



# SUSTAINABILITY TODAY

Issue 412 May

Tel: 0121 550 7510  
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energy | water | waste | recycling | sustainability

## Carbon Numbers launches Carbon Cloud

The new service enables energy managers to get more control and visibility over their building energy management system by linking it to Carbon Numbers' new cloud platform.

Through remote monitoring, Carbon Numbers can take responsibility and ownership of their clients' systems, using technologies and data driven strategies to provide real-time insights to improve working conditions, cut costs and reduce carbon.

Using real-time data has the added benefits of reducing site visits and maintenance costs, as well as being able to proactively identify issues and make instant adjustments.

Carbon Numbers, who were recently invited to take part in this year's Parliamentary Review, were inspired to launch Carbon Cloud as a response to data inefficiencies. CEO, Neil Fright, explains how while most buildings have an effective solution in place, all too often this is not an efficient one, "With many factors influencing a building's performance, data is often poorly understood, whilst the ability to drive change can be complex, especially when



energy intelligence

various systems aren't connected properly."

Neil goes on to explain how by linking their BMS to Carbon Cloud, companies and organisations can use data to create a more sustainable future, "There's an increasing pressure, particularly on financial directors, to demonstrate sustainability. Rising energy prices, skills shortages and increasing legislation mean there are more factors to consider than ever before, but by connecting your BMS to the Carbon Cloud, we can use your data to improve everything from your space utilisation and staff wellbeing, to the cyber security of your building management system, all steps that help to future-proof your business. This will also enable you to achieve ISO 27001 compliancy."

Learn more about Carbon Cloud: <http://carbonnumbers.co.uk/carbon-cloud/>

## Glasdon® sets new benchmark in picnic seating solutions

Bowland™ and Pembridge™ join the Glasdon range of eco-friendly picnic tables.



The new benches offer easy seating access, and are able to accommodate up to 8 people. Their weather-proof, robust designs are enhanced by the rounded sections on all seats and table edges providing comfort and safety.

Manufactured using 100% recycled material; the attractive Pembridge Picnic Table is traditionally designed, durable and sustainable. Pembridge is available with black or brown EnviroPol® material slats, or self-coloured Timberpol® material slats for a more natural wood-effect look.

The Bowland Picnic Table offers a contemporary twist on picnic table design. Combining a curved Armortec® coated mild steel frame

with a choice of seven different coloured, environmentally-friendly material slats, this picnic table offers strength, style and sustainability.

Neil Gilkes, National Sales Manager for Glasdon UK Limited, said, "Innovation and sustainability are two core values of Glasdon. These picnic tables are a great example of our quality, design, and cost effectiveness, as well as being stylish and eco-friendly."

View the recycled material seating range at <https://uk.glasdon.com/seating/recycled-materials-seating> or talk to the Glasdon team today for more information, or to arrange a visit to our showroom on 01253 600410.

## Innovative renewable energy technology from GivEnergy



GivEnergy Ltd is part of the JMHing group of companies, specialising in hardware manufacture and software design in order to create energy efficient, cutting edge products. With a goal to reduce carbon emissions globally, GivEnergy manufactures complete solutions for the home, office, and industry.

GivEnergy develops the latest ventures in new hardware and software by working with specialised industry leaders, ensuring they are at the forefront of new technology and product development in the renewable energy sector.

Their energy storage solutions range from 2.8kWh to 2.8MWh

modular units, offering products from small home systems all the way through to multi MWh for industrial usage. GivEnergy can design, build and commission any size of system anywhere in the world. As well as this, their team of software designers can maximise efficiency, and monitor and update usage and data over the air, eliminating the need for unplanned visits from engineers.

GivEnergy are currently working closely with energy providers to ensure that the customer gets the most cost effective energy deal.

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**Cool Designs**

Cool Designs Ltd (CDL) has terminated its distribution agreement with Panasonic as part of its ongoing strategic growth plan. Alongside the streamlined product line-up, the company is moving to a new head office alongside the River Tyne in Gateshead, giving and additional 10,000ft<sup>2</sup> of warehouse space to further improve stocking levels and providing a further 3,000ft<sup>2</sup> of office space.

The new location includes a trade counter and an enlarged air conditioning training centre, to cater for increasing demand for the company's high quality technical training courses for installers and service companies.

