SUSTAINABILITY TODAY

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Panasonic HQ Heat Pump Training Centre in Welwyn receives ministerial visit

The Rt Hon Grant Shapps, MP and Secretary of State for the Department of Energy Security & Net Zero, today visited the Panasonic Heating & Cooling HQ and Heat Pump Training Centre in Welwyn Garden City.

Panasonic Heating & Cooling Solutions was pleased to receive a visit from Rt Hon Grant Shapps, MP for Welwyn Hatfield and Secretary of State for the Department of Energy Security and Net Zero, to its Welwyn headquarters to see first-hand the new fully equipped training centre for heating and cooling systems. This visit follows Mr Shapps' recent trip to Japan for the G7 Summit during which time he also visited the Panasonic factory and R&D facility in Tokyo.



Encouraging UK homeowners to switch to low carbon technologies is a key cornerstone of government policy, the Boiler Upgrade Scheme provides upfront capital grants to support the installation of heat pumps and biomass boilers in homes and non-domestic buildings in England and Wales. Panasonic offers support and training for installers looking to fit heat pumps and during his visit, Grant Shapps learnt about Panasonic's latest incentive; a new scheme to encourage installers to train in this new technology, by offering £500 in Rewards on completion of their accredited heat pump training and their first Panasonic installation[1]. The scheme is due to launch in May 2023.

For more information, please visit: www.aircon.panasonic.eu

1 Terms & Conditions apply

UN Certified sustainable corrugated packaging

Cepac Group is one of the UK's leading, most innovative developers and manufacturers of corrugated packaging solutions, supplying a full range of corrugated transit products across a diverse range of market sectors.

From planning through design, testing, certifying and into manufacture, Cepac is the UK's most focused, specialist corrugated packaging producer of robust corrugated transit solutions for potentially dangerous goods. UN Certified and fit for purpose, Cepac uses sustainable, fully recyclable corrugated packaging materials, ensuring your goods arrive safely at their destination.

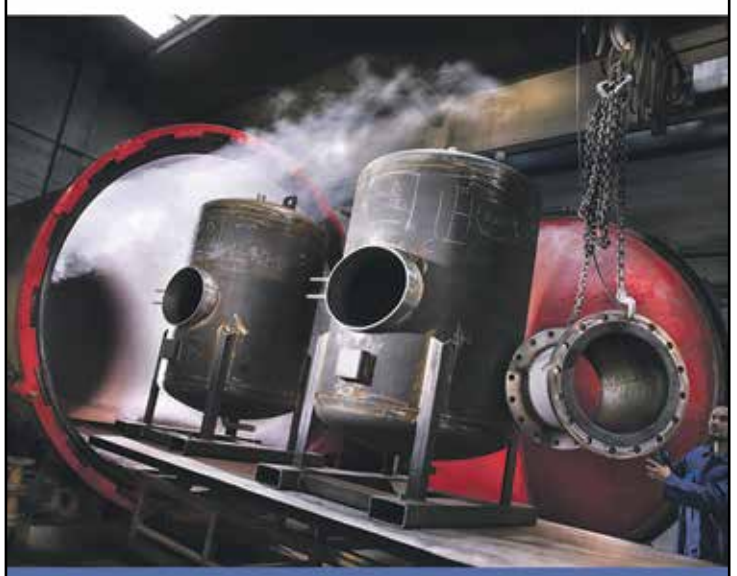
As the UK's most dynamic and innovative manufacturer of complete corrugated packaging solutions, the development and innovation within Cepac's UN packaging range has strengthened the company's offering within the hazardous goods sector. Cepac is able to provide a range of liquid packs for industrial chemicals, agrochemicals, and other applications.



Every stage of the process, from design and development to testing and manufacture, takes place at Cepac's Rawcliffe facility in the UK. With a broad portfolio of corrugated packaging solutions, the company can cater for a diverse range of packaging applications and requirements.

M 07384 215106
Simon.Wardell@cepac.co.uk
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by lightfi

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Shaw Contract EMEA: Enabling a circular economy



Shaw Contract EMEA designs, manufactures and stocks commercial flooring solutions, including carpet tiles and resilient flooring, for the UK, Continental Europe, the Middle East and Africa markets. This year, Shaw Contract is celebrating five years of UK-based manufacturing from its carbon neutral facility in Scotland, which draws 100% of its electricity from renewable sources.

In practise, Shaw Contract is future-focused on decisions that positively impact people and the planet. Its People Together, Planet Forever approach to sustainable flooring solutions is underpinned by four points of ambition: enabling a circular economy; diversity, equity and inclusion (DEI); material health; and reducing carbon impact.

Shaw's newest carpet tile collection, New Path, heralds the next step of a journey to combat carbon impact with the introduction of an innovative new plastomer polyolefin EcoWorx S™ backing that is carbon neutral, closed-loop recyclable and optimised for low embodied carbon. The New Path collection on EcoWorx S™ is produced using EcoSolution Q100™, solution dyed nylon made from 100% recycled content nylon fibre. Inspired by experience, community and diversity, this new Cradle to Cradle Certified® Silver carpet tile collection promotes a sense of belonging and engagement within the spaces where we work, learn and collaborate.

Learn more at: www.shawcontract.com

Futurebuild 2023 wraps up with optimism for the future

Futurebuild, the event dedicated to building a better future for the built environment calls a wrap on its exciting annual industry event held from 7th-9th March 2023. Trailblazers from across the entire built environment came together to take a stand through innovation, knowledge-sharing and networking.

Across the three days, Futurebuild hosted over 17,800 visitors, 500 speakers, 400 exhibitors, 135 sessions, and 90 curators to join forces in creating a more sustainable future. With sustainability a more relevant topic than ever, Futurebuild's expansive exhibition was specially curated to drive change across the entire supply chain through showcasing the best in innovative bio-products and sustainable solutions throughout the whole event.

A showcase that truly makes a difference
In addition to celebrating innovation in sustainable products, Futurebuild wanted to offer solutions which create a quantifiable, positive impact on the environment. As many products



claim to be sustainable, Futurebuild placed an emphasis on providing accurate factual reporting about the green credentials of its offerings.

