



# SUSTAINABILITY TODAY

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## Marine charity urges businesses to help unlock ocean-based climate solutions

On the eve of the COP26 summit, marine charity Whale and Dolphin Conservation is encouraging



businesses who want to take effective environmental action to join a new Climate Giant Project and help unlock the potential of the world's largest nature-based solution to the climate crisis – the ocean.

The battle against climate change can feel hopeless sometimes with many companies left wondering how they can help. Planting trees can only go so far, while the world's greatest carbon sink, the ocean, is largely overlooked and under-supported. The Climate Giant Project aims to change this, by creating a model where businesses can make a positive and impactful contribution to combatting the crisis we all face. We cannot fight climate breakdown without protecting the ocean and we cannot protect the ocean without saving whales.

Whale and Dolphin Conservation is leading a global alliance of scientists and organisations aiming to protect whales as part of a nature-based solution to the climate crisis. Whales are fighting climate change in a big way. By the way they live, die and poo, they help the ocean remove as much carbon from the atmosphere as all the rainforests on land. It has been estimated one whale has the capacity to absorb as much carbon as 30,000 trees.

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## Dettol Pro Solutions marks UK launch

Reckitt and Dettol Pro Solutions – Dettol's business-to-business offering – developed a tailor-made targeted hygiene program for the COP26 Conference. In a space bigger than 30 football pitches, as the event's official hygiene partner, Dettol's protocols and products helped protect against the spread of bacteria and viruses across 50,000 hotspots.



The firm committed to rehousing its products from the event, partnering with Bunzl Cleaning & Hygiene Supplies to deliver 600 hand sanitisers to businesses in and around Glasgow post-COP26.

The program marks the official launch of Dettol Pro Solutions into the UK market, following Reckitt's successful roll-out of Lysol Pro Solutions in the USA.

Dettol Pro Solutions' offer is already adopted by companies taking hygienic cleaning measures to help protect their staff and customers against bacteria and viruses, and is being introduced at a time when 78% of consumers are still concerned about germs. Following the pandemic, consumers have a heightened awareness of how germs spread and a strong expectation that businesses will do their part.

Dettol Pro Solutions has already delivered hygiene programs for industry leaders in the UK including WeWork, British Airways, Avis Budget Group and The Professional Golfers' Association, with further partnerships to be announced soon.

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# Unblocktober: Save our sewers and seas

**M**ore than 150 industry experts have gathered to review progress in the fight against fats, oils and grease in sewers at the third European FOG Summit, sponsored by Unblocktober.

The event at the Brighton Hilton Metropole, co-hosted by British Water, Southern Water and software specialist SwiftComply, heard how FOG should be considered a resource not waste.

Unblocktober, the annual awareness campaign founded by Lanes Group plc to prevent FOG and plastic pollution disrupting sewers and causing environmental damage to our oceans, was pleased to support the event.



Lanes Group Development Director Richard Leigh said, "Unblocktober is all about finding positive solutions to the serious operational and environmental problems caused by FOG and plastic pollution."

"The European FOG Summit brings together the best minds and the most active organisations tackling FOG, so they are central to Unblocktober's aim of galvanising collective action to protect the environment."

As the UK's largest independent drainage and wastewater specialist, Lanes is already working with some of the key delegate organisations at the European FOG Summit.

FOG is caused by too many oil and fat-based cooking products being disposed of down sinks and drains. Stephen Williams, network protection officer, Southern Water, said there needs to be a sustainable approach to tackling the problem.

He told delegates, "We need to stop seeing FOG as waste and see a resource which can be part of the circular economy, as a biofuel and energy resource."

"To push that we must engage across our industry but also more widely. We need to change regulation and legislation and, importantly, change mindsets."

Opening the summit, Ian McAulay, chief executive of utility Southern Water, told delegates UK sewers experience 300,000 serious blockages every year, and tackling FOG will help reduce this figure.

Philip Dunne MP, chairman of the UK Parliament Environmental Audit Committee, also spoke at the event. He has been seeking a tightening of the law over sewage discharges into rivers.

He told the summit, "There is a huge environmental cost from an issue that is largely unseen by the public. The way you are using technology and working to change habits and behaviours is so important."

Unblocktober is actively encouraging the public and organisations to take FOG and plastic pollution in sewers seriously, and put in place their own measures to reduce both forms of pollution.

Campaign supporters include Southern Water, Thames Water, Yorkshire Water, Severn Trent, the Rivers Trust, Pura, SwiftComply, the Water Jetting Association, Miele, and the London Assembly.

Thousands of people have accepted Unblocktober's challenge to use their loos and sinks responsibly for the month of October – and nearly 90% say it has had a positive effect on their long-term behaviours.

Millions of plastic-based items are wrongly flushed down toilets every year, including wet wipes, sanitary products, condoms, flossing tools, and disposable contact lenses.



Research has shown these items combine with FOG to create a highly compact mass of material that builds up inside sewers to eventually create fatbergs, which are hugely costly and can contribute to damaging sewer floods.

It's never too late to take up the Unblocktober challenge! To find out more, go to: [www.unblocktober.org](http://www.unblocktober.org)

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## Recycling & Waste Management News

### 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:  
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### TANA Shark

Ever since 1971, TANA has been in the forefront of designing and manufacturing robust machinery for the purposes of solid waste management. The core design of the TANA Shark has remained the same throughout the years: a robust, single-shaft slow-speed shredder with enough torque to process even the toughest materials such as used tyres or mattresses.

What separates TANA Shark from the competition is its versatility. The TANA Shark can process various materials. TANA Shark's changeable screens make producing an end-product in various particle sizes easy.

Despite its robust construction the TANA Shark is also smart. Equipped with TANA's state-of-the-art information management system TANA ProTrack®, the user of TANA Shark will be able to monitor and optimise their process. Additionally, TANA ProTrack® allows service personnel to monitor the machine in real-time, delivering fast and accurate service when necessary.

The Doncaster-based firm is the UK distributor of all TANA products, designed and manufactured by the privately-owned Finnish parent company TANA Oy, which has grown to a global name in just under

50 years of trading. TANA Recycling Machinery (UK) Ltd was established in May 2016 and had the honor of receiving the international dealer of the year award twice.