Darrel Birkett, CDL's founder and Managing Director, said, "It has been an outstanding year and we have continued to increase sales, driven mainly by the new technology roll-outs by Toshiba and the recent addition of CIAT to our range. The move to new larger premises will give us the space to grow for the future, and allow us to continue to develop our service to our expanding customer base that is one of the key elements of our success." On recent market developments, he said, "We have seen a big swing towards R32 as Toshiba's Digital Inverter range has come on-stream, while the VRF market remains strong due to Toshiba's class-leading efficiency, reliability and installer-friendly technology."

Geographically, sales growth has come from across the UK, with London and the south of England performing particularly strongly. To help support this going forward, the company is planning new hubs for training and stockholding to ensure service levels are maintained as the business expands.

T 01915 496964

## Water Analysis Company of the Month

# Revolutionary water pollutant detection technology

Sustainability Today is proud to announce that SouthWestSensor Ltd (SWS) has been selected as our Water Analysis Company of the Month, for their truly ground-breaking water analysis technology. Founded by Dr Xize Niu, SWS is an ambitious University of Southampton spinout company, which has developed an innovative nanodroplet-based sensing platform.

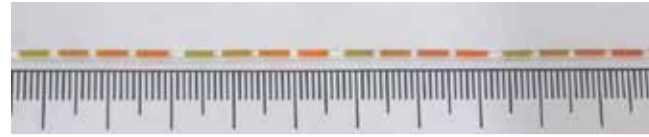
SWS's cutting edge technology makes it possible to continuously measure chemical and biological molecules with a high degree of accuracy. Because of the small size of the sensor, it is a suitable platform for wearable medical devices, as well as being beneficial in the development of remote pollutant sensors in rivers and seas across the globe. "The idea started to develop in 2015," says Dr Oliver Hofmann, CEO, "and the company became operational in mid-2017. We're currently working on commercialising the product and increasing awareness, focusing on its environmental usage as well as developing the technology for use in healthcare."

Dr Xize Niu, the inventor of this nanodroplet-



based sensing approach, explained some of the sensor's benefits for water analysis. "The reagent we use only has to be changed every two months, instead of every few weeks like products from our competitors. This makes it an energy efficient and cost-effective solution for continuous autonomous monitoring. Some of our main customers include water treatment companies, as the sensor helps them to measure the efficiency of their water treatment by providing data to see how well they're doing."

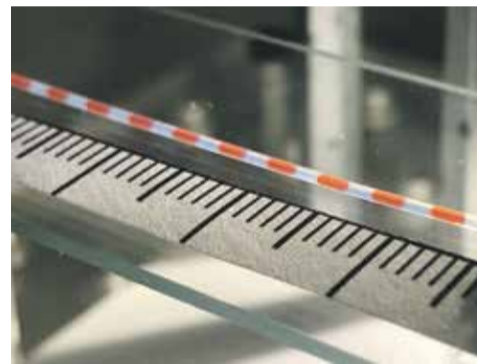
Indeed, water across the world has been contaminated by pollutants, as a direct consequence of human activity. As the population continues to grow, there is also an alarming increase in pressure on the planet's water supply. The toxic chemical pollution, unintentional nutrient



enrichment, and algal blooms have caused issues with water quality all around the world. Typically, water sampling is carried out using infrequent manual sampling methods. This requires a small team to collect the water and deliver it to an approved laboratory; an expensive protocol, which in turn leads to pressures on the budget to reduce data collection in order to decrease spending.

Over the last 10 years, there has been a growing interest in the use of auto-analysers, but those which are currently commercially available are expensive to purchase, expensive to run, and often unreliable. SWS's technology is fully submersible and portable, meaning it can be deployed directly into the water being analysed to continuously and autonomously measure polluting chemicals. Dry on-land in-line sensor configurations are also possible, depending on customer requirements.

The nanodroplet sensing platform uses



conventional and accepted chemical testing methods, and SWS are working on CE marking of the first Nitrite/ Nitrate sensor for 2019, with phosphate and silicate measurements to follow this. With a reduced environmental footprint, lower device costs, and

reduced need for maintenance, SWS is offering a revolutionary device to help tackle the global contamination of our rivers and seas. In order to raise awareness of their technology and help in the drive towards a more environmentally friendly future, SWS will be attending numerous exhibitions and conferences, including SWIG events in summer 2019.

If you would like to find out more information, head to their website or get in touch using the contact details below.