Staying true to its roots sustainability and innovation ran through every aspect of the show and saw the team launch their Walk the Talk campaign that led to a significant reduction in the event's carbon footprint. Removing the aisle carpet alone (just one of the changes) reduced the event's carbon emissions by 27,707kg. Over the next 12 months the team at Futurebuild will assess what impact the changes had and what more changes can be made to drive even further reductions in 2024.

Stay tuned for more
Futurebuild 2023 ended in the same way it began with an optimistic outlook for the future of the built environment. Visitors left with renewed excitement and new knowledge of sustainable solutions and innovations in the sector. Although the annual live event is over, Futurebuild works on providing content all year round. To relive the event, the full programme will be available in the coming weeks.

Having received insightful feedback from visitors on what they would like to see at Futurebuild 2024, the team is inspired to cover an even greater range of topics next year to again engage and challenge the industry to build better.

Save the date 5th-7th March 2024 – don't miss out on next year's show. This is our pick of the best exhibitors from this year's event, listed here in alphabetical order: CeraPhi Energy, KNX National UK, Masterframe Windows, My Global Home, Natural Building Systems, Nordic Energy, Re-flow & Structherm. Further details can be found on this page and a half.

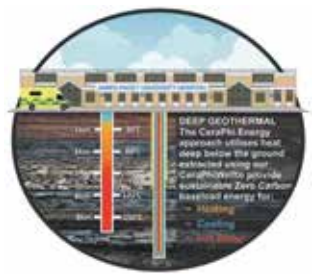
www.futurebuild.co.uk

CeraPhi Energy

CeraPhi Energy, a company specialising in Deep Geothermal heat exchange technology has been contracted by the James Paget University Hospitals NHS Foundation Trust to investigate sustainable solutions for its new hospital in Great Yarmouth.

As part of the government programme to build 48 new hospitals by the end of the decade, the new addition to the James Paget will be fully operational by 2030.

Jim Hackett, Programme Director of Strategic Estates at the James Paget Hospital, commented, "Central to the hospital's build is sustainable development,



energy efficiency, and net zero carbon. In this regard we were fortunate to be introduced to CeraPhi Energy, discussing its unique capabilities and technology in bringing offshore expertise to benefit onshore applications. The methodology adopted comprises harvesting deep core geothermal heat, utilising the CeraPhiWell™ delivery solution. We have now progressed our engagement to a formal feasibility study to examine the potential for both our existing and new hospital."

The commissioning of this study is a significant turning point for both CeraPhi Energy and the UK geothermal industry, with the potential to apply similar studies to hospitals all over the nation.

CeraPhi Energy is the leading company in this field and the first to offer an end to end solution from securing finance to full development and energy production.

www.ceraphi.com

Re-flow Field Management Software

Re-flow is an award-winning field management software provider serving the construction industry and associated sectors. Aiming to unite the back office and remote sites, the comprehensive system brings all crucial field management functionalities under one digital umbrella. Including digital job sheets, task scheduling, asset management, digital forms, team communication and more, Re-flow is actively streamlining the field operations of hundreds of firms nationwide.

Re-flow
Field Management

Having firmly established themselves within the sector over the past several years, Re-flow is now a leading software provider. The system is poised to solve common industry problems, including issues with efficiency, siloed systems, poor auditing, compliance, and cross-team communication. Designed from the mobile application backwards, the system's development was guided by feedback from field users. Bolstered by advanced tools such as automation, form building and API integration, Re-flow can seamlessly slot into existing business processes, including accountancy packages and ERPs.

Businesses including M.V. Kelly and BMI are now utilising Re-flow to digitally transform their operational processes – increasing profitability, streamlining tedious administrative tasks, mastering HSE management and achieving more sustainable business growth.

Contact
T 01392 574001
info@re-flow.co.uk
www.re-flow.co.uk

Natural Building Systems: Naturally Smarter

Natural Building Systems, in collaboration with GS1 and Terravesta, hosted the FutureBuild bar takeover to promote their commitment to sustainable construction and combatting climate change through the built environment. Their construction system uses climate neutral materials to create a breathable and thermally efficient envelope, including floors, roofs, and walls.

With the built environment responsible for 38% of global carbon emissions, Natural Building Systems uses high-performance natural insulation materials to maximise bio-carbon storage within buildings, reducing global emissions. Even a small home built with their system saves over 50 tonnes of embodied CO_2 compared to conventional masonry construction.

Similar to flat pack furniture, their system is an integrated kit that can be easily transported and assembled by non-specialised labour. Innovative materials and manufacturing techniques enhance energy efficiency and indoor air quality, leveraging the benefits of natural insulation materials like HempSil®, a novel bio-composite insulation with exceptional hygrothermal benefits.

The system is also designed for disassembly and adaptability, allowing non-destructive alterations and reassembly. Future components will include building information modelling (BIM) material passports, facilitating precise carbon tracking and promoting re-use.

Natural Building Systems

Contact
T 01379 308835
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- **Structherm RoofLine™** – an integrated robust eaves and verge rainwater solution to provide a fully sealed & insulated gutter, negating the need for roof extensions.
- **Structherm ThermaBase™** – an easily installed, pre-finished insulation panel used to insulate below DPC to ground level.

We have a wide range of BBA Certified systems and our design and manufacturing processes are carried out under strict procedures incorporating ISO-9001, ISO-14001 and ISO-45001 Management systems.

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O&M best practice guides for the solar industry recommend using water with the lowest TDS for cleaning and maintenance.

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Spotless Water revolutionises Solar Panel Cleaning

SpotlessWater

Spotless Water, the leading provider of ultra-pure water across the UK, provides the most innovative water solution for solar panel cleaning, offering installers and cleaners of solar panels the ideal eco-friendly and safe cleaning product.

With the increasing adoption of solar energy, the maintenance and cleanliness of solar panels plays a vital role in maximising energy output. Each panel loses approximately 50% and, in some cases, up to 90% of its energy-generating ability if this regular clean is missed. Spotless Water provides a national game-changing service that revolutionises solar panel cleaning processes.

Traditional cleaning methods often involve harsh chemicals and detergents that not only harm the environment, and corrode metal components, but also pose safety risks to workers. Spotless Water eliminates these concerns as their ultra-pure water is non-corrosive and doesn't conduct electricity, ensuring a safe cleaning process.

