



# SUSTAINABILITY TODAY

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National Sewerage Association

## Working to Raise Industry Standards

- **N.S.A.** Represents the interests of companies associated with the survey, operation, maintenance and renovation of sewers, drains and pipelines.
- **N.S.A.** Acts as a forum for its members to ensure that technological developments go hand in hand with improved operational efficiency.

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## Net zero targets at risk

New research has revealed that over three quarters (76%) of Britons think that it is the responsibility of government and businesses to get the



country to net zero, with nearly half (44%) unsure of what individual actions they can personally take to help tackle climate change. And according to Smart Energy GB, if this failure to engage consumers and remove barriers isn't addressed soon, efforts to reach net zero by 2050 may be at risk.

The organisation has many years of experience in consumer engagement activities through its work on the smart meter rollout, encouraging consumers to take action to lay the foundations for a zero-carbon electricity system by making the upgrade to a smart meter.

This experience has now been brought to bear in a new report, Tackling Climate Change from Home: How to Turn Good Intentions into Positive Actions. Written by The Behavioural Architects, the paper explores how behavioural science can help engage consumers in climate-friendly behaviours around the home, and investigates the barriers to undertaking those behaviours. It assesses why individual's good intentions have not yet translated into action, and makes recommendations on how organisations can communicate with the public around climate change.

A full copy of the report and recommendations is available to download at: [www.smartenergygb.org](http://www.smartenergygb.org)

## Simple, versatile, rugged

The moment has arrived where we can finally introduce you to the latest addition to our meter range, drum roll please! The Supercal 5 has been a highly anticipated product launch, we are especially excited about this as we have the honour of introducing it to the UK! So, without further ado here we go!



The Supercal 5 incorporates state-of-the-art technology, this next generation calculator boasts many future proof features, all set within a user-friendly interface. Features include configuration via NFC interface, modular concept with 2 card slots, several tariffs and... LoRaWAN! It can also be supplied with Wireless M-Bus for data transfer.

The Supercal 5 succeeds the highly successful and respected Supercal 531, the new series integrator is characterised by the latest multi-functional technologies, it meets customer specific needs such as a simplified system integration, tariff and data logger functions, universal data transfer and connection to system processors. The Supercal 5 is future ready, it has been designed with the future in mind, combining the latest technology to create a modern heating and cooling meter that will serve a wider range of applications.

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# One billion ft<sup>2</sup> of LEED re-certified space



The US Green Building Council (USGBC) recently announced a new milestone: it has surpassed more than one billion square feet of commercial green building space re-certifying under LEED, the world's most widely used green building rating system. Recertification is available for all occupied and in-use projects that have previously achieved LEED certification, and is helping ensure that design, construction and operations strategies are driving performance outcomes.

Arc, a global technology performance platform, is a vital resource for recertification and continuous performance improvement. By measuring energy, water, waste, transportation and human experience data through Arc, buildings can achieve recertification and quantify their investments in making this planet a better place.

More than 21,000 projects in 135 countries are using Arc to track their data, covering 5.54 billion square feet of space and impacting 10.4 million occupants. While LEED recertification is often the goal, buildings & portfolios do not need to pursue LEED to utilise Arc.

Recertification enables owners to protect their sustainability investments over time. With ever-increasing organisational commitments to ESG and sustainability goals, improving building performance is a powerful way for companies to work toward net zero.

## Weber® Barbecues opens new European centre



Weber® Barbecues, the world leaders in outdoor cooking innovation, technology, and products, announced recently it has officially opened its European-based manufacturing and distribution hub, helping to streamline UK production capacity and reduce environmental footprint from transportation.

Weber's new facility located in Zabrze, Poland, which has been certified by BREEAM, the world's leading sustainability validation & certification system, improves the company's ability to meet the fast-growing product demand within the UK. This includes supporting the customer journey with shorter delivery times and increasing production reactivity due to products now being shipped to the UK within Europe.

"Our new manufacturing and distribution centre marks an important milestone in Weber's global expansion and European growth," said Chris Scherzinger, Chief Executive Officer of Weber. "A key element of our growth plans includes our 'Make-Where-We-Sell' strategy. This approach focuses on manufacturing high-quality Weber barbecue products closer to our retail customers and consumers, improving our delivery and service speed. We also gain considerable efficiencies operationally and a new level of flexibility to respond and react to local market dynamics and needs."

The centre is the company's first manufacturing facility outside the United States. For more information, visit: [www.weber.com](http://www.weber.com)

# Tusker becomes a net positive contributor

Following 11 years of carbon neutrality salary sacrifice car benefits provider Tusker has become a net positive contributor to the environment having beaten its annual carbon neutrality target by 10%.

In partnership with Tusker, organisations across the public and private sectors can dramatically reduce their environmental footprint and work towards its own carbon neutrality targets via the take-up of zero and low emissions cars on Tusker's salary sacrifice scheme. At the same time the employee incentive can help companies recruit and retain the best talent, which can be seen at companies like Engie.

"Implementing and running the scheme with Tusker has been fantastic. The Tusker team has helped with everything from employee education and engagement to providing roadshows and test drives. Tusker offers us a prestige service and enables us to reach our ambitious environmental goals which include being diesel free by 2025," says Fiona McIver, Reward Director, Engie.



The switch to EV is well underway for Tusker's customers, in 2019, just 13% of its salary sacrifice vehicles were EV, however three years later this figure has climbed to 73%. The impact of this increased adoption can be seen via the emissions of Tusker's 20,000 vehicle fleet which has reduced from 107.9g/km in 2019,

to just 70.2g/km in 2021.

<https://tusker.com/>

## Recycling & Waste Management News



### PC Skip Hire Software

The PC Skip Hire Software team has been providing Skip Hire Management Software to Skip Hire businesses throughout the UK for over 20 years.



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**ME2R TWIN-RAM BALER MODELS**  
 Using a robust and versatile design, the ME2R baler models allow our customers to process almost all materials types at a high volume. Available with 80/100/150 tonne press force, these machines are suitable for the baling of kerbside waste, to hard plastics and even car tyres. This flexibility makes this model popular with both councils and private recyclers.



**HB60 CHANNEL BALER MODELS**  
 Our most popular baler model, the HB60 has seen great success in the cardboard and logistics industry. The machines small footprint and low overall height allows for installation in locations that would not normally be suitable for channel balers. Available with 22/30/37/45kw motors, this baler range is capable of processing up to 11 tonnes of cardboard per hour.

**ABOUT US**

Despite COVID Middleton Engineering have had a busy year, continuing to supply clients in the Mediterranean and at home. Everything we produce is all made under one roof, from our design engineers, CNC department and large fabrication facilities. We handle a wide variety of projects ranging from simple refurbishment of balers, to large scale turnkey installations. With over 45 years experience in the recycling industry, We have a reputation for quality of work, excellent service and design innovation, which has helped establish us as a major supplying force within the industry, both nationally and worldwide. We have an extensive stores department ready to supply our service team with what ever they need to get their job done quickly and efficiently. With our wide variety of machines and reputation over the years we have worked successfully with Tesco, Co-op, Ocado, Marks and Spencer's as well as many councils around the UK. Our team will go above and beyond to make sure we provide the best service we can.