**Contact**  
T 02380 592367  
admin@southwestsensor.co.uk  
www.southwestsensor.co.uk



## Sustainable Energy Company of the Month

# Experts in sustainable solutions for large businesses

Sustainability Today is proud to announce that ESB has been chosen as our Sustainable Energy Company of the Month for their Smart Energy Services business unit. ESB's Smart Energy Services was developed in response to the growing demand from large businesses for sustainable solutions and reductions in energy costs, especially companies who have more energy-intensive technology and production output.



the globe, as well as several offices in the UK.

Three years ago, ESB's Smart Energy Services was established to offer innovative funded

energy solutions to large businesses, helping them to reduce both costs and carbon emissions. ESB's Smart Energy Services is working to drive energy and carbon efficiencies across all industries, drawing on their breadth of expertise across the ESB Group, boasting access to an experienced team of more than 7,500 people. With this firm knowledge base, Smart Energy Services are well-placed to deliver the best results for their customers, leveraging cutting-edge technology, data analytics, and advanced energy monitoring tools.



Head of ESB's Smart Energy Services – Michael Mahon

ESB's Smart Energy Services team includes a range of disciplines and backgrounds, with a wealth of experience in energy supply, sustainable technology & systems, and project management tailored to the needs of each business they work with. Working with large energy users in a range of sectors, such as transport, manufacturing, pharmaceutical, public sector and agri-food, they aim to help any large business who wishes to improve their energy efficiency or reduce their carbon footprint through innovative, bespoke, renewable energy solutions. ESB's Smart Energy Services collaborates with large businesses to support them in identifying and implementing energy efficient solutions which deliver tangible savings and benefits.

Smart Energy Services' Funded Solutions offer guaranteed savings without the need for upfront capital investment. This offers organisations a way to improve their energy efficiency with minimal financial liability.

What's more, the industry leading heating solution providers GI Energy is now operating under ESB ownership, creating the prospect to offer customers the experience and expertise of the GI team.

With access to such an impressive breadth of experience and knowledge spanning 90 years, ESB's Smart Energy Services is the place to go for large businesses that require insights into how they can implement sustainable solutions and reduce their energy costs.



For comprehensive information on their full range of products, visit ESB's Smart Energy Services website or contact them at the email address below.

smartenergyservices@esbgroup.co.uk  
www.esbgroup.co.uk/smartenergy



ESB's Energy Management Hub data analytics system



ESB CEO Pat O'Doherty at daa (Dublin Airport Authority) Solar Farm Installation



A CHP installation at a leisure centre

# Industrial automation experts

Sustainability Today is proud to announce that PI UK has been selected as our Industrial Networking Systems Company of the Month. PI UK is part of PROFIBUS & PROFINET International (PI), the largest automation community in the world responsible for PROFIBUS and PROFINET, the two most important enabling technologies in automation today.

Established in Germany in 1989 by a group of leading equipment manufacturers and technical universities, the organisation had the goal of helping German industry automate as many production processes as possible and link them effectively to IT management systems. PI UK was set up in 1993 in order to bring these technologies and related products to the UK.

PI works closely with other automation organisations to develop and enhance international standards that improve productivity while keeping energy consumption and waste to an absolute minimum. They manage and monitor the certification process for testing products and training installers, designers and engineers.

Serving an exceptionally wide range of industries, including energy management, pulp and paper, chemical, utilities, pharmaceutical, food and drink, and numerous others, PI's



technologies bring substantial benefits an astounding number of companies. For example:

- ▼ **Coca-Cola** – Since 2011, Coca-Cola has been using PROFIBUS DP to manage their entire production line – from the bottle washer to filler to labeller to packer, in their Mannheim, Germany production plant.
- ▼ **General Electric** – GE employs PROFINET in its power generation businesses to monitor and produce electricity for utilities and their customers around the world.
- ▼ **Shell** – Cost savings of 50% were achieved during the installation of Shell's Hamburg, Germany plant due to the use of PROFIBUS to minimise wiring and hardware. It currently blends 350,000 tons of oil per year using PROFIBUS PA.

Many more examples of how PROFIBUS and PROFINET are being used to save energy, cost and other resources can be found on the PI website at: <https://www.profibus.com/technology/case-studies/>

### Energy savings

A particularly interesting innovation is PI's PROFenergy Profile, developed to help automation users minimise energy consumption, cut costs and comply with increasingly stringent



'green' obligations. Existing methods are often crude, expensive and hard to manage, such as switching off equipment manually or installing semi-automated shut-down systems. This is where PROFenergy comes in; the Profile enables control devices, such as PLCs, to send commands to Energy Consuming Units (ECU) to signal pauses, like lunch breaks, holidays, random line stoppages or peak load conditions. On receipt of PROFenergy commands, the software 'agents' in the ECU firmware initiate pre-defined 'sleep' modes for the duration of the pause.