See more at: [www.tana.fi](http://www.tana.fi)

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# TANA

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## FROM WASTE TO VALUE

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## Water Management News

### The National Association of Drainage Contractors

DrainSafe, the approved contractor scheme for drainage companies was finally launched at the National Drainage Show on 9th November. The Scheme, which is the brainchild of the National Association of Drainage Contractors (NADC), will help consumers, businesses and the public sector to identify quality contractors that they can rely on. Modelled on GasSafe and WaterSafe, Drainsafe will also bring environmental benefits as the Scheme will police illegal waste dumping, ensure correct hydrant use, identify cross and misconnections and help to educate consumers about what they should and should not dispose of in their toilets.

All DrainSafe contractors are required to evidence that their operatives are fully qualified to perform the services they offer and have appropriate insurance. They must sign up to the DrainSafe Code of Practice which is underpinned by an Independent Redress mechanism who will adjudicate on any unresolved dispute with a customer. Compliance with the requirements of DrainSafe is overseen by an oversight board which has a majority of independent members.

DrainSafe will fast become the yardstick by which the industry is measured.

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LAUDA's new range of water chillers has been designed not only to comply with the new Eco-design directive, but to surpass it through the innovative use of variable speed modules that automatically reduce their duty cycle in line with the cooling demand hence reducing energy consumption and running costs, giving a tangible return on investment for the user, whilst ensuring full compliance with the latest regulations on refrigerant (fluorinated) gases. For more details, please read our white paper: [https://www.lauda-technology.co.uk/fileadmin/assets/Bilder/Produkte/New\\_Ultracool/whitepaper-circulation-chiller-en.pdf](https://www.lauda-technology.co.uk/fileadmin/assets/Bilder/Produkte/New_Ultracool/whitepaper-circulation-chiller-en.pdf)

Further portfolio expansion delivers the new LAUDA 'Versafreeze' ultra-freezers, (deep-freeze storage down to -85°C), and higher power 'Integral' process circulators, (process control from -90 to 320°C with >25kW of cooling @20°C), with pressure overlay options to increase the working range of water/glycol up to 140°C.

Furthermore, for applications requiring customised solutions tailored to individual requirements, we offer a made-to-measure design service using a long-established and highly skilled team. Project engineering is a core competence of LAUDA and using the modular engineering approach we can design and scale a system specifically matched to the application needs.



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## Recycling & Waste Management News

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# How can manufacturing be more sustainable?

**E**lectronics manufacturers no longer just have a responsibility to offer high-quality products for their customers. With the environment and climate changing faster than we could have ever anticipated and global pollution levels rising rapidly, businesses in the manufacturing industry have a role to play in finding more sustainable alternatives to environmentally damaging practices.

While manufacturing can be an incredibly polluting process, advances in technology and the availability of a wealth of more sustainable resources mean it's also possible for manufacturing to be greener.



### Why should you go green?

Of course, the primary incentive for any company to make their manufacturing more sustainable should be to reduce their impact on the environment and safeguard the planet for the future.

Reducing carbon emissions will preserve the world's much-needed biodiversity, reduce reliance on the ever-diminishing supply of fossil fuels and improve the world's air quality.

While looking after our world should be a priority, there are also several monetary incentives to engaging in greener manufacturing processes. Tax savings, reduced production costs and boosted productivity are just a handful of ways that businesses can benefit financially from more sustainable manufacturing.

What's more, customers are more likely to choose a manufacturer showing a commitment to being environmentally friendly. According to research by The Manufacturer<sup>1</sup>, 80% of people are more willing to purchase from a business making a demonstrable effort to be more sustainable. Consumers' attitudes are shifting rapidly towards more environmentally conscious business models, meaning any company not putting sustainability practices in place now risk being out of business in just a few years' time.

### Small changes for a significant impact

So, how can manufacturers change their processes to be more sustainable?

An ideal manufacturing world is one with as little waste as possible. Once processes have been refined to produce minimal 'wasted' by-products, any excess materials or substances should be recovered and repurposed. This 'circular' or 'lean' approach to manufacturing creates more continuous loops of material so that nothing ever enters a landfill site – a critical aspect of tackling climate change.

We've spoken previously about how the Internet of Things (IoT) can be used to make manufacturing smarter<sup>2</sup>. But could it make it more sustainable, too? Investing in up-to-date technologies and IoT components facilitates smart manufacturing, which avoids overproduction or underuse of materials caused by poor planning. Ultimately, adopting IoT in manufacturing translates into improved efficiency and sustainability.

Automation is linked to IoT. As well as improving production speeds and efficiency, automation results in higher safety levels, meaning less downtime for employees and less energy required when continually restarting machines.

Off the production floor, digitising your office's internal processes to enable real-time contributes to a more eco-friendly approach. Online collaboration platforms allow for a more digitally connected workforce, improving safety, productivity and sustainability.

Encouraging sustainable practices in the office is also a good place to start. Turning off monitors, choosing energy-saving lightbulbs and implementing a cycle-to-work scheme all enhance a company's overarching sustainability strategy.

### Our pledge to sustainability

At EMS, we recognise our responsibility as an electronics manufacturer to monitor and reduce our environmental impact, for the sake of the planet and the efficiency of our processes. When it comes to sustainability, we understand that there's always room for improvement.

Currently, we recycle wherever possible – whether that's on the manufacturing floor or in the office. When it comes to non-recyclable waste, we consistently dispose of any hazardous materials properly. And importantly, we're always making our employees aware of their impact on the environment and how to reduce it.

We have also signed up to the FNZ Standard<sup>3</sup> with the

objective of a 2050 net zero target. The standard is a way to record where we are, monitor our progress, and benchmark ourselves against our sector and will verify and audit us by future Net Zero.

If you'd like more information about EMS' electronics manufacturing services, get in touch today and a member of our friendly team would be delighted to assist you.

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## Recycling & Waste Management News



# fissara

## Waste Less





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A fissara-led environmental study revealed that companies waste tens of thousands of pounds each year on operational inefficiencies, paper and printing, unnecessary fuel costs and basic tasks which could be automated.

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“

In the bulk haulage business, we've been waiting for a powerful management tool like fissara MOVE for a long time. It is the jewel in the crown of our operations, allowing us to be more efficient by providing our office staff and drivers with a one-stop-shop for all their planning, invoicing, and job management needs.

fissara MOVE has also improved communication between our customers, office, and drivers. Staff are much happier; the system has strengthened each department in the business, made office teams and drivers much more efficient and reduced the amount of duplication between teams. This has increased operational profitability across the business.

John Gosling, Managing Director at TJ Transport

”

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# Introducing the UK's first green and clean Methane Stripping Plant

In this issue of Sustainability Today, we are proud to announce Leachate Solutions as our Environmentally Friendly Methane Stripping Plant Company of the Month.

