



SUSTAINABILITY TODAY

Issue 420 April 2020

Tel: 0121 550 7510
www.tradexnews.co.uk

energy | water | waste | recycling | sustainability on LinkedIn

Automotive Data Logging Solutions Company of the Month

Leaders in Vehicle Data Logging Solutions

In this issue of Sustainability Today we have chosen Influx Technology as our Automotive Data Logging Solutions Company of the Month.

Influx Technology is a leading global supplier of vehicle data logging equipment. First established in 1999 by Lance Keen (CEO) and Fiona Keen (Company Secretary), Influx Technology provides its customers with data from vehicles for fleet management and monitoring, durability testing, powertrain engineering and component engineering.

"With over 15 years of experience in the field of automotive engineering, our products uniquely offer clients a solution to acquire data from vehicles from a range of sources. We support vehicle networks, automotive protocols, instrumentation and IMU sensors (GNSS, 3D Gyro and 3D accelerometer)," said Lance Keen, CEO.



With a growing global presence,



Influx Technology maintains facilities in Bedford, Millbrook Proving Ground and an admin office in Pottton, as well as offices in the UK, Bulgaria, China and India. "All our colleagues worldwide operate to the highest standards of ethics and we support our global customers with pride," Deborah Hipgrave, UK Manager, stated.

Influx Technology is a global engineering team which provides a range of products and innovative engineering solutions, specialising in the Rebel data loggers and software tools designed for automotive engineers developing powertrain systems, EV engineering and fleet managers. "Our products range from the lower end flight recorders that acquire CAN network data to the more complex vehicle FlexRay networks. Our

products are helping automotive engineers to develop the connected green vehicles of the future," Lance said.

A feat within the company's products is its new ReXgen 2 range of CAN data loggers, a cost-effective powerful fleet data logger range. "The new ReXgen 2 range will bring our vast experience into a new market sector, the lower cost but high performance will make the ReXgen 2 an ideal choice for fleet management systems." Lance continued, "This range of data loggers will support a range of vehicle networks CAN 2.0, CAN FD and LIN. In addition, the ReXgen 2 has a highly accurate GNSS module with dead reckoning. The ReXgen 2 can provide position tracking in tunnels."

In terms of new developments for the company, Influx Technology has recently opened its new sales and support office in Bangalore, India. The office is a great asset for the company, enabling Influx Technology to expand its market presence in India and allowing it to provide India with the benefit of direct local support and engineering.



A few notable appearances for Influx Technology include the Cenex trade show held at Millbrook Proving Ground, which is the company's main show in the UK, as well as the Automotive Testing Expo Show both in India and China. "It is a good



opportunity to catch up with existing customers and we always have enquiries from new potential customers on our products and services," Deborah said.

Speaking of the company's future plans, Deborah told us that, "We plan to relocate within Millbrook Proving Ground. The plan is to have one main office where we can all work together for a tighter, more efficient working relationship. The new office will ensure that all our dedicated team in the UK can build on our existing customer relationships."

T +44 (0)1767 262922
T +44 (0)1525 842504
www.influxtechnology.com

Business News

Saward
Marketing & Events

Mobile Exhibition Units
Corporate Events & Promotions
Roadshow Organisation & Management
Website Design | Show Structures/Show Tents
Graphic Panel Design & Production | PR & Marketing Support
Exhibition Stand Design & Construction

(+44) 7788 660996 | jack@saward-me.com | www.saward-me.com

f t in G+

renewableos.com

ROS RENEWABLE OIL SERVICES
ONSHORE AND OFFSHORE

ROS are the UK's largest supplier of oil products and oil exchange services to the onshore and offshore wind turbine industry across the UK and Ireland.

We have recently expanded our service offering to cover the Industrial and Marine sectors operating our specialised trucks and equipment to carry out gearbox, hydraulic, glycol coolant and transformer oil exchanges.

Supply of consumable products: oils, grease, filters, cleaning rags, oil absorbent pads, disposable gloves, etc. making us your one stop shop for all your industrial servicing needs.

Renewable Oil Services Ltd Mid Williamshaw Old Glasgow Road
Stewarton East Ayrshire KA3 5JR

ON SHORE WIND OFF SHORE WIND INDUSTRIAL MARINE

+44 (0) 1560 485 854
inbox@renewableos.com

Peel L&P

Peel L&P strives towards clean growth as buildings become first in UK to achieve net zero carbon status

At Peel L&P, we are taking action to mitigate climate change and support a shift to clean growth.

11 of our properties are the first in the UK to demonstrate net zero carbon status based on their operational carbon emissions, action taken to reduce those emissions and their renewable energy use. This is verified against the UK Green Building Council's 2019 definition and we will look to increase the number of net zero carbon buildings in our portfolio.

Peel L&P has a long track record of leadership in sustainability as the first developer to achieve the BREEAM communities standard at Media City UK in 2011 and the first major property company to achieve the energy management standard ISO 50001 in 2015.

Our work to reduce carbon emissions is part of a five year sustainability plan which supports The United Nations' Sustainable Development Goals to help create a fair and sustainable planet by 2030.

Peel L&P is also supporting clean growth through low carbon energy projects such as Mersey Heat in Liverpool and Protos, its strategic resource recovery and energy hub in Cheshire.

More at: www.peellandp.co.uk/responsibility

Automation, innovation and emerging technologies

With the rise of connected and automated vehicles, as well as the UK's plans for a zero emissions future, the Cenex-LCV2019 and Cenex-Connected Automated Mobility (CAM2019) events welcomed a record number of just over 4,700 delegates to Millbrook. This was a 9% increase on 2018 numbers, which were themselves a record. Held at Millbrook, Bedfordshire between 4-5 September 2019, the co-located events were opened by Rt Hon George Freeman, Minister of State for Transport.



A new safety regime for self-driving vehicles called CAV Pass was announced by Rt Hon George Freeman, Minister of State for Transport. The new system aims to prevent any defects in driverless cars and provide protection from cyber-attacks.