### How to learn more about PI technologies

PI UK has a free-to-attend training opportunity in Manchester on June 26th this year. The event will pay close attention to Industry 4.0 and the Industrial Internet of Things (IIoT). It will cover key application areas and focus on the practical aspects



of using PROFINET, PROFIBUS and IO-Link, from system design and safety considerations through to fault-finding and maintenance.

With demonstrations of actual tools used in configuration and maintenance, it will be of great value to managers, designers, engineers and technicians involved in the design, operation and maintenance of modern automated factories and process plant.

Looking to the future, PI is continuing to develop and deliver industrial standards that will help manufacturing and process industries meet and exceed their productivity and sustainability targets. Indeed, with over 80 million nodes installed worldwide, PI is a market leader in providing state of the art digital communications, expertly addressing all their customers' needs.

For more information on their full range of services, head to their website or use the contact details below. Furthermore, details on the seminar in June can be found here: [www.profibusgroup.com/2019/04/01/profinet-profibus-and-io-link-seminar-june-26th-manchester](http://www.profibusgroup.com/2019/04/01/profinet-profibus-and-io-link-seminar-june-26th-manchester)

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## Environmental Testing & Monitoring News

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## First WRAS 'certified' submersible level sensor

VEGA Controls is proud to announce another innovative first for the water sector. It has achieved the first ever WRAS approval of a submersible pressure sensor as a whole device. This means a full product certificate number registration and listing on the WRAS approved product list. The VEGAWELL submersible pressure sensor is the first and only transmitter of this type to be fully WRAS certified and meet the requirements of Regulation 31 (4)(b).

The WRAS certification means it will not contaminate or harbour microbial growth when used in potable or drinking water. This enables it to be deployed anywhere on the water supply chain: from the heart of a

water treatment facility, to monitoring in the network or measurement of drinking water on a business premises.

Uniquely for this type of sensor, it has been fully laboratory tested and assessed as a complete device/assembly. This was on top of the materials of the individual components, which included testing and scrutiny of their composition, design & surface finishes. A newly certified material has also been added, the 99.9% pure CERTEC® Sapphire ceramic that makes up the sensor diaphragm of the sensor.

This is what makes the measurement of these devices so highly accurate and repeatable with almost zero-drift, yet extremely robust,



pressure-shock and overload resistant. The VEGAWELL WRAS certified transmitter is now capable of cost effective, safe level and pressure measurement of drinking water throughout the supply chain.

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## COPA-DATA announces zenon Energy Day

Held at Manchester's Science and Industry Museum, COPA-DATA will host its second annual zenon Energy Day on Thursday 9 May 2019. The event will explore how control and monitoring technology can be used to improve operations in the sector, through a series of talks from industry representatives.

Attendance is free but spaces are limited, therefore attendees are encouraged to secure their space on the COPA-DATA website.

COPA-DATA plans to provide an in-depth analysis of best practices for the industry, including a focus on distributed energy resource management (DERMs) and distributed management systems (DMS).



"Britain's energy sector is changing rapidly," explained Martyn Williams, managing director of COPA-DATA UK. "As a nation, we've set ourselves ambitious renewable energy

targets, and the industry needs to embrace new technologies to make reaching these targets an achievable goal. At this year's energy day, we're demonstrating exactly how technology can be used to improve the control and monitoring of energy facilities."

Attendees are encouraged to register their interest in advance on the COPA-DATA website at: [www.copa-data.com/landingpage/zenon\\_energy\\_uk/?lang=en](http://www.copa-data.com/landingpage/zenon_energy_uk/?lang=en)

For further details on the zenon Energy Day 2019 or more information on zenon as a software platform for energy, contact the COPA-DATA UK team on +44 (0)29 2032 9175.

# Leading the way to a renewable future



**S**ustainability Today is proud to announce that Moixa has been selected as our Energy Storage Company of the Month, for their development of innovative hardware and software to make energy more intelligent and efficient for homes, and help in the drive towards a renewable future.

Founded in 2006 by Simon Daniel and Chris Wright, Moixa has been developing intelligent battery products since the very beginning. Their first product was the USBCell, a convenient and popular USB-rechargeable AA battery that won numerous awards.