The ultra-pure water supplied by Spotless Water removes dirt, dust, and grime from solar panels effectively, without the need for additional chemicals or detergents. This eco-friendly approach enhances the performance and lifespan of solar panels and reduces the environmental footprint associated with their maintenance.

For more information about Spotless Water, please visit: www.spotlesswater.co.uk or contact us on: media@spotlesswater.co.uk.

Better buildings through technology & data

propcode

Creating an ESG strategy is one of the biggest challenges facing property developers and portfolio owners. Increased energy costs, climate change and the ever-growing burden of compliance present a growing problem. **Propcode** is a technology system designed to enable developers and landlords to overcome these challenges. Using our AI-powered platform GreenMind, and MyGlobalHome's Ultra building control technology, Propcode delivers an environmental health check for your portfolio, enabling you to streamline your capital expenditure toward environmental compliance.

GreenMind is a platform for all portfolio landlords and developers; a regulated coding methodology that shows a portfolio's environmental compliance at any one time, enabling you to make optimised and informed decisions towards an overarching ESG strategy.

GreenMind delivers detailed information on a property's status including its construction, state of repair, EPC rating, location, climate risk – and more. This real time data set establishes your best performing properties and your worst. Then, having established the baseline and armed with your GreenMind data you can index, categorise and plan in line with your ESG strategy. Critically, you'll be able to understand what – *and what doesn't* – need to change.

The data is *specific* to your portfolio, enabling you to categorise it in accordance with your income streams making it a major source of efficiency in achieving targeted and effective capex. You can reduce overheads, avoid over-spec, target upgrades, achieve set ESG goals, works towards GRESB validation and, the information can be evidenced in reducing insurance premiums and granting access to preferential green finance lending. Put simply, it is the knowledge and power you need to plan your path to net zero.

Contact Jon Scott,
jon@propcode.co
www.propcode.co

Masterframe Trade Sash Windows

Masterframe, the award winning sash window specialist renowned for their innovation in sash windows are delighted to present to the market an amazing new product capable of pushing the boundaries of sustainability, energy efficiency, sound attenuation and light transmission. Not only does this product tick all these boxes but now that Masterframe have been able to engineer this into their premium sash window range, its aesthetic appearance really offers the wow factor.

Neosash now offers the market an amazing choice of ground-breaking benefits fitted with the new Fineo vacuum glazing. Unique to sash windows, it truly delivers a single glazed appearance. Made up of a 6mm and 4mm pane of glass separated by a vacuum cavity and tiny micropillars. This amazing



glass is able to deliver a 1.2 whole product U-value which meets the new regulations. This means that its energy benefits make a real difference to customers. It doesn't stop there, Masterframe has also developed a new bar and bead to compliment the introduction of this new vacuum glass. Deeper and more beautiful, this bar and bead offer a timber look but with virtually no maintenance for tens of years.

Neosash delivers a truly authentic timber alternative option and comes with a unique 15 Year Guarantee. Come and see it for yourself. What other sash window delivers such peace of mind or true value for money with no ongoing cost, just a gentle wash twice a year, it's as simple as that. No expensive redecoration, scaffolding or inconvenience, it makes perfect sense.

To find out more, please visit: www.masterframetrade.co.uk/neosash

Want to see Neosash for yourself, we would be delighted to host you here at our showroom or it's available to view in many of our Partnered Master Installers Showrooms throughout the UK.

T 0800 591854
sales@masterframe.co.uk
www.masterframetrade.co.uk

Nordic Energy: Renewable Energy & Decarbonisation Experts

Nordic Energy is looking at the full spectrum of heat decarbonisation: retrofit, new build, industrial, heat pumps and heat networks. We are working on regional masterplans, business cases and project development.

Infrastructure may not be 'sexy,' but it is so important to our everyday lives and in the transition to Net Zero. We went to Futurebuild with the intention to meet new partners on this journey. And we met plenty because this path is being forged by companies who collaborate.

We are now using some of those new partners to press forward on city-scale decarbonisation projects. Working alongside talented architects, engineers, and urban designers, we are really excited about creating beautiful city spaces fit for a Zero Carbon future.

There are deep challenges that we must navigate through, from the congested web of utilities under our streets to the more personal challenge of moving individual homes away from gas boiler heating.



We are now working with our partners on training and apprenticeships to help fill the skills gap in retrofit, heat pumps and heat networks.

Contact
T 0333 012 4032
hello@nordic.energy
www.nordic.energy

KNX UK



As the construction industry seeks to reduce its impact on the environment, one technology that's making a significant contribution to the sustainability goal is KNX.

KNX is the only worldwide standard* for smart building controls that seamlessly integrates building automation components and systems. Integration of lighting, HVAC, security, AV, occupancy and tracking are brought together in one single, non-proprietary system.

For building technology specifiers, KNX combines increased sustainability with easily adaptable and future-proofed solutions.

Typical energy savings could be up to 40% in shading control, 50% in individual room control, 60% in lighting control and up 60% in ventilation control. With the potential to impact the sustainability of your projects to this level, KNX can't be ignored.

KNX NATIONAL U.K.

Our mission at KNX UK** is to educate building specifiers and BMS professionals in the benefits of KNX. Download our free Specification Guide here to find out how: **https://knxuk.org/specification-guide**

KNX is a powerful tool for specifiers who want to create sustainable and efficient buildings. Whether you are designing a new building or retrofitting an existing one, it is a technology that should be on your radar.

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www.knxuk.org

**International Standard (ISO/IEC 14543–3), European Standard (CENELEC EN50090 and EN ISO 22510) and Chinese Standard (GB/T 20965).*
***Non-profit association – comprised of Manufacturers, Distributors, Integrators and Training Centres.*

Momentum builds behind World Biogas Summit and Expo 2024

The world's largest tradeshow dedicated to anaerobic digestion and biogas, the World Biogas Summit and Expo, takes place annually at the NEC in Birmingham. This year's high-level event in March attracted over 3,000 delegates from over 100 countries and over 150 exhibitors from the supply chain.

Keynote speaker, Jennifer Sara, Global Director for Climate Change Global Practice at the World Bank, delivered a strong call to action, 'the world is on fire, biogas is a solution.' This was clear recognition of the meaningful role biogas can play in decarbonising the worst greenhouse gas emitting sectors – energy, food production and transport – and delivery of the Global Methane Pledge, recognised as the fastest, most economical way to keep 1.5 alive.