Millbrook officially opened its Autonomous Village, a new centre for testing connected and autonomous vehicles (CAVs). The Autonomous Village comprises six purpose-built workshops designed to support mechanical, integration and software development for self-driving vehicles, from passenger cars to buses. Parkopedia showcased autonomous valet parking. The demonstration showed Autoware-based software on a Streetdone controlling a vehicle by following waypoints.

The Advanced Propulsion Centre unveiled a new production low carbon biomethane farming vehicle. The bio-gas tractor will help reduce emissions in agriculture. The Niche Vehicle Network announced the winners of its R&D competition. The fourteen winners will share £2.5 million in grant funding to progress their R&D projects.

The two shows return to Millbrook, Bedfordshire, this year from 9-10 September 2020. This is our second pick of the best exhibitors from last year's show, listed here in alphabetical order: LAUDA Technology Ltd, Mersen, Protean Electric & Siemens Mobility. Further details can be found on this page.

www.cenex-lcv.co.uk
www.cenex-cam.co.uk

Mersen EV power management solutions

Mersen offers cooling and bus bar solutions, capacitors as well as regular and hybrid fuses – a perfect combination to integrate all products in perfect harmony in order to offer to the customer a full package, pre-assembled, specifically designed, and perfectly optimised together.



The Mersen offer comprises five dedicated lines of products that serve the EV market: DC-rated fuses for battery and auxiliary circuit protection; DC pyro-based hybrid fuses for advanced battery overcurrent protection; laminated bus bar with monitoring features for battery and inverter connection; battery water cooling solutions; and capacitors (film and electrolytic).

(battery module fuse) that are ultra-fast-acting DC fuses designed to address specific needs in EV/HEV and battery storage systems. With complete protection from 100VDC to 1,000VDC, and up to 600A with minimum breaking capacity (MBC) of less than 3kA for perfect matching with DC contactors, these fuse families have been fully tested in DC conditions to guarantee fast and reliable protection under large

fault currents. Mersen's Xp Hybrid pyro-fuse is part of the Xp series, which is based on a pyrotechnic heart associated with a fuse. It offers very fast operating times, extremely low watt losses, and high cycling performances, up to 1,000VDC. Additionally it has the capability of being self-triggered through its patented technology, which means it does not need any external power in order to operate.

Mersen e-mobility fuse product programme covers DC fuses, up to 1,000VDC, the EVpack-fuse (battery pack fuse) and M-fuse



T +44 (0)1273 425119
www.mersen.co.uk
<http://ep.mersen.com>

Protean Electric

A paradigm shift is underway as the automotive industry is subjected to unprecedented legislative, technological and societal change. Disruptive technology is already breaking down barriers to the roll-out of electrified vehicles and there are opportunities for new approaches to mobility and therefore design, packaging, and powertrain configuration.



For a range of applications, the internal combustion engine will no longer be the primary powertrain as manufacturers and operators require solutions that meet stringent emissions regulations, differentiate them in an increasingly crowded market and provide a host of benefits for their customers.

Protean Electric is an automotive technology innovator and world-leading developer of ProteanDrive in-wheel motors (IWMs). ProteanDrive IWM technology integrates the inverter with the motor assembly to provide a compact electric drive system. The patented

technology exhibits a simple, highly integrated yet flexible design that delivers power with maximum efficiency. Protean's IWMs are ready for volume application in passenger vehicles, light commercial vehicles, modern last-mile transportation solutions and autonomous mobility pods. High-volume, low cost manufacture is enabled through a global network of licensees.

Protean Electric is a subsidiary of National Electric Vehicle Sweden (NEVS) and part of Evergrande Health's 'New Energy Vehicle' Group.

For more information, please visit: www.proteanelectric.com

Siemens Mobility

As a global market leader, Siemens Mobility understands how towns and cities can best use intelligent traffic system (ITS) technologies to help deliver our sustainability, air quality and climate change targets.



Our product portfolio monitors and manages traffic, influences healthier transport choices, reduces congestion and cuts emissions. A sustainable and efficient transport network leads to a cleaner, healthier and more attractive environment.

air zone solutions, to electric vehicle (EV) charging infrastructure and technology for connected autonomous vehicles (CAVs).

Our ITS products are used across the UK and range from urban traffic control and management systems, congestion charging, speed enforcement and clean

With systems featuring in many air quality improvement schemes, we are designing

and delivering Clean Air Zones for cities across the UK. In London, our technology is used in a range of initiatives to improve the city's air quality, with our systems at the heart of the Congestion Charge and recently introduced Ultra Low Emissions Zones. We are also supporting the rapid shift to electric cabs through the provision of high power EV charging infrastructure.

And looking to the future, rapidly evolving developments in connected mobility technology offer huge potential to improve safety, reduce congestion and optimise traffic flow further.

Contact www.siemens.com/mobility

LAUDA Technology Ltd

LAUDA Technology Ltd provides class-leading expertise for applications requiring precise heating and cooling solutions, ranging from -150°C to +550°C. Applicable to multiple product stages, from research and design through to pilot plant, full production lines and quality control, LAUDA Technology Ltd focuses particularly on automotive, aerospace, chemical, biotechnology, pharmaceutical, medical, digital printing and food and beverage application solutions, among others. Highly robust, feature-rich, industry-compliant solutions set us apart, while a reassuringly low total cost of ownership throughout the equipment life provides for a tangible return on investment.



With a 64 year history, and a dedication to innovation and portfolio expansion, recent new products include laboratory freezers, shakers, incubators, and water stills building on the

already highly-capable product portfolio of process circulators, circulation chillers, water baths, tensiometers, viscometers, and contact angle measurement, providing heating, cooling and measurement solutions throughout the product lifecycle stages.

Innovative new product features include remote access via a smartphone or tablet, enhanced cooling capabilities and energy savings of up to 50% compared to similar products, additionally the new water chiller range is fully compliant with the new Ecodesign directive.

T +44 (0)1780 243118
info@lauda-technology.co.uk
www.lauda-technology.co.uk

LAUDA

FUTURE INTEGRATED
The new Integral process thermostats from -90 to 320 °C
T +44 (0)1780 243118 · info@lauda-technology.co.uk · www.lauda-technology.co.uk

"FAHRENHEIT, °CELSIUS, °LAUDA."