Moixa now has offices in London and Manchester and employs over 50 people, having almost doubled in size in the last few years. Supporting the move away from fossil fuels, they are dedicated to optimising the way people generate, distribute and consume renewable energy. As a hardware and software company, they provide end-to-end solutions for the renewable energy sector. Over the last 20 years, many areas of the UK have seen widespread use of solar panels powering homes throughout the day. Moixa's solar batteries can be used alongside these solar panels to further advance their benefits.

As the UK's leading Smart Battery company, Moixa has developed a Smart Battery which allows users to store solar energy that can be used later, rather than when it's generated, leading to energy bills being reduced by up to 50%. Instead of sending excess energy back to the grid, it can be stored in the battery which can



then be discharged to power the home when the sun isn't shining. The Smart Battery is available in 2kWh and 3kWh, with a 4.8kWh model available for pre-order, and can be either retrofitted to existing solar panels or supplied along with solar panels sourced by Moixa. The company also offer a 10 year warranty on all their Smart Battery devices, as well as a 25 year warranty for their solar panels.

What's more, Moixa provides their Smart Battery customers with the option to join the GridShare membership scheme. This gives customers an extended warranty, and allows them to earn an additional income through receiving a fixed payment of £50 for the first three years. After this, Moixa offers them a profit share option on any future incomes generated from battery to grid services.



As well as this hardware, Moixa offers intelligent software in the form of GridShare. This customisable Cloud-based software platform connects storage devices to the grid to enable smarter energy management. Applying AI and machine learning to optimise power distribution through the grid, GridShare helps customers to maximise the value of their energy. It identifies a home's energy generation, consumption patterns, weather forecasts, and available flexible tariffs, and then uses these data points to generate a personalised charging and energy plan for each individual customer.

As well as domestic usage, Moixa's software also offers benefits for companies. "GridShare can be sold separately to third party battery manufacturers," says Guste Sadaunykaite, "which can help them to optimise existing batteries. What's more, it can act as an aggregator for utility companies to bring together multiple energy assets, offering an overall view of multiple devices." Indeed, the software's analytical tools can help group asset owners understand the behaviour of the fleet and its interaction with the grid. Furthermore, GridShare acts like a virtual power plant (VPP), helping the grid to maintain a stable frequency to avoid blackouts and relieve stress by absorbing excess generation from renewable energy.

Currently, Moixa is working on international expansion, as well as striving to educate people in renewable energy storage to bring about positive changes in the way we power our homes. To find out more information on Moixa's ground-breaking technology, head to their website or use the contact details below.

T 020 8834 1511  
business@moixa.com  
www.moixa.com



## Water, Energy & Environment News

### Hillside culverts cleared to reduce flood threat

The threat of flooding faced by a community in a Welsh mountain valley is being greatly reduced by a culvert clearance programme carried out by Lanes Group plc. The drainage specialist has been commissioned by the county borough of Rhondda Cynon Taf to carry out the surface water drain and culvert cleaning work in and around Cwmbach, near Aberdare. Debris washed down the mountainside and into the culverts during periods of heavy rain and snow melt had greatly reduced the capacity of the culverts, increasing the risk of flash flooding. Drainage engineers from the Lanes Cardiff depot have worked closely with the county borough's own asset maintenance teams to remove and dispose of many tonnes of silt, stones and large boulders. Specialist drainage vehicles have been playing a key role in ensuring the culvert cleaning work can be carried out as quickly, safely and sustainably as possible. The three month programme, coordinated by the county borough, has resulted in the systematic cleaning of drains and culverts



ranging from 100mm to 1,200mm in diameter. Lanes has deployed a recycler jet vac tanker as well as a standard jet vac machine to carry out the water jetting and vacuumation work. A recycler unit can filter and reuse its water, allowing it to stay on station for longer without refilling its tank, increasing productivity by up to 68%. Much of the material removed has been taken away for safe disposal by county borough maintenance teams. A Lanes CCTV drainage survey team has captured HD quality images of the cleaned drainage system, along with an up-to-date map of the system to help the council plan future maintenance.