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## Environmental impact of VHS tapes & cassettes

With the increasing popularity of digital streaming and the advent of Cloud storage, media devices such as VHS tapes, cassettes, CDs and even DVDs are becoming things of the past.

This has left many wondering how to dispose of their old tape and film, and where that old Buffy the Vampire Slayer boxset would have ended up.

TipTop Media Management Ltd now offers an environmentally friendly solution to VHS recycling, using Energy From Waste (EFW) technology to utilise the media of the past to fuel the present.

At TipTop Media Management, developing an eco-friendly alternative to leaving old tape/film media to landfills has been a priority. A company spokesperson



stated, "Our tape and film recycling programme aims to provide accessible and fast disposal of old media,

acting as a sustainable solution that produces power to feedback into the grid."

With the option of on-site media recycling bins available for businesses, as well as pick-ups available for individuals, TipTop Media Management has made it easier than ever to dispose of your old media.

They even guarantee the safe and legal erasure of any data stored on collected devices – providing peace of mind to those companies who previously stored data on physical media devices.

To find out more about TipTop Media Management Ltd's tape and film recycling programme, visit: [www.tiptopmedia.co.uk/recycling/#taperecycling](http://www.tiptopmedia.co.uk/recycling/#taperecycling) today or go to: <https://youtu.be/vswTjxNzZew>

## Not just a super glass sorter!

While the Impact Air Systems' ZAC800 material classifier system is being utilised in numerous glass processing facilities around the UK, it's evident the super sorter is the ideal solution to remove contaminants from practically any kind of material stream.



The ZAC800 can now be found recovering materials from C&I waste streams, C&D, trommel fines, gypsum and MRF streams. A waste processor in Hartlepool, chose the ZAC800 to refine the SRF material it produces, ensuring it is of the highest quality possible for future use as an alternative to fossil fuel. With a throughput of eight tonnes per hour, the waste processor required a system that could easily manage the high throughput and bulk density of approximately 220kg/m<sup>3</sup>, of which the ZAC800 is more than capable.

Impact has also recently secured an order from a waste management company in Lincolnshire, for a double ZAC1200, capable of processing 14 tonnes per hour of SRF material by removing unwanted stone, glass, and aggregates from the final product.

Another ZAC800 installation has recently taken place at a waste site of a C&D company. The material streams produced by this waste were not able to be recycled without processing and refinement. Impact's ZAC800 removes the aggregate material, dense plastics, metals, and glass, leaving the fine SRF material of paper, fibre, and thin plastic film.

Plasterboard gypsum and paper separation has also been a popular requirement, of which the ZAC800 performs flawlessly. The clean gypsum material streams are impressive, while all paper residue is removed, leaving a high-quality product.

To learn more and to see Impact's ZAC800 in action: **T 0116 244 8855**  
[sales@impactairsystems.com](mailto:sales@impactairsystems.com)  
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## From dust to purpose

Fercell was approached by a leading UK paper processing specialist to help control the fine paper particles generated through its recycling activities.



Operating from its 60,000ft<sup>2</sup> recycling plant in South Wales, where it processes collected waste paper, its processes, shredding and baling, create a tremendous amount of fine dust. As a waste product, the captured dust is difficult to handle, manage and transport, with limited options except expensive landfill.

The solution proposed was a Weima C150briquette press. By integrating a briquette machine to the existing recycling system, any fine dust created is converted into solid briquettes. This not only benefits the client from less airborne dust, it also converts a potential explosive material into an inert product which can be easily handled, as well as providing an additional resource of briquettes, which can be sold as solid fuel, for profit.

The paper dust transported through the LEV system is deposited into the Weima C150 briquette press, where it is processed under very high pressure to form solid briquettes. The briquettes, exiting the press, are fed along a pipe delivery system into a plastic collection crate. The briquette press is capable of processing average volumes of up to 400kg per day.

Fercell is the sole UK distributor of Weima GmbH shredders and briquette presses. Fercell has been successfully delivering industrial size reduction recycling systems and industrial ventilation systems for over 4 decades.

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# Usel supports its local society and circular economy with a Presona baler and conveyor

**U**sel is Northern Ireland's largest supporter of people with disabilities and health conditions and helps over 1,200 people each year to move into and sustain employment. They train these individuals to acquire new skills, knowledge and experience and give them opportunities that others may not.

With Usel sporting a strong business model in sustaining a circular economy, they turned to Presona UK in helping with their increased recycling needs with an economic and efficient solution.

The Presona baler was no stranger to their recycling solutions as they previously had one and liked its reliability, ease of use and energy saving features – so much so, they decided to upgrade in another Presona baler and conveyor.

The baler suited the needs of the business and its plans to grow and the Presona LP50 and conveyor has formed an integral part of the plans. The particular baler that Usel invested in was in fact 'up cycled' – it had been used by another commercial recycler before being fully refurbished by Presona UK to standards that comply with all 2021 legislation.

Usel's refurbished baler is also accompanied with a new PreVeya – a purpose-built, Presona UK conveyor for the recycling industry. The



combination of both baler and PreVeya complement each other for an effective and seamless operation.



With the range of different materials that Usel process at their Belfast site and the future plans, changing between the different materials needed to be quick and efficient to keep up with their increased volume levels.

Presona balers are designed to make these changes with ease. Each baler is equipped with set programs for various materials – for the operators it's as simple as selecting the desired material with a touch of a button, and the baler does the rest of the

work. This simplifies the process and speeds up production around the baling process – not just for Usel, but all Presona balers.

Scott Jackson, Head of Manufacturing and Recycling, said, "The efficient nature of Presona balers has played a huge part in ensuring that operations run smoothly and effectively within our recycling process. The efficiency of the LP50 also plays a big part in supporting our circular economy and is proving to be a valued asset within the department."

The entire installation process was carefully managed by Presona's projects team putting

the customer 'at ease'. This meant that Usel were able to carry on about their business while Presona handled the install.

Usel operate a circular business model that contributes to a circular economy with the recycling of mattresses, carpet, furniture, plastic, cardboard and waste electrical items. They have a strong aim to keep resources within the economy until the product has reached the end of its lifecycle. This allows Usel to create more sustainable jobs for people with disabilities and health conditions across Northern Ireland.

Richard Portas, Presona's Customer Accounts Manager, said, "Seeing a used baler brought back to life is always rewarding. Our balers are built and designed to last with some at 40 plus years old and still running strong. With the right care and maintenance – much like a typical car – they will simply keep on going."

**Presona have a range of balers suited to the recycling industry. With press forces ranging from 40 tonnes per hour right up to 270 tonnes, Presona have a baler for you. If you would like more information on any of Presona's products and services, give them a call today on 01278 444527, and one of the team will be more than happy to handle any of your enquiries.**

[www.presona.co.uk](http://www.presona.co.uk)



# An evolutionary leap for ENERGY STORAGE > Expo for Decarbonised Industries

A platform that unites technology and services for industrial and commercial decarbonisation

Messe Düsseldorf expands ENERGY STORAGE EUROPE into an Expo for

Decarbonised Industries. The new format was held from 20-22 September 2022 at the Düsseldorf trade fair centre in parallel with the world-leading trade fair glasstec. Along with a variety of storage solutions, it offers the industrial and

commercial sectors a range of products and solutions, along with consultation, for decarbonisation that has never been seen before. The solid progress of this trade fair reflects the revolution in industry, politics, NGOs and society in general.