Leachate Solutions has over 35 years' Engineering experience, they design and build small footprint, high efficiency Methane Stripping Plants. Over the years the older air stripped systems have become outdated and very expensive to maintain and 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.

Leachate Solutions is the only manufacturer of Airless Stripping Systems in the UK which is available as a permanent installation or a mobile unit. The system has been built and designed for the treatment and management of landfill leachate. Landfill leachate is the liquid that exists as part of waste in a landfill and is usually comprised of rainwater that enters the landfill. This then seeps into the natural decomposition of organic material along with other liquids and chemicals that have been discarded.



The system has been designed using greener engineering and produces lower energy requirements, a smaller carbon footprint and significant savings on energy and costs. The system is fully automated and can be left in a standalone remote location or scalable to meet changing demands. As well as having the ability to be integrated into an existing system, there are 'built-in' back-ups and failover systems in place to reduce the risk of negative environmental impacts.

One best practice that Leachate Solutions pride itself on is its efforts to work in the most sustainable and ethical way possible. The system is built using 99% recyclable materials, with environmentally friendly 316 stainless steel. Where the traditional aeration system runs in constant operation wasting countless amounts of energy, the Airless Stripping System from Leachate operates as 'On Demand' and only uses energy when in operation.

The Airless Stripping System offers a solution to the water and wastewater industry that is completely unique. No other system has been developed on the market since the traditional solution, enabling Leachate Solutions to offer a completely independent product that is entirely unrivalled. Its



smart monitoring and level control systems allow the processing of dissolved methane removal to surpass traditional methods using a more sustainable eco-friendly alternative. The system is completely environmentally friendly and meets the regulatory and environmental standards with ISO 9001 and 14001 accreditations.

"The closed landfill management industry can sometimes be guilty of 'this is how it's always been done.' But we have designed and built a new system that delivers the same solution but with a new approach that is both safe for the environment and the business. We currently supply treatment plants for the public sectors and local authorities and every client we have worked with has been very impressed with our clean and green engineered approach.



We have just finished two projects for Lancashire County Council totalling a number of three systems in which we have supplied and designed for them. We have also provided two of our systems to West Lancashire Borough Council, overall, there are eight working Leachate plants around North Lancashire," stated Jane Rostock, Director.

The message from Leachate Solutions is loud and clear, that greener and cleaner engineering is possible. Operating in such a niche sector, allows Leachate Solutions to operate as the sole manufacturer and supplier of the Airless Stripping System. Over the past three years, the company has received remarkable growth and is now looking to employ another full-time engineer in 2022. Its current engineer, Carl has been part of the company's eight-year growth plan and carries a vast amount of industry



experience and knowledge. As a company, the ability to think outside the box is necessary in delivering a bespoke solution to any need. It offers a complete end to end solution, providing engineering installation and design services for any business operating in the water and wastewater industry.

Primarily, Leachate Solutions deal with the management of closed landfill sites. Its services deliver a solution to the site owners where they have a legal obligation to make their landfill site safe. Further to its services, Leachate Solutions also offer tailored maintenance programs for pre-existing water treatment plants of any type. Its maintenance consultancy services help identify and implement cost savings across the sector, providing real time telemetry systems, with bespoke software and site-specific dashboards.

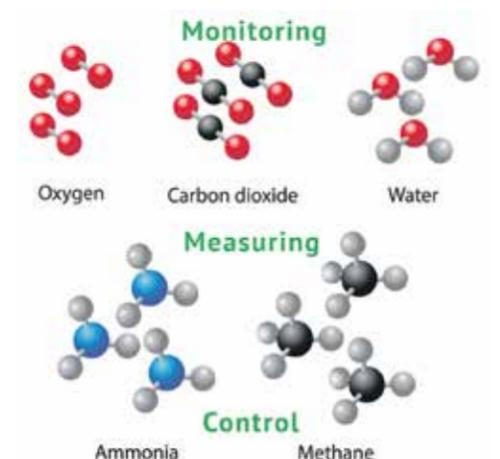
Business has increased dramatically over the past three years and Leachate Solutions has really gained momentum in the market. Further to its latest innovations, it also continues to supply and install: Pumps and Pumping Equipment, Flow Meters – Magflow, Ultrasonic and Doppler, Level Control Systems, On-Site Instrument Calibration, Pump Condition Reports and Pump Maintenance and Management.

Most closed landfills, discharging leachate, require regular attention. Throughout the COVID-19 lockdowns, Leachate Solutions have been able to maintain their service, support and onsite presence for their clients and so enable them to remain compliant.

In the future, Leachate Solutions will be developing its advanced analytical services with water testing services and working with a biochemist which they believe will be the last piece of the completed jigsaw for their services. "We are looking to add a biochemist to our professional team who will help us to assess and analyse test results for clients and assist us to develop and provide further new solutions to issues they may have," stated Jane.

It's evident that much of Leachate Solutions success over the past two years has projected growth through its hard work and blend of expertise and experience to create the first UK Eco-Friendly Methane Stripping Plant. The future looks bright for the company as it continues its efforts in sustaining its industry leading position.

For more information, see below:  
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2022	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
<b>JAN</b>						1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>FEB</b>		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
<b>MAR</b>		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
<b>APR</b>					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>MAY</b>							1	2	3	4	5	6	7	8	9	10	11	12	13
<b>JUN</b>			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
<b>JUL</b>					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>AUG</b>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
<b>SEP</b>				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<b>OCT</b>						1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>NOV</b>		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
<b>DEC</b>				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

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Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	2022
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		JAN
				THE EDUCATION SHOW/ BETT EXCEL LONDON				100% OPTICAL EXCEL LONDON										
19	20	21	22	23	24	25	26	27	28									FEB
				CARAVAN, CAMPING & MOTORHOME SHOW NEC, BIRMINGHAM														
19	20	21	22	23	24	25	26	27	28	29	30	31						MAR
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				APR
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14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	MAY
				SAFETY & HEALTH EXPO EXCEL LONDON THE HEALTHCARE SHOW 18TH-19TH MAY														
18	19	20	21	22	23	24	25	26	27	28	29	30						JUN
				INFOSECURITY EUROPE EXCEL LONDON						GLEE SHOW NEC, BIRMINGHAM								
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			JUL
20	21	22	23	24	25	26	27	28	29	30	31							AUG
17	18	19	20	21	22	23	24	25	26	27	28	29	30					SEP
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		OCT
19	20	21	22	23	24	25	26	27	28	29	30							NOV
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				DEC

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# Letsrecycle Live Show Review – Top Exhibitors

## Letsrecycle Live

Letsrecycle Live took place at Stoneleigh Park, Coventry this year for what turned out to be a highly successful gathering. Letsrecycle Live is the UK's leading live show for the waste, recycling and sustainability industry.