New cutting technology solves drain blockages

Drainage engineers from Lanes Group plc have used new pipe cleaning technology to solve persistent drain blockage problems at a nuclear power station. They used two machines – a new Picote mini cleaner and an electro-mechanical cutter – to clear drains in one of the two reactor halls at Heysham power station in Lancashire.

Their success means station workers can be confident that the drains flow freely so they do not have to use contingency measures to take wastewater to a radioactive effluent treatment plant.

The stainless steel 75mm-diameter drains were installed when the power station was built in the 1970s. They are encased in concrete which has made them difficult to keep clean. They are also located within the radiologically controlled area (RCA) of the Heysham 1 reactor hall. This meant the two Lanes operatives had to wear specialist protective clothing and follow strict radiation protection procedures.

The drains, designated as 'active' because they could be contaminated with nuclear radiation, were cleaned in two stages.

First, a Spartan electro-mechanical cutter was used to break through blockage material. The device has a flexible cable with a rotating steel cutting head on the end for scouring the inside of pipes.

Then, the Picote mini cleaner was used to break up the blockage debris and push it into waste sumps, leaving the pipes clear. The device can be fitted with different rotating heads. In this case a flail was used.

T 0800 525 488
www.lanesfordrains.co.uk



Contamination Expo Series Review Top 10

Discover the shows that make up the series



The Contamination Expo Series, held last year at Birmingham's NEC from 11-12 September 2019, is a major European exhibition committed to providing the latest knowledge, products, and innovations to professionals working in all aspects of contamination, from spillage emergencies to air and water pollution prevention.

Across two days, the most ambitious and progressive authorities, and innovators from a variety of contamination sectors, gathered to present the latest equipment, products, services, and strategies in managing, preventing, and recovering from contamination incidents. The exhibition was constructed to provide a platform for the most cutting edge solutions and technology from around the world, while also delivering a leading educational programme from prominent experts in each field through an exclusive schedule of seminars.

The series encompasses seven different co-located events: the Land Remediation Expo, the Spill Response Expo, the Clean Air Technology Expo, the Hazardous Materials Expo, the Nuclear Decommissioning and Remediation Expo, the Geotechnical & Geoenvironmental Expo, and the Waste Water Expo.

The Contamination Expo Series returns to Birmingham's NEC this year from 16-17 September 2020. This is our second pick of the best exhibitors from last year's show, listed here in alphabetical order: The Fiscal Incentives Group Ltd. Further details can be found on this page.

www.contaminationexpo.com

The Fiscal Incentives Group Ltd

Supporting Brownfield Development with Tax Incentives, the introduction of Planning in Principle for registered brownfield sites and the advance of



Local Authority brownfield registers is good news for the sector. However, the reality is that, despite the introduction of these measures, many brownfield sites, with planning, remain undeveloped due to the costs and risks associated with overcoming the many technical challenges often associated with these sites.

The Government help support the development process by subsidising remediation costs through tax incentives. At a headline level a developer or housebuilder can recover c.10% of their remediation costs through a reduction in their corporation tax payments whereas a company developing to hold the land as an investment can recover closer to 30%. These are generous subsidies and yet remain significantly underutilised due to a combination of misconception and lack of awareness.

The Fiscal Incentives Group supports many of the UK's national housebuilders, and developers of complex sites, to access these tax incentives and to streamline the process for making claims on an annual basis. Our team has prepared claims in excess of £3bn since the relief's introduction in 2001, contributing over £400m of cash back into our clients' businesses.

Contact: Ben de Waal, Managing Director (pictured)
T 0121 455 5090
M 07980 234759
Ben.dewaal@tfigroup.co.uk
www.tfigroup.co.uk



SPECIALISTS IN WATER BOREHOLES AND GROUND SOURCE HEATING

Ground Source Heating - Get Paid To Heat Your Own Home

Earn cash via RHI payments with a Ground Source Heating System

- Water Boreholes
- All Existing Boreholes Maintenance and Servicing
- Water Treatments

Visit our online shop and see our huge variety of pipes and fittings



WE WILL BEAT ANY LIKE FOR LIKE WRITTEN QUOTATION*

* SEE WEBSITE FOR TERMS



For more information about our services, please call today **01824 707 777** or visit our website on: **www.dragondrilling.co.uk**

Powering the energy system of the future

Solar & Storage Live, held at Birmingham's NEC from 17-19 September 2019, is the UK's most forward-thinking, challenging and exciting renewable energy show. The event celebrates the technologies at the forefront of the transition to a greener, smarter, more decentralised energy system.

The exhibition is the UK's largest renewable energy marketplace, hosting over 150 exhibitors from across the globe, generating solutions to help power the energy transition. This is where key stakeholders within the energy value chain

are brought together with the innovators and disruptors to showcase their technology and service solutions needed to enable change at this critical time.

Old supply and demand models of power have already undergone a fundamental change due to technological advancement. In 2018, solar contributed to 31% of global generated power and will only increase along with co-located technologies.

However, the electricity produced by renewables

is not always completely dependable, especially solar being largely dependent on the weather. This is where storage comes in – stabilising the fluctuations in supply and demand.

Solar & Storage Live will return to Birmingham's NEC from 15-17 September 2020.

This is our pick of the best exhibitors from last year's event, listed here in alphabetical order: Cambridge, Erova Energy, Halse Solar Limited, Midsummer, SRS Works Ltd & Utiligroup. Further details can be found on this page.



www.terrapiinn.com/exhibition/solar-storage-live

Cambridge: Flexible hedging

With increased levels of economic and political uncertainty, foreign currency markets can be volatile and unpredictable. For solar importers and exporters with foreign currency exposure, planning and forecasting can therefore be a challenge.

Foreign currency hedging is one way a business can protect itself from fluctuating currency rates, providing you with peace-of-mind. No matter what happens, you are protecting your profit margins and providing your business with the certainty it needs.

When it comes to considering this area of finance, it can be difficult to develop a FX risk-management strategy without looking at multiple ideas.