Organised by the UK Anaerobic Digestion and Bioresources Association (ADBA) and the World Biogas Association (WBA), the event was addressed by over 60 speakers, including captains of industry, the International Energy Agency, the Gas Institute NAS of Ukraine and KMPG, with sessions considering big oil and biogas, future gases and transport fuels and finance alongside immediate challenges of climate, energy and food security.



Driving the biogas revolution: WBA Chief Executive Charlotte Morton OBE and ADBA Chairman Chris Huhne present New Holland Agriculture/ Bennamann, with the winner's trophy in the 'Net Zero Circular Solutions' category in this year's AD and Biogas Awards, for developing a closed-loop farming system hinged on New Holland's innovative biomethane tractor

With world governments following the lead of the EU and US in backing biogas as a decarbonisation pathway, alongside significant investments from the likes of Shell, BP and Goldman Sachs, momentum is building behind the industry ahead of 2024's event.

The World Biogas Summit and Expo 2024 will take place in July 2024 at the NEC Birmingham.

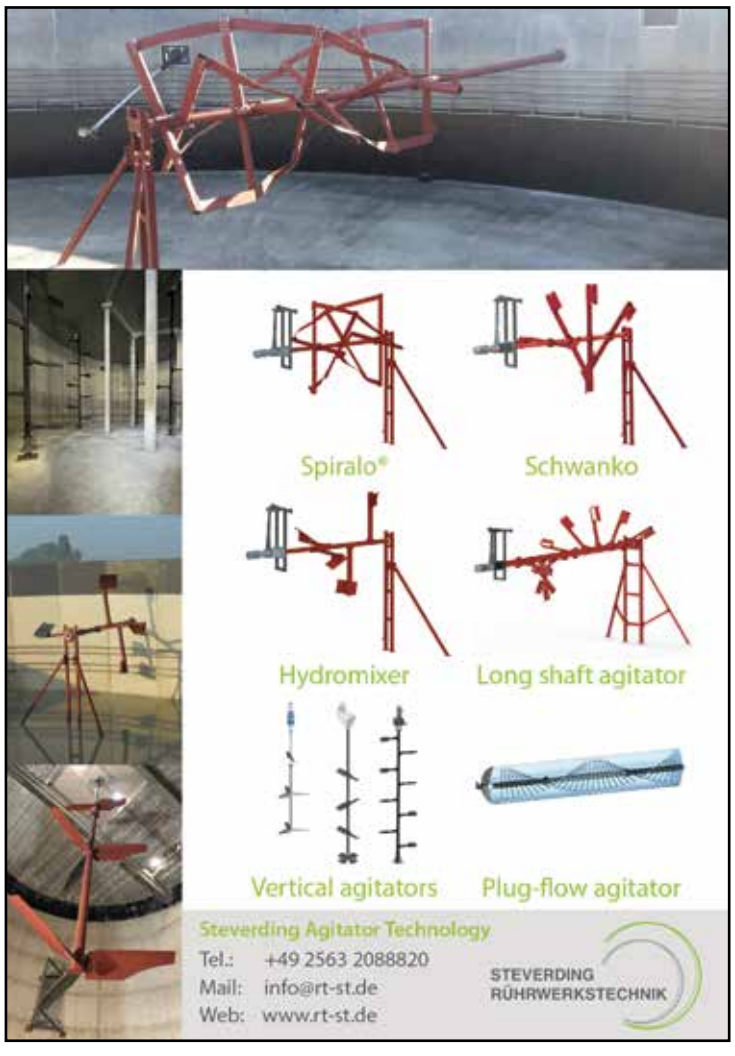
This is our pick of the best exhibitors from this year's event, listed here in alphabetical order: Advanced Bacterial Science, Birch Solutions, CPL Activated Carbons, Gas Engine Exchange, NFU Energy, Online Lubricants, Siloshop & Steverding Rührwerkstechnik GmbH. Further details can be found on this page and a half.

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Steverding Rührwerkstechnik GmbH

Steverding Rührwerkstechnik GmbH is an expert in agitators. High technology is expected today at all levels of power generation. Steverding Rührwerkstechnik can boast more than 20 years of experience in the manufacture of agitators. The continuous optimisation and analysis of our products together with constant technical innovation show best results. Today, we are partners and system component suppliers of leading biomass facility manufactures worldwide. Steverding Rührwerkstechnik brings machinery and equipment manufactures together with strong innovative constructors under one roof. Our core business: Analysis and System | Certification | Conception and Optimisation | Research and Technological Development | Production and Installation | Maintenance – Repair | Repowering. We are a team permanently striving to meet even higher quality standards where the contribution and achievements of each individual counts. We rely on our own employees and do not outsource any production processes to less qualified temporary workers. To meet the needs of the farmers, to optimise the whole process – this is our mission.

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Birch Solutions: Providing expert biogas plant services across the UK

Birch Solutions is now the leading provider of expert services to the AD, biogas, Bio-Resources, and renewable generation sector in the UK. We have big ambitions to go even further. We are trusted to consistently deliver excellence for mission critical service support.

The business is dedicated to developing new anaerobic digestion plants, supporting biogas facilities of all sizes, and providing leading services, maintenance, parts, and expertise to ensure customers can maximise their revenue and cut input costs.

Working with PlanET, Birch Solutions can develop and build new AD plants up to 60GW (or Tier One) under the Government Green Gas Scheme. Whether it's compact agricultural facilities or projects on an industrial scale, specialists from Birch Solutions can provide expert support from the very first talks, all the way through to commissioning.

For existing plants, Birch Solutions deliver a range of services to help AD operators to maximise their efficiency and fulfil their financial potential.

This includes expert tailored AD biological analysis through the BioLab and the





Bioresources services team and provide liquid and powder lime dosing for a range of applications.

Birch Solutions also provides a range of Parts and Service Support packages tailored to suit the requirements of your individual site. We are the preferred UK supplier for many key parts suppliers, giving you instant access to the parts and maintenance you need, to ensure you minimise any downtime. This service includes full site audits and experts on hand to provide advice. Access to a full UK parts store, import parts from OEMs and rapid response with 24 hours call out, enables our qualified teams to install key equipment and provide support when you need it most.

