



SUSTAINABILITY TODAY

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www.businessandindustrytoday.co.uk

energy | water | waste | recycling | sustainability

An accurate current meter in every bedroom and hot water tank

Prefect Controls has introduced a new feature for its Prefectrus product – the integration of an accurate current meter that monitors energy use in each room throughout multi-occupancy buildings such as student accommodation.

Until now, managers have calculated energy use based on power rating multiplied by length of time a device is estimated to be active. However, fluctuating voltage and imprecise predictions of 'on-times' can make these estimates wildly inaccurate.

The new PU3 from Prefect comes with iACM (Integrated Accurate Current Metering) as standard, logging the current only when a heater is operational. This data is then transmitted via the building's wiring system to the central controller where it is recalled for estimation of seasonal energy usage.

As well as monitoring heaters in bedrooms, the feature also notifies managers if there is a problem with hot water tanks. Usually a problem is only evident when both elements fail and water isn't being heated. With accurate metering, if one element fails, the drop in current immediately identifies the



problem – meaning efficiency can be restored.

Glen Golding, Prefect Controls MD, said, "This development means accurate usage can be calculated so that better purchasing of energy will lead to greater savings for organisations providing multi-occupancy accommodation."

Prefectrus is currently in more than 20,000 bedrooms and continuous development makes it an invaluable product to ensure efficient use of energy across Britain's university accommodation estate.

For further information, contact Glen Golding on 01787 320604.

New M Series range targets IT cooling market

Mitsubishi Electric has launched a brand new range of M Series R32 air conditioning solutions, designed specifically for the UK IT Cooling market. The high sensible cooling systems are ideal for small computer rooms or areas that require a greater degree of sensible cooling.

The new M Series MSY-TP R32 Cooling Only High SHF Wall Mounted System is a brand-new product solution for the UK market, available in both 3.5kW and 5.0kW sizes, and includes an SHF (Sensible Heat Factor) of up to 0.98.

The cooling only unit has a high sensible cooling capacity, and blends energy efficiency



with a modern white design. As a critical market driver for businesses looking to deploy IT cooling, a high sensible cooling system is able to significantly cool the room without removing too much moisture. The use of R32 refrigerant has a lower total Global Warming Potential (GWP) than traditional refrigerants such as R410A, helping to reduce overall running costs – essential for equipment that can be operating for long

periods of time such as those required in IT infrastructure.

The M Series MSY-TP range includes a built-in connection to the company's optional Wi-Fi interface, enabling control and monitoring using a smartphone, tablet or PC via the Mitsubishi Electric MELCloud app. This feature brings greater flexibility and an improved user experience for customers, who can control and importantly monitor the air conditioning equipment from any device without being in its vicinity.

For more information on Mitsubishi Electric's range of IT cooling solutions, click this link: <http://gb.mitsubishielectric.com/en>

Bluewater Bio's activated sludge process

Saudi-based private utility company Marafiq has selected Bluewater Bio's hybrid activated sludge process, HYBACS®, to upgrade its Industrial Wastewater Treatment Plant ('IWTP-8') at Jubail, a purpose built Industrial City on the Arabian Gulf coast of Saudi Arabia. Through a competitive tender process, Marafiq selected Tunisian EPC contractor Engineering Procurement & Project Management ('EPPM') to deliver a HYBACS solution for their current capacity shortfall. Once completed, the HYBACS process will deliver an approximate 150% uplift in capacity, treating 50 MLD of industrial wastewater from the city.

The HYBACS upgrade will increase treatment capacity to 50,000m³/day. The client's specifications for the upgrade include that the existing treatment process must not be interrupted during the upgrade, the solution



HYBACS installation at Tubli wastewater treatment plant, Bahrain

must be a proven technology, be highly energy efficient, have a small footprint & that the upgrade must be completed within a short timescale.

Fergus Rooksby, Commercial Director of Bluewater Bio, commented, "We look forward to working with EPPM and Marafiq in delivering our HYBACS process to help alleviate overloading at the IWTP-8. This contract will be our first HYBACS installation in the Kingdom of Saudi Arabia and marks a significant milestone in our Gulf expansion plans, building on our award-winning 100 MLD HYBACS plant at Tubli WPPC, Bahrain."

HYBACS augments the widely-implemented activated sludge process, with the core benefit being that it enables an existing activated sludge plant to be rapidly upgraded for increased capacity and/or performance, by simple offline installation of SMART Units.

Contact enquiries@bluewaterbio.com www.bluewaterbio.com



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Tackling respiratory risks



Award winning environmentally responsible cleaning products manufacturer Genesis Biosciences has launched its products to the consumer market – in a bid to help tackle public health concerns caused by volatile organic compounds in cleaners.

According to Genesis, making the Evogen Professional range available via online retailer Amazon delivers greater public accessibility to environmentally responsible cleaners that tackle the risks caused by traditional chemical cleaners, which are a lead emitter of compounds linked to respiratory issues.

The range utilises beneficial bacteria as alternatives to harsh chemicals that outcompete harmful bacteria for the same resources & deliver hygiene benefits through the better control of harmful bacteria, and a sustained longer term clean meaning that they can deliver improved cleaning performance and efficiency related financial returns compared to disinfectant chemicals.

Emma Saunders, general manager at Genesis Biosciences, said, "As a market-leading company, we aim to create a safer environment, not just at work but also at home, by offering products that are safer, less toxic and combat the damage done by traditional cleaners."

T 029 2079 1185

Wow! What a show!

RWM 2018 has come and gone, and what a two days it was! The UK's largest recycling and waste management expo descended onto the NEC in Birmingham from 12-13 September 2018 for two days of exceptional business and knowledge sharing, as world-class exhibitors and pioneering professionals both displayed the latest and greatest in technology, services and products as well as leading deeply interesting seminars to packed out theatres across the event. Against all doubts, RWM 2018 was an overwhelming success that proved the waste industry to be a booming one. 20,000 professionals filled the halls across all the events, with 12,500 recycling and waste professionals there specifically for RWM – the best visitor turnout it has had in years!