Cambridge has the capabilities to provide a range of Flexible Hedging Contracts that can allow for out-performance of the current inter-bank market, can provide potential rebates should the market move in your favour, and even the potential for both.

If you are currently protecting, or are looking



to protect your business from currency volatility and the impact it can have on your bottom line, feel free to reach out via the contacts below for a free consultation on how we can potentially add value to your current arrangements.

James Campbell
jcampbell@cambridgefx.co.uk

Jake Murray
jmurray@cambridgefx.co.uk

Erova Energy

Erova Energy was established in 2015 and quickly became one of the leading short-term power traders in Europe, operating across the UK, Ireland, Germany, France and the Netherlands. An investment from the A-rated Japanese conglomerate, Mitsui & Co, followed in 2018.

Having created a bespoke trading platform with 24/7/365 operation capabilities and trading across the full energy spectrum (power, gas and certificates), Erova is able to provide generators with a range of trading services, from traditional PPAs through to flexible route-to-market trading arrangements.

For any independent generator or supplier, Erova's virtual trading desk removes the risk, complexity and collateral required to directly



access the market.

<https://erovaenergy.com>

Top 10 Exhibitor at Solar & Storage Live

Midsummer celebrates 10 years as a wholesaler of renewables this year.

With a background in off-grid solar and the installation of domestic and commercial PV, Midsummer has since focused on distribution to become one of the largest wholesalers of solar PV, battery storage and EV chargers in the UK.

Now with a team of over 30, and a new Dublin-based operation launched in 2019, Midsummer has been going from strength to strength.

This is thanks to a focus on customer service and technical knowledge. Having been on the tools, the Midsummer team knows that accurate information and reliable service are crucial.

With several full-time developers, Midsummer is also unusually techy for a distribution company. The web-based PV design software www.easy-pv.co.uk is developed by Midsummer, and fully integrates with its online ordering platform.



In-house tech also helps streamline operations – along with some large-scale purchasing via well-chosen suppliers, this allows Midsummer to offer competitive trade prices to installers PV, storage & EV chargers on a wide range of products.

Look out for Midsummer at Solar and Storage Live 2020. Register for trade access at: www.midsummerwholesale.co.uk or try out the software at: www.easy-pv.co.uk

Getting in touch:
T 01223 851535
trade@midsummerenergy.co.uk
Or drop in to visit in Cambridge or Dublin

SRS Works Ltd

SRS Works Ltd has been established for 6 years, initially focusing on the Renewable Energy and FM Support sectors. SRS Works began in earnest at Heathrow, establishing an office and warehouse on the perimeter and grew a team of skilled electrical engineers headed up by John, our Airports Director.

As this site flourished, we had more enquiries about Solar PV and realised that Renewable Energy and Sustainability were not just buzz words but sectors we needed to pursue. SRS Works has now established a dedicated Solar PV and Battery storage team in Retford.

From our Retford office and warehouse, we provide solutions, quotations, designs, project management, distribution and installations – basically anything involving renewable energy can be supported and provided from our Retford Office.



Our dedicated, inspired, professional, skilled experts will provide you with a bespoke solution to suit your requirements. Please contact us for further information.

T 01189 739706
info@srsworks.co.uk
www.srsworks.co.uk

Halse Solar Limited

Halse Solar Limited is the UK and Ireland importer for Sunbrush, a German built Solar Panel Cleaner. The first Sunbrush was built in 2008, and there are now around 400 operating worldwide across 40 different countries. The Sunbrush is primarily a tractor mounted cleaner with high output compared to hand cleaning methods. It has a built in float system which keeps a constant yet limited pressure on the panels. This enables a thorough clean across the panel array, whilst ensuring there is no damage.

Halse partnered with Sunbrush in 2018. The UK has an established solar cleaning industry which almost exclusively uses Sunbrush machines. Halse Solar provides sales, spare parts and service from its farm machinery dealership, Halse South West, which is based just outside Exeter, Devon. With over 20 mechanics and large supply of spare parts in stock, it is well placed



to respond quickly to any emergency. Halse has partnered with Moorend, importers of the Norcar, and Multihog, who can both supply specialist carrier vehicles.

Contact: Edward Halse, Sales Manager
T 01404 519090
ed@halse.co.uk
www.halsesolar.co.uk

Utiligroup leads the transition to smarter energy and a sustainable business

At Utiligroup our mission is to make energy smarter for everyone. As energy competition evolves, new suppliers have increased their market share to over 30%. We facilitated the entry of over 60 suppliers and meter agents for residential and business customers through our expertise and software value. Effective competition provides a basis for the next shift towards smarter, flexible energy, starting with smart meters where over seventy companies use our software.

As customers start to adopt their own microgeneration, storage and electric vehicles, it opens up the potential of smarter, personalised tariffs & reward for flexibility in energy use. We are engaging with those pioneering the next basis of energy as it converges with low carbon

mobility about their new service platforms.

Utiligroup joined the Low Carbon Vehicle Partnership and various electric vehicle groups. We are committed to reducing our carbon emissions and improving our sustainability. In delivering this, we are proud to be one of the first Lancashire businesses to install on-site EV charging facilities and our energy is from 100% renewable energy sources. We also moved away from outdated giveaway items and now provide sustainable wildflower packs to help support the bee population. Working together, let's make energy smarter and more sustainable for everyone.



An ESG Company

www.utiligroup.com
@Utiligroup
Linked In: Utiligroup



Clients delighted with water saving

In the few months since launch, our new Waterblade Easy is already installed and saving water, energy and money for clients from Airbus to Unilever, giving a ROI of under 6 months installed. Nigel at Waterblade says, "It's really very straightforward. Firstly, we send you a sample to fit (in minutes), establish compatibility and assess. Secondly, we provide whatever product and case study data is required to complete the business case. Thirdly, fit to all the washroom basins."

The Waterblade is easy to fit and WRAS approved.

nigel@bamfordwaterblade.com
www.bamfordwaterblade.com
https://youtu.be/EZyJ9ZcVR18





National Sewerage Association

Working to Raise Industry Standards

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

Standards
Pro-active in setting and maintaining training standards within the industry. Representation on standards and parliamentary committees and regular consultees on a broad range of Legislative and Regulatory matters.