Our support and expertise encompass all elements of your AD plant, including the service and maintenance your CHP. Our team can provide a full range of services from routine works, and service checks to full rebuilds. Where remote access is available, we can dial in to offer diagnostics to potentially provide instant solutions.

To learn more about how Birch Solutions can help you, contact our expert team today by emailing: parts@birchsolutions.co.uk or calling: 01652 686060. You can also visit our website at: https://birchsolutions.co.uk and find us on LinkedIn, Facebook and Twitter to follow our journey and hopefully assist you with yours!

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Biogas Expo success for CPL

The team from CPL Activated Carbons enjoyed a busy and successful couple of days at the recent World Biogas Expo at the NEC.



The CPL Activated Carbons stand at the World Biogas Expo (photo: D. Reay)

Activated carbon is used to remove unwanted impurities from biogas streams – such as siloxanes and hydrogen sulfide – which can cause damage to CHP engines or make the gas unsuitable for grid injection (as biomethane).

CPL Activated Carbons is a full service provider into this sector, supplying a range of FiltraCarb® carbon media, plus a selection of VOCSorber® mobile carbon filters that offer end-users a convenient plug & play solution. When the activated carbon is spent and needs replacing, the used material can usually be recycled via thermal reactivation at the company's site in Immingham.

As in previous years, CPL arranged for one of their largest mobile VOCSorber® units to be located inside the Hall, forming the focal point of their display. This huge vessel, standing over 7 metres tall, proved to be quite a talking point for attendees to the show, and was visible throughout the Hall, making the stand very easy to locate!

Next up for the CPL team – the RWM expo at the NEC in September.

T 01942 824240
info@activated-carbon.com
www.activated-carbon.com



Sustainability Today is sponsored by Quantex – see them on **page 4**

Oliver Twinsafe Chosen to supply world's single largest Offshore Wind Farm

Oliver Twinsafe are to supply a range of Modular and Monoflange double block and bleed valves to the Hornsea 3 Wind Farm project located in the UK sector of the North Sea. Hornsea 3 has two platforms, link 1 and link 2. These are unmanned and operated from shore with access to carry out maintenance done by vessel or helicopter.

These High Voltage Direct Current (HVDC) offshore converter platforms have a combined capacity to produce 2.852GW, enough to power the average daily needs of over 3 million UK homes. This makes it the single largest offshore wind project in the world.



Manufactured from 316 Stainless Steel, Super Duplex, and Titanium materials, valves are to be used in cooling systems and firewater applications. Regional Manager for Scotland and Scandinavia, Colin Wood, says, "We're extremely proud as a business to supply valves for operation on large-scale green energy projects, and it's particularly exciting to be working with a UK-based green project, such as Hornsea 3."

"We're committed to supporting a Net Zero Emission future, and have recently launched a range of zero seat leakage valves for hydrogen applications. Our investment in designing new and innovative valve technologies is having an enormous impact and is hugely significant – even a game changer!"

For more information on how Oliver Twinsafe can support your green energy project with the very best valve solutions, contact us on: +44 (0)1565 632636, email: sales@valves.co.uk or visit: www.valves.co.uk

EasyQote: Self-Adhering Coating Solutions

Easy·Qote®
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Wind turbines globally face a variety of challenging conditions; warm winds, cold winds, strong winds, 360' exposure, constant waves, sand storms, changing temperatures, hail, rain, snow. They have, and will, see it all.

These circumstances are the perfect recipe for causing corrosion to creep into crevices, at flange connections, ladders and walkways, and to the protective paint coatings applied at the start. All these elements in a downward spiral lead to further corrosion and in turn eventually can cause structural failures.

In order to help the wind industry



excel in our renewable energy market, we need to provide protection to these assets so that they can last longer, so we can make renewable energy truly sustainable.

Powered by STOPAQ, EasyQote products are doing just that – providing vital protection to the industry with their simple and efficient solutions.

EasyQote is a polymeric coating designed with the concept that a corrosion solution could be applied simply as a sticker rather than painting or spraying. It is 100% plant based and therefore safe for both user and the environment as well as being simple to apply.

Establishing itself as a long-term corrosion solution in some of the toughest environments. The EasyQote range of products have stopped corrosion from the monopiles and foundations up to components in the nacelle. The unlimited shelf life of these products mean they can be used as and when any coating damage takes place either onshore or offshore. They are readily available in the standard colours and any technician can carry out the coating repairs in minutes, stopping corrosion in its tracks. It really can be as Easy as 1, 2, 3.

www.easyqote.com

NFU Energy helps get Green Gas Support Scheme applications over the line

Since the launch of government's Green Gas Support Scheme (GGSS) in 2021, NFU Energy's application to the scheme on behalf of one of their clients has been the first and only application to be approved by Ofgem and successfully registered on to the scheme.

The GGSS is a government environmental scheme that provides financial incentives for plants producing biomethane via anaerobic digestion, which is injected into the gas grid. As of 31st March 2023, Ofgem had received a total of 22 applications since November 2021; however, only one site has had Ofgem approval, a site, which approached NFU Energy to help with its application.

Located in the South of England, the site so far has benefitted from one periodic support payment of £104,860.84 based on 246,292m³ of green gas injected into the grid, that's enough to generate approximately 1,903,100.63kWhth of heat output[1]. Its operation will contribute to carbon emissions savings by reducing the emissions intensity of the UK's natural gas supply, as well as reducing emissions from waste.

Applications are open for the GGSS until 30 November 2025. Once registered on the GGSS, eligible biomethane producers can claim payments for producing biomethane using anaerobic digestion and injecting it into the gas grid. These payments are based on the volume of eligible biomethane injected into the grid and are made every three months over 15 years.

Contact
T 024 7669 6512
info@nfuenergy.co.uk
www.nfuenergy.co.uk

1 GGSS Quarterly Report Issue 6 Q4 2022-23 (ofgem.gov.uk)

Gas Engine Exchange

Gas Engine Exchange is an equipment supplier specialising in zero hour, surplus and used gas engines, with more than twenty years' experience in the energy industry. The core of our business is buying and selling zero hour, surplus and used biogas and natural gas generators, as well as other energy-producing equipment.

For a company like ours, the World Biogas Expo is one of the biggest events in the energy calendar and one that Gas Engine Exchange looks forward to each year. After years of walking the halls, this year Gas Engine Exchange decided to become an exhibitor. It was a great way to meet many interesting and dedicated people working in the industry.

