Deltax consistently meets the changing needs of the industry.

The Deltax range is an internationally recognised brand for shearing, cleaning and cutting any material into manageable sizes. The Standard Duty Alligator Metal Cleaning Shears are known for their manufacturing quality and are designed for years of



trouble-free service. They are available in seven types with blade lengths ranging from 120mm – 680mm. The Heavy-Duty Alligator Metal Cleaning Shears design features a special hydraulic scrap hold down which is a unique design that gives more stability to material that may want to move during the cutting process. This product is ideal for heavy items including plate, rolled bar or odd shaped scrap.

Heavy Duty Alligator Rebar Processing Shears is the most popular range for cropping and cutting in a shearline application. This range includes three machines with blade lengths ranging from 300mm – 600mm. For process of plant work, the Vertical Metal Cleaning Shears are excellent at cutting high volumes and comes as a stand-alone vertical shear. Lastly, the Mobile and Portable Shears and Attachments deliver a range of hand-held cutting equipment and attachments for small excavators and skid loaders.

Designed for mobile scrap and demolition applications, these are excellent for car dismantling, interior demolition and site work. There are multiple versions available including "Self-Contained" Hydraulics and "Hydraulic Powered with separate Power Units". They can be remotely operated with gas, electric and battery powered options. For daily recycling applications and heavy



cutting load, Deltax recommends hydraulic powered tools with separate power units.

Another product range to note is the Deltax Wire and Cable Strippers that come as bench top or stand alone and are perfect for stripping cable from 1mm to 135mm diameter. They are made to last and are designed and manufactured to the highest quality. In support of its products, Deltax's aftersales support and service is second to none. The depth of experience and knowledge of each qualified personnel means that every product has been given the upmost care and attention during the manufacturing process. All Deltax equipment and parts are guaranteed under its standard warranty policy and its service is supported by its highly qualified technicians who work efficiently to ensure that the normal operation of your machinery resumes as quickly as possible. Some other dedicated services include: telephone assistance for service requests, spare parts, maintenance advice, telephone assistance for spare part estimates, special requests and general assistance.

Its commitment to quality is echoed throughout its operations and as such, Deltax ensures that from the smallest component part to the largest finished machine, that quality is maintained. This guarantees that when purchasing Deltax products, the highest level of engineering and design has been applied to the production of the equipment.

With a brand-new website soon to launch within the next month, the future for Deltax is looking bright. In closing we asked Lee, how the company felt receiving this award, he answered. "It feels amazing that a small run business can achieve such awards. It shows what sort of company we are becoming and now being recognised for this."

For more information, see below.

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