Members
Our members range from sole proprietors to divisions of public companies providing services such as:

- CCTV Inspections
- Sewer Flow Surveys
- Systems survey and Mapping
- Drain and Sewer Cleaning
- Equipment Manufacture
- Training

For more information visit our website: www.sewerage.org or call Val Gibbens on 020 8330 0123

Spiral or corrugated tube heat exchangers – which is best for wastewater treatment?

Spiral heat exchangers have become synonymous with the treatment of slurries and wastewater, materials which have a high fouling risk, are viscous, or which contain fibres and solid materials. However, in many situations the performance of a corrugated tube heat exchanger is equal to or better than that of a spiral design. Not only that, but corrugated tube designs provide a number of additional advantages in terms of day-to-day operation and maintenance.

While some of the benefits claimed for SHEs hold true when they are compared to smooth tubular heat exchangers, the benefits diminish when compared to corrugated tubes of the type used by HRS Heat Exchangers, in the DTI Series.

Unlike SHEs, the tubes can easily be removed for inspection, cleaning and maintenance



The HRS DTI Series has a proven record with difficult materials such as sludge and digestate



The HRS DTI Series of corrugated tube-in-tube heat exchangers is ideal for sludge applications

and a variety of flange connections are available. The unit is also made in easy-to-replace sections. Should the heat exchanger suffer internal damage, the failed section can be easily bypassed by moving the interconnecting bends; a replacement can be manufactured and fitted when it is ready. In contrast, if a spiral is damaged, the complete heat exchanger must be removed to a workshop where many layers have to be cut out to access the point of failure. This is then re-welded and all the cut away sections must be re-welded into place. The cost is significant and downtime is many weeks.

In many situations, we believe that a corrugated tube heat exchanger, like the HRS DTI Series, is the best solution for challenging materials such as sludge. However, in the most extreme cases with a very high fouling

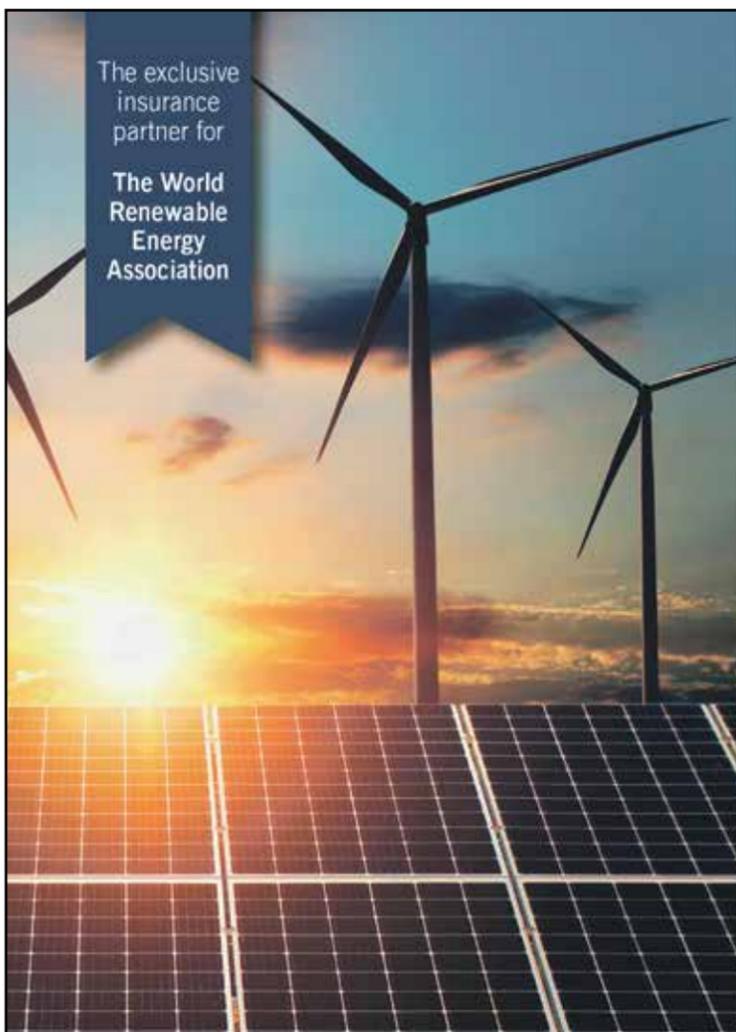
risk, it will be necessary to use a scraped-surface heat exchanger such as either the HRS rotating R Series or the patented reciprocating Unicus Series.

In order to select the best solution it is necessary to accurately assess the physical properties of the product or sludge to be treated, as well as the service fluid, inlet and outlet temperatures and the amount of heat regeneration required (if any). When comparing specifications or quotations for different solutions – for example SHEs compared to corrugated tubes – it is important to make sure that you are comparing like-for-like and that the performance specifications are identical. You should also assess whether any gains in efficiency or lower capital cost will be offset by increased fouling or operational costs over the full life of the unit.

T 01923 232335
www.hrs-heatexchangers.com



Spiral heat exchangers are difficult to clean and service



Renewable energy is a complex business. Insuring it shouldn't be.

Lycetts truly understands the unique elements of running a business like yours. From anaerobic digestion and hydroelectric schemes to wind, solar and biomass projects, we'll ensure your plant is fully covered from construction through to being fully operational.

Lycetts
Insurance Brokers

0191 232 1151 dorothy.pigg@lycetts.co.uk
www.lycetts.co.uk

Lycetts is a trading name of Lycett, Browne-Swinburne & Douglass Limited which is authorised and regulated by the Financial Conduct Authority. Lycetts is a trading name of Lycetts Financial Services Limited which is authorised and regulated by the Financial Conduct Authority.

Proud to protect your business

From waste heat to hot water

Industrial refrigeration systems with air-cooled condensers waste energy by emitting energy to the ambient air, according to SWEF, a supplier of compact brazed plate heat exchangers. By installing a desuperheater, much of this waste energy can be converted to hot water, with a wide range of applications, believes the company.



