




SUSTAINABILITY TODAY

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Sensicrete: Self-healing concrete that can save you money

JP Concrete are pioneering a sustainable, self-healing concrete that promises to save the construction industry billions. How does it work?



Let's face it, nobody wants to fork out more cash or put in more work for the sake of concrete – no matter how sustainable it is.

JP Concrete's eco-products, however, promise to do the opposite. As well as helping to protect the planet, their self-healing Sensicrete could save Britain's construction industry billions.

But how does it work?

Put simply, Sensicrete is mixed with limestone-producing microbes. These lie dormant within the structure until a crack appears. As the crack lets in oxygen and water, the microbes are activated.

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Phil Sayers, Director,
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Genpact launches 24 hour 'Melting Point' challenge

Ahead of this weekend's Formula E London E-Prix at the city's iconic Royal Docks and ExCel exhibition centre, Genpact (NYSE: G), a global professional services firm focused on delivering digital transformation, is enabling people around the world to join in on the fight against climate change with a new social media challenge, 'Melting Point,' designed to draw attention to the realities of our warming planet and highlight the role of technology in overcoming critical global issues.



Melting Point places a sustainably sourced three-ton ice replica of an Envision Virgin Racing Formula E car alongside the team's race car at the Tower Bridge in Potters Field Park.

Leveraging Genpact's artificial intelligence-powered algorithms that have helped Envision Virgin Racing accurately predict the number of laps in a race; Genpact is providing real-time updates on the many factors that impact the melt of the ice car replica, including temperature, wind speed, rainfall and local footfall.

The Melting Point competition opened at 5:00pm BST on July 21 on Genpact's Twitter handle (@genpact) using the hashtag #MeltingPoint. To track the progress of the ice car construction, stream the event live, and find out more about the competition, visit: www.genpact.com/meltingpoint

www.genpact.com

Specialists in odour services

In this issue of Sustainability Today, we have selected Silsoe Odours as our Odour Consultancy Company of the Month, for the company's industry leading expertise in odour monitoring and management.

Silsoe Odours was founded in 2005 by Director, Robert Sneath, a UK expert in the development of the European Standard for olfactometry and sampling. Silsoe Odours is a specialist odour consultancy that delivers independent, industry-leading technical expertise helping a wide range of clients to assess, understand and manage odours.

"We provide specialist odour services across a range of sectors, including wastewater and sewage, waste management, composting, landfill, biofuels, anaerobic digestion, intensive farming and many more." stated Joanna Hanley, Marketing Manager.

Providing its services for a wide and varied client base including anybody who is involved with monitoring or managing odour; the company mainly provides for two core audiences.

As Joanna explained, "Firstly, environmental and planning consultants who are involved with developing or updating sites which may produce odorous emissions as a by-product of their operation. Secondly, operators who are responsible for minimising malodours from their site. It is good



practise to operate best practise when it comes to odour monitoring, which will serve them well with the regulator and/or in court if there are any odour complaints or problems."

Silsoe Odours' services are underpinned by its highly skilled team, which provide an abundance of experience in odour management, measurement and consultancy. As a team of technical experts, they maintain unrivalled experience in the field of odour measurement, quality expertise, education and technical analysis. This is evidenced most notably through the company's odour laboratory being the first in the UK to be UKAS-accredited to BSEN13725.

"We are a small, family-run business with extensive experience and expertise in odour consultancy." Joanna continued, "Not only is the standard of our work exceptional (supported by our UKAS-accredited status), but we also offer a flexible and friendly service to clients. We often receive feedback that we are easy to work with, supportive in achieving client deadlines, and provide reports which are comprehensive but easy to understand."

After the recent challenges from the COVID -19 pandemic, as with most industries, the pandemic has had an impact on daily operations. In many ways, odour management became even more pressing, as so many people

spent last year at home, in their gardens, meaning they were acutely aware of any nuisance odours. Joanna elaborated, "After a short period of closure, we are pleased that we were able to adapt our working practises quickly and efficiently. We are now able to operate safely and in line with government guidance.

In the odour laboratory, we updated the air conditioning system and used a local supplier to install screens between each odour panellist, allowing them to work safely. We also installed windows within each 'pod,' allowing lots of natural light and meaning the team can communicate easily while working.

On site, the team take all relevant precautions, including good social distancing, sanitising and hand washing practises. They can demonstrate these to clients as required and will adapt their way of working as needed for each site."

As the company places the utmost importance on its clients being at the heart of its business, Silsoe Odours is dedicated to providing exemplary customer service. Committed to exceeding expectations, its team ensures it provides transparent, efficient and honest communication so it delivers exactly what its clients need, when they need it.

For any further information, please see the details below:
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Experts in mechanical separation equipment


Separation & Flow Technologies is a division of GEA Group, one of the world's largest systems suppliers for the food, beverage and pharmaceutical sectors. GEA Group is an industry leading, global company with subsidiaries located worldwide and

maintains more than 18,000 employees. The international industrial technology group specialises in machinery and plants as well as advanced process technology, components and comprehensive services.