Climate-neutrality and decarbonisation are two mega-trends for the industry of tomorrow. In North-Rhine Westphalia, Thyssen Krupp Steel took on a pioneering role with its implementation of a special hydrogen process. Simultaneously, the state government and federal government are pursuing the goal of advancing climate protection and transformation of the energy system with significant investments in line with their Climate Change Act. The Expo for Decarbonised Industries > ENERGY STORAGE forms the perfect platform for industrial and commercial decarbonisation in Germany.

"The title, 'Expo for Decarbonised Industries', addresses many industries whose leading trade fairs are already held on our home ground," states Gerrit Nawracala, Project Director for the trade fair. He continues, "We are thus able to find the right answers to the challenges and questions that our customers have on climate protection, energy costs and supply security in a targeted way."

Whether the industry be chemistry, steel, automotive or construction, this structural change affects all of them alike and will be accelerated by the new political framework conditions. "The energy revolution needs solutions that work on an industrial scale, such as those for producing hydrogen, for example. To this end, we network our partner industries with specialised technological suppliers and service providers," states Nawracala. This specialist trade fair will be supported by the German Engineering Association (VDMA) and its partner of many years, the German Energy Storage System Association, a registered association, in expanding its themes.

"Holding the Expo for Decarbonised Industries > ENERGY STORAGE and glasstec simultaneously creates a win-win situation for the industry. Glass manufacturing is an energy-intensive process that also creates high quantities of CO<sub>2</sub> emissions. Stricter constraints and increasing CO<sub>2</sub> taxes are forcing the glass industry to act, and not just in Germany. This creates a huge demand for solutions for reducing emissions and more energy efficiency. This demand is covered with custom solutions and products from our exhibitors," affirms Nawracala.

In addition to the huge variety in energy storage systems, the Expo for Decarbonised Industries > ENERGY STORAGE also offers a high-quality conference and forum programme on the subjects of research, science and industry which are currently affecting both manufacturers and potential users of energy storage systems.

More information is available at: [www.esexpo.com](http://www.esexpo.com)

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## Recycling & Waste Management News

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# Better planet packaging

**H**ow we treat our planet and the changes that need to be made to address the climate crisis have never been as high on people's agendas. Back in 2018, Smurfit Kappa, Europe's leading corrugated packaging company, went back to the drawing board to rethink its own engagement with the sustainability challenge. This exercise resulted in the launch of the Better Planet Packaging initiative, quantifying the company's commitment to protect the planet, people, and business.

Today, Smurfit Kappa's Better Planet Packaging portfolio consists of some of the most sustainable and innovative packaging solutions on the market, all of which are paper based. Using its industry-leading expertise in sustainable materials, Smurfit Kappa has developed sustainable packaging solutions that are renewable, recyclable and biodegradable.

"We welcome and embrace the challenge to make our raw material, products, operations and supply chain more environmentally sustainable, even more circular and more socially robust. In doing this, we make a measurable contribution to tackling climate change for Smurfit Kappa, our customers and their consumers," states Arco Berkenbosch, Vice President of Innovation and Development.



In response to the growing demand for sustainable alternatives, the company has launched several sustainable packaging solutions that fall under the umbrella of its Better Planet Packaging Initiative. Back in 2020, Smurfit Kappa launched its innovative TopClip solution - a paper-based alternative to replace the shrink wrap used to bundle can multi-packs. With a 30% lower carbon footprint than a shrink wrap bundled pack, the paper-based product is completely plastic-free, glue-free, and 100% renewable, recyclable and biodegradable.

Leading Dutch beer brewer Royal Grolsch selected TopClip as a paper-based replacement for the plastic shrink wrap it used on their can multi-pack. The product appealed to Grolsch as it delivers on both functionality and sustainability and ultimately helped Grolsch remove 100,000kg of plastic annually, which is equivalent to more than 4 million plastic bags.



"Grolsch approached us with the goal of becoming a zero waste brewery and our Better Planet Packaging initiative highlighted that Grolsch was the ideal partner to be the first on the market with our TopClip solution," says Arco.

Another successful and innovative collaboration was between Smurfit Kappa and McBride, a leading manufacturer of private label products for the cleaning and hygiene market. This resulted in the Click-to-Lock Pods Box, a 100% paper-based alternative to the traditional plastic box for laundry pods. The recently-launched box is tamper-proof thanks to an effective and certified child-lock system.



Online retailers are also increasingly looking for customisable and sustainable packaging solutions, and Smurfit Kappa has been filling this space for a wide range of their clients. Smurfit Kappa brought an end-to-end innovative and sustainable packaging solution to the market for Le Petit Ballon, a French company specialising in online wine sales. "We collaborated with Le Petit Ballon to help create a bespoke solution that meets both their customer and supply chain needs," says Arco. "The current standardised design options that were available for shipping multipack bottles did not match Le Petit Ballon's requirement for a more tailored service offering. Therefore, we worked with Le Petit Ballon to develop a sturdy, fit-for-purpose customisable and sustainable packaging solution that accommodates different bottle sizes. The result was fantastic, and we helped to drastically reduce breakage throughout the whole supply chain by designing a paper-based packaging solution that combined the highest level of protection with excellent bottle and label presentation," he continued.

The fast-growing health and beauty market is another area where Smurfit Kappa is developing sustainable packaging solutions. The new eHealth and Beauty portfolio, launched in October of this year, includes sustainable, paper-based packaging solutions which are ideal for shipping vulnerable products, such as

fragrances, cosmetics and skin and hair products. The Scelpac packaging solution is a clever mono-material pack using a self-sealing paper within a box. The paper simply folds over the contents, holding them securely within the pack. "Our Scelpac packaging solution combines practicality, efficiency and sustainability with high protection in the eCommerce supply chain and eliminated unnecessary packaging such as foam and

bubble wrap," says Arco.

Arco is confident that Smurfit Kappa's Better Planet Packaging portfolio will continue to expand due to consumer attitude and demand but says it won't be easy. Arco finishes by saying, "Thanks to our Better Planet Packaging portfolio of sustainable packaging solutions, we are delivering to our customers the best

go-to market packaging solutions, while simultaneously minimising the impact of packaging on the environment. However, the job isn't done and there is huge work yet to do. Innovation and sustainable alternatives take time and investment. In many cases, the technology and processes have yet to catch up."