Brazed plate heat exchangers (BPHEs) are an integral tool that allow extra heat to be extracted from the refrigeration system. A BPHE, called a desuperheater, is inserted between the compressor and the condenser. This enables the BPHE to extract the heat from the gases or liquids before it goes into the condenser to be condensate (the liquid collected by condensation).

Installing a BPHE helps to increase efficiency levels to achieve the demanding recent EU Ecodesign Directives that cover high temperature process chillers. Evaporators can operate at a range of temperature levels to meet the required demands for a variety of refrigerants.

BPHEs offer copper brazing as standard but also stainless steel & nickel as alternative brazing materials to meet the demands for various corrosive fluids.

T 01235 838612
David.gill@swep.net

Oil Removal Company of the Month

Tough products for tough environments

Sustainability Today is proud to announce that Tanky Systems has been selected as our Oil Removal Company of the Month, for its outstanding range of oil separation and removal equipment.

As a part of Border Automation Services Ltd, which was established in 1998 by Garry Frost, Tanky Systems was set up in 2012 and specialises in the manufacture and supply of oil skimmers and oil handling equipment. This includes the Sudraker oil skimmer, which in 2012 had been successfully operating for 12 years but had not had an official marketing launch.

In 2018, Garry partnered with design engineer Rob Bolt to begin a new phase of development for Tanky Systems, with the mission to streamline manufacturing, offer greater oil removal capacities, create a range of bespoke accessories to make installation easy, and to provide effective solutions for oil and solids management.

Based in Bristol and serving the whole of the UK, Tanky Systems aims to supply appropriate equipment, advice and services to anyone with oil separation or removal issues, particularly for



the manufacturing, land management and water treatment sectors. "Every installation is different, and the best installations almost always come as a result of dialogue," Garry explained. "Considerations when designing an oil removal installation could include atmospheric conditions, accessibility, the necessity for weirs or settlement tanks, oil collection and management, fluid transfer and much more. We have the necessary experience to provide advice in a wide variety of sectors."

One of Tanky Systems' key advantages is the reliability of its products in a hostile environment. Its units have been designed and tested on industrial washing machines, where they have to survive typically in hot, chemically rich and steamy locations. Furthermore, Tanky Systems does not consider its skimmer belts to be a consumable item. In fact, the company now offers a 10 year warranty on them, giving its



Tanky Systems also offers its new solids filtration tray, which separates both floating and sinking solids from skimmed oils at the point of removal. "Removing solids from skimmed oils make it easier to pump the oils to a remote location without the risk of blocking up pipework or pumps. An additional benefit is that waste oils without



clients longer term cost savings and reduced production downtime.

A notable member of its product range is the tank-track style polymer belt. This is highly resistant to a vast range of chemicals and oils, is lightweight, and can be easily lengthened or shortened. What's more, the belt does not need a tensioning device to give it drive, an important factor in a wet oily environment, and it can easily be pushed out of the way for tank cleaning.

solid contamination are normally less expensive to have disposed," Garry explained.

After attending the RWM Show in 2019, Tanky Systems listened closely to visitors and identified areas for development moving forward. "Management of solids was an area of interest, particularly for sewerage and high solids content effluent such as the output from fish processing and the like. This can be split into two separate requirements, firstly to be able to remove oil from these environments without clogging, but more interestingly to deliberately remove and manage the floating solids from such environments."

Certainly, Tanky Systems has an exciting future ahead of it, as it continues its work to offer reliable and easy-to-use equipment for oil and solids management. Thanks to its extensive industry knowledge and expertise, Tanky Systems is an ideal source of advice and information and is always happy to talk through clients' specific requirements or issues. Get in touch using the details below to find out more.

T 01179 445175
www.tankysystems.com



Safety Solutions Company of the Month

GreCon – safer people and places and smarter factories across UK & Ireland

In this issue of Sustainability Today we have chosen GreCon as our Safety Solutions Company of the Month for its innovative selection of fire protection and industrial process measurement solutions.

Established in April 1992, GreCon is located just outside of Newcastle upon Tyne and is a member of the Fagus-GreCon Group. With a wealth of experience as a global market leader, GreCon demonstrates a strong understanding of customer needs and provides solutions for a wide variety of industries including wood panel, wood manufacturing, recycling, biomass, pharmaceutical, food and many more.

GreCon's fire protection technology protects industrial premises, process and people, detecting and extinguishing ignition sources, making workplaces safer and enabling uninterrupted production.

GreCon's measurement and inspection solutions help customers to improve product quality in their production processes, using proven German engineering to reduce material and energy costs, ultimately maximising operational efficiency.

"We are a global market leader. Our parent company Fagus-GreCon brought to market the first industrial spark extinguishing system in 1973. Since that time, GreCon's product portfolio has significantly evolved, with continuous investment in R&D. Today customers all over the world rely on GreCon to add vital protection and to help them optimise their manufacturing process." Jonathan Hamill, Managing Director.

With a track record spanning 28 years, GreCon has been successfully providing engineered fire protection and industrial measuring solutions to businesses across the UK & Ireland. Jonathan continued, "We offer turnkey solutions and a comprehensive in-house service, delivered by a UK based network of Engineers."

There have been a few noteworthy developments for the company, Jonathan told us that, "In terms of a refreshed Sales team, we have Tom Burniston (Head of Sales) who re-joined the business in 2019. Tom is known to many of our customers. Nathan Ashford also joined us recently as Technical Sales Manager – Nathan's engineering background will be highly relevant in this role. Beth Williamson joined us during 2019 and was recently

promoted to an inside sales role – Beth looks after business development and sales of critical spare parts."

The company has also recently seen growth after a positive year in 2019. "We achieved double-digit percentage growth last year despite a lot of industry uncertainty surrounding Brexit." Jonathan stated, "This has placed us in an even better position to look after our customers. We have invested in a new remote support solution; Satellite, which allows us to connect to customer systems remotely to provide a faster response & diagnostic service."