Working to Raise Industry Standards

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Westfalia separator was founded in 1893 by Franz Ramesohl and Franz Schmidt. It is now part of separation & flow technologies division of GEA Group. Based in Wolverton, Milton Keynes the Separation & Flow Technologies division provides mechanical separation equipment, comprising all activities related to the manufacturing of process-related components under one division, in particular separators, decanters, valves, pumps and homogenisers.

The division provides its services to the waste water industry and other companies and sectors including: municipal water companies, industrial sectors such as food, beverage, recycling and the agricultural sector.

Mechanical separation processes are used to exploit the different particle properties, such as particle size, density, particle inertia, magnetisability or electrical mobility.

Separation & Flow Technologies division provides world-class performance Innovative solutions and flexibility, utilising GEA's process engineering components and machines for production processes. The division's solutions contribute to a cleaner environment and ensure the efficient separation and homogenisation of liquids for applications in diverse high-quality popular products. GEA pumps and valves guarantee that raw materials and products are moved efficiently and safely through plants.



As nearly every industry has faced new challenges due to the COVID-19 pandemic, companies and organisations have had to adapt quickly in response to COVID-19 restrictions, such as national lockdowns, furlough scheme and adapting to working from home. We caught up with Chris Clarke, Business Manager Environmental and asked him about how the COVID-19 pandemic effected the company.

He told us that, "Working from home was challenging," Chris continued, "However, we managed to run on site trials and get projects over the line during lockdown which was a new challenge but one we managed to overcome."

As the world looks toward a future moving away from the restrictions of COVID-19, the future is definitely on the minds of many. In terms of the company's plans, Separation & Flow Technologies division of GEA Group plans to continue constantly developing and expanding its service offering.

Chris explained, "We have plans for expansion and further growth. These are the key areas, which have been highlighted for initiatives. Also, developments in the manure market and partnerships with key projects."

For any more information about the company, please see the details below. Alternatively to speak to them directly, give them a call on the number stated.

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Positive changes ahead

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By John Alexander, Managing Director of Aquobex, leading global specialists in designing, developing and implementing flood protection solutions for homes and businesses.

We welcome the government's announcement for 'record' investment of £860m into more than 1,000 flood alleviation schemes although it may be ambitious to deliver in this fiscal year.

There remain millions of homes that need to be protected so this latest spending programme will bring greater certainty and continuity to households affected and to the flood protection industries supplying these schemes.

Most welcome, though, are the tighter restrictions on planning permission for new builds because we need to reduce the number of homes at risk rather than increase them.

The enthusiasm from the flood re-insurance scheme, Flood Re, for a build back better proposition for the existing 5.2m properties liable to flooding is also positive and we await the detail in their remit from this announcement.

For more information on flood defence actions, contact Aquobex on: 01923 518582.

Plants Solutions and services for Industrial Water and Wastewater Treatment to reduce emission/water footprint

German Industrial water solutions provider EnviroChemie introduces its complete portfolio for industrial water solutions, water services and water chemicals to the UK market. As part of this initiative, its subsidiary Clearfleau Group Ltd, has been renamed EnviroChemie UK Ltd.

EnviroChemie GmbH has established reputation for energy and resource efficient technologies for water and wastewater treatment and recycling, specialising in developing and implementing sustainable customised solutions in different industries.

We offer a holistic range of 'Made in Germany' branded products and services based on biological, membrane filtration and chemical-physical processes, whose pedigree relies on its long list of research achievements and patents. EnviroChemie adopts a partnership approach in which client specialised needs and characteristics form the basis for individual design, planning, engineering, building and commissioning of treatment plans.

Plant solutions for water treatment and resource recycling or biogas production save valuable resources and energy. We continuously develop the technology lines for physico-chemical, biological and membrane technology water treatment, created in our own research department. Customer-specific solutions can be tested in our own technology centre or in pilot plants.



EnviroChemie is a member of the EnviroWater Group, a network of companies with specialists in the solution of a broad range of requirements for sustainable water treatment.

Within this network, EnviroChemie UK has been appointed to design and build a new onsite Bio Plant and wastewater treatment facility at the BrewDog Brewery in Ellon, Scotland.

The AD facility will convert organic process waste to site generated biomethane for injection into the gas grid and help reduce water usage by over 40%, improving the sites carbon footprint and helping BrewDog towards their target of zero emissions.

The EnviroChemie solution was chosen for its ability to convert a high proportion of the organic waste to Biogas, with the post treatment producing a high-quality water for surface discharge or potential reuse.

The EnviroChemie WaterExpert™ digital platform will also be incorporated, as part of the ongoing plant operation.

The WaterExpert™ app offers an easy and convenient way to help monitor and optimise plant operation. Using a smartphone, tablet or desktop computer, you can get a remote overview of the status of the entire plant with:



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The hidden environmental cost of activated carbon water treatment

Activated carbon has been one of the water treatments of choice for many years. It's used to remove or drastically reduce recalcitrant organic compounds in wastewater. However, depending on what the water to be treated contains, our research shows that in quite a few cases a granular activated carbon (GAC) treatment system may not be your best solution.