Over the last few years, Gas Engine Exchange has expanded our range of products to include used gas turbines, used steam turbines, used ORCs and used ancillaries for power plants such as transformers. We have a wide customer base across the world and were therefore pleasantly surprised that so many people had travelled from as far away as Africa, South America and Asia, as well as all over Europe, to attend the expo.

It was a good opportunity to see the technologies and products that companies have to offer and to exchange ideas for what the future may hold. We look forward to seeing you next year.

If you are looking to buy or sell a gas engine, please contact us:
T +44 (0)7595 426731
ukoffice@gasengineexchange.com
http://www.gasengineexchange.com

Solutions by Nature, for Nature

ABS ADVANCED BACTERIAL SCIENCES

Advanced Bacterial Sciences experienced a busy few days at The World Biogas Expo 2023 earlier this year when its team – located in the Research and Innovation Village, were discussing their pioneering biotech solutions for struvite and vivianite removal, as well as enhanced methane generation potential from hard-to-digest AD feedstocks.

ABS is a science-led organisation creating innovative microbial solutions for human and planetary benefit, bringing associated products and services to market. Its entire range is dedicated to resolving issues associated with anaerobic digestion, nitrate-polluted waters including eutrophic freshwaters and marinas, enhanced wastewater treatment at source, degradation of oily sludges and hydrocarbon contamination, and the treatment of ammoniacal nitrogen and fats, oils and greases in blocked urinals and sewers.

Specialising in research and innovation using non-pathogenic microbes, ABS works with farmers providing AD consulting services including analysis and optimisation of current AD plants to improve throughput and efficiency. ABS' anaerobic digestion product uses a consortium of bacteria and enzymes in a pre-treatment step, which allows the bacteria within the AD plant to effectively degrade difficult lignin and cellulose-bearing wastes. This improves the efficiency of the operation, generating more methane, which can be captured to be used in energy production.

Throughout 2023, ABS is working with several farmers to trial their AD-enhancing products, with different agricultural waste feedstocks in the field. These trials will allow the optimisation of the product for common UK feedstocks enhancing methane generation potential and providing farmers with a much easier-to-apply digestate following the AD process.

ABS's eco-friendly product to dissolve struvite deposits in the feed pipes is non-corrosive and does not negatively impact the AD process. Struvite, an ammoniacal phosphate, forms within the feed pipes causing blockages and must be removed. Using ABS's approach, AD operators can wash the struvite through the pipe into the AD plant, providing phosphate nutrients to the bioreactor and reducing downtime. Also in development is a product to remove Vivianite, an iron phosphate that forms in the discharge pipes, this will allow the dissolved iron and phosphate to be mixed into the digestor or with the digestate.

ABS also offers a fully encompassing and ongoing AD technical consulting service to support its product development that aids site owners and operators in a number of different areas.

For more information, please see below:
T 01524 481513
sales@abs.eco
https://abs.eco

Online Lubricants: A UK-based fuels and lubricants distributor

Since the company first started trading in 1994, Online Lubricants has grown significantly and now has a team of over 50 staff members across four depots in London, Essex, Norfolk, and Northampton. Integral to the company's success is the philosophy to constantly challenge industry standards when it comes to speedy deliveries and providing outstanding customer service.

Online Lubricants are partnered with Tree-Nation, helping customers offset the carbon that they produce from using their products by planting trees in across the globe. They also offset all the carbon that is produced by their vehicles and are now carbon-neutral in their operations.

Their strong partnership with Petro-Canada Lubricants and a readily available supply of their extensive premium range of products enables them to meet customers' requirements quickly and efficiently, supporting them in overcoming the many challenges that they face in today's demanding economy.

Online Lubricants offer a fast nationwide delivery service for Fuels, Lubricants, AdBlue, Grease, Coolants, Spill control, Equipment, Tanks, and much more. For more information on the product range and the services on offer, please scan the QR code above or call the Online Lubricants customer services team on: 020 8507 0123.

Silostop Agri, pioneering sustainable feedstock storage

Silostop Agri has been working in the silage storage industry for over 20 years with their unique range of ARK Agri silage clamps, Silostop High Oxygen Barrier (HOB) silage Sheets and Secure Covers silage clamp netting to improve the efficiency of feedstock storage.

Key to the financial and environmental sustainability of crop-fed Biogas plants in the UK is the preservation of silage.

The difference between poor and best possible silage quality can be a potential energy loss of – 20+% For a biogas operator that will directly relate to the volume of



gas produced and the financial viability of the plant.

As well as financial viability plant managers will also want to consider their sustainability, a 20% loss in feedstock represents a huge environmental impact.

These losses are incurred after the growing and harvesting of the silage crop which will already have generated a significant carbon footprint.

By investing in the Silostop Agri range, particularly their covering systems on existing plants, operators will benefit from proven technology that reduces losses across feedstock storage.

Silostop Agri is always ready to offer operators best practice advice to make the most from their feedstock investment for more information: www.silostop.com

RICS Arbitrator with wealth of tacit surveying knowledge

In this issue of Sustainability Today, we are delighted to announce Crawford's Chartered Surveyors as our Property Surveying Company of the Month.

Surveyors are instrumental in formulating how we live: from rural villages to metropolitan cities, helping optimise community wellbeing, safe and secure environments and efficient use of valuable resources.

Crawford's Chartered Surveyors offer expert property surveying particularly for more unusual and specialist property types, including mineral and waste management, water resources, telecoms, development land and general industrial and warehouse property. With over 35 years' prior property surveying experience, Andrew Crawford is a RICS-qualified Arbitrator and Mediator and member of the Royal Institution of Chartered Surveyors President's Panel of Arbitrators. The company was established in 2021, under the expert helm of Andrew and offers professional guidance throughout the British Isles, Europe and further afield. We spoke to Principal, Andrew to find out more about his highly-regarded work in property surveying, "Within the property types I deal with, I specialise in valuation and expert determination. I regularly act as an Expert Witness in valuation disputes and in Court and Tribunal proceedings: valuing specialist property assets for Company Accounts, Stock Exchange listings, landlord and tenant matters, taxation, valuation disputes in litigation and sales purchase and lettings of specialist property. Within the field of valuation, I deal with



Crawford's
Chartered Surveyors

capital and rental valuation of specialist (and general) properties, land planning and compulsory purchase compensation, business rates, taxation valuation. Much of my work is in valuation in 'untested' circumstances e.g., emerging legislation."