The first thing that was immediately noticeable when arriving at RWM was the queues to get in; they were enormous and the first bit of proof as to how vital the industry is currently. With the amazing turnout giving the event an immediate and



lasting buzz, it only took a brief walk around before stands started to appear showing off their amazing products that were all work ready for the needs of any inquiring visitors.

RWM is back this year on the 11th and 12th of September 2019 at the NEC Birmingham. This is our

pick of the best exhibitors from last year's show, listed here in alphabetical order: DBS Processing, Fire Shield Systems Ltd, Mechtronics Ltd, Plastic Oceans Foundation, Standprime Ltd & Way to Eco Ltd. Further details can be found on this page and the next.

www.rwmexhibition.com

The case for silo storage over floor storage

The many benefits to storing products in silos include: smaller storage footprint, known quantity stored, weather protection, containment of dust & odour, easier to control environmental issues, health & safety, and ease of automation. But you need to be certain of reliable discharge without issues such as 'funnel flow', 'segregation' and 'arching' that are often experienced in conical bottom silos. The Morillon Hydrascrew range of silo unloaders offers reliable discharge solutions for 'non-free flowing' materials from flat bottom silos which promote FIFO 'first in first out' operational conditions.

The Hydrascrew is suitable for a wide range of wet or dry products such as: Ash, Coal, Glass Wool, Meals and Cakes, Plastics, Powders, Sawdust, Sludges, SRF, Wood Chips, Wood and Pellets. For silos from Ø2m to Ø25m with discharge capacities from 20m³/hr to 500m³/hr. Hydraulically powered to provide high torque across the speed range. Its robust industrial design & build quality can provide decades of reliable service. Individually



built to suit the application with many optional features including variable speed and ATEX certification.

Standprime Limited delivers effective discharging solutions with Morillon.

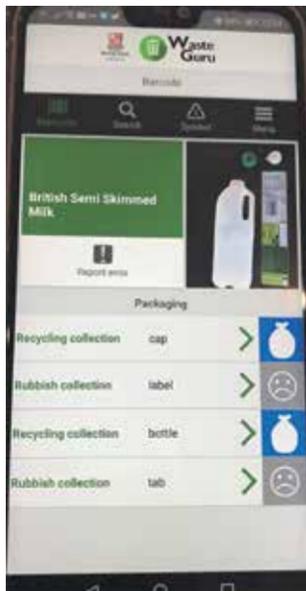
T +44 (0)1787 374227
info@standprime.co.uk
www.standprime.co.uk

Way to Eco Ltd

Way to Eco is an innovative environmental consultancy looking at waste from a social angle. We focus on waste prevention, enhance recycling, and foster the circular economy.

British people admit being uncertain about how to correctly dispose of waste. When 'unsure', only 33% of them take the time to look up before throwing items in the bin. Unsurprisingly, recycling rates are low and contamination in the recycling bin is high with significant costs for the society and the environment.

How to overcome the barriers to recycling and achieve truly sustainable waste management in all households? Our mobile app, WasteGuru, provides



absolute clarity on what goes where whenever you need. By

matching a product's barcode with the user's geolocation, the app gives a unique answer on how to sort each piece of packaging material. Our database contains 1.5M products and it is growing daily.

WasteGuru helps tackle the key issues in the recycling process: lack of knowledge, transient population, cultural and language barriers. The app already speaks 10 languages.

With WasteGuru users recycle better and more while local authorities, businesses and universities manage their waste in a more responsible, sustainable, and cost-effective way.

M 07375 863033
donata@waytoeco.com
www.waytoeco.com

Fire Shield Systems Ltd

Experienced fire protection providers Fire Shield Systems Ltd/Dafo UK & Ireland are committed to finding the solution that fits your fire risk. We specialise in the design and installation of bespoke fixed and mobile fire protection systems across the waste to energy and recycling sectors covered by a wide range of 3rd party and type tested approvals. As well as being the exclusive distributor of the Dafo Vehicle Protection System which is specifically designed, manufactured and accredited for heavy plant and machinery we also offer a range of Watermist, Deluge Waterspray, Medium expansion and Compressed air foam Systems and Fire Fighting monitor and hose reel systems.

At Fire Shield we have forged strong relationships working with a number of national and international manufacturing partners recognised within the firefighting industry, allowing us to offer a broad range of solutions tailored to suit individual client requirements.

Our team will visit your site and carry out a free no obligation assessment to gain a detailed understanding of your operational requirements and environmental considerations and to understand day to day factors that may affect risks to your business. Following consultation with yourselves and considerations to external authorities' requirements we will present options for your consideration. Our service is individually tailored from design to installation and on-going service support. Based out of our facility near Grantham in Lincolnshire we have fast effective UK wide coverage with our expansive fleet of engineers and vans. We understand the pressures on time and systems across a number of operations and therefore pride ourselves on our efficiency, fast response and the highest levels of



fire engineering experience.

Our solutions are recognised by insurers and government bodies for industrial applications covering IR3 flame detection, spark and ember detection, thermal imaging, linear and heat detection among others. We offer various active suppression agents including Forrex vehicle fire protection, foam, water mist, water spray, aerosol & novac depending on the risk type.

We know the key to success is working with our customers to understand their specific requirements and then providing a bespoke solution that works for them on reliability, cost and aftercare service. That's why we are leaders in fire protection!

T +44 (0)800 975 5767
sales@fireshieldssystemsltd.co.uk
www.fireshieldssystemsltd.co.uk

Plastic Oceans

The Plastic Oceans Foundation was founded as a UK registered charity in 2009 by Jo Ruxton and Sonjia Norman. We were the first charity in the UK to focus on plastic pollution and our mission

is to raise awareness of the problem as a call to action to protect our beautiful and vulnerable oceans. We believe that raising global awareness of the effect of plastic waste on the environment is the most powerful way to create behavioural change in business, industry and with the public.

Our first education tool was the production of our multi-award-winning documentary feature film, 'A Plastic Ocean', which was produced by our CEO, Jo Ruxton. The film has been screened in more than 60 countries and has been translated into 15 languages; it has helped to create a wave of awareness around the world and focus attention on a problem that, we believe, is possible to solve within a generation.