The carbon is created by pyrolysis: slowly heating a raw material to around 1,000°C. These materials can be by-products of recycling like coconut shells and bone, but they can also be valuable materials such as coal and

wood. Slow growing oak is often used as it results in a higher quality of GAC, but this begs the question as to whether this is a good enough use of such a precious natural resource.

So, what's the alternative?

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Water sector: LOCKEN's experience in Champagne

For over 8 years, the LOCKEN solution has been installed in the conurbation of Châlons-en-Champagne, which comprises 8 towns and villages. The installation of the LOCKEN solution is an important step in the overall security initiative undertaken by the conurbation as of 2010, the year in which it obtained ISO 14001 certification for its drinking water production system (pumping station and immediate protection zones, whether nearby or more distant).



This initiative was intended to prevent all the risks to which the sites are exposed: break-ins, vandalism, pollution, etc.

In 2013, the water board decided to modernise access to its drinking water production and storage installations and enhance site security. That is why it replaced its traditional mechanical 'key-based locking' system with the LOCKEN electronic access control solution for its remote pumping stations and reservoirs scattered throughout the region.

The close, long-standing co-operation between the water board and LOCKEN's teams led the board to upgrade the system. A few months ago, wishing to benefit from the latest innovations it opted for the most recent key generation. Based on the use of induction technology, this key possesses properties that are particularly highly valued in the water sector: instantaneous opening coupled with high resistance to wear, oxidation and dust.

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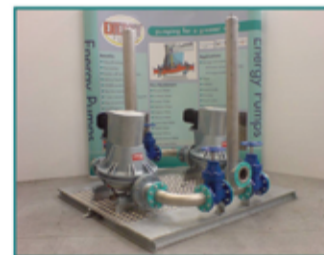
Situated in the heart of Nottinghamshire's rural outpost and next-door to the famous Southwell Racecourse is Energy Manor, home of Energy Chemical & Equipment Company; Designers, Manufacturers and Suppliers of Energy Ram and Diaphragm Pumps for the Waste Water and Process Industries. Established since 1984, Energy Pumps excel as the preferred Sewage Pumps for the Waste Water Industries.

The heavy-duty, industrial Energy Ram-Piston and Diaphragm Pumps cope with a range of applications including the automatic Pump-desludging of Humus in Primary settlement tanks; Digester Feed; Long-Distance Sludge Transfer; RBC Feed and De-Sludging; Inlet Dosing; Raw Sewage Transfer; Filter-Press Feeds. Energy Pumps also Pump Silt in Quarries; Pulp in Paper Mills; Effluent in the Farming industry; plus Bone, Blood and Offal waste in Abattoirs throughout the United Kingdom.

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Sewage treatment specialists

Allerton Construction Limited was established in 1974 by Jon Allerton. What started out as a company originally concerned with draining farmers' fields, in the late 1980s, turned its attention to work in off mains drainage. Fast forward to 2019, Jason Bradley and Jon Allerton formed Allerton Bradley to ensure the continuation of the company for another 40 years.

Allerton Bradley cover sales, servicing, commissioning, and repairs of all types of septic tanks, sewage treatment plants, sewage pump stations and soakaways. British Water is a dynamic trade association with a varied membership of companies covering all sectors of water and wastewater industry. Its members design, build, operate, maintain and provide critical solutions, technologies and research for water and wastewater assets at home and internationally. Working across the East Midlands and beyond, Allerton Bradley has a dedicated and experienced workforce that are trained with British Water to ensure they are in the best position to properly assess and correct a situation.

The main areas which Allerton Bradley serve are Cambridgeshire, Lincolnshire, Rutland, Yorkshire, Nottinghamshire and Leicestershire. With 46 years of sewage treatment experience, Allerton Bradley is able to provide a bespoke sewage treatment solution for any specific requirement. Taking pride in the quality of the equipment it supplies, Allerton Bradley ensures that customers sewage systems will meet the Environment Agency General Binding Rules.

Allerton Bradley offer an extensive sewage treatment plant servicing contract and maintenance contract, which is recommended to ensure a long service life for your sewage treatment system. The company provide



a full servicing contract and maintenance contract to ensure pumps and blowers are removed, checked and cleaned. All pipework, including valves are checked to ensure they are in good working condition, distributors are stripped down and checked, diaphragms and filters are checked or replaced. If required, Allerton Bradley can replace perishable parts including lid seals, locks and hinges and advise whether units require desludging. As well as checking parts, pumps and blowers are also tested under working conditions, and oil can be replenished on certain units if need be.

A plethora of servicing and maintenance options are available such as sewage servicing and maintenance, septic tank conversion unit servicing and maintenance and pump station servicing and maintenance.