T 0800 525 488  
www.lanesfordrains.co.uk

### GRIMM successfully launches new aerosol spectrometer

11-D sets new standards in precision, reliability and flexibility

#### Functionality of the 11-D

The device works according to the measuring principle of scattered light detection of individual particles with very high size resolution. For better understanding, this can be compared to an extremely fast money counting machine. "You pour a bag of money into the top and the GRIMM 11-D tells you after only six seconds how high the amount is, as well as the ratio of coins and notes. Other suppliers on the market place the bag with the money on a scale and then say, 'Approximately 5,000 euros', but have no idea whether there are notes or coins in it," says Dr Friedhelm Schneider, Product Manager at GRIMM.

#### Outstanding precision

Unique to this new aerosol spectrometer is the output of nine dust mass fractions, the total number of particles and the particle size distribution with excellent precision.



#### Broad range of applications

The 11-D covers a very wide range of applications where dust mass or number of particles are of interest. Such applications can be: aerosol research, fine dust PM2.5 in interiors according to VDI 4300 Part 11, interior air quality in buildings and vehicles, dust pollution at the workplace according to EN 481 with high time resolution or indication measurements of fine dust in the outside air.

More information about the portable aerosol spectrometer 11-D can be found here: [www.grimm-aerosol.com/products-en/indoor-air-quality/the-dust-decoder/11-d](http://www.grimm-aerosol.com/products-en/indoor-air-quality/the-dust-decoder/11-d)

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## FLOODEX IRRIGEX 2019 best event yet

With an 18% increase in high quality visitors, FLOODEX IRRIGEX, held at Peterborough Arena from 27-28 February 2019, was a huge success, with major companies, such as Marshalls and CPM re-booking for next year already. The Show enjoyed two busy days with visitors from Internal Drainage Boards, Local Authorities, Environment Agency, making up the largest section of visitors, closely followed by engineers, contractors and developers representing the construction industries. The newly formed Association of SuDS Authorities (ASA) was formally launched at

Floodex and it is expected that this will become a regular feature, with their presentation theatre often having 'standing room only'. Developers are coming under increasing pressure to address flood mitigation and SuDS is gaining traction these days, so the creation of the ASA was very timely. This is the only event that is run with the full cooperation of the Association of Drainage Authorities, so has the highest concentration of senior IDB personnel of any other event. Event Director, Jon Irwin, said, "Floodex is fast becoming the 'go to' event for anyone involved in flood prevention,

mitigation and water level management, located in one of the most relevant parts of the UK." He went on to say, "The event is growing stronger year by year and we plan to expand on different parts of the event for 2020." FLOODEX IRRIGEX returns to Peterborough Arena next year from 26-27 February 2020. This is our pick of the best exhibitors from this year's show, listed here in alphabetical order: AMX Solutions, RMA, Royal Smals & TMS Maritime. Further details can be found on this page.

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



## TMS Maritime

TMS Maritime is a leading marine civil engineering contractor with over 25 years' experience. We operate throughout the UK as a specialist in in-water construction, including ports and harbours, pier construction, restoration and maintenance, coastal and river defences and inland waterways. We operate a fleet of versatile marine craft, including modular road transportable systems that we can deploy rapidly and to almost any location in the country. Our versatile fleet combined with our highly trained workforce enables us to react with effective solutions at very short notice. We pride ourselves in finding cost effective solutions to difficult challenges. With a full in-house diving capability, as well as extensive experience in piling, scour protection installation, rock armour placement, gabion construction, dredging and underwater construction, we can offer a one-stop-shop solution to almost any water project. This unique



ability has enabled us to forge lasting relationships with key clients such as the Environment Agency, Network Rail and the Canal and Rivers Trust.

For more information on the range of services that we can provide, as well as an extensive library of projects we have completed, please visit our website at: [www.tmsmaritime.co.uk](http://www.tmsmaritime.co.uk) or follow us on LinkedIn at: [www.linkedin.com/company/teignmouth-maritime-services-ltd](https://www.linkedin.com/company/teignmouth-maritime-services-ltd)

## Schedule 3 FWMA: Wales takes lead

AMX is an asset management system designed to support Local Authorities with the management of their drainage and flood assets. Given the significant number of Welsh Authorities using AMX and in line with the ethos of constant product improvement to support clients, AMX undertook to develop additional functionality within the system to help support SABs in the management of SuDS applications following the activation of Schedule 3 in January 2019. The design process involved creating a working group of team leaders from a number of customer sites to work alongside the AMX development team to scope the processes and requirements. The new module, available to all



customers as part of the standard COTS solution, supports all steps in the application from initial submission, through consultation and review (including capture of all supporting documentation), to the final adoption of assets into the council's Asset Register, supporting ongoing maintenance planning. Looking ahead, AMX is keen to continue enhancements based on customer feedback and aid the SAB

in its role, with the potential for developing a platform for online completion of the mandatory 42-page national application to reduce manual data entry and place the responsibility on the applicant to provide as much data as possible from the outset. Upon visiting the Floodex event in Peterborough it became clear that this move by the Welsh Government has been widely supported and the hope within the sector is that other regions will likely follow suit and AMX look forward to supporting this innovation.