From September 15th–16th 2021, the annual event had six sector zones stretching across indoor and outdoor areas. Letsrecycle Live featured more than 100 keynote speakers across four conference theatres, live material processing, live vehicle demonstrations, and live fire suppression tests. Altogether there were over 250 exhibitors plus a range of free to attend networking events including Meet the Buyer, Women in Waste, apprenticeship programmes, training sessions, bursary support, AGMs and the infamous 'Inn of the Green.'

The event is a perfect chance to meet with thousands of professionals from Waste



Management, Skip Hire, Councils, Waste to Energy, Brokers, Wood, Organics, Plastic, Paper, Textiles, Packaging, WEEE, Glass and more.

Save the date for next year's event on the 14th-15th September 2022 at the NEC, Birmingham.

This is our pick of the best exhibitors from this years show, listed here in alphabetical order: Apex Belting, Comply Direct, C Trace, CTS Hire, Contenur, Deltax, Gardners, Middleton Engineering, The Pink Elephant Group, Refuse Vehicle Solutions, Sol Environment & SMT GB.

[www.letsrecycle.live](http://www.letsrecycle.live)

## A roadmap to Net Zero: The how? and why? of carbon reduction for businesses

### The climate crisis

The climate crisis is the most pressing issue of this generation. Global emissions and temperatures are continuing to rise and reaching record levels, and the disastrous consequences of this on our climate, oceans, and biodiversity are already clearly visible.

### Roadmap to Net Zero

Net zero means reducing emissions as much as possible whilst acknowledging that where greenhouse gas emissions still occur, they must be offset entirely through long term carbon capture or storage. The UK's legally binding net-zero target by 2050 will likely mean further requirements for businesses will be introduced in the coming years.

A roadmap to net zero can be broken down into 4 stages Many organisations have seen the opportunities presented by actively working to measure, reduce and offset their carbon emissions. Comply Direct can help organisations at every stage of the carbon management pathway – be that:

**Measure:** Carbon footprint calculation  
**Target:** Set realistic and achievable science based targets  
**Reduce:** Create a carbon reduction plan  
**Offset:** Offset emissions and receive certification of Carbon Neutrality

Get in touch with their expert team for further advice and a no-obligation proposal outlining how Comply Direct can support businesses to achieve carbon management and reduction goals – email: [marketing@complydirect.com](mailto:marketing@complydirect.com) or call: 01756 794951.



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

## Digital transformation of waste management operations from c-trace

C-trace, are market-leading waste management technology providers from Germany established in the UK 2012. Our range of specialist products and services that cover waste collection operations, including route optimisation, identification and weighing systems, application based flexible software & system integrations. Customers benefit from many cost and operational efficiencies.

We offer a wide range of bespoke products and services designed to deliver savings, efficiencies and clear data. We offer experience and reliability across our range. Fully certified legal for trade weighing systems for operators and software services to 3,200 daily users across Europe. Our latest range of in cab technology guides drivers and confirms scheduled jobs enabling payment for operators and KPI figures for waste producers, highlighting sustainability in hard figures.

Our in-house developed modular software solutions are designed to provide the users with all the necessary tools to set up, administer bill and oversee Radio Frequency Chip (RFID) based pay-by-weight commercial and payable



domestic services. Ownership of the bin, proof of service ownership of the bin, bill payer and bill production are central to what we offer. We have vast experience and offer the complete package from chips to vehicle fitted hardware for ID and certified weighing.

As an independent supplier we are able to integrate and work with your existing IT structures and can fit hardware to any recognised bin lifter.

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[www.c-trace.de/en-UK](http://www.c-trace.de/en-UK)

## 'Ocean Plastics Pollution' refuse truck is popular with CTS Hire customers

In September this year, CTS Hire showcased its new special edition 'Ocean Plastics Pollution' refuse collection vehicle at the Letsrecycle Live show.

The new 18t Dennis Eagle RCV is wrapped in vinyl and features a striking photographic image of a seal swimming underwater, obscured behind a plastic bag, to highlight the problem of plastic pollution in our oceans. The wrap covers the entire body of the vehicle, and is printed on both sides, for maximum impact.

Refuse vehicles are slow-moving billboards and transit advertising is increasingly recognised as an effective way to convey messages to a wide audience. The vehicle, which is now available for hire, is proving very popular with CTS Hire customers and is being seen by thousands of people every day whilst in operation collecting waste and recycling.

Municipal vehicle hire company, CTS Hire offers high-quality, FORS, LEZ and DVS compliant vehicles, featuring the latest technological and



safety enhancements, all supported by a 24/7 national mobile engineer and workshop network. The fleet includes 3.5t-26t Refuse Collection Vehicles (RCV), specialist recycling vehicles, caged tippers, hook loaders and skip loaders, all available for short to long term hire including contract hire options.

For more information about hiring the CTS Hire 'Ocean Plastics Pollution' awareness truck or to enquire about other hire vehicles contact the Hire team on: 01453 511050, email: [hire@ctshire.co.uk](mailto:hire@ctshire.co.uk) or visit: [www.ctshire.co.uk](http://www.ctshire.co.uk)

## Introducing the new Volvo L25 Electric

At SMT GB, we recognise the importance of sustainability, particularly when it comes to construction. To this end, we are delighted to introduce the new Volvo L25 Electric.

With decades of experience designing and manufacturing compact wheel loaders, the Volvo L25 Electric is designed with customer success in mind, and built from the same DNA as other class-leading Volvo construction equipment.

Combining the proven Volvo compact wheel loader platform with fully electric motor and battery power, the L25 Electric provides all the performance you need, with zero-tailpipe emissions and very little noise produced.



This ensures work can continue at any time in environmentally sensitive and populated areas, as well as indoors without the need for costly fume extraction systems.

Providing over 6 hours of active work per charge, the L25 Electric delivers outstanding lifting and breakout forces, maximum traction and unrivalled off-road stability. With a number of charging solutions available, the L25 Electric can also be charged from 0 to 100% in as little as 2 hours.

Boosting uptime beyond the capabilities of any equivalent internal combustion machine, the L25 Electric reduces maintenance requirements by 30%, and helps to raise the bar for our industry when it comes to electric solutions.