Allerton Bradley has three sewage treatment systems available: The Diamond Range, Septic Tank Conversion, and Wastewater Sewage Treatment for 70+ people. The

Diamond Range is recommended for 6 – 55 people and is designed with innovative features ensuring a reliable and effective means of treating effluent from properties not connected to mains drainage. The Diamond sewage treatment plants are CE marked and have been tested in accordance with EN12566-3 making it fully compliant with UK building regulations. The Diamond 6 is a best seller with 630mm invert level – ideal for new builds and the replacement of existing tanks. Its compact design of the units reduces installation and handling costs compared with other plants and in domestic applications will serve up to six people. There are no odours with the Diamond 6 as it does not require primary settlement tank of sewage where odours normally occur. With a process performance which is guaranteed for the lifetime of the plant, the Diamond 6 is efficient and has a continuous bacterial digestion process meaning the plant will continue to perform. You can have peace of mind, as the simple design, reliable operation and minimal maintenance results in low running costs. Furthermore, the Diamond 6 is great value for money and comes complete with two warning beacons fitted to the all weather, air blower kiosk.

The Allerton ConSept is the ideal solution for your Septic Tank Conversion. It will convert existing septic tank or cesspool into a fully functional sewage treatment system producing a final effluent that can be discharged into a watercourse or soakaway. There are many reasons to use the Allerton ConSept for your Septic Tank Conversion as there are no moving parts inside the tank. It is also quick to install inside an existing septic tank which means it cannot be seen or heard. It maintains water at the correct level, keeping drains clear right up to the house and is manufactured using high-grade composite materials and non-ferrous components meaning the Allerton ConSept will never corrode. The Allerton ConSept only requires one service a year and desludging once every two years. The installation and commissioning of the system by the company's British Water Accredited engineers is also included with the service.

If you're looking for a system to cater to a large amount of people, the WPL HiPaf is based on the Submerged Aerated Filtration process and is ideal for 60 – 20,000 people. The system involves a robust process; consistently complying with discharge permit requirements. With low operation and maintenance

costs, it is capable of dealing with variable flows and loads (down to 10% of design loads). Installation costs are low due to its small footprint, and valuable time is saved on site due to the ease of installation.

Allerton Bradley provide a vast range of pump stations for the following areas: sewage, dual sewage, high specification, dirty water, dual dirty water and storm water. Each of these come with certain recommendations of application and use which can be found on the company website.

Furthermore, Allerton Bradley provide specialised pump stations for awkward situations. It could be a need for something small, shallow, or narrow, if you have a unique specification requirement, it can be accommodated for.

Despite the current setbacks caused by the COVID-19 pandemic, Allerton Bradley is continuing to work and grow. It has found ways to continue working in a safe way, however, noting while the company is still making site visits, it will not enter a house. Its services are well respected nationwide, holding a vast number of testimonials to its name. If you would like a site visit free of charge, or to simply discuss any issues, Allerton Bradley's knowledgeable staff are on hand to help.

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Pioneering industrial sustainability

Under the credo of 'Pioneering Industrial Sustainability,' Castolin Eutectic launches in September its growth strategy for the next years under the leadership of a complete new executive management team based in Kriftel, greater Frankfurt area, Germany.

Over the course of more than 100 years, Castolin Eutectic has brought innovative products and solutions to customers in



wear-intensive industries, continuously striving to extend useful life, reduce maintenance costs and increase industrial productivity through welding, brazing and coating technologies.

"We have transitioned from being a family-owned business into a global standalone company while maintaining our industry expertise, people focus and our deep rooted belief in sustainability," explains Patrick Fetzter, President and

Chief Executive Officer since October 2020.

Castolin Eutectic will keep expanding its key industry customer base (cement, mining, oil & gas, power generation, steel, pulp & paper, sugar, agriculture, recycling) and distinguish itself through customer service, speed to market, responsiveness and reliability.

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The DIREKT RFID KANBAN system from Dresselhaus offers OEM manufacturers and mid-sized enterprises a smart solution for efficient and reliable C-parts management.



The Dresselhaus DIREKT KANBAN system offers numerous advantages for manufacturing enterprises. For example, production downtimes due to lack of parts are less frequent, since the production department can take care of replenishment without outside assistance. The employees of each product line are responsible for their own DIREKT shelf.

The empty DIREKT containers are scanned and the data is transmitted to the Dresselhaus ERP system. This initiates picking of a replenishment order and Dresselhaus delivers the containers with the required parts within the co-ordinated time frame. The customer can use the parts immediately, since they are delivered without packaging. This not only reduces waste within the company, but also the costs for warehousing of materials.

The Herford-based company supplies more than 5,000 well-known companies with highly efficient, custom designed connecting elements and fastening products. To meet this demand, Dresselhaus maintains more than 85,000 pallet spaces within the group. With about 210,000 different products, including 25,000 standardised DIN items and Europe-wide delivery, Dresselhaus is among the market leaders in this sector. The company's motto, 'Added value that connects,' is not only confirmed by numerous quality certificates, but is also actively practiced by all of the company's employees.

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Mission Possible Partnership appoints Chad Holliday as Co-Chair



The Mission Possible Partnership (MPP) an alliance of climate leaders focused on supercharging efforts to decarbonise some of the world's highest emitting industries has appointed business and sustainability leader Chad Holliday as its first Chair (pictured).