[www.smurfitkappa.com](http://www.smurfitkappa.com)

## Recycling & Waste Management News

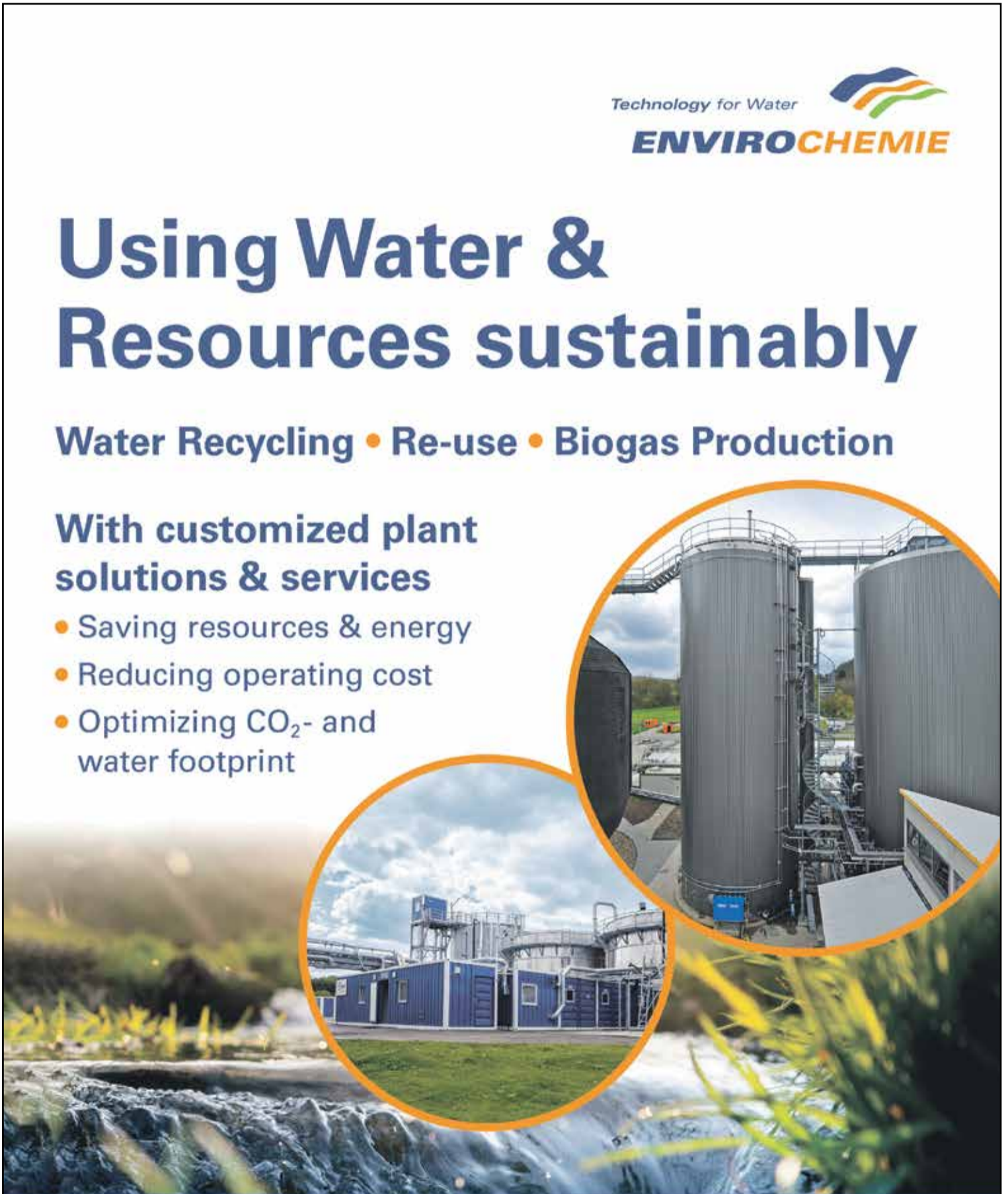


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## PhD has launched its brand new recyclable pouch range

The pouches are a high barrier laminate that is 100% recyclable. They have velcro instead of the standard or double press close zip which makes it so much easier to reclose. The designs excellent graphics are enhanced by foil inks and patterned soft touch and tactile lacquers.

PhD was established in 2006 by two serious Yorkshire gym-goers on a mission to change the sports nutrition landscape.

"Building muscle isn't just about using a protein powder, and getting ripped isn't just about using a fat-burning capsule. Building true strength can't be done in a few weeks, it takes years and



requires consistency. You won't progress without great nutrition and without training smartly and consistently. The journey is definitely the destination and it should last a lifetime and the fun part should be the learning. So we hope that as well as fuelling your own greatness, we can educate you

along the way to truly allow you to Perform Smart."

From these beginnings, PhD is now sold in over 45 countries and is truly a global performance nutrition brand. Yet the founding principles remain the same as in 2006: Innovation, honesty, results-driven and great taste.

The new packs look great & really fit the brief which was to keep the 'look & feel' of the existing pouches but be 100% recyclable, a very technical project.

T 01274 685566  
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www.nationalflexible.co.uk

## Keep calm & relax... and recycle

After a 10 mile run, or let's face it for most of us an excuse to enjoy a glass of something nice, a warm bath surrounded by candles is just the ticket! "How can it be possible to make that even more pleasurable?" I hear you say.



Epsom Salts helps raise the magnesium and sulphate levels in your body, hence serving as a superb mineral supplement. It relaxes the nervous system, alleviates aching limbs, relieves back and muscle pain and cramps, cures skin problems, treats congestions and colds, heals cuts and draws toxins from your body.

Our customer wanted to offer their customers a pack that was 100% recyclable and John Richardson, owner of The Epsom Salts Company, said, "National Flexible provided the ideal solution."

New orientated PE is the perfect material for those companies wanting a single polymer solution which can be recycled at supermarket recycling centres. National Flexible can now supply OPE pouches and films both single web and laminates. This environmentally friendly solution is low cost, low weight, recyclable, versatile with a low carbon footprint.

If you have a product that you think would suit this material, then call and ask our marketing team for a pouch sample or a free film trial on 01274 685566 or email: marketing@nationalflexible.net



## STOP Kicking the Can!

When are you planning to reduce the plastic content in your packaging?

- Can it be verified as 100% plastic free - including micro plastics?
- Can it be completely and universally recycled?
- Can it completely bio-degrade?
- Can it compost completely - either at home or industrially?
- Can it still sell and deliver your products and be convenient?
- Can it be now - instead of 2024, 2025 or 2026?

### Delipac can

The time is now. Delipac - the sustainable, food safe and plastic free packaging solution. Available now.

www.denmaur.com/delipac



**Delipac**

denmaur  
papermedia



## Denmaur celebrates Carbon Balancing milestone

Independent paper merchant, Denmaur Paper Media, has this year recorded 50,000 tonnes worth of Carbon Balanced Paper sales.



Carbon Balancing is the official offsetting programme offered by conservation charity, World Land Trust. Its Carbon Balanced Paper scheme supports REDD+ projects that conserve, regenerate and protect threatened forestry areas that also serve as the habitat for important biodiversity and a number of endangered species.

Denmaur is a well known supplier to the UK print and publishing sector, providing innovative and sustainable paper solutions since 1983. The exclusive home for the Revive recycled paper range and the zero plastic Delipac food and drinks grade barrier board, Denmaur has been Carbon Balancing paper through the World Land Trust since 2016.

Danny Doogan, Marketing and Sustainability Director, commented, "It's a proud achievement to have sold 50,000 tonnes of Carbon Balanced paper in our five year association with the World Land Trust, and the appetite for customers to become more involved with adding to the sustainability of their printed communications is growing."

Carbon Balancing one tonne of paper enables the World Land Trust to offset 616kg of CO<sub>2</sub>e. Customers who request Carbon Balanced Paper for their print are allowed to make use of the Carbon Balanced Paper logo and receive an official certificate from the World Land Trust to endorse their actions.