For more, visit: [www.assetmanagementexpert.com](http://www.assetmanagementexpert.com) or search 'LLFA' on the G Cloud Framework.

## Soil nitrate sensors for irrigation

Sensor-based irrigation management has been around since the early 1990s and slowly but surely agriculture is adopting this technology to reduce irrigation costs and improve yields. A basic setup consists of a remote telemetry device with SIM card, LoRa or Sigfox connectivity to deliver the data into the Cloud. The device is fitted with a solar panel for autonomous operation during the cropping season. A rain gauge and a multi-level soil moisture sensor complete the hardware side.



Once the data is online in near-real time the farmer can log on to his dashboard to view his current soil moisture status in millimetres of soil moisture deficit. When needed he can drill down into detail to view crop water uptake and the effects of these irrigations like infiltration rate and depth. This way the amount and timing of irrigations are being

optimised.

To improve efficacy of the irrigations even more the next step is to include fertiliser management in the toolbox.

Innovative soil nitrate sensors have been developed by the John Innes Centre in Norwich (UK). These sensors are based on ion-selective membrane technology. RMA has been evaluating prototypes of the soil nitrate sensors to avoid nitrate leaching into the groundwater, improve yields and reduce fertiliser running costs.

The nitrate sensors have been tested with different types of irrigation (centre pivot, rain gun and drip) under different climatic conditions like desert conditions in Egypt and maritime in Western Europe in different crops.

T +31 85 90 200 32  
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www.rmacompany.nl

## Royal Smals

Royal Smals is a 134 year old Dutch company with great expertise in dredging and aggregate production for the building industry. The company was awarded the prestigious 'Royal' title in 2010 for its progressive landscaping and technological vision.

With the expertise of approximately 90 professionals, Royal Smals has been carrying out hydraulic engineering works throughout Western Europe, varying from capital dredging and reclamation (eg. port construction), maintenance dredging of ports, reservoirs, channels and extraction of aggregates.

Royal Smals has a fleet of 20, road transportable, plain- and cutter-suction dredgers varying from 80 to 600mm and support equipment. The company is specialised in dewatering and working with 'useless' silt, fine sands, and gravel to re-use them in



quays, flood defences, embankments, nature zones, agricultural landfill, etc.

Thank you all for visiting us at Floodex 2019.

Contact: Frits van den Boogaard  
M +31 6 20 74 74 64  
fvd@smals.com  
www.smals.com

## Recycling News

### New 43 litre Enviropod

Leafield Environmental has launched a new range of stylish, slim Enviropods that it claims are ideal for use where available floor space is restricted.



With a small footprint and flat back that enables it to be sited against a wall, the new bin has a substantial capacity of 43 litres.

The Enviropod 43L comes with a choice of WRAP colour coded lid options to suit a wide range of waste streams, each with a relevant aperture and high visibility graphics that actually encourage recycling. An optional A4 signage kit is also available for those wishing to reinforce the recycling message.

Designed for internal use, as a stand-alone unit or in a group, the bin is suitable for use with or without a sack liner. For those wishing to use a sack liner, an internal sack retention feature ensures that the sack skirt is hidden from view at all times.

Rotationally moulded from resilient, self-coloured MDPE, Enviropods are highly durable and not to be confused with lightweight injection moulded alternatives that are easily damaged through rough handling and have a far shorter service life.

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## Sustainable Energy Company of the Month

# Waxman Energy: Making it easier and cheaper for you to switch to solar power

Sustainability Today is delighted to have selected Waxman Energy as our Sustainable Energy Company of the Month. Waxman Energy – of the Waxman Group – is the one stop shop, supplying everything needed to turn a facility's energy green.

The Waxman Group was formed over 60 years ago and the company is still under the stable management of the Waxman family. It would be a slight understatement to say that a lot has changed in the energy industry since Waxman Energy were established. What has remained constant, however, is the company's strong emphasis on supplying installers of PV (photovoltaic, or solar powered) energy systems with the widest range of the highest quality products possible and for the most competitive price.