The appointment comes as the go to organization for industrial decarbonisation gathers momentum in transforming industry through action focused sector initiatives and radical collaboration in hard to abate sectors which make up 30% of global carbon emissions.

Mr Holliday has focused much of his career on galvanizing companies to focus on climate change including at DuPont where he established a goal of achieving sustainable growth – increasing shareholder and societal value while simultaneously decreasing DuPont's environmental footprint.

Today Mr Holliday serves as a member of the board of directors of John Deere and HCA. He was previously Chair of Bank of America after the financial crisis and Royal Dutch Shell in the Netherlands. Chad has vast global multi-stakeholder experience across the US, Asia, especially China and Japan and Europe in corporate and Government advisory roles to drive green sustainable business to be competitive in the real economy. He is currently Chair of Global Federation of Councils on Competitiveness to share best practice across 23 countries. He has also chaired the World Business Council for Sustainable Development and the National Academies study on 'Research Universities and the Future of America.'

www.missionpossiblepartnership.org

Global leaders in noise reduction and particulate filtering

Sustainability Today is pleased to announce that **Industrial & Marine Silencers Ltd.** has been selected as our **Acoustics and Exhaust After Treatment Company of the Month**.

Industrial & Marine Silencers Ltd. is the UK's leading manufacturer and supplier of exhaust gas silencers, emission control technology, acoustic enclosures, air inlets, extract attenuators and acoustic doors. To compliment the above, Industrial & Marine Silencers Ltd. also carry out a full turnkey installation anywhere in the world, cementing its position as one of the major players in its industry.

Established in 1991, Industrial & Marine Silencers Ltd. started out supplying standard product lines such as exhaust gas silencers and air intake attenuators for the



power generation industry. As the company progressed, it became evident its world-wide customer base was growing and the need for a larger establishment was imminent. In 2013, Industrial & Marine Silencers Ltd. moved to its now current location in Shepshed, Leicestershire, consisting of a 32,000 sq. ft site in the town in which it was first established.

Industrial & Marine Silencers Ltd. design, manufacture, deliver and install as part of their full turnkey package. Highly skilled in a broad range of mechanical installations, the company's team of experienced site engineers are able to carry out a multitude of services. These include project management, site surveying, problem analysis, structural calculations and foundation drawings. All its engineers work within local planning and environmental regulations to ensure solutions meet the requirements of the relevant regulatory authorities as well as those of the customer.

"From exhaust silencers to acoustic canopies to emission reduction technology, we do it all. We are particularly excited for our latest product IMSeco SCR (Selective Catalytic Reduction) Technology, which we are expecting to see an exponential growth in over the coming years." states Dan Gallacher, Sales Manager.

The SCR system is designed bespoke for each application and can be retrofitted to existing Power Generation Equipment for compliance with the Medium Combustion Plant Directive (MCPD). The SCR system will reduce NOx emission by up to 95% and will allow customers with agreements in the UK Demand Side Response Capacity Market to comply with both Tranche A and Tranche B requirements.

Industrial & Marine Silencers Ltd.'s products serve power rental and generation companies alongside marine sectors such as offshore, superyachts and ships.



As global leaders in noise reduction and particulate filtering, the company is always looking for its next venture.

The new subdivision IMSeco has been created to deal with the increase of opportunity within the eco-sector. Its products include Emissions Abatement Technologies such as Diesel Oxidation Catalysts, Diesel Particulate Filters and Selective Catalytic Reduction Technology for reduction in all legislated emission including NO_x.

As the European Commission is set to introduce the

world's toughest emission standards, the Stage V standards will soon be coming into force. This will affect non-road mobile machinery, construction machinery/ power generation equipment, rail-road engines and inland waterway vessels. To combat these surging issues, IMSeco is developing a combined DPF+ SCR/ASC Reactor with an upstream DOC that can be retrofitted to existing Stage IIIA engines to reduce all legislated emissions in-line with Stage V equivalent levels.

Industrial & Marine Silencers Ltd. is ready for what the future may bring, and with its IMSeco subdivision, the company is set to continue its global presence for many years to come.

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Pipe Pulling gains seal of approval

The UK gas distribution network is steadily and methodically working hard to replace the steel pipes across the country with polyethylene pipes (PE) to minimise the risks of leakage and ensure the network performance is maintained. This includes the miles and miles of small diameter service pipes which connect each property to the mains gas pipeline. It's a painstaking task with supplies to around 22 million customers.

More recently, there is increasing attention on the transition from natural gas to alternative, zero or low carbon energy sources such as green hydrogen and heat pumps. Some of these alternatives can utilise existing infrastructure, but in the case of hydrogen for example, this will require polyethylene pipes for transport putting additional pressure on the need to replace the existing steel pipes. The lower density and lower energy content of the fuel also means large swathes of the network will need further upgrade to potentially larger diameter pipes to carry the larger volumes. For service pipes to properties, this may mean not only upgrading from steel to polyethylene pipes but also from smaller diameter (20,25mm) to larger 32mm diameter service pipes.