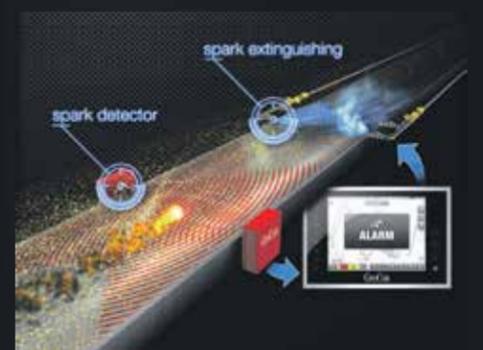
GreCon has also launched the DLD 1/9 spark detector (see left) which provides optimal detection performance for all

ignition sources in any environment, thanks to intelligent detection technology. The DLD 1/9 is a highly sensitive detector which offers a number of key benefits. It distinguishes between dangerous sparks and harmless ambient light. Intelligent detection technology is used to prevent false alarms. Hot particle detection in high-temperature processes is also possible and sensitivity is adjustable for the perfect fit to the individual threat.



In terms of the company's future plans, GreCon plans to continue their organic growth and are looking forward to 2020 after such a successful year in 2019. The company will be exhibiting at the RWM Show on 16-17 September 2020.

T 0191 414 7200
sales@grecon.co.uk
www.grecon.co.uk
www.twitter.com/greconltd
www.facebook.com/GreConLimited
www.linkedin.com/company/grecon-limited



Air Quality Limited

Turbo Visor DTMV 1001 MV with 8HR waist belt mounted battery pack

FOR THE ULTIMATE PROTECTION IN INDUSTRIAL OPERATIONS AND PHARMACEUTICAL SECTORS

- ◆ Orbital sanding of paint on vehicle body panels
- ◆ Orbital sanding of body filler on vehicle panels
- ◆ Brush application of paints
- ◆ Wiping & cleaning vehicle panels with panel wipe (thinners)
- ◆ 6 hour head mounted battery option available

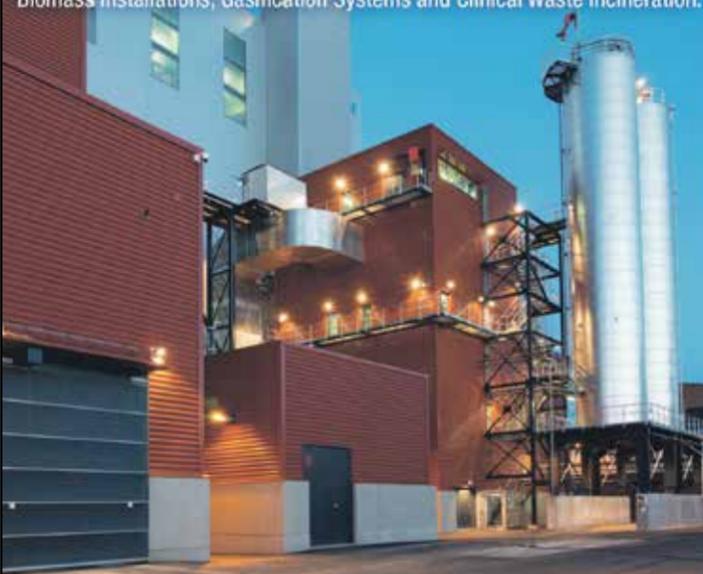


SPECIAL PRICE OF £350.20
(was £553.63) inc. vat & carriage

1 The Courtyard, Dunnings Lane, Rochester, Kent ME1 1YB
Tel: 01634 832895 • Email: info@airq.co.uk
www.airq.co.uk

Engineered for a Cleaner Environment

Total solutions for separation of airborne dusts and fume control. Dry sorption technology for the removal of acid gases such as SO₂ and HCl, dioxins and heavy metals. Vast experience within Waste to Energy Plants, Biomass Installations, Gasification Systems and Clinical Waste Incineration.



Lührfilter Ltd.

Air Pollution Control Technology

Unit 1 Crompton Court | Burntwood Business Park | Attwood Road
Burntwood | Staffordshire | WS7 3GG
Tel: 0121 353 0176 | Mail: info@luhrgb.co.uk | www.luhrfiltergb.com

Ultra 4: The latest revolution

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



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

For more information on the Ultra family, please visit our website at: www.pulsar-pm.com or contact us on +44 (0)1684 891371.

Classifieds

Odour Control Systems



We specialise in low operational cost, small footprint systems for:

- Odour abatement
- VOC removal
- Biogas desulphurisation

+44 (0)1732 700011
sales@csogroup.co.uk
www.csogroup.co.uk

CSO Group
AD & Pollution Solutions

Sensor Technology

"Our Independence is Your Strength"



sensors@alphasense.com
www.alphasense.com

Alphasense Ltd
THE SENSOR TECHNOLOGY COMPANY

Water & Waste Water Solutions

WATER & WASTE WATER SOLUTIONS



ofwb
Pipeline Division

- Flange, Bolt & Gasket Sets
- Ductile Iron Flanged Tube & Fittings
- Couplings, Flange Adaptors & Repair Clamps
- Valves • Mechanical & Electrofusion Fittings
- MDPE Tube • Malleable Iron Fittings • Steel Pipe
- PVC Delivery Hose & Fittings • Bauer Couplings

Contact our technical experts for more information

Whieldon Road, Stoke-on-Trent, ST4 4JE
Tel: 01782 744333 Fax: 01782 744577
Email: sales@fwb.co.uk www.fwb.co.uk

Waterless Wheel Cleaning



The DriveOn V-Tech Dry Wheel Cleaning System from Ecogreen Plant Hire Ltd

0800 1303437
www.ecogreenplanthire.co.uk
info@ecogreenplanthire.co.uk

Ecogreen Plant Hire Ltd
Waterless Wheel Cleaning

Water Boreholes



SPECIALISTS IN WATER BOREHOLES AND GROUND SOURCE HEATING

DRAGON DRILLING
(Water & Energy) LTD

WATER BOREHOLES - NO MORE WATER BILLS!
GROUND SOURCE HEATING ...
LOWER FUEL BILLS ON HOT WATER AND HEATING

Transfer Systems

Process Combustion

COMBUSTION & HEAT TRANSFER SYSTEMS

- Waste to Energy Systems
- Thermal Oxidisers
- Control Systems
- Skid Systems – Pumps, Valves, Pipework



+44 (0)1423 879944
mail@process-combustion.co.uk
www.process-combustion.com

Energy Saving Solutions

Operational solve complex production problems, helping you to save energy, control costs and reduce your impact on the environment.