We are continuing our work in three main programme areas, Education, Sustainability and Science. Our document, 'The Science Behind the Film', downloadable from our website at: www.plasticoceans.uk is an essential guide to the problem, its potential effects on human health and what we can do to prevent it.

www.plasticoceans.uk



Let's stop plastic reaching the ocean within a generation

Plastic Oceans UK was the first charity focused on plastics, and have been experts on the issue for nearly a decade

PLASTIC OCEANS

www.plasticoceans.uk

Photos: David Jones

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Fire Shield Systems Ltd/Dafo UK & Ireland design, install and maintain bespoke accredited solutions for fire protection across a number of high risk industries, specialising in the waste & recycling and fuel to energy sectors.

Fire Shield Systems is the exclusive distributor and service provider of the Dafo Vehicle Fire Protection system, which is third party tested and accredited specifically for heavy plant and machinery.

Based out of our facility in the East Midlands, our expansive fleet of engineers and vans gives us fast, effective, UK-wide coverage. We understand the time pressures our customers operate under and therefore pride ourselves on our efficiency, fast response, and the highest levels of engineering.

Contact us for your free quote:
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DBS Processing

DBS Processing is delighted to announce its latest mobile screening unit. The introduction of the Ultra Sep 325 dual screening unit allows it to offer its customers not only optimised efficiency but an instant and significant reduction in both initial investment and ongoing operational costs.

Managing Director, Steven Garcia, said, "With the rising cost of disposing of waste material in the industry, we have designed and produced the very best in mobile screening machinery, aimed at providing our customers with an all in one dual screen, versatile, compact and mobile



machine. At DBS we are dedicated to offer the best solutions at the lowest price."

The Ultra Sep 325 is practical from start to finish, with its

'plug and play' design and being easily transportable using a hook lift vehicle. Using two stage separation the Ultra Sep 325 is a truly versatile unit suitable for many applications including: Rag and Grit removal from sludge; Pre-screen prior to centrifuge; Post digester screen; Screen for river dredging; Digester and Lagoon cleaning; Mobile dual sand plant; Tanker waste dewatering screen and many other waste water treatment applications.

To book a live demonstration or for more information, go to: www.dbsprocessing.co.uk/325 or call 01773 687090.

Mechtronics Ltd

Mechtronics Ltd is one of the leading manufacturers of conveyor scales for fixed crushers, screeners and fixed conveyors for the Recycling industry.

We saw a huge interest & subsequent demand all across the UK for our 'ROLLER SCALES', showcased at RWM 18. 'ROLLER SCALES' with its worldwide patent makes it possible to weigh on slider beds and conveyors with centre rollers only.

As it was not possible to weigh on this type of conveyor without major changes required to your set-up or reducing the accuracy of your production, Mechtronics designed and developed ROLLER SCALES.

Set up of the ROLLER SCALES is simple: Replace your existing centre Roller with the ROLLER SCALES and connect the cable to the back of the control box. When connected to our Multitrack



control unit our Multitrack monitoring application will greatly improve management and control of your daily production.

Get all your daily reports and productions statistics sent directly to your smartphone or tablet.

Mechtronics Belt Conveyor Scales – Accurate, Easy to use Conveyor scales giving you a complete management solution for your Recycling Plant.

Contact
T +353 (0)45 892 777
info@mechtronicsltd.com
www.mechtronicsltd.com

M&CCE & Flood Expo Review Top 20

Welcome to M&CCE Expo 2018

The Marine & Coastal Civil Engineering Expo, held at Birmingham's NEC from 12-13 September 2018, provided marine and coastal engineers with the largest platform in the UK to discover the concepts shaping their sector.

Packed with 150 innovative suppliers and 80 expert-led seminars, M&CCE Expo was a once-a-year chance to join the world's leading coastal engineering companies and brightest minds under one roof – offering the unique opportunity to find, learn about and purchase the infrastructural and engineering solutions transforming coastal and marine projects.

There have been conferences dedicated to the sector before, and there have been trade shows too, but there has never been an event combining such a comprehensive educational programme with a line-up of the sector's most cutting edge exhibitors.

And for the first time ever, M&CCE Expo ran side-by-side with four other world-class environmental exhibitions in 2018; with RWM, Future Resource Expo, The Flood Expo and the Contamination Expo Series attracting a combined audience of more than 20,000 environmental professionals.

The M&CCE Expo is back this year on the 11th and 12th of September 2019 at the NEC Birmingham, but there is another Expo before then from 11-13 June 2019 at Mayflower Park, Southampton.

This is our pick of the best exhibitors from last year's NEC show, listed here in alphabetical order: Future Aerial Innovations, Markham Global, SoluForm & SPI Piling. Further details can be found below.

Contact
www.mcceexpo.co.uk



SoluForm

SoluForm, a division of Hoben International Ltd, manufactures and distributes a range of concrete filled bagwork products for the hand placement of concrete for a range of civil engineering applications, both in and out of water.

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T 01629 541067
sales@soluform.co.uk

Future Aerial Innovations

With a wealth of experience working with some of the biggest engineering and construction firms on ground breaking projects, Future Aerial is the UK's premium drone service company. Working within the marine coastal and flood, infrastructure and construction sectors with a focus on mapping and surveying for tier one clients, Future Aerial uses advanced imaging techniques to deliver millimetre accurate digital reality models for a broad range of uses.

Future Aerial has been pioneering the drone data space for over 5 years and during that time have been involved in several industry firsts, working with such projects as Crossrail, HPC and HS2 to create digital models and provide measurable clarity for analysis and monitoring.

Future Aerial understands the challenges and opportunities facing our partners, working with public and private sectors to identify, plan and deliver accurate data for complex projects. With a proven track record Future Aerial can help



transform projects using information-rich data to track and visualise progress.

As well as providing premium services and consultancy in the drone space, Future Aerial has developed a software product to handle the complex workflows and compliance that come with running a drone operation – <https://dronecloud.io/> is available to those companies creating drone programmes within their organisations.