Contact  
[www.smt.network/gb](http://www.smt.network/gb)

## Print for our future

Leading print manufacturer, Gardners recently showcased its sustainable solutions at the 2021 Let's Recycle Live Show.

Known for its big, bold and beautiful campaigns since 1976, Gardners has diversified its sustainable offering. This has meant new product launches such as the pollution-eating specialty coating, ReActivair, double-sided fleet banners, PVC free alternatives for its Out of Home (OOH) placements and more.

Speaking of its ongoing commitment, James Morris, Sales Director for Gardners (pictured right) said, "We've been continuously introducing and supporting green solutions for some time because we believe in the importance of sustainable



practices and working alongside partners who share this ethos. This topic now feels more important than ever following COP26, as well as a wider business and consumer focus.

"As part of the Hexcite Group, we're also working towards our Target: 2025

sustainability commitment with four big targets including zero to landfill by 2021; embedding a global, sustainable materials process by 2022; transitioning to a circular economy business by 2023, and transforming into a net-zero carbon business by 2025. As part of this mission, we will continue to innovate to offer more sustainable approaches to our operations."

For more information, visit:  
<https://www.gardners.co.uk>



**CHANGE THE WAY THINGS ARE DONE**

Signaling the future for construction, the new EGR25 Electric compact excavator benefits from zero exhaust emissions and low noise levels and vibrations, making it the perfect accompaniment for any sensitive work environment. You will also benefit from lower maintenance levels, a more peaceful operation and the ability to keep in line with increased environmental regulations.

For further information contact your local SMT representative or visit:  
[www.smt.network/gb/electromobility](http://www.smt.network/gb/electromobility)

## Trusted recycling machinery

Deltax Ltd. is dedicated to the design, manufacturing and sale of equipment and machinery involved in scrap recycling, demolition and construction industries. With a depth of experience and qualified personnel, Deltax Ltd. have sales agents worldwide and its machinery can be found operating in every continent in a number of different industries.

With a reputation of providing an honest, knowledgeable and fair service to its customers, most component production is done in-house, using only high-quality materials and the latest production techniques. These include computer aided design (CAD), and manufacturing systems combined with an ongoing policy to improve design and production



to meet the changing needs of the industries involved. Deltax Ltd. has a wide variety of equipment and machines available in its product portfolio from electro-magnets for scrap and material handling to heavy duty alligator metal cleaning shears.

This year, Letsrecycle Live took place at Stoneleigh Park in Coventry on the 15-16 September and Deltax Ltd. was on hand to showcase its products. The show is the UK's leading live show for waste, recycling and sustainable industry and featured over 100 speakers across four conference theatres.

Amongst 250+ other exhibitors, Deltax Ltd. delivered live demonstrations of its products, and enjoyed the opportunity to share their expertise and experience with attendees and other industry professionals.



For more information on the products and services Deltax Ltd. provide, see below:  
**T 01489 784711**  
**deltax@btconnect.com**  
**www.deltax.co.uk**

## New UK plant brings much needed competition

Spanish plastic bin manufacturer, Contenur has completed and opened its UK plant to consolidate and expand its market position in the UK.



Present in the market place for over 20 years,



Contenur UK has traditionally imported products from its Madrid facility. Now they are able to produce all bin sizes in their state of the art manufacturing plant in Knowsley, Merseyside. They can now provide a wider choice and product flexibility to one of their most significant global markets and offer larger volumes to support the private and local authority wheeled bin markets.

Neil Kavanagh, UK Commercial Director summarised the importance of the new UK factory, "Local production will allow us to be more responsive to the needs of our private waste management and healthcare customers as well as provide much needed choice and flexibility to the high volume, Local Authority market. The new plant allows us to extend our product range, increase annual production capacity and provide pricing to meet the needs of a high-volume UK market segment. We aim to compliment competitive pricing with additional services such as a nationwide, closed loop recycling program that can reduce container costs and re-use all of your redundant bins to use the material to create new containers. This will be a first for the UK market on a national level and will demonstrate our commitment to helping the UK container market reduce its CO<sub>2</sub> footprint and increase recycling rates."

If you would like to know more details about our compliance, sustainability, quality or product range, please do get in touch.

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 300mm BLADES



**DTX 410 - Automatic Hydraulic Scrap Hold Down**  
 Weight: 955 kgs.  
 300mm BLADES



**DTX 600 - Automatic Hydraulic Scrap Hold Down**  
 Weight: 2185 kgs. 600mm BLADES. Cut Cap. 70mm Mild steel bar

Take a look on our website: [www.deltax.co.uk](http://www.deltax.co.uk)

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## Delivering Innovative Baling Solutions for the Recycling Industry



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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 material 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.

Email: [sales@middletonengineering.co.uk](mailto:sales@middletonengineering.co.uk)

Phone: 01458 860264

Website: [middletonengineering.co.uk](http://middletonengineering.co.uk)



### ME80 CLOSED END BALER MODEL

Using the same bale chamber configuration as our ME2R models, the ME80 baler is suitable for processing a wide range of materials. The ME80 baler is ideal for both local authorities and distribution depots. Its easy to operate and maintain, able to handle a wide range of waste materials and a well proven design, capable of exceeding 20 years.

Middleton Engineering has been in the business of designing, manufacturing, supplying, and servicing recycling equipment for over 45 years.



Our standard baler range includes our Semi-Automatic ME 80 offering an entry level solution. Then to our HB 60 range which has worked really well in distribution depots and single users having a small footprint and low height, made in 3 power sizes 22kW, 30kW and 37kW.

We manufacture our own series of Twin Ram Machines. The Middleton ME2R series balers are available as 80, 100T and 120T tailored to your requirements, plastic and wire tying options or both.

One of the major benefits to having a Twin Ram baler system is its flexibility to handle many different types of waste streams with one machine, the ability to switch quickly from one material to another is especially important in today's environment. Energy efficient, long service life waste balers have never been more important to the industry, allowing a variety of materials to be processed.

Middleton's have design, fabrication and installation capabilities for turnkey recycling industry installations, including MRF and sorting line installations large and small together with every kind of conveyor solution and sorting equipment requirement.

Contact  
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# Letsrecycle Live Show Review – Top Exhibitors

## Re-use over recycle

**P**ink Elephant Group specialises in recycled clothing and the re-use of household textile including: clothing, shoes, accessories such as handbags, bric-a-brac, commercial textile and other small household items.