- Manufacturing Optimisation • Heat Recovery
- Energy Reduction • Environmental Impact Solutions
- Odour and VOC Abatement
- Service and Maintenance Contracts

OPERATIONAL
engineered around you

Website: www.operationalgroup.com
Email: uk@operational.net
Tel: 01928 579473

Water Management



Environmental Construction Solutions Limited

Specialists in Surface & Waste Water Management

Advice - Design - Manufacture - Supply - Installation
Commission - Service - Repair

www.ecs-sales.co.uk | 03456 123332

- Water Boreholes
- Earn cash via RHI payments with a Ground Source Heating System
- All Existing Boreholes Maintenance and Servicing
- Water Treatments

Visit our on-line shop

Dragon Drilling also services existing Water Boreholes and doesn't charge for feasibility studies and estimates

WE WILL BEAT ANY LIKE FOR LIKE WRITTEN QUOTATION*
* SEE WEBSITE FOR TERMS

For more information about our services, please call today 01824 707 777 or visit our website on: www.dragondrilling.co.uk

Electronic Repair

Leading equipment suppliers for air quality monitoring applications

- Ambient Air
- Industrial Processes
- Scientific and Research

ET enviro
technology services

www.et.co.uk
01453 733200 info@et.co.uk

World Leading Environmental Monitoring Systems

Finance

Cash neutral asset finance for your energy needs

For over 30 years AFM Solutions has been offering long and medium term finance for all your sustainable energy needs.

- LED Lighting & Controls
- Solar Photovoltaic
- Solar Thermal
- Voltage Optimisation
- Biomass Boilers
- Wind Turbines (small)
- Heat Pumps
- Building Management Systems

afm SOLUTIONS
FOR TECHNOLOGY FINANCE

Call or email Mike Baker on 01268 572587
mbaker@afmgroup-solutions.co.uk
www.afmgroup-solutions.co.uk

Working hard today to enrich the world of tomorrow

Sustainability Today is proud to announce that Dunton Environmental has been selected as our Environmental Remediation Company of the Month, for its outstanding commitment to enabling and empowering its clients' build sites to help restore and protect the environment.

Established by Neil and Lara Roe, Dunton Environmental is a specialist in solving complex ground problems in the construction and land development industry, challenging traditional thinking and continuously developing new ideas to deliver real programme and cost benefits. With big name clients such as Persimmon, Crest Nicholson, Willmott Dixon, and Berkeley Group, Dunton Environmental has an enviable reputation within the industry, thanks to its admirable mission to 'bring the world to life'.

Based in Walsall, Dunton Environmental's expert services are helping businesses and communities across the globe to regenerate vital natural resources. In the UK, the company is using its expertise to alleviate environmental and financial stress for its customers, working in partnership with them to help achieve their programmes both on time and on budget.

Indeed, Dunton Environmental is of the firm belief that a sustainable environment is not optional; it is integral to the wellbeing of the world today and for future generations. Dunton Environmental is helping to achieve this through a variety of means, whether this is safely regenerating waste material to power nations, enabling sustainable construction projects, or restoring land to support wildlife and communities.

"We offer cost-efficiency through innovation, and we pride ourselves on being able to deliver our projects on programme," explained Jonathan Millington, Marketing Manager. Indeed, increasing numbers of clients are choosing Dunton Environmental thanks to the company's trusted and reliable reputation, with the guarantee that it can turn their build site challenges into their greatest successes.



This is achieved through a range of expert services, including enabling works, demolition, waste management, pile mat installation and management, design, soil stabilisation and ground improvement, soil and water remediation, and earthworks.

Most recently, Dunton Environmental launched the 'D-Found' soil stabilisation process, a cost-effective alternative to piling and trench filling foundations. As one of the construction industry's leading foundation solutions, D-Found has proved to be a simpler and quicker implementation than traditional techniques.



What's more, D-Found's benefits reach further than simply saving time and money. Thanks to the simplicity of remediating and re-engineering natural ground conditions, D-Found is an environmentally friendly solution as well, with all site materials being used to avoid unnecessary disposal of unsuitable or contaminated soil.



As a fully designed and engineered solution, D-Found is a proven system which offers guaranteed structural settlement criteria. Thanks to Dunton Environmental's years of experience delivering foundation solutions, its innovative systems easily meet industry settlement norms and offer clients unmissable benefits.

In order to cope with its continued expansion, Dunton Environmental recently moved into a new head office, Soterion House. After spending 10 years in its previous head office in Perry Barr, the company dedicated 2019 to the refurbishment of its own, brand new and state of the art headquarters in Aldridge. Starting out as an extremely dated building, Soterion House is now one of the most modern, creative and stylish office buildings in the North Birmingham area, after Dunton Environmental's transformational



refurbishment.

As well as a more pleasing work environment for Dunton Environmental's staff, this new larger premises will help to facilitate the continued growth and expansion the company will inevitably see in the coming years.

In addition to its leading efforts to restore and protect the environment, Dunton Environmental also carries out considerable Corporate Social Responsibility work, supporting charities across the world. Indeed, the company believes that it must use its success and position as a platform to change the lives of the world's most vulnerable people and places.

Through its non-profit organisation, Hope Alive, Dunton Environmental provides funding, resources and hands-on time to a multitude of charities covering a vast range of causes. One of the company's recent projects was a Hamper Appeal in December 2019. 15 years ago, Dunton Environmental created the first ever 'Hope Hamper', and since then, funds raised every year by its Hope Alive charity are used

to create Christmas 'Hope Hampers', which are filled with everything needed to create a special and magical Christmas for struggling families.

If you would like to find out more information on everything Dunton Environmental has to offer, and how it can help you solve your complex environmental problems, head to the website or get in touch using the contact details below.

T +44 (0)121 356 4360
info@duntonenvironmental.co.uk
www.duntonenvironmental.com