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# Engineering a greener future: Offering a new and alternative process for the treatment of dissolved Methane

Leachate Solutions specialise in Leachate Treatment and have now introduced a New & Alternative process for the Removal of Dissolved Methane. The design is unique and offers a serious alternative to the traditional treatments available. It has the additional features of:

- ▼ Cost-effective
- ▼ Eco-friendly
- ▼ Energy saving
- ▼ Minimal maintenance
- ▼ Reduced sludge/calcification
- ▼ Small physical footprint
- ▼ Scalable/mobile

Leachate Solutions is the UK's only designer and manufacturer on the market of airless CH<sub>4</sub> (methane) stripping plants for water and leachate.



Providing over 35 years of engineering excellence, Leachate Solutions has created a remarkable product portfolio that is backed by the highest quality technical expertise in the water and wastewater industries. Marketed as an engineering solutions and consultancy company, Leachate Solutions specialise in leachate treatment and is an expert in the alternative process for the removal of dissolved methane from water and landfill leachate.



With no two projects being the same, Leachate Solutions develop ways of working based on its own experience. Working with clients' requirements, the company aims to meet the specific objectives and

milestones set in the most cost-effective and environmentally friendly way possible.

Over the past eight years, Leachate Solutions has recognised how costly older air stripped systems are to maintain and how increasingly difficult they have become to keep compliant. Designed and developed at its manufacturing facility in Lancashire, Leachate Solutions has created a modern alternative process using the latest in airless stripping system technology, that has



increased advantages over older traditional air stripping systems.

The airless CH<sub>4</sub> stripping plant offers a modern, eco-friendly solution for the world today. Through an extensive eight years of research and development, Leachate Solutions has developed and now offer a new alternative process to choose from, using newer technologies to provide a greener and more robust solution.

Blending technical expertise with consistent market research and know-how, the airless CH<sub>4</sub> stripping plant simplifies complexity, streamlines processes, reduces risk, and lowers the total cost of ownership. In simple terms the airless CH<sub>4</sub> stripping plant removes Dissolved methane from water and leachate discharges to create a more efficient, safe and compliant discharge. This process is now considered to be BAT.

Leachate Solutions offer a new-age approach using cutting-edge technology, the company commit to building a system which is not only highly efficient but also cost effective and environmentally friendly. With older systems beginning to fail and fall out of the acceptable boundary of meeting environmental and industry standards, Leachate Solutions has found the perfect time to capitalise on its research by introducing a modern approach suitable for any company working across



the UK in environments such as closed landfills, old coal mines, gasometer tower drainage, and AD BIO systems.

The airless CH<sub>4</sub> stripping plant is one of the most cost-effective solutions on the market, offering a reduction in operating costs, maintenance costs and maintenance downtime. The overall cost becomes considerably less over the life span of the product compared to traditional air stripping systems in the market currently. Installed with built in back-ups to ensure the system remains fully operational, the fully automated system is also built to reduce sludge and calcification production. With the increasing pressure from the government to provide more sustainable,



eco-friendly solutions, the airless CH<sub>4</sub> stripping plant is built with 316 stainless steel components, has minimal plastic components and the steel fabrication has a typical lifespan in respect of 50 years.

Its highly efficient design brings with it, low energy usage, greatly reduce calcification & sludge production. It has a small carbon footprint due to the system working purely 'on demand' not continuous running, as older systems can do.

All dissolved Methane treatment plants must be able to meet the environmental/regulators requirements to be compliant. The system designed by Leachate Solutions can meet these standards.



Leachate Solutions provide an in-house design, build and installation package, that can be tailor made to suit any site conditions. It is infinitely scalable to meet potential future requirements, it can be retro fit and incorporated into an existing system.

Designed as a self-contained unit, the airless CH<sub>4</sub> stripping plant has the diversity to be permanently installed or set up as a mobile unit. Its slim, compact design takes up little space, with the footprint of the smallest unit available being 3m x 1m.

Leachate Solutions also provide a comprehensive range of services within the water and waste water sectors that help solve problems that its clients may face. Its deep technical skills set provide consultancy, migration, reverse engineering and end to end solutions to the industry. Its flexible and practical approach means it can provide tailored maintenance programs for pre-existing water treatment plans of any type. The company also provide a maintenance consultancy service that helps identify and implement cost savings across an entire sector.

Furthermore, Leachate Solutions also offer technical intervention with problematic sites or site processes, delivering full maintenance packages, pump supply, installation and repair services, and smart monitoring systems that can provide a good system overview and advanced warning of any potential issues.

As an additional complement to its extensive service portfolio, Leachate Solutions produce non-invasive flow metering solutions with a particular emphasis on partially filled pipework and effluent outlets

The company's experience and technical know-how has placed them at the centre of the industry as one of the most trusted and reliable companies within the water and waste water sector. Its high customer retention and feedback echo its sterling reputation amongst competitors and is a remarkable accolade to its recent growth and success.

For more information, see below.

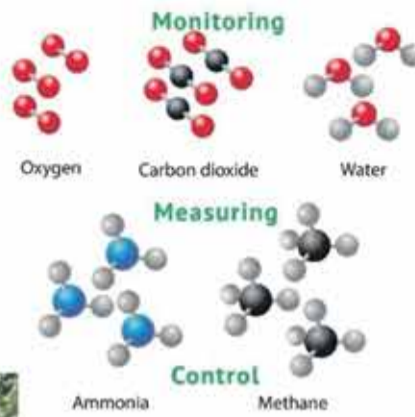
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## LEACHATE DIVISION



LEACHATE SOLUTIONS is the only Manufacturer of Airless Methane Stripping Systems In The UK.

The Airless Methane Stripping System (see photo left) – is our smallest unit. Capable of treating up to 300L/minute in continual process. Available as a Permanent installation or Mobile Unit - Scalable to meet changing demands.

Specialised Systems Designed, Built & Installed for:

- The Treatment & Management of Landfill Leachate
- Airless 'On Demand' Processes for Dissolved Methane Removal
- Leachate Pumping Systems
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- Water, Waste Water & Effluent Treatment Systems

## Engineering a Greener Future



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## PUMPING DIVISION



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CALL TO ARRANGE A SITE VISIT

## SPP Pumps expands product portfolio with Pleuger Industries GmbH agreement

SPP Pumps has expanded its product range through an authorised distribution and service agreement with Pleuger Industries GmbH.

The agreement gives SPP access to Pleuger's submersible borehole pumps and extended submersible pump range, for exclusive distribution into the UK and Ireland's water, mining, and general industry markets. Stakeholders within the aforementioned markets will now be able to take advantage of SPP's unique position, gaining access to Pleuger's extensive range of products and expertise in submersible applications.

The addition of submersible borehole pumps to SPP's own portfolio further builds on an already comprehensive range of centrifugal pumps. "SPP Pumps is delighted to have secured this agreement with Pleuger Industries," said Stuart Wallis, sales manager at SPP. "The addition of submersible borehole pumps to our product range puts us in a fantastic position to further expand our business and provide increased value to our customers and the wider market."

"It is important to SPP Pumps that any manufacturer we associate ourselves with can meet the exceptional standards we set for our own products," added Robbie Graham, sales engineer at SPP Pumps. "In Pleuger Industries, we have found an excellent partner and we are delighted that we are now able to offer support for our customers over an even wider range of pumping applications."