Pink Elephant Group provides its services to the general public, local authorities, charitable and commercial organisations through arranging reclaiming for re-use schemes. The company currently operates textile bank collections and recycling schemes across the country. These textile banks are bright pink in colour, to stand out and match the company name and brand.

The main ambition for Pink Elephant Group is to promote re-use, before recycle, leading to increased use of high-quality second-hand items and increasing the market of second-hand goods in the UK. This in turn, has the potential of lowering the purchase of new goods, leading to a positive environmental impact.



In terms of significant recent announcements, the Pink Elephant Group has signed up as one of the signatories, and joined Textile2030, a new groundbreaking, expert-led initiative, harnessing the knowledge and expertise of UK leaders in sustainability to accelerate the whole fashion and textiles industry's move towards circularity and system change in the UK, led by WRAP.

Pink Elephant Group exhibited at Let's Recycle Live Show in September 2021 and presented



its textile bank in the shape of K2 telephone box, which the company is planning to introduce and place at several locations around the areas of its textile banks.

**To get in touch, please see details below:**  
T +44 (0)116 326 3262

**Please check the company website for further details, ways of getting involved and working with them at:**  
[www.pinkelephantgroup.co.uk](http://www.pinkelephantgroup.co.uk)

## Apex Belting Limited

**A**pex Belting are a market leader in the manufacturing and fabrication of conveyor belts for the recycling, OEM & agricultural markets.



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and many other types. We offer on-site vulcanising along with an excellent range of rollers, drive and tail drums as well as skirting rubber.

**Contact**  
T 01284 752486  
[www.apexbelting.co.uk](http://www.apexbelting.co.uk)

## Refuse Vehicle Solutions delivers first-ever Dennis Twin Pack electric conversion to Islington Council

**R**efuse Vehicle Solutions (RVS) has delivered the world's first-ever refurbished and repowered Dennis Twin pack refuse vehicle to Islington Council, marking a revolutionising breakthrough in the waste industry. RVS specialises in recycling and re-powering fossil-fuelled vehicles, having converted numerous RCVs for a multitude of customers around the UK.

Following a recent site expansion, RVS are focused on meeting the increasing demand for its conversion process with a solution that can turn just about any existing vehicle into an environmentally friendly, hard-working and powerful zero-emissions machine.

Refuse Vehicle Solutions is not just taking the world of electric vehicles by storm; they are changing the industry's perceptions about what an electric vehicle can do. With only state-of-the-art technology used during the refurbishing and repowering process, there are no compromises made with safety or reliability, according to Managing Director Spencer Law. "Our technology is the only solution on the market today that enables operators to convert their existing fleet into an all-electric fleet without sacrificing performance or safety."



With an advanced battery pack system that is designed specifically for the needs of these types of vehicles, RVS provides a perfect solution for those looking to reduce their carbon footprint.

**For further information about RVS services, visit: [www.refusevehiclesolutions.co.uk](http://www.refusevehiclesolutions.co.uk), contact: 01453 899131, or email: [sales@rvsl.co.uk](mailto:sales@rvsl.co.uk).**

**RVS is also on social media:**  
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## Sol Environment: Independent environmental consultancy

**S**ol Environment is an independent environmental consultancy that specialises in sustainability. We were established in 2009 and have a key focus on Renewable Energy, Built Environment, Low Carbon Technologies and Environmental Planning & Permitting.

We have been working in the area of sustainability and have been providing our clients with services and strategies to meet their low and zero carbon obligations since the outset and now pride ourselves on being one of the few dedicated consultancies that solely work in this area.

Our client base generally comprises the industrial, low-carbon and energy sector, but also work for huge number of commercial and residential developers. We also



provide a number of ESG services to our corporate clients and advise them on carbon strategy, carbon reduction and the transition to a low carbon economy. In all cases, our services are tailored to the specific needs of our clients.

Our close alliance with our long-term consulting partners gives us a much larger breadth and market presence than our size implies. An ability to provide both an individual service whilst being able to deliver larger multidisciplinary contracts sets us apart from our competition.

Our services include but are not limited to the following:

- ▶ Energy and Sustainability Strategy
- ▶ Assessment to BREEAM
- ▶ Carbon and Energy Modelling
- ▶ Regulatory Permitting and Compliance Assessment
- ▶ ESR, Carbon Accounting and Management Strategy
- ▶ Third party verification and assessment.

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## Energy Management News

### New online shop

**H**aving 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:**  
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# Wooden pallets: At the heart of sustainable business

To mark EPAL's 30th anniversary year, Felicity Smith, national secretary for EPAL UK & Ireland, tells us how the pallet – a 60-year-old invention – will form the backbone of the green recovery.

The wooden pallet is 60 years old.

While there are no lavish festivities planned, nor any specific date to hold them on, logistics professionals understand why it is worth celebrating milestones such as those. When you have the responsibility for moving goods between locations wooden pallets have an essential role to play in the process.



Pallets allow products to be batched up, loaded and transported easily and safely, while maximising space and efficiency, saving suppliers and their customers time and money. Pallets made from wood are also the most environmentally friendly and least expensive option. This is why economists have acknowledged pallets as one of the cornerstones of free-flowing international business during the past six decades.

Wood's low cost, versatility, hygiene credentials and wide availability have helped this material maintain 90% of the UK pallet market for many years. And its superior sustainability is increasingly important to businesses, too.

The environmental credentials of products for companies of all kinds are receiving more attention as governments rebuild their economies in the wake of COVID-19. Principles of reducing, reusing and recycling; cutting emissions and favouring sustainable materials such as wood are becoming central to the policies made in locations including the EU and the US.



Pallets clearly perform well when measured against these core environmental standards.

#### Reduce

Pallets are made from smaller logs and 'falling boards' from the sawmilling process. According to the Timber Packaging & Pallet Confederation (TIMCON), the sector uses around one third of the UK's timber output, part of a system that sees every part of a sustainably harvest tree used. Sophisticated software packages also help manufacturers design and build pallets to optimal measurements for strength and efficiency.

#### Repair

Wood makes repair and reconditioning of pallets easy; damaged boards and blocks can be replaced, so pallets can be kept safe and in useful service. This is a simple process that extends the pallet's lifespan and allows it to be used many times – and often for many years.

#### Reuse

Truly sustainable businesses must optimise their pallet use before recycling them. According to TIMCON's annual wood packaging market survey, 48.3 million wooden pallets were repaired in 2019, growth of 5% on the previous year, increasing opportunities for reuse.

Repair is a key part of the pallet pooling model, where pallets are repaired for reuse. In EPAL's case, the pallets are owned by the owner and repaired to an 'as new' specification before being sold on to the new user.