The Gas Distribution Network companies – Cadent, Northern Gas Networks (NGN), SGN,



and Wales & West Utilities (WWU) – already utilises trenchless technology wherever feasible and practical. Moling has been successfully used to install smaller diameter polyethylene pipes for decades, and inserting a polyethylene pipe through the existing steel service pipe is similarly widely used to minimise the amount of expensive and disruptive open cut excavation.

Cadent has recently approved an alternative trenchless technology which will be introduced to replace existing small diameter (up to 32mm) service pipes with new PE pipes. Pipe Pulling has been used extensively in the UK water industry and in the North American gas and water sectors to replace steel, copper, lead and PE service pipes. The development of the technology, from its original concept used by the water industry, was funded by the Network Innovation Allowance scheme and jointly involved Cadent and Kobus Services, the originator of the technique. The development required extensive testing of the technique on over 100 trial sites across Cadent's network. The process is simple and user friendly.

The technique involves feeding a steel pulling cable through the existing pipe and attaching the cable to a powerful hydraulic winch (Pipe Puller). Two small excavations are required at each end of the existing pipe so keeping disruption to homeowners, pedestrians and road users to a minimum. The new PE pipe is towed into place behind the old pipe as it is removed in a single operation.

For the gas networks in the UK, pipe pulling offers a safe, reliable and cost-effective technology that compliments the other trenchless techniques. 'Insertion' is limited by the internal diameter of the existing steel pipe, so cannot be used if the diameter is less than 1" (25mm) to insert a new 20mm PE pipe.

Moling increases the risk of damaging surrounding utilities which is a common occurrence in a congested UK network of telecoms, electric power cables, fibre optics, gas and water pipes. Pipe pulling is installing a new pipe through the bore hole created by the old pipe and therefore virtually eliminates



the issue of utility strikes, making the system inherently safer for operatives and members of the public.

The Kobus Pipe Puller is available in two formats. One, KPP300, is modular and the hydraulic winch is powered by its own separate power pack. The other, the KPP400, developed under the NIA scheme, is mounted on a compact excavator and is driven from the auxiliary hydraulics of the excavator. This minimises the amount of manual handling and operators can be at a safe distance from the machine during operation, improving overall safety.

The replacement of steel gas service pipes will benefit from this technology in a variety of ways: (a) less disruption to homeowners, local residents and traffic, (b) reduced risk of utility strikes, (c) ability of replace pipes <1" diameter trenchlessly, (d) replace steel pipes with larger diameter PE up to 32mm, (e) offering up to 80% cost reduction and less time consuming than open cut method.

For more information, please see the details below:
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Energy & Power Management News




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Co-owned by the Greater London Authority and Local Partnerships, Re:fit is the framework of choice for the public sector. It enables change to be delivered at scale and pace, supporting you with the preparation and implementation of programmes of energy efficiency and renewable energy projects. This helps reduce carbon emissions, create income and improve the operational performance of your buildings, whilst helping accelerate the journey towards achieving net-zero.

To find out how Rachel and her team can help call on 07825 963 218 or email rachel.toresen-owuor@localpartnerships.gov.uk If you're based in London please contact retrofitaccelerator@london.gov.uk





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New online shop

Having worked closely with those in the wastewater industry for many years, we're proud to highlight our new online shop, which makes it even easier for the sector to access essential components for half-bridge rotary scrapers and clarifiers.



Over the last ten years, we've witnessed an increased demand in our products, notably from the municipal wastewater companies and utilities requiring slip ring collector column components and brush holders.

We believe the online shop will give those working in this industry a helping hand, particularly for customers looking for a manufacturer to supply, maintain and update products urgently. It provides a huge benefit to our partners, improving both the speed and efficiency at which our products are delivered and fitted.

Currently, BGB is one of the few companies that can still supply slip rings collector columns and brush holders to even the very earliest models of scrapers, so we believe we have carved a niche in this market helping to serve what is rapidly becoming an expanding customer base. Having had over 40 years in the slip ring industry, we also offer a fantastic repair service for units that need a freshen up or refurb.

The online store is now available to our global customers, with our core rapid 48 hour service offered to the UK. Visit the online shop at: www.bgbinnovation.com/online-shop

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John Lawrie Metals wins Metal Recycling Business of the Year 2021

John Lawrie Metals Ltd, the decommissioning and metal recycling experts, has been named Metal Recycling Business of the Year at the 2021 Awards for Excellence in Recycling and Waste Management.



The awards ceremony, held in London's Landmark Hotel on Wednesday 21st July is the most prestigious event in the environmental calendar promoting the efforts of all businesses in the recycling, reuse and waste reduction sector.

The award for Metal Recycling Business of the Year aims to recognise the work done by a metals recycling company, small or large operating in the UK which has provided a service in a consistent and thorough way for its customers.