Contact
T +44 (0)20 7757 7489
info@futureaerial.com
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Markham Global offers proven but innovative hydrogel concrete additives and treatments to effectively waterproof new or aged concrete structures and limit corrosion to significantly extend their service life in harsh environments. We have



successfully treated over 10,000,000 square metres of concrete on over 5,000 projects.

Please contact us to discuss how we can help you extend the service life of your structures.

T 0333 456 5758
uk@markhamglobal.com
www.markhamglobal.com



SPI Piling

SPI Piling is a leading UK steel piling contractor and its experience in the marine and coastal sector has seen a number of high profile, complex projects completed in the last few years.

Major piling works on the Mersey Gateway crossing and Queensferry Bridge in Scotland have been supplemented by the Pont Briwet road and rail bridge in isolated mid Wales and harbour works at Tarbert and Kyleakin in Scotland.

These projects have been successfully completed using the skills, knowledge and capability of our highly trained people and a modern fleet of piling rigs and equipment.

SPI Piling carries out both temporary and permanent steel piled installations using the wide range of techniques at their disposal. Unbiased professional advice on system selection, project planning and design is provided for the development of best value, cost effective solutions for customers and a design and install service is offered. In-house design engineers work with estimators and operational managers to develop the most economical solution for customers.



Sheet, tubular, Universal Bearing Piles and combi wall construction solutions can all be provided along with the bracing, frames, tie-rods, walings, timber piles and associated timberwork that is generally required.

SPI Piling
T 0845 450 7475
estimating@spi.co.uk

Contact: John Harvey, Head of Business Development, Specialist Services
M 07740 840620
john.harvey@aeayates.co.uk

Honeywell-Elster Metering Ltd



Integrated Biomethane Solutions enable biomethane producers to safely and reliably inject upgraded biogas into the local natural gas grid while complying with all relevant UK regulations.

The global shift in the use of energy from renewable resources has been driving the growth of the biogas market for Elster since 2012; now deployed on 50 gas to grid projects in the UK. Biogas plants and the distribution

networks place increasing demands on gas measurement, particularly on gas quality analysis. In the case of injection systems, gas quality specifications must be complied with and monitored using metrological technology – all this while adhering to official fiscal gas measurement requirements which we are renowned for.

Gas distributors must measure both the quantity and quality of gas before allowing it to enter the grid, or reject the gas if it does not meet quality standards. They also require solutions to control pressure and add an LPG for enrichment and odorant to the gas, which is stipulated for safety reasons in



case of leakages.

If you want to discuss how our fast acting Ofgem compliant Gas Measurement solutions in our fully integrated Grid Injection Solution can assist your project, please contact: andrew.lings@honeywell.com

Arnold Plant Hire

Arnold Plant Hire offer a large range of equipment to support the waste and recycling industry, with the Bio Fuel Industry being an ever growing market, they have a large fleet of equipment ranging from heavy duty tele-handlers, loading shovels, teletruks and materials rehandlers all packaged with reverse fans, tyres that grip on the greasy surfaces and large buckets to support the applications.

With the operations of these sites, having to load on demand, to ensure the process is efficient, the uptime of the products is critical, Arnold Plant Hire

understand this and offer the support to mirror the customers/sites requirements.

Couple the equipment Arnold Plant Hire offer with their flexible approach, getting up and running with these mainly new projects couldn't be easier, allowing the investment to go into the processing plants and not having to commit on equipment that may be right today on start up but the demands of handling within the operation increase so different products are called for, Arnold Plant Hires flexibility allows the customer to do this, no having to contact finance houses for settlements, they are



more than happy to work and grow with their customers.

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www.arnold-plant.co.uk

Energy-efficient, novel digestate reduction with nitrogen recovery

The Vapogant Digestate Evaporator, processes digestate from biogas plants into a highly concentrated fertiliser (ASS). The residual digestate is thickened by removing water under vacuum, together with efficient utilisation of waste heat from the CHP's. This system is a completely closed circuit process, ensuring no emissions, dust or odours are released into the atmosphere.

For more information, visit: www.biogastechnik-sued.de

Sustainability Today Recommends

Flexible film packaging

RPC bpi protec has demonstrated its commitment to environmental stewardship with the launch of two new products that are both 100% recyclable and offer significant sustainability advantages.



X-EnviroPouch is a new film which incorporates a moisture and oxygen barrier into a fully recyclable pouch, providing an extended shelf-life for a wide variety of ambient products such as cereals and pet food. As well as being 100% recyclable X-EnviroPouch delivers additional sustainability benefits by helping to minimise food waste, while the reclosability of the pack provides effective portion control.

Similarly, the new X-EnviroShrink is fully recyclable and also contains 30% post-consumer recycle (PCR), making it fully in line with the latest government proposals for plastic packaging and one of the most sustainable solutions for the collation and multi-packing of goods.

Both product developments demonstrate a focus on sustainability with no compromise on performance, which is core to RPC bpi protec. As part of the bpi group, the company reprocesses over 120,000 tonnes of UK waste from industrial, commercial and domestic sources, making valuable second-life products and playing a key part in delivering on the requirements of the circular economy for plastics.

"Sustainability is fundamental to our business as we focus on initiatives that reduce waste in all forms. X-EnviroPouch and X-EnviroShrink are great examples of this approach and highlight how, through innovation, we can create products that help to protect the environment and support the requirements of the circular economy," comments David Lumley, Managing Director of RPC bpi protec. "We see tremendous interest across the market and look forward to delivering the protection, functionality and cost-effectiveness that customers demand for their packaging all from our fully recyclable and sustainable film solutions."



T +44 (0)151 482 8849
www.rpc-bpi.com

Pulling power boost

Kobus Services, a firm specialising in utility pipeline replacement technology, has launched its 400 Series Pipe Puller, which is said to provide a state-of-the-art solution for quickly and effectively removing and replacing service pipes.

The system requires two excavation holes, no larger than 1m x 1m, to extract an old pipe while towing in the new replacement. Up to 25m of galvanised iron, copper, lead or poly

pipe can be easily replaced in a single pull (for diameters up to 1 1/4 in).