For more information and a brochure, please contact: [water@sppumps.com](mailto:water@sppumps.com)



## ITT PRO Services delivers to the UK market

ITT is a leading manufacturer of highly engineered critical components and customised technology solutions serving key industries in the energy, transportation and industrial markets. Headquartered in White Plains, New York, ITT has employees in over 35 countries and sales ambassadors in approximately 125 countries.

Normanton UK PRO Services Centre, near Leeds in the UK, is celebrating 5 years in operation this year. Available 24 hours a day, its services include repairs and upgrades, field service, reliability improvement, optimisation of assets, and parts. Its facility has a dedicated area for reengineered replacement parts, a full API strip and inspection area and full machining capabilities for 72" Manual Vertical Boring Machines, 60" Square Horizontal Boring Machines

and a Centre Lathe for other services. Its experienced on-site engineers have a direct link to the company's Aftermarket Engineering Team in Glasgow, carry ISO and safety certifications and accumulatively hold the highest quality of technical know-how and level of expertise in the industry.

As an overall company, ITT has an impeccable character which makes them committed to making an enduring impact on the world. Engrained in heritage, its products and service offerings are organised into three businesses that are key to the success of supporting customer



needs. Industrial Process, Motion Technologies, and Connect and Control Technologies are businesses that most of its customers are involved in.

Still relatively young, Normanton UK PRO Services Centre has a big future ahead as it implements its expertise and industry leading sustainable value creation further into the UK market.

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[www.ittproservices.com/About/Service-Locations/Europe-Middle-East-Africa/Normanton-UK-PRO-Services-Center](http://www.ittproservices.com/About/Service-Locations/Europe-Middle-East-Africa/Normanton-UK-PRO-Services-Center)



### Repairs and Upgrades

ITT Brands

## Normanton UK PRO Services Center

**PRO Services repairs ALL brands of pumps. One call, one face, one invoice.**

- Laser Alignment Equipment
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- Training on improving equipment life-cycle ownership

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- Maintenance Management / Contract Maintenance

**Parts**

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**Our Facility**

- Full API strip and inspection area
- 15-tonne and 10-tonne Overhead Cranes
- Full machining capability
  - 72" Manual Vertical Boring Machine
  - 60" Square Horizontal Boring Machine
  - Centre Lathe:
- Dedicated area for reengineered replacement parts

**Our Resources**

- Experienced on-site engineers with direct link to our Aftermarket Engineering Team in Glasgow
- Own Workshop Quality / Health & Safety Supervisor
- Large customer training center

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## Saniflo lifting station makes Glamping pods possible

Situated on the edge of the rolling Lincolnshire Wolds, an 'Area of Natural Beauty', Galley Hill Farm is run by Sandra and Ian Scaman, who run a successful 'Pick Your Own' business alongside the farm, as well as a caravan site in a stunning woodland grove adjacent to the family farmhouse.

The busy site encompasses a block with shower and WCs and has recently expanded from 5 to 10 pitches to satisfy demand from new and repeat customers. Waste from the house and the toilet block is discharged to a septic tank that was recently upgraded due to new regulations that came into effect in 2020. A separate chemical disposal point was also installed for the caravan site.

The couple identified the opportunity to expand still further

by clearing a further area of ground to make way for Glamping pods. They spoke to Saniflo to discuss the options for discharging the water as the woodland clearing had insufficient gravity fall to reach the septic tank some 70m away. A site visit later and the Saniflo Sanifos 610 was recommended thanks to its ample capacity and multiple connection points.

Two pods with bathroom, bedroom, kitchen and living room have been installed on site with space for two more in time. The Saniflo Sanifos 610 has 612-litre tank capacity and twin pumps which work alternately to ensure even wear of the motors.

Contact  
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## Hayward Tyler designs new pump to support NetZero programme

Pump and motor manufacturer Hayward Tyler based in Luton, Bedfordshire developed a new Reactor Coolant Pump (RCP) suitable for small modular reactors (SMRs) in support of the UK Government initiative to roll out a fleet of more than a dozen reactors that could be up and running by the early 2030s. The gas bills crisis has sharpened the focus on investment in nuclear to build up the UK's energy supplies and complement renewable energy sources as Britain tries to hit net zero carbon by 2050. Britain is already facing a hole in its nuclear supplies with six large plants due to be taken offline by 2030.



SMRs are advanced power plants that can be largely built-in factories as modules to minimise costly on-site construction, and which allow manufacturers to reduce costs by producing many identical units. More than 70 designs of small modular reactor are in development in 18 countries around the world, mostly based on Gen III+ reactor technologies which are relatively close to commercial readiness.

"Although there are different types of SMRs being developed by major players, water-cooled reactors remain very attractive and bring a new dimension to the more reliable, clean and affordable nuclear power," said Dr Evgeny Polyakov, Sales Director at Hayward Tyler.

To date concept design, verification and validation, along with an extensive supply chain engagement programme, have been completed. Further projects will be completed on various areas of the design including detailed CFD analysis, prototype manufacture, quality control and lifecycle testing. Pumps for the reactor coolant system will primarily be made from low and zero-cobalt metal alloys which have minimal risk of suffering radiation-induced corrosion. Currently, there are very few UK manufacturers who have experience of working with these alloys.

"Reactor coolant pumps are safety critical which require a specific coast-down flow rate to ensure the necessary rate of heat removal is maintained during a power-outage to the pumps," said Robert Bowen, Lead Design Engineer for the RCP project at Hayward Tyler. "To remove the complexities of dynamic sealing, the design uses an internal, high-inertia flywheel to achieve the coast-down flow. Reducing the large frictional losses by the large flywheel is a significant technical challenge which has required a combined input from the electrical, hydraulic, and mechanical expertise within our design team."

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# Dairy wastewater treatment & design

**W**hat is dairy wastewater? and how is it treated? Due to the continuing growth of milk production, wastewater from dairies is considered one of the largest sources of industrial wastewater. Much of this wastewater is derived from the cleaning and maintenance processes involved, however, water is used throughout dairy production including disinfection, heating and cooling, and more.

This wastewater contains contaminants that need to be treated effectively. Ineffective trade effluent treatment methods lead to harmful environmental effects. For example, dairy wastewater has a high level of milk constituents which raise BOD levels in natural environments.

Enduramaxx provides its customers with the most reliable and effective wastewater treatment options available anywhere.



## What are the characteristics of dairy wastewater?

Dairy wastewater contains high levels of BOD (biological oxygen demand), COD (chemical oxygen demand), TSS (total suspended solids), sulphates, grease, chlorides. Unsurprisingly, dairy wastewater is also composed of milk constituents like casein, inorganic salts. Detergents & sanitisers from cleaning processes are also present.

These contaminants also contribute to an increased BOD and COD levels which have a drastic impact on the environment if it's not treated properly. Various treatment methods are available including anaerobic and aerobic treatments or a combination of both.

**Environmental impact of dairy wastewater**  
The dairy industry is one of the biggest sources of industrial wastewater in the world. It is also one of the biggest polluters. On average, around 2.5 litres of wastewater is generated for every litre of milk processed. The volume and flow rate of this trade effluent, however, varies depending on the particular dairy product.