John Lawrie Metals was represented by Ray Grant, Environmental Consultant (pictured), who attended the event and collected the award on the company's behalf. He commented, "What a fantastic event, it was great to be a part of it and even better for John Lawrie to win. The team work so hard to make sure the business is run as efficiently as possible and are always on the lookout for innovative ways to reuse and repurpose the material we receive into our yards. It's recognition well deserved in my eyes."

With an aim of zero to land fill, John Lawrie Metals is the largest metal recycler in the North East of Scotland, handling around 200,000 tonnes of metal annually.

Contact
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info@johnlawrie.com
www.johnlawrie.com

It's the preparation that counts

Whether its pallets, crates or cable drums – the new Vecoplan VPC 1600 pallet crusher has been specifically designed to pre-shred voluminous articles and bulky wooden items. When combined with the VHZ single-shaft shredder, it can increase throughput by up to 50%.



With its large and powerful single-shaft shredders, Vecoplan offers efficient solutions for reliably processing voluminous wooden items such as pallets in continuous operation. However, until now, a larger VAZ series machine had to be used for large and bulky items – and this also required a correspondingly larger installation area than the new combined solution with the VHZ 1600 and VPC 1600. "In addition to the large amount of space required, there's also another point to consider – the throughput is relatively low if we feed these pallets directly to a shredder," says Ralf Rosenkranz, Area Sales Manager for Vecoplan's Wood, Biomass division. The reason for this is that 'a lot of air is between the material' due to the design of the pallets with their spaced boards and skids, so the shredding process takes a relatively long time.

There has been a considerable increase in the demands placed upon material and distribution centres in particular and on American DIY stores that often use disposable pallets – and this is why the machine manufacturing company from the Westerwald decided to develop an efficient pre-shredder, the Vecoplan VPC 1600 pallet crusher.

Contact
T +49 (0)2661 62670
welcome@vecoplan.de
www.vecoplan.com

Binn Group Ltd celebrates 20th year milestone as it takes delivery of the 100th HAAS TYRON sold into the UK and Ireland

Scotland's leading independent provider of integrated recycling and resource management services, Binn Group Ltd, has taken delivery of the 100th HAAS TYRON sold into the UK and Ireland.

"The 100th HAAS TYRON sold into the UK and Ireland is a very proud milestone for both CRJ Services and HAAS and reflects the quality of the machinery as well as our commitment to the brand."

Ben McQuaid, Director at CRJ Services Ltd

Binn Group has been a loyal customer to CRJ as a machinery solutions provider. They have been so impressed with the performance of the TYRON, the decision was taken to replace their shredder with a brand-new TYRON.



The HAAS TYRON is the ideal shredder for Binn Group, due to its consistent performance across the range of waste materials processed on site. As Binn's strapline suggests, 'your waste is changing,' and the TYRON

facilitates this change with its ability to alter the shredding sequence, though four inbuilt pre-set settings for MSW, wood, green waste and a customisable setting.

"Binn Group has been dealing with CRJ for many years and have always been extremely happy with the service levels we receive. The reliability and performance of our first Haas Tyron convinced us to stick with the Haas brand once it came time to upgrade, coupled with the backup service CRJ provide."

Allan MacGregor, CEO at Binn Group Ltd

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DuPont Sustainable Solutions acquires KKS Advisors

DuPont Sustainable Solutions (DSS) has announced the acquisition of KKS Advisors, a leading global Environment, Social, Governance (ESG) consulting firm, effective June 30, thus expanding its offerings with new intellectual property (IP), methodologies, tools, and capabilities in ESG and sustainability. Combined with DSS' operations heritage and expertise in operations risk, capability development, data analytics and digital technology, DSS is thus able to provide clients with a truly integrated transformation solution to implement sustainability goals.

"At DSS, we believe that managing risks and improving operations are fundamentally linked to sustainability and societal impact," said Davide Vassallo, Chief



Executive Officer of DuPont Sustainable Solutions. "Our acquisition of KKS Advisors enables DSS to provide clients with deeper insights, strategy expertise and integrated capabilities to develop and implement their ESG and sustainability plans so they

can successfully protect people, improve operations and create a sustainable future."

KKS Advisors is one of the leading ESG consulting brands recognised for

leveraging its academic insights, finance knowledge, and strategy expertise to help organisations develop bold and effective strategies that pave the way to a more sustainable society. With this acquisition DSS gains a senior team of consultants with experience in more than 100 ESG consulting projects, including the world's foremost thought leader and academic in ESG, George Serafeim, the Charles M. Williams Professor of Business Administration at Harvard Business School. The addition of KKS Advisors' consultants means that DSS will have more than 1,000 full-service employees and experts.

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UVDS

Improved air quality for every environment

In this issue of Sustainability Today, we are proud to announce Omni Sensors and Transmitters Ltd as our Electrical and Electronic Company of the Month.

Omni Sensors and Transmitters Ltd is the distribution partner and technical support for several world-class manufacturers of sensors and transmitters and help to promote their products to customers across the UK and Ireland.