The 400 Series is designed to operate from the auxiliary hydraulics of a mini excavator. It is said to provide greater pulling power and efficiency improvements for contractors. The unique spool design makes removal of the pipe from the spool after extraction quicker and easier, while the rotatable foot means the puller can be positioned in any direction to suit excavator access.

Simon Drain, Managing Director of Kobus Services, commented, "Capable of replacing all types of service pipes, including galvanised iron, much faster than more traditional methods, the 400 Series Pipe Puller is ideal for cross road applications and replacement programmes. With a number of new features and capabilities, the new system is our most advanced pipe pulling solution yet. Designed in partnership with some of the UK's leading utility companies, we're



confident that our new model will prove popular with contractors nationwide."

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Invisible Systems

Invisible Systems offers a comprehensive range of LoRa RF Wireless energy monitoring and aM&T (Automatic Monitoring and Targeting) equipment to assist you in bringing your energy consumption down. Installation is quick and easy with minimal disruption using a retrofit and, in addition, exception alerts can be sent out via Email or SMS to enable corrective action to be taken, minimising loss.

The new software suite integrates Wireless Sensor Network technology into a single aM&T solution that allows any standard sensors and/or industrial meters (eg. pulsed outputs from electricity, gas, heat, steam and water



meters) to be integrated into one reporting solution that can be used for both analysis and plant energy monitoring.

Invisible Systems offers unobtrusive sensor solutions to wirelessly monitor all energy supplies and offer a

versatile product that enables manufacturing companies to take the first and most important step towards reducing their energy bills.

T 01539 722520
sales@invisible-systems.com
www.invisible-systems.com

Adelphi wins its second Environmental Award of 2018

The Adelphi Group of Companies, based in Haywards Heath, West Sussex, is delighted to have won the Sustainable/Ethical Manufacturer award at the Made in the South East Awards. Adelphi is a specialist manufacturer of process and packaging machinery and equipment, including machinery for filling and capping, and works most closely with the food and beverage, cosmetics and pharmaceutical industries.

"Rewarding excellence in South East manufacturing"

The Made in the South East awards, hosted by Insider Media, are designed to "recognise and reward manufacturing companies based in the South East region that have demonstrated success" in one of their eight categories. The winning entry outlined Adelphi's eco-friendly production facility, The Friary, which was completed in October 2017.

Exemplifying Adelphi's core values, The Friary took into account energy efficiency at every stage of the build, and as a result had eco-friendly LED lighting installed, thermal testing conducted, high quality insulation introduced, and 256 photovoltaic solar panels mounted on the south-



facing roof of the warehouse, which now produce more electrical power than is used. The building was also constructed to harvest rainwater for use in cleaning and plumbing.

While work was underway on The Friary, an old artesian well was uncovered, which was excavated, re-lined and recommissioned. This, along with the harvested rainwater, now serves all the buildings on Adelphi's West Sussex site with water for cleaning and machine testing.

To find out more or to see how Adelphi can help your business, please contact 01444 472300 or email: info@adelphi.uk.com

Energy-saving fouling removal pioneers launch R&D enterprise to mark 30 years in business

Recognised for its world-leading technologies to remove fouling from process industries' most critical assets, Tube Tech International (TTIL) is celebrating 30 years in business with the launch of a new arm that reflects the research and innovation-driven ethos behind the company's success.

Founded in the UK in 1988, TTIL has become the go-to fouling removal service provider and often a lifeline for oil and gas companies, including global majors, experiencing a costly decrease in performance due to fouling build-up within static fired and unfired heat transfer units.

The Essex-born company, now employing 28 members of staff, has delivered unprecedented energy savings to refineries and petrochemical plants spanning Europe, the Middle East, Asia, Australia and the USA – where, in 2018, it launched Tube Tech Inc; a fully owned subsidiary of TTIL based in Houston, Texas.

The firm has also been awarded €5m from two competitive rounds of European Union (EU) research and innovation funding. As part of the EU's current Horizon 2020 programme, TTIL is developing the world's first automated external 'shell side' heat exchanger cleaning system to remove near 100% of previously inaccessible fouling, thereby substantially reducing CO₂ emissions and wasted energy.

From its humble beginnings to the impact TTIL has made on the industry three decades on, founder, serial inventor and CEO Mike Watson (pictured) reflected on TTIL's history. He said, "I started Tube Tech from my bedsit in Shoebury, Essex, where my first job was to invent a self-sufficient machine to unblock a 1km irrigation pipe in a farmer's field without access to any facilities. The following year I worked on a project for a major oil and gas company, then an oil platform, and from there, the rest is history. Innovation was what this competitive industry needed and will always need to dramatically reduce industry's carbon footprint as well as increase efficiency, throughput and profit. There will always be a better solution for fouling removal; which is what has been driving our business for 30 years."



With research and development central to TTIL's global success, the company has marked its 30th year in business with the launch of Tube Tech Research and Development Ltd, a new company dedicated to pushing the boundaries of technology to provide innovative solutions to cleaning in all industrial areas. In addition to self-funded developments, the team is in the champion's league for Innovate UK and EU grant-funded projects.

Industry partnerships have also contributed to TTIL's focus on improving service provision, including recent alliances with century-old leading metal processing company Manoir Industries, and USA-based ParFab Companies; a fabrication and field service company for the global industrial market.

With live trials underway, 2019 will see TTIL introduce the latest ground-breaking robotic fouling removal technology to the market. The next generation robot is highly automated, sensor driven and records images before, during and after the clean. Further details are to be released in January.

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Stainless Steel model shown

China deployment, July 2018

Cheshire-based Arvia Technology Ltd. completed the first deployment their ground-breaking Nyex™ industrial wastewater treatment system to Tianjin, China in summer 2018.

The Nyex™ technology removes hard-to-treat COD (chemical oxygen demand) and colour from wastewater, enabling it to pass China's strict regulations of between 30-50mg/L COD for safe discharge.

The company have since experienced further traction in China and are revisiting Shanghai in February 2019 to conduct their third treatability roadshow in the country. Treatability testing will be conducted on real samples of wastewater to prove the concept of the tertiary technology on the client's own sites.