#### Recycling

When a wooden pallet has become damaged to the point when repair is no longer possible, this is the right time for recycling. Pallets are recycled by industries such as panels and composite block, made into animal bedding, or sent to biomass generators for renewable energy.

There are an estimated three billion wooden pallets in circulation in the UK and EU region combined – with an annual production of around 500 million.

**Responsible manufacturers use certified sustainable wood (PEFC or FSC certified sources) to reduce its overall carbon footprint further. In Europe, the packaging and pallet industry uses approximately 20 million cubic metres of this every year. Each pallet stores approximately 27kg of carbon.**

Wood is still the least expensive raw material – despite recent market-driven price rises – which will clearly continue to be a decisive factor for many businesses as they realign after the pandemic. However, the above credentials will also make pallets manufactured from wood a key part of the businesses' strategies to become more sustainable and fulfil their climate obligations in the important months and years ahead.

#### Wood: A Unique Status

The UK government acknowledged the unique status of wood in November last year when it released its interim packaging recycling targets for business. Wood was the only material whose target was decreased – from 48% to 35%; the recycling targets were increased for all other materials.

#### Wooden pallets in the UK: Key Facts

- ▲ 27kg of carbon (0.9kg in every kg of wood) is stored by a typical wooden pallet
- ▲ 48.3 million wooden pallets repaired in 2019, a 5% rise on 2018
- ▲ 44.9 million pallets manufactured in 2019
- ▲ Every cubic metre of wood reduces the carbon footprint of your business by approximately 2 tonnes

EPAL UK & Ireland oversees the EPAL open pallet pool in the UK and Ireland region.

Internationally, EPAL oversees 500 million EPAL Euro pallets and 20 million box pallets, making it the world's largest open exchange pool.

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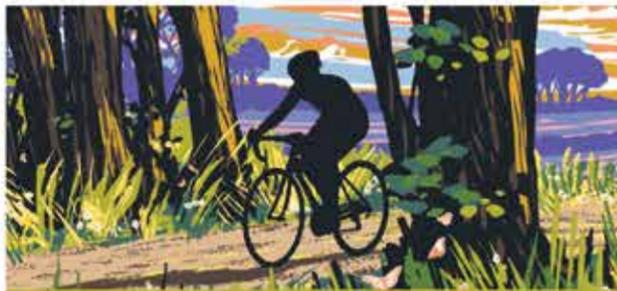


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# Mitigate your risk and reduce emissions by uncovering the truth about breather vent performance

**E**SG stands for Environmental, Social and Governance. This is often called Sustainability and with increased focus on climate change and reducing emissions, there has never been such an important time to understand the facts and re-evaluate your strategy to reach net zero.

Most of the UK population live in towns and cities and often cheek by jowl with industrial activity including bulk chemical/petrol storage and biogas generation.

We are lucky to have a legal infrastructure that ensures all UK operators follow strict safety and environmental guidelines intended to keep us safe.

But there is always room for improvement. We passionately believe that huge reductions in emissions from tank farms can be achieved using best available techniques and reference to international standards.

The speed of change and increasing rate of adoption of new, cleaner technologies is literally breath-taking as we all wake up to the damage we have inflicted on our world.

Assentech has been developing techniques to measure and reduce emissions from tank farms for over a decade. The key is keeping volatile



compounds inside the tanks but allowing them to breathe when required such as filling/emptying and fluctuations in temperature. At all other times a breather valves should remain closed with minimal leaks.

These valves have immense flow capacity so if not functioning or set correctly can leak hundreds of tons of invisible GWP emissions along with company profits into the atmosphere.

Two international standards regulate design, application and production of breather valves. These are ISO28300 and API2000. Both standards have specified maximum leak rates for all production vents, i.e. 0.014m<sup>3</sup>/h for vents up to 6". The shame is that only 2 out of the 20 worldwide manufacturers test to this standard. This ultimately has led to a huge problem with the majority of breather valves that are installed at facilities are not leak tight and will allow huge volumes of vapour to release into the atmosphere.

With over 1,500 sites in the UK having more than 10 storage tanks with capacity ranging from 10 to 8,000 tonnes of flammable or toxic liquid the potential for leakage is immense.

In a recent case study we reduced a storage tank's global warming potential from 161 tonnes of methane to just 185kg by replacing just one 12" breather vent per year.

So we saved the customer £8k per year in lost methane per valve and an incalculable value to our environment. This was a true win/win deal.

It has taken us many years to develop an automated test bench to record these huge improvements using state of the art artificial intelligence and neural networking. Now, with it officially launched in August 2021, we are receiving a lot of interest, enquiries and orders from operators seeking to reduce emissions and meet ESG commitments.

With the challenges we all face to reduce emissions as part of our journey to tackle climate change, we need collective energy and focus to ensure that operators adapt to these new challenges and are supported by the regulators. The first step is to raise awareness of this huge industry problem and ask that you all take note of this huge issue.

Our simple advice is to ensure that End Users, Regulators, and Insurers insist on a valid individual leak test certificate on both vacuum and pressure ports for all the breather valves purchased, installed or serviced.

We would recommend that these assets are inspected yearly and given a full service at intervals no longer than 3 years. Adhering to the best available practices and careful due diligence of your supplier will ensure global emissions are substantially reduced.

Assentech has an enviable reputation as one of the most knowledgeable resources available for reduction in fugitive emissions from breather vents worldwide to keep you safe, compliant and profitable.