The role of an Expert Witness is to provide impartial evidence to the Court or Tribunal. Many disputes can arise within the property sector from, for instance, differing interpretations of contract terms or differing analyses of the evidence relied upon for valuation. Expert Witnesses provide written reports and evidence under cross-examination, if required and in so doing are bound by the strict rules of the Civil Procedure Rules and as Chartered Surveyors: The Practice Rules of the RICS.

In the near future, Crawford's Chartered Surveyors is looking to further expand the Arbitration and Dispute resolution services including: expansion of independent intermediary advice to parties involved in valuation disputes.

The second area Andrew specialises in is more specialist property areas, as he outlines below, "The company offers specialist knowledge of occupational and operational issues affecting specialist properties we deal with, each of which may have legislation specific to that particular category of property. Understanding of these factors is critical to the assessment of value in respect of a land asset and opportunities may be lost if proper regard is not paid to these factors in the preparation of valuations for whatever purpose."

"In respect of mineral assets for instance, it is the remit of Minerals Surveyors to focus on the preparation and processing of potential mineral sites; co-ordinating surveys to determine the commercial potential of mining/quarrying, mapping mineral deposits and accurately predicting any adverse environmental impacts and taking these factors into account when assessing the value of the underlying asset. The valuation of waste management assets requires a similar process but one governed by a different regime of regulation and government agencies."

"Overhead and underground wayleaves and/or easements relate to legally binding agreements between the property owner and the land, allowing for utility companies to lay cables and pipes, with an annual payment paid directly to the property owner. If the property is sold, the wayleave is not automatically transferred to the new owner. In some exceptional cases, utility companies can prevent wayleaves from being terminated. The imposition of a wayleave/easement may sterilise development potential in the land over which the wayleave/easement may run and this may trigger an entitlement to the land owner (or occupier) to compensation payments."

Crawford's Chartered Surveyors offer unparalleled, RICS-expert guidance on property surveying and more unusual and specialist property type surveying, in the modern era. Andrew Crawford can bring future-proofed expertise to any valuation dispute for valuation advice in respect of specialist or unusual property types.

For more information, contact Andrew Crawford directly below:
T 07969 889779
andrew@crawfordscs.net



Sustainability in the carpet and textile-flooring sector



Following significant growth in its membership network, Carpet Recycling UK (CRUK) is seeking further engagement from construction, facilities management and flooring sectors to reduce textile flooring waste such as, broadloom carpet, carpet tiles, event carpets and underlay.

The not-for-profit association is now working with 80% of the UK's carpet and textile flooring manufacturers and distributors, which puts it in a stronger position to represent the sector when it comes to discussions on favourable policy outcomes.

Adnan Zeb-Khan, CRUK Scheme Manager says, "Moving forward, companies will need to demonstrate reductions in the use of new resources, design products with recycling in mind, including methods of identification of material make-up and consideration of reverse logistics for take-back schemes to support reuse and recycling outcomes. Our members are making great strides with many developing products with recycling in mind, from single polymer ranges to ones made with recycled content."

David Healey, Finance Director of CRUK member Saint Flooring, implemented waste material recycling throughout the company's nationwide sites in 2019. He says that membership of Carpet Recycling UK is contributing to its sustainability goals and helped achieve annual savings of up to £170,000 annually on disposal costs by reusing and recycling their waste materials.

CRUK is the only organisation representing the carpet and textile-flooring sector in the UK, which is helping to industry to reduce waste, divert waste from landfill and become more sustainable. Please visit: www.carpetrecyclinguk.com for more information.



Sustainability Today is sponsored by Quantex – see them on **page 4**

Aliaxis unveils new next generation boundary box to provide unrivalled protection against contaminants

Fluid management solutions provider Aliaxis has enhanced its Protecta-Line barrier system offering with the introduction of the new Protecta-Line Boundary Box, the only completely plastic boundary box fully approved for contaminated land usage.



With homes increasingly being built on brownfield sites that may contain substances harmful to people, it is vital to provide drinking water in a safe and efficient way and avoid the potential danger of exposure to significant surface waters or ground water pollution.

Boundary boxes are designed to house the meter at the boundary between the water main and the domestic supply and this new Protecta-Line solution not only provides a shield against all known contaminants, but it's the only 'Grade B' load bearing height adjustable boundary box on the market. It is available with a standard lid, as well as three further lid choices: slope, square cowl and fixed.

The Protecta-Line range is the market leading and original barrier pipe system for the safe transportation of drinking water through areas of contaminated land, or for sites with future potential contamination concerns.

Aliaxis will be showcasing this groundbreaking solution for the first time at Utility Week Live (Stand J16) at the NEC in Birmingham (16th-17th May).

For more information on Aliaxis' extensive range of water supply solutions, visit: https://bit.ly/ProtectaLine_BoundaryBox

Contact
T +44 (0)330 111 4233
https://www.aliaxis.co.uk

Leachate Solutions

Leachate Solutions is committed to promoting energy efficiency and conservation, with sustainable use of energy, we focus on delivering cost-effective and robust engineering. Using a modern approach that works across the UK in environments within the Water and Waste Water sector such as closed landfills, old coal mines, gasometer tower drainage, and AD BIO systems.

We also offer eco friendly technical interventions for problematic sites or site processes, delivering full maintenance packages and services, including smart monitoring systems that can provide a comprehensive system overview and advanced warning of any potential issues.



We problem solve and provide solutions for issues that clients may have. Our comprehensive technical skills set provide consultancy, migration, reverse engineering, plus end to end solutions to the industry.
The company also provides a maintenance consultancy service that helps identify and implement cost savings across an entire sector.