Nyex™ has already been applied across various industries in China, including pulp and paper, chemical, pharmaceutical and steel manufacturing, as well as landfill leachate which all produce some of the most

challenging wastewaters.

Mike Lodge, CEO, said, "Industrial manufacturers are under extreme pressure to meet effluent regulations in China and are keen to do so in the most cost-effective and environmentally considerate way possible.

"We are delighted at the positive feedback we are receiving on the Nyex™ systems from our clients in China."

The company is based at The Heath Business and Technical Park in Runcorn.

Contact
T +44 (0)1928 515310
info@arviatechnology.com
www.arviatechnology.com

Fast response clears road tunnel drainage pumps

Drainage engineers from Lanes Group plc have been praised for their fast response to help clear water pumps supporting the drainage system of a major road tunnel. Highways England called for assistance from the team at Lanes Plymouth to vacuum water from a sump containing drainage pumps at the Saltash Tunnel.

The pumps were at risk of failing due to a blockage caused by a build-up of debris washed off the busy A38 dual carriageway which runs through the tunnel. The depot received the call at 2pm and jet vac operators Brendan Parsons and Ben Parry were on site at 7pm, with Ben coming off a day's holiday to assist Highways England.

Julian Mitchell, Service Manager for Tunnels



and Structures for South West Highways England, said, "The Lanes operatives were very helpful, professional and safety-

conscious throughout. The fact that a member of the team came in on his holiday speaks volumes about his commitment in assisting us with this important maintenance work. Sump pumps like this can become compromised, especially by litter washed into highway drains over time. There was no risk of the road flooding, but it was important that we ensured the pumps were working optimally."

Brendan and Ben used their recycler jet vac tanker to remove an estimated 30,000 litres of wastewater that had built up inside the 55,000 litre cylindrical sump which was 12 metres long and four metres high.

T 0800 525 488
www.lanesfordrains.co.uk

EMEX: Reduce your energy use

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

EMEX, held at London's ExCeL from 21-22 November 2018, connects all industrial and commercial energy consumers with leading experts, policy makers and suppliers. EMEX is more than just an event. It's a platform where practitioners and experts from various backgrounds and sectors are coming together to share their knowledge and experiences from successful implementations of energy efficiency strategies.

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

With this broader view, it is possible to develop



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

Next year's EMEX takes place from the 27 and 28 November 2019 at ExCeL, London. This is our pick of the best exhibitors from last year's show, listed here in alphabetical order: Ampower, arbnco, EDF Energy, ESB, LaminaHeat, Optima Energy Systems Ltd, SMS Plc, Space4Climate, 2G Energy, VERDE LED & VINCI Facilities. Further details can be found on this page and the next.

www.emexlondon.com

The A B C of energy management

arbnco recently exhibited at the EMEX conference, where we spoke to energy managers about the smartest way to manage estate-wide energy performance and defined the approach into three key considerations.

Asset – When it comes to assessing the efficiency of the building fabric and equipment installed, lighting should be a key consideration as it is one of the most cost-effective ways to improve energy efficiency. arbn lighting is lighting as a service, fully funded with no installation or on-going maintenance costs, offering clients the highest quality lighting at the highest efficacy rates. The payback is made on the savings achieved on energy bills, which is split between the client and arbnco.

Behaviour – The greater the understanding of how occupiers actually use the building, the more informed decisions can be made on the best way to avoid wastage and save money. arbnco's software arbn well monitors the effect the indoor environment has on its occupants by combining hard data collected via sensors with human feedback, to understand what the optimum comfort levels of each parameter are. This ensures that the indoor working environment is as conducive to good health and wellbeing as possible.

Create – Onsite energy generation can be an overwhelming consideration because of the various renewable technologies to consider alongside funding,



feed in tariffs, timescales and other key considerations.

arbn renew helps organisations make better decisions on renewables. It generates a commercial report in minutes, meaning that no time is spent manually working out the business case for adoption. The first stage feasibility study analyses seven different renewable technologies, based on location, geometry, and consumption of heat and power. It produces full financial assessments, identifies energy cost and carbon savings, and figures out the optimum combination of renewables to give organisations the best financial return.

spreece@arbnco.com
www.arbnco.com

VERDE LED

Founded in 2010, VERDE LED is now an established force within the LED industry both in Ireland and abroad, and is one of the leading commercial LED Lighting manufacturers and suppliers in Europe. VERDE LED has a global presence in the medical, pharmaceutical, industrial, food processing, warehousing, retail, sports and commercial/office sectors.

The company has an in house design team who specialise in lighting design for new or existing facilities and a dedicated R&D Department optimising product development to ensure that we continue to manufacture premium grade product with the highest quality components and efficiency.

The company offers a wide range of energy saving lighting solutions using premium LED chip technology primarily for commercial & industrial purposes. All VERDE LED products come with industry leading warranties and meet the most stringent specification and certification requirements. We are also a Carbon



Trust Accredited Supplier.

VERDE's products offer huge energy usage savings, more effective lighting, and a much longer life cycle, leading to significant cost savings (up to 80%), and short payback periods.

For more details, contact us on +353 21 486 1577 or +44 (0)203 086 7405 or email: info@verdeled.com or head to our website at: www.verdeled.com

2G Energy

2G Energy AG is one of the world's leading manufacturers and solution providers of Combined Heat Power (CHP) systems with a turnover in excess of €200m.

Based in Heek, Germany, 2G manufactures its own engines from 20kWe up to 550kWe, and container solutions up to 2.5MWe.

2G offers CHP supply only, full turnkey and asset care packages through its subsidiaries and partners in the UK, Europe, USA and Asia.

2G Energy Ltd, the UK subsidiary, has installed and provides full service support to well over 200



biogas/natural gas CHPs across the UK/Ireland. Since our incorporation in 2011 we have grown our specialist team to over 35 full time employees and this is expected to continue. 2G UK projects range from 20kWe to 15MWe across leisure centres, hotels, hospitals, anaerobic digestion plants, manufacturing and industrial sites.

2G has a strong focus on R&D to maximise life cycle benefits for our customers.