Untreated wastewater with significantly high levels of BOD or COD, for example, will reduce the dissolved oxygen (DO) in water. This causes stress and harm to the natural organisms present in the water. It's necessary to have a trade effluent treatment method that lowers BOD, COD, pH levels, and other contaminants that are a risk to the environment.



Aside from being environmentally negligent, failure to adequately treat wastewater can result in severe legal penalties and loss of reputation for a business.

## Treatment methods: Dairy wastewater

There is no one size fits all approach to the treatment of dairy wastewater. This is because of the varied composition and volume as well as the complexity of its biodegradability. Dairy trade effluent contains carbohydrates which can biodegrade far easier than the fats and proteins that are also present.

## Screening

As a pre-treatment, screening is always recommended for wastewater treatment. This removes large particles and solids at an early stage, reducing BOD levels and preventing the risk of blockages in the pipes.

## DAF

Dissolved Air Floatation (DAF) is a preferable chemical treatment for dairy wastewater as

it removes soluble contaminants and colloids. Enduramaxx stocks a range of DAF Sludge Storage tanks which can be used as part of an effective DAF treatment system.

## Biological treatments

Following pre-treatments, biological treatments are necessary to remove any remaining impurities with the use of microorganisms. Anaerobic treatments use microorganisms without the use of oxygen, while aerobic treatments do use oxygen.

These microorganisms then help break down the biodegradable materials in the wastewater, reducing the risk of harmful effects on the environment.

One of the most popular aerobic methods for this type of wastewater is SBR (sequencing batch reactor) because of its loading capabilities and wastewater flexibility. Both Effluent Sludge Storage Tanks and Settlement tanks work in conjunction with this process.

## Enduramaxx: Dairy wastewater processing

Enduramaxx stocks everything required for a complete wastewater treatment process for dairy industries. By installing a functional, on-site wastewater treatment system you can save your business time and money. Contact Enduramaxx today and one of our staff experts will be glad to advise you on your options.

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# Autotech Training creates suite of EV training options for organisations electrifying fleets

By 2025, the UK fleet vehicle industry is expected to account for 75% of all electric cars on the road.

Faced with the increasing need to decarbonise road transport, local authorities and organisations are expected to set the standard for the electric revolution, and many are already electrifying

their fleets. However, there is a major bottleneck in the switch to EVs which could render fleet electrification a 'tick the box' exercise for many organisations – a lack of training.

EVs, due to their high voltage nature, introduce safety considerations and hazards. In accordance with the Electricity at Work regulations, enforced

by the Health & Safety Executive (HSE) all employers have a responsibility to ensure that employees are adequately trained – whether they are driving EVs, servicing them, or just working alongside them as part of their day to day duties – otherwise they may find themselves liable.

In a bid to remove this bottleneck, Autotech

Training, a division of Autotech Group, has created a suite of EV training options enabling an organisation to create a bespoke programme which directly meets their needs.



Part of Autotech Group

Autotech Training are certified to deliver entry level awareness courses, and IMI Levels 2 to 4 electric/hybrid vehicle training. Courses are taught from the company's dedicated EV Training Suite within its Milton Keynes headquarters, or on the premises of any organisation to minimise downtime and employee travel expenses.

Entry level awareness training offers essential core knowledge enabling employees to work safely around EVs, while Levels 2 to 4 enables technicians to repair, service, diagnose and maintain an electric vehicle.

Autotech Group is the UK's largest employment and training solutions provider for the automotive aftermarket. Its training suite has the capacity to teach up to 12 employees at any one time, and also features an electric car for hands-on learning.

"It is vital that employees, whether they will drive an electric fleet vehicle or not, receive training to ensure they can safely work alongside EVs," comments Mandla Ndhlovu, Training Delivery Director for Autotech Training. "We can work with any organisation to create an EV training programme to suit their exact needs. All courses are delivered by highly-experienced trainers and feature an electric vehicle, to not only provide awareness, but offer a hands-on approach to learning."

For further information on Autotech Training, visit: [www.autotechrecruit.co.uk/training/electric-and-hybrid-vehicle-training/](http://www.autotechrecruit.co.uk/training/electric-and-hybrid-vehicle-training/) or email: [Hello@autotechtraining.co.uk](mailto:Hello@autotechtraining.co.uk)

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## Air Quality & Monitoring News

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## The ECOLUTION

IMS introduces its retrofit SCRT system for London NRMM and HS2 Emissions Compliance



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

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

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

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# Envirogard: Setting hire standards

**E**stablished in 1989 Envirogard hires specialist equipment to contractors across mainland UK. Equipment is supplied from its hire depots at Manchester, Barnsley, Tamworth, Bristol and Ashford (Kent). The company is a full member of the Contractors Plant Association, and an associate member of the Environmental Industries Commission.

The hire equipment is regularly employed by contractors engaged specifically in environmental clean-up and pollution control but is also much used by contractors who only occasionally encounter hazardous materials in the course of their work.

Envirogard routinely supplies its equipment to telecomms, engineers, electricians, roofing, shot-blasting and painting contractors, geotechnical engineers, HVAC engineers, logistics operations, facilities services businesses, chemical plants, etc. The hire products help customers meet their health, safety, and environmental obligations.

Hire products broadly fall into the following four classes:

#### Safety and decontamination shower units

To help contractors comply with their obligations to protect their employees and the general public during work with potentially hazardous materials, Envirogard offers an extensive range of:

- ▼ emergency showers
- ▼ modular showers, and
- ▼ mobile decontamination units including decontamination shower units with integral generator and water tank.

All models have (at least) three compartments which provide separate Dirty, Shower and Clean areas, and are equipped with certified HEPA grade air-filtration to aid containment of hazardous materials. A range of sizes is available ranging from the Micro single shower trailer catering for just 4 people, up to the Maxi Quad shower units accommodating 16 people.

Self-contained versions are also available - equipped with an integral clean-water tank and onboard generator, these self-contained trailer units can operate at sites lacking mains power and water.

#### Site services/ancillaries

Envirogard recognises that many sites lack basic utility services and have their own unique problems. Based on the most frequent customer requests, Envirogard can provide ancillary hire equipment including:

- ▼ Boot Wash Stations
- ▼ Bio Dip Disinfection Tanks
- ▼ Pressure Washers
- ▼ Compact Water Bowsers
- ▼ Water Pressure-Boost Pumps
- ▼ Shower-Waste Filtration Sets
- ▼ Portable Generators
- ▼ Portable Transformers
- ▼ 110v Extension Cables
- ▼ 110v Tripod Lights

#### Dust control, fume and ventilation equipment

Envirogard offers a large range of equipment for dust & odour suppression, including forced ventilation, dust filtration and fume extraction equipment, mobile water-mist cannons for suppression of fugitive dust, including hire units for use indoors & outdoors. Water-mist cannons are a straightforward solution for suppression of fugitive nuisance dusts, eg. concrete, cement, brick-dust, shot-blast overspill, etc.

All Envirogard's hire units are mobile and can be re-located as and when required. Self-contained units with integral water tanks & their own onboard power provide the ultimate flexibility for sites which lack accessible utility services. The range includes units with oscillating sprays which sweep to and fro to cover large areas.