Established in 2005, Omni Sensors and Transmitters Ltd was bought out privately by its current owners, Mr Aaron Stephenson and Mrs Debbie Steele in 2016 when its previous owners retired. As previous members of the management team, Aaron and Debbie bring vast amounts of experience and knowledge to the running of the company. Based in Harbury, Leamington Spa, Warwickshire, Omni Sensors and Transmitters Ltd has a central location that enables its customers to receive a high quality, accessible service throughout the UK.



The company's transmitters and sensors challenge the status quo when it comes to innovation. From gas detection, humidity sensing and pressure measuring, its cutting-edge products make data logging simple. Providing a plethora of flexible products, Omni Sensors and Transmitters Ltd only supply the highest of quality products that adhere to efficient quality systems that have been assessed and certified to ISO9001.

Aaron explains, "We offer off the shelf sensing and monitoring equipment for a range of industries and applications including industrial, process, HVAC, agriculture/horticulture, and many more." The sensors and transmitters the company supply help customers to measure humidity, dewpoint, moisture in oil, air velocity, air quality, mass flows, differential/absolute pressure, CO₂, and flammable gas.

"Omni have experience in and are active in a wide range of industries resulting from the sensing solutions we provide being relevant to a vast number of applications. Our specialist knowledge allows us to fully understand the capabilities of our range of sensors and to discuss the applications and requirements of our customers to ensure the selection of suitable solutions," said Aaron. Furthermore, Omni Sensors and Transmitters Ltd also supply infrared gas sensor modules that have been proven to be effective in many different applications. Some examples include refrigeration, food storage, biogas and power generation.

Omni Sensors and Transmitters Ltd.'s proven expertise enables them to work within many different industries and provide its clients with



the advice to find the right sensor and transmitter solution for their requirements. Aaron explained, "Being the distribution partner for a number of world class manufacturers enables us to introduce unique, innovative and robust sensing solutions into the UK and Ireland markets. Coupled with our industry and application know-how, Omni can support our customers from the design and concept stages of your project through testing, proving, installation and after sales support."

Aaron continued, "The application areas for sensors are a vast and continually evolving market. Sensors allow the user to monitor, control and optimise their systems and processes. From ensuring the perfect growing conditions in horticultural applications to providing clean safe breathing air for indoor spaces, Omni can offer the guidance and solutions needed."

In industrial settings, Omni Sensors and Transmitters Ltd offers its expertise on everything from measuring the moisture in oil to measuring dewpoint and metering the flow of compressed air.

But what is a gas sensor?

In simple terms, it is a device capable of responding to the presence of gas defined by certain parameters, and Omni Sensors and Transmitters Ltd has a vast array in its catalogue for this sector. Its CO₂ gas sensors help monitor and control a building or facility's ventilation, maintaining automation and monitoring process control. The range includes refrigerants, flammable gas, toxic gas, VOC's, O₂, CO, and CO₂. These gas sensors are commonly used within residential, indoor and outdoor industrial environments, indoor retail environments, educational settings, and anywhere where there is a build-up of toxic gas that could become harmful.

Omni Sensors and Transmitters Ltd also provides gas sensors that can be used for the agricultural industry. For instance, the TGS826 Semiconductor sensor from Figaro is used in ventilation controls for the agricultural and poultry specific industries. Featuring a high sensitivity to ammonia, using a simple electric circuit, it responds quickly to low concentrations of ammonia. Its ceramic base makes it resistant to severe environments and can be applied to situations such as detecting an ammonia leak in refrigerators.

When asked what affects COVID-19 has had on the business, Aaron answered, "At present, in response to the COVID-19 pandemic, Omni have been focusing on providing solutions for indoor air quality. As the relationship between CO₂ levels in indoor spaces and the potential for virus transmission has become more widely understood, Omni have worked to promote our range of NDIR



(Infrared) CO₂ sensors, monitors and transmitters. These products enable our customers to measure their air quality and take steps to improve ventilation when necessary. The measurement of CO₂ as an indicator of indoor air quality is nothing new as higher than ideal levels of CO₂ has been long proven to affect productivity and well-being in schools, workplaces and public buildings. However the COVID-19 pandemic has accelerated the understanding and now the requirement for maintaining a healthy level of ventilation and fresh air within buildings is more apparent."



Overall, COVID-19 has had a dramatic effect on the UK economy, forcing businesses to think differently to their approach and re-shuffle its future business strategies, and such is the case for Omni Sensors and Transmitters Ltd. Despite the uncertainty, COVID-19 has painted upon the industries future, Omni Sensors and Transmitters Ltd has continued to operate throughout, keeping restrictions and considerations in place. Since surviving the storm of COVID-19, Omni Sensors and Transmitters Ltd has placed certain employees, such as its sales engineers, in remote working conditions, allowing them to work from home whilst simultaneously ensuring its office spaces remain adequately ventilated. Social distancing and hand sanitising measurements have been introduced and maintained within the workplace to ensure the safety and well-being of its staff.

Its simple strategy works, using its bountiful levels of expertise combined with a goal of making CO₂ levels for indoor air quality a big focus for the company post COVID-19 pandemic, Omni Sensors and Transmitters Ltd has an exciting, profitable future ahead.

For more information, see below:
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