Key benefits of a 2G solution include:

- ▼ **My-2G** – Cloud-based portal for client/2G remote access, transparency, trend analysis and reporting.
- ▼ **2G Master Control System** – client/2G visualisation & control of complete scope of supply, eg. steam boiler, absorption chiller, exhaust heat exchanger, etc.

Call Ian Forsyth: i.forsyth@2-g.com or Martin Kenzie: m.kenzie@2-g.com or call 01928 718533 for further information.

Smarter energy for a sustainable future

By Vincent de Rul, Director of Energy Solutions at EDF Energy



We were delighted to exhibit at the last EMEX event where we talked to business and industry colleagues about the importance of flexibility services like Demand Side Response (DSR) in the transition to a more sustainable future. As well as incentivising businesses to become greener, DSR ensures the grid can manage fluctuating energy generated by renewable sources such as wind and solar.

As the government continues to incentivise low-carbon businesses through grants and investments, DSR can form a key part of business energy strategy. Businesses can generate revenue through DSR schemes, supporting the grid in peak times by shifting or reducing their energy usage – or, better still, switching to onsite generation.

One of the simplest ways manufacturers can generate revenue is by turning off, or pausing, those industrial processes that can be interrupted while energy tariffs are high, then bringing them back online during periods of lower demand.

Most businesses also have latent capacity in existing assets that do not require operations to be disrupted. For example, backup generators can often be monetised with the help of an energy aggregator, similar to our PowerShift platform, which enable users to control, trade and optimise their assets.

Flexible energy usage is the key to more sustainable business; not only does it offer companies the opportunity to reduce their carbon footprint, but also gives them a competitive edge in the marketplace.

For more information, call us on 0800 068 7171 or email: energysolutionsales@edfenergy.com or visit: www.edfenergy.com/energysolutions

ESB

ESB is Ireland's leading energy company, backed by 90 years of experience in the electricity sector. ESB operates right across the electricity market, from generation, through transmission and distribution, to services and supply.

ESB has invested in flexible and renewable generation assets in the UK for over 25 years.

Building on our strong heritage, ESB has recently expanded into the UK as a consumer and business energy supplier, offering energy services to Industrial & Commercial users, competitive electricity and gas offerings to residential consumers and rapid electric vehicle charging



to Taxis and the public in London & Coventry.

For large energy users in the UK, ESB's Smart Energy Services offers energy consultancy and solutions to dramatically reduce energy costs, carbon emissions and consumption. Our Smart Energy Services Team work in partnership

with businesses across the Retail, Manufacturing, Public Sector, Pharmaceutical, agri-food and Commercial sectors to implement funded energy solutions without the need for upfront investment. With our team covering a range of disciplines and backgrounds, ESB provides expertise in energy supply, sustainable technology, systems and project management tailored to the needs of large business.

To learn more about how ESB's Smart Energy Services funded solutions can help your business to unlock energy savings, visit: www.esbgroup.co.uk/smartenergy or email us at: smartenergyservices@esbgroup.co.uk

Space4Climate

Space4Climate is a public-private-academic partnership working to raise the profile of, and support, the UK's world-leading climate community in delivering, sustaining and making use of climate information from space. Our collective ambition is that the UK leads the world in trusted climate expertise and products.

Space4Climate builds on the UK's expertise in climate datasets derived from space assets. We work collectively to identify user requirements and to facilitate UK-derived climate services development for global economic and societal benefit.

We do this by coordinating activities, expertise and resources across our partners to:

- ▼ **Expand market uptake domestically and internationally** – raising the profile of UK expertise and brokering new market growth opportunities.
- ▼ **Sustain and grow the network** – expanding our community and building capacity.



▼ **Support delivery of a seamless supply chain** – identifying and addressing new requirements and barriers to provision and sustainability.

The partnership includes the UK Space Agency and showcases members' innovative developments such as the Climate Data Store delivered by Telespazio VEGA UK & the Institute for Environmental Analytics' renewable energy planning platform RE-SAT. Space4Climate has co-founded Mesh, a new network for professionals in the UK climate services community.

To find out more, please contact Briony Turner at: B.D.Turner@the-iaea.org

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Leading the smart energy revolution

SMS Plc has been at the heart of the UK energy market for over two decades and is today playing a critical role in decarbonising the UK energy system.

As a major energy services company which places data, technology and sustainability right at the very core of our ethos and business practices, we are committed to delivering the future of smart energy in Great Britain. We fulfil this vision through our unique energy offering, serving energy suppliers, the industrial and commercial sector, and the wider domestic market to realise both the environmental and financial benefits of smarter energy practice.

A trusted energy partner providing an end-to-end service, we connect, own, operate and maintain smart metering systems and databases on behalf of energy suppliers, as well as deliver metering & data, energy management and utility connection services directly to large energy consumers and multi-site organisations.



While proud to be market leaders in each of these areas individually, it is our comprehensive service offering that makes us truly unique in our industry. There are no other UK organisations in a position to offer all these services in-house simultaneously, meaning our customers do not have to worry about finding additional partners to deliver other parts of their energy-related project.

We are the complete energy service.

Contact: Leanne Tomlin, Marketing Manager
T 02920 739500
info@sms-plc.com
www.sms-plc.com

LaminaHeat

After a successful exhibit at EMEX 2018 there has been a significant uptake in interest for sustainable heating solutions. Our most dominant market in the UK is the construction industry, with energy consultants, contactors, developers, housing associations, modular builders, architects, engineers and tradesmen moving from conventional and dated technologies to our novel nanotech low-voltage heating films for their primary heating needs. To emphasise growth and development of LaminaHeat we now supply our clients projects on every continent, with a base-of-operations listed in the UK, Germany, Italy, Spain, Russia, China, South Korea, New Zealand and the United States of America.

In 2019 we expanded our application capabilities with the arrival of our very own 'CERT' (controlled electronic resistance technique) patented technology. This gives us even more control and enhances our ability to manufacture heating films to the exact customer requirements and also boosts production speed. This new technique has been in development for the past several months



and is now being commissioned. We expect to launch this in February '19.