Where odours are a problem self-contained water-misting units with integral water tanks make it easy; simply add a masking or de-odourising agent to the tank.

When water mists can't be used, Envirogard have a range of dust extractors coupled with either filter socks or multi-pocket filters. These work well for suppression of general 'nuisance dust' such as concrete, cement, brick-dust, sawdust, powders, shot-blasting overspill, etc.

These are cost-effective in removing visible air borne dust and are straightforward to use; filters can easily be changed by the user.

#### Specialist industrial vacuum cleaning equipment

Where dust has already settled high efficiency vacuum cleaners allow collection with minimal disturbance and maximum capture. For hazardous dust (including asbestos) H-type vacuums are available, constructed to BS5415 and with 3-stage filtration.

The final stage includes a HEPA filter module and each machine is individually tested and certified

for its filtration efficiency. 110v machines are standard throughout the hire range although compressed air powered versions are available for some vacuum types on special request.

Envirogard also stocks wet pick-up vacuums – as standard in 110v (available in compressed air powered versions on special request).

[www.envirogard.co.uk](http://www.envirogard.co.uk)

## Envirogard Hires

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### DUST CONTROL – WATER MISTING CANNONS FOR HIRE



The **Commando Dustguard** mast-mounted spray throws water mist up to 25 metres. A powered drive can rotate the spray head from side to side – ideal when larger areas require application of water mist.

The Dustguard also has an integral 200 bar jet wash with 30m of reel-mounted hose + lance, delivering 18 litre water/min @ 2900 psi - for serious cleaning!

Powered from its integral electric-start Hatz diesel engine and drawing water from the 1000 litre bowser, this self-contained unit is a "roll up, switch on" product requiring only periodic refill with water & fuel.



For a more compact portable unit – small enough to move by hand - that will operate from 110v power look no further than a **DF Smart Dustfighter**.

Connect water from a standard ½" hose, plug in 110v power and switch on – the DF Smart will throw a plume of water mist up to 13 metres (50').

Tilt adjustment allows the vertical angle to be changed, and the unit can be pushed and turned to face any direction required.

For dust indoors the **DF Mini Dustfighter** provides a straightforward solution.

Incorporating a 70 litre tank, pump and height-adjustable telescopic mast with spray head simply fill it with water, wheel into place and plug-in to a 110v supply. It will quietly deliver an ultra fine mist of water exactly where you direct.

Tilt adjustment allows the vertical angle to be changed and the unit can be pushed and turned to face any direction required. The mini throws a water mist up to 8 metres.



TO VIEW OUR FULL RANGE OF WATER MISTING CANNONS AND DUST CONTROL EQUIPMENT SEE [www.envirogard.co.uk](http://www.envirogard.co.uk)



Envirogard is a division of Specialist Hires Limited

# 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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## Eltek Air Quality Monitor AQ112

Poor quality air in our towns and cities is well publicised. What is far less well known however, is the poor quality of the indoor air in many of our schools and colleges, places of work, and other public buildings. Contaminants in the indoor environment are more than 1,000 times more likely to be inhaled than outdoor air and can be up to 10 times more polluted.



Children are particularly vulnerable to poor indoor air quality as their lungs are still developing. Children's airways are smaller, so inflammation caused by pollution can cause them to narrow more easily than in adults.

Eltek has collaborated with the UCL Bartlett Institute to design the AQ112 Air Quality Monitor specifically with schools and colleges in mind, but it works just as well in any enclosed public space.

With the AQ112, Eltek can help educate people on the quality of the indoor air they breathe. With just a single box monitor, the AQ112 can accurately measure and record:

- ▼ CO<sub>2</sub> – Carbon Dioxide
- ▼ Relative Humidity
- ▼ Temperature
- ▼ CO – Carbon Monoxide
- ▼ NO<sub>2</sub> – Nitrogen Dioxide
- ▼ O<sub>3</sub> – Ozone
- ▼ VOC – Volatile Organic Compounds
- ▼ PM – Particulate Matter 1, 2.5, and 10
- ▼ Sound Pressure Level

The AQ112 is the perfect solution for constantly monitoring air quality wherever there is a duty of care to occupants. Plus, it can be sent by 4G or LoRaWAN to our new browser-based software, Darca Connect, meaning it is now accessible on any device, at any time, wherever you are.

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## Ultra 4: The latest revolution

Pulsar Process Measurement is pleased to introduce a new addition to its Ultra Controller family. The Ultra 4 is a brand-new controller in the Pulsar portfolio and builds on the world-leading technology we have seen in previous products. The Ultra 4 offers the sophistication and advanced features of the rest of the Ultra range in a compact, cost-effective package and useful new features make it even easier to set up and fine-tune. Offering, as the name suggests, four alarm or control relays (3 x SPNO isolated and 1 x SPNO solid state) and a multifunctional display while losing none of the easy set-up and configuration that has made the Ultra range the natural choice for non-contacting measurement world-wide.



Like the rest of Pulsar's 'transducer plus controller' ranges, Ultra4 is compatible with both dB ultrasonic and dB radar transducers. These non-contacting technologies are complementary – measuring by signal analysis but excelling in different situations. A major benefit to Pulsar customers is that they have the freedom of choice, so when the going gets tough in those applications where there is foam, high temperatures and vapours, the Ultra 4 is compatible with both ultrasonic and FMCW radar transducer heads.

This brand-new controller can be either wall or fascia mounted and includes all the major communication protocols that are widely used across the UK water industry. Like the rest of the Ultra range, Ultra 4 also offers in-built volume calculations based on standard tank shapes as well as advanced pump control and open channel flow measurement functions.

For more information on the Ultra family, please visit our website at: [www.pulsarmeasurement.com](http://www.pulsarmeasurement.com) or call us on +44 (0)1684 891371.

## Panduit new OptiCam<sup>®</sup> 2 fibre optic Termination Tool

Panduit the enterprise and data centre physical infrastructure supplier announces the OptiCam 2 Termination Tool which is designed to offer 100% right first-time termination of OptiCam fibre connectors. The tool calculates insertion loss value on completion of the cabling process. The red and green light indicators provide additional visual confirmation of termination. Using the OptiCam 2 tool, installer productivity increases, and time spent on the job site is reduced. Project re-work time will also be decreased; helping contractors to improve overall profitability.



benchtop orientations.

- ▼ **LCD display** – Guides the user through the termination process with simple step-by-step prompts and on-screen visuals.

The OptiCam 2 termination tool offers a step-by-step visual guidance and insertion loss calculation to ensure the field fibre and fibre stub are in proper alignment before cabling. This allows less experienced technicians to terminate fibre with confidence. A simple, ergonomic, and symmetrical design allows left or right-handed termination in both handheld and

- ▼ **Insertion loss** – OptiCam 2 tool provides a calculated insertion loss, ensuring installers gain confidence in the effectiveness of each termination.
- ▼ **Smartphone app** – Mobile connectivity simplifies the documentation process, allowing inputs of project and installer name, as well as sequential connector numbering with date/time stamps and insertion loss values.
- ▼ **Ergonomic** – Symmetrical design combined with a self-aligning, reversible connector cradle allows for left or right-handed termination in both handheld and workbench orientation.

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