Leachate Solutions provides a comprehensive range of services within the Water and Waste Water sectors. We Consult, Supply, Design and Install:

- Water Treatment Systems: Including Leachate & Landfill
- Pumps and Pumping Equipment
- Pump Maintenance and Management
- Pump Condition Reports
- Non Invasive Flow Meters – Magflow, Ultrasonic and Doppler
- Level Control Systems
- On-Site Instrument Calibration
- Analytical Services

Contact
T 01772 816593
enquiries@leachatesolutions.com
www.leachatesolutions.com

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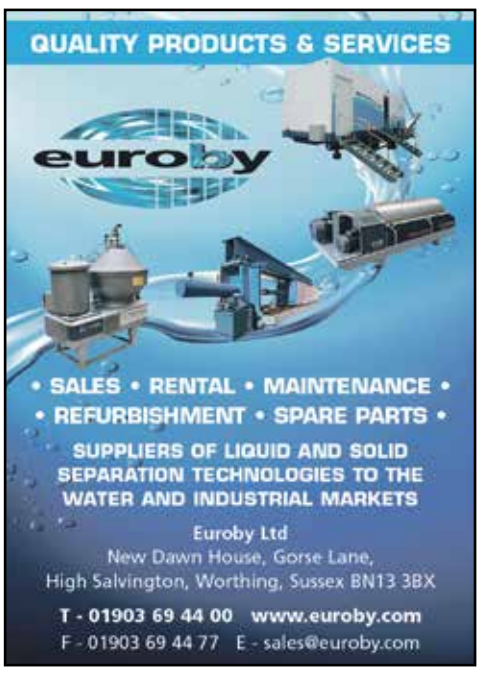


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Webasto, Feel the Drive

In this issue of Sustainability Today, we are pleased to feature Webasto as our Automotive Supplier Company of the Month.

Established in 1901, Webasto is globally recognised for being one of the top 100 suppliers to the automotive industry. The headquarters of the company is located in Stockdorf near Munich, Germany, but the company has a presence in more than 50 locations around the world, boasting more than 30 production sites with over 16,000 employees.

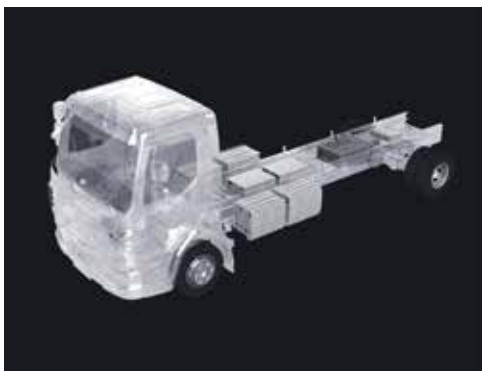
Generating around €3.7 billion in sales in 2019 and €4.4 billion in 2022, Webasto's worldwide success follows an upwards trajectory year on year which showcases the strength and depth of the company's integrity, work ethic and innovation that has integral to its success.

In the beginning, Webasto produced stamped parts, wire holders and home appliances. Over time, the company has grown its product development with a current product portfolio that comprises of in-house developed roof systems, heating and cooling systems for various types of vehicles, batteries and charging solutions for hybrid and electric vehicles, as well as complementary services relating to thermo management and electromobility.



The UK subsidiary resides in Doncaster, which is known as the only UK Thermo & Comfort location, alongside the roof division that is based in Birmingham. In the UK, the main focus is to provide heating, cooling, EV charging and vehicle batteries mainly for the automotive, off-highway, and marine sectors, serving customers who are converters and builders of vehicles and boats.





Webasto's strong positions in its existing markets gives them the strength to develop new products, and one area that the company has been focusing on lately is the Thermal Management of e-Vehicles. Webasto is convinced that the future belongs to electric mobility, which is why they are using their own in-house automotive technology expertise to drive forwards the development of future-proof batteries for passenger cars and commercial vehicles.

From local small series production to multi-product-lines for medium volumes and specialised individual production lines for mass production, Webasto can adapt its existing UK plants to best serve customers here.

The Webasto CV standard battery system is designed for the commercial vehicle market and offers robust packaging, automotive standard design, zero compromise to quality, and an efficient cooling interface. Webasto has coupled the battery with Samsung SDI state-of-the-art cell technology enabling it to be the perfect fit for all commercial vehicles.

The CV standard battery has been designed for light, medium and heavy duty, as well as on and off-road requirements. Its innovative technology means it brings an off-the-shelf solution to reality,



and with modularity being one of its core design principles, there is no doubt that Webasto will fit in your commercial vehicle application.

Webasto also has an in-house electronics development centre that is used for testing and validation to ensure reduced time-to-market from pre-development to the start of series production. When we asked David Stafford, Commercial Manager of Customised Solutions for the Webasto Group what makes their services stand out from competitors, he responded saying, "The fact that we offer a fully bespoke design service and extended warranty is something that comes completely unrivalled in the industry. In fact, all our solutions meet the highest quality, safety and performance standards far beyond automotive requirements."



Another advantage of working with Webasto is its commitment and continued effort to Go Greener, and in addition to technological progress, Webasto is dedicated to its ecological responsibility. Throughout the entire development line, from production through to product cycle and the delivering/installing of the end product itself, Webasto is always actively working with various initiatives and projects to reduce its carbon footprint.

One example of this is from its Schierling plant where a large part of the energy requirement is supplied by the company's own photovoltaic system that gives an output of up to 750kWp, meaning battery production can be supplied 100% by solar energy. Furthermore, since 2014, when the company installed a 2MW combined heat and power plant, the PV system has become a key component of Webasto's overall strategy for sustainable battery production. This is a strategy that Webasto is keen to continue into the coming years with all sites being continuously developed using sustainability as its guiding principle.

Another area that Webasto is keen to explore further is the development of more electrified applications. Shaping new technologies for the mobility of tomorrow, and to get better at it every day is what drives Webasto. Being a systems partners to almost all automotive manufacturers including KIA, Ford, BMW, Audi, Volvo, Bentley, Toyota, and many more means that designing energy-efficient electric vehicles can be a challenging task when so many adaptations are needed. However, Webasto have the right tools to not only combat the high and fluctuating energy demand for thermal management, but to continue innovating and developing products that solve key impact areas of thermal management on battery performance such as the battery health and slow power output due to changing temperatures. Climate conditions, energy management and driving characteristics all have a direct result to the available driving range, and Webasto is keen to explore all the technological options to ensure it keeps creating and designing only the best automotive products for the automotive industry.

If you're interested in finding out more about Webasto and its products, please see below:
T 01302 322232
https://www.webasto.co.uk