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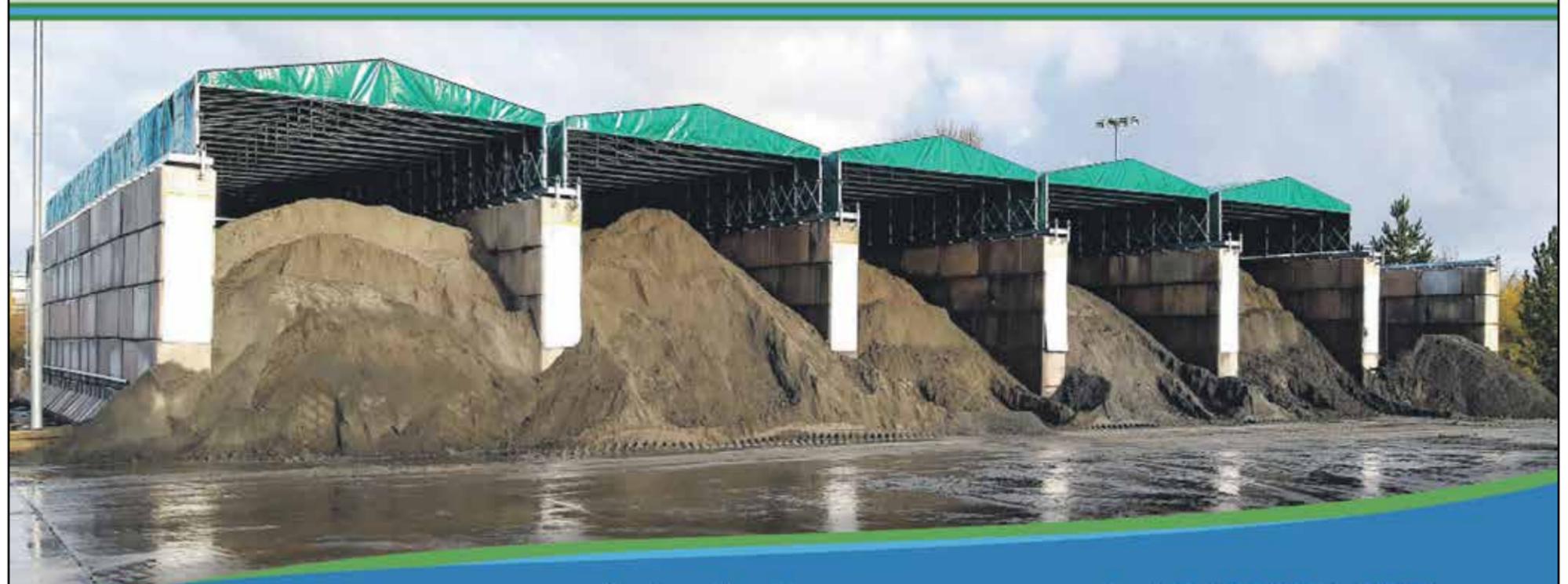
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## Global Freight Delays are causing supply issues

Companies across the UK are experiencing supply chain issues. These issues have grown over time as numerous factors have compounded to seriously disrupt the supply of everything from the automotive industry to food and drink into hospitality. Problems ranging from staff shortages, temporary site closures, and cancelled deliveries to the limited availability of certain product lines. Here is why these issues are in affect:

### Suez Canal blockage

Many of the issues began earlier this year when the Suez Canal in Egypt caused severe delivery delays after a container ship became blocked within the canal's access routes. There were hundreds of ships stuck in a tailback, waiting to pass through the 193km canal. Even several days after the blockage was removed, the back-log continued and the impact of the delays are still being rectified today.

### COVID-19 Impact on Ports

COVID-19 outbreaks continue to affect cargo handling, putting an extra strain on air, ocean,

and rail transportation due to staffing issues and container shortages. Ningbo-Zhousha port, the world's third-busiest cargo port in China was subject to huge backlogs and delays. Services were halted at a key terminal after workers tested positive with COVID-19. Increase levels of staff isolations have resulted in staff shortages and in turn many unexpected interruptions.

Similar scenarios have played out across other major ports within China, and across the world. This has



produced huge local setbacks, delays, and back-logs which combined are causing a ripple effect which is being felt globally.

### Driver Staff Shortages

Many companies are currently experiencing staff shortages because of employee self-isolation and COVID-19 outbreak levels. The 'Pingdemic' has severely affected staffing levels across all sectors, with

HGV and delivery driver roles being hit particularly hard. Driver shortages have led to delivery guarantees dropping from 80% last year to just 40%. Brexit has also impacted many transport jobs. The BBC stated that there is evidence of HGV driver shortages across Europe, but the UK has been among the hardest hit by the problem. This is assumed to be because many European drivers have returned to their home countries and subsequently sought work elsewhere.

### Summary:

It is hard to specify a timescale for when these issues are likely to be resolved and when normality will resume, however it is definitely worth reviewing your supply chain and involving partners like Cromwell Polythene who have a UK based manufacturing site. Find out more: <https://www.cromwellpolythene.co.uk/global-freight-delays-are-causing-supply-issues>

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### Ergonomics that make work easier

All models in the new **EX-TEC® PM 5XX** series are accredited as gas detectors and approved for use in so-called "Ex" zones. Their high IP65 enclosure rating ensures safe operation even under adverse conditions.

Thanks to their non-slip housing with a rubber lining, the devices are easy to hold. Their high-contrast display is razor-sharp and is easy to read even in sunlight. All of the device's functions can be launched easily from its simple 4-button keypad (two arrow keys, menu key, enter key). The separate on/off button does not have any additional functions.

### Just the device for every application

The fully featured version of the **EX-TEC® PM 5XX** gas detection and measurement device can detect up to five different gases. Thanks to its modular design, the user can tailor the device perfectly according to their needs.

For the construction industry, the **EX-TEC® PM 580** displays the carbon monoxide concentration in the ambient air and triggers an acoustic and optical alarm in case of high values. Carbon monoxide is toxic and can be released when combustion devices such as boilers have an insufficient air supply. The gas is poisonous to humans.

### Convincing features

All of the models in the new **EX-TEC® PM 5XX** series are very user-friendly and suitable for any application thanks to their simple 4-button navigation and clear menu structure. Device inspection is supported intelligently by the device software and the illuminated 2.5" display can be read in any environment. The non-slip housing is easy to carry and, thanks to its single-hand operation, can be used by both right-handed and left-handed users. Should the hydrophobic filter come into contact with water, it protects the device and triggers the pump alarm. Filter contamination can be identified quickly and easily on the transparent closure in front of the easy-to-replace dust filter.

A short sensor and belt clip make use of the device even more comfortable, and are included as standard. Other sensors are available for users to customise the device for their exact requirements.

Running on AA batteries or rechargeable batteries, the device operates for a total of between 8 – 16 hours (depending on model and application).

Test equipment SPE AutoFlow simplifies necessary device inspection and reduces the amount of test gas required. The ATS 503/ATS 501 test station ensures precise measurement values automatically and reliably. Both are available as accessories. Powerful software called GasCom enables storage of the recorded measurement values and is used to configure the entire device.

Additional information on the new SEWERIN **EX-TEC® PM 5XX** range of devices is available from SEWERIN distribution partners or on the internet.



## EX-TEC® PM 580

Detecting, measuring and warning – Everything you need

- Intelligent assistance with device inspection wizard
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- Pump alarm if hydrophobic filter comes into contact with water