Anticipating the change in SAPs and building regulations for electric heating, we expect to be at the forefront of innovation with efficient, sustainable, renewable-ready heating solutions which can be integrated with BMS and intelligent control systems.

T +44 (0)1269 542123
brichardson@laminaheat.co.uk
www.laminaheat.com

How you can make ESOS Phase 2 work for you...

ESOS Phase 2 is upon us and, if Phase 1 was anything to go by, it's going to be a challenging time for all those who fall under the scheme.

ESOS Phase 1 saw a lack of Lead Assessors leading to last-minute panic, failed assessments, compliance delays and even fines of up to £45,000. Data shows that hundreds of assessments were re-submitted, suggesting poor quality first time around.

VINCI Facilities support many large businesses and recommend that organisations start their ESOS Phase 2 compliance immediately by appointing a Lead Assessor. Get in touch with VINCI Facilities for more details and to discuss your options.

However, ESOS is not just about compliance. ESOS assessments give detailed insights into how your business uses a valuable commodity – Energy.

Done effectively, ESOS Assessments also identify realistic opportunities to deliver significant savings for your organisation that can far outweigh the cost of compliance.



For example, VINCI PLC saved £230,000 in one year alone through implementing our ESOS findings. Our energy specialists developed a series of energy & cost saving measures across buildings, transport and construction then implemented them to great effect, providing a significant return on investment.

So you can become compliant AND benefit too...

Contact: Paul Lynch, Head of Energy & Water Management
paul.lynch@vincifacilities.com
ESOS@vincifacilities.com

Optima Energy Systems

Optima Energy Systems Ltd has been supplying Enterprise level software for Energy Management to major clients since 1989, with over 22,000 organisations and more than 385,000 sites now having their utility data stored and managed on the Optima platform.

After the success of our first EMEX exhibition in 2017, we returned in 2018 with the emphasis on promoting our Visualizer BI and dashboard platform.

Optima Visualizer is a fully web-based, self-service, reporting platform that delivers stunning reports and dashboards that are fully user configurable.

Built on a massively scalable, Cloud based, analytics platform, users can report and analyse their Optima data quickly and easily.

Visualizer provides a rich user experience to discover insights into your data, allowing everyone in the organisation to understand



what's going on.

Managers can use aggregated reports for any number of meters to view the big picture, while operations staff can see what's happening at the most granular level.

For more information on Visualizer or any of our reporting, bill validation, budgeting, tenant billing or contract analysis packages, call 01756 702488, email: info@optimaenergy.net or to arrange a demonstration fill out our 'Arrange a Demo' form at: www.optimaenergy.net

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All of our business tariffs are completely customised, so during the quotation process one of your energy analysts will determine energy consumption requirements and base your tariff on what you personally use. With all of our energy tariffs, there is also the option for renewable energy, which helps to make your business that bit more eco-friendly.

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We pride ourselves on offering our customers with the best customer service, meaning you can get hold of us at any time. Our billing and tariff process is simple and easy to use, so why not switch today and see how much you can save with Ampower.

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Leaders in recycling solutions

This issue of Business and Industry Today has chosen Donasonic as our Recycling Solutions Company of the Month.

Donasonic first formed in 2014, founded by Sean and Susan Cassidy. Donasonic are leaders in waste recycling machinery & bio energy technology, producing waste recycling solutions to fit the requirements of almost all waste streams. By designing for manufacture and utilising state of the art manufacturing techniques, Donasonic provide British design and build quality at prices competitive with Asian markets, sharing the benefits with customers.

A family run business, Donasonic produces customer targeted solutions based on clients' needs, specialising in first rate designs, technology, and a variety of waste material solutions. Speaking on behalf of the company's customer service approach, Craig Langley, MEng, Sales Engineer for Donasoni, stated, "Being family run with a very streamlined business model, we have a very close-knit team. This enables us to be very adaptable and amenable to the requirements of our clients. We appreciate that there is no 'one fits all' solution when it comes to waste recycling and we pride



ourselves on offering a bespoke solution that maximises the value for the client."

With an in-house design team, Donasonic strives to be constantly adapting and provide the best quality solutions for clients. Through their in-house design team, Donasonic are able to invest in expanding their technology to search for the most efficient, cost effective and intelligent designs.

Through the company's locations and partners, Donasonic excel in customer correspondence and global expansion, with a team that speak over 8 languages. With continuous growth being a constant aim for the company, Donasonic strives



on producing full turnkey solutions, which includes the installation, commission and training of all operatives for their machinery and equipment.

The core foundation of Donasonic's business is their design of shredders, granulators and crushers, developed primarily for industrial purposes with their robust engineering and build quality. Within their machines and installations, Donasonic provide tangible assets and new revenue streams which are adaptable for both large and smaller project needs.

Craig added, "We look to provide waste recycling solutions for almost all waste streams. Ultimately, we are looking to add value to waste from which our clients will be able to reap the benefits, whilst reducing pollution globally."

Some of their new featured products debuting this year include the Quatro; A low speed, 4 shaft shredder, and a vertical crusher known as the Hurricane (a 'Big Sister' to the Crossflow machine) which can crush white goods into an output size ideal for sorting and separating into its constituent parts.

With a great platform for networking, Donasonic have attended many trade shows including; Powergen Asia (Jakarta), AWRE (Sydney) and IFAT



(Munich). Enabling Donasonic to expand their client base on a global scale, the tradeshow worked as a successful place to showcase Donasonic's latest products and innovative technology. A noteworthy appearance for Donasonic was at the RWM show in Birmingham, which Donasonic have already booked again for the 2019 show.

For any more information or to speak to Donasonic directly please get in contact using the details featured below.

T 01302 247295
www.donasonic.com



Wind Energy News



MISTRAS



Evaluating the structural integrity of assets within the Wind Energy, Infrastructure and Oil & Gas Sectors

MISTRAS is a leading "one source" global provider of technology-enabled asset protection solutions used to evaluate the structural integrity of critical energy, industrial and public infrastructure. Our services and solutions provide customers the ability to comply with government safety requirements, meet environmental regulations, enhance risk management operational decisions and extend the useful life of their assets whilst improving productivity and profitability.

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