This is in no small part due to the workforce and work environment cultivated at Waxman Energy's headquarters in West Yorkshire; the team are as dedicated as they are passionate about the products they provide and pride themselves on building and maintaining excellent, productive and efficient relationships with manufacturers and customers alike. Indeed, Waxman Energy have



always strived so as not to be considered a faceless company, disconnected from their clients and partners. Well, thanks to the consistent first-class customer service and attention to detail practiced by the team at Waxman Energy, they have acquired a reputation for nothing less than excellence.

Supplying both to commercial and residential builds and projects, Waxman Energy are big enough to supply the largest of projects – their 40,000ft<sup>2</sup> of warehouse facilities can hold huge amounts of stock, ensuring the delivery of a reliable and consistent service and supply of PV products – yet still pay the same amount of attention to smaller projects and builds.

With solar energy being the fastest growing of energy technologies, there is no better time to utilise the excellent advancements made in the technology, and both make savings to energy bills and do your bit to offset your carbon footprint. Couple the advances in PV technology with the stark reduction in cost and there is little wonder why residential properties are embracing PV technologies.

But it is not simply the residential market which has seen a steep increase in demand for PV technologies, with businesses more often expected to play their part in offsetting emissions



and take a responsible stance with regards to their carbon footprint. Waxman Energy allow a wide range of business and organisations – be they schools, factories or office blocks – to implement changes in how they obtain energy by offering a fully comprehensive PV package.

Stocking everything a contractor would need to install a PV energy system, Waxman Energy supply: solar PV modules, grid tied inverters, PV power storage, mounting systems, PV kits, and PV accessories. Waxman Energy have gone a step further, however, investing in a purpose built training and showcasing room designed to teach installers how to correctly install PV systems while also training sales staff, giving them in-depth knowledge regarding their products – all with the aim of providing the customer a service second to none in quality and professionalism.

T 01422 374114  
sales@waxmanenergy.co.uk  
www.waxmanenergy.co.uk



## Water Treatment Company of the Month

# Arvia Technology Ltd: Water treatment solutions for a sustainable future

Sustainability Today is proud to announce that Arvia Technology Ltd has been selected as our Water Treatment Company of the Month, for their sustainable water treatment system that is revolutionising how numerous industries are dealing with wastewater streams. Established in 2007 by Nigel Brown and based in Runcorn, Cheshire, Arvia also have sales representation in China and Northern Europe, particularly in Spain and Belgium.

It is estimated that if we continue to allow useable water supplies to deplete at their current rate, by 2030 the demand for water will surpass supply by 60%. At a higher level, Arvia is looking to help reduce this gap and have a true global impact on sustainable water treatment.

Water is treated in three stages, and Arvia focuses on the tertiary phase, the step which is the most difficult to treat. Typically, this treatment stage



requires chemicals to remove trace level organics. This produces sludge or secondary waste that needs to be incinerated, which not only uses large amounts of energy but also comes at a substantial operational cost due to trucking waste off-site.



The risks of inadequately treating effluent is great as industrial effluent often contains harmful chemicals including endocrine disruptors which can interfere with the endocrine systems in the body and cause tumours, birth defects and developmental disorders.

Arvia's technology has the ability to eliminate these problems, using their patented Nyex™ treatment systems. "Arvia uses adsorption coupled with electrochemistry, which avoids common chemical treatment drawbacks like toxic sludge disposal," says Mike Lodge, CEO. "It has modular design, offering a plug and play solution which can be adapted to any space and retrofitted into existing treatment works to improve treatment capabilities."

"We are offering a fully circular proposition in terms of economy, a true holistic solution when looking at inputs and outputs," added Eilish Carson, Marketing Manager. "The Nyex™ media regenerates itself within the system, so there is no waste created, and it reduces operational costs as there is no need for replacement or off-site regeneration. Also, the treated water is safe to be reused around the business for cleaning or irrigation due to no chemical dosage, which is extremely valuable in times of water scarcity."

Indeed, Arvia's Nyex™ treatment systems are an evolution in trace level organics removal, offering a unique solution for the reduction of hard-to-treat organics, micropollutants and colour from water.

Water is passed from the top of the unit through a bed of Arvia's patented Nyex™ media. The contaminant organics are adsorbed onto the Nyex™ surface and a low electronic current is passed through, causing the organics to be oxidised. The treated water then flows from the bottom of the unit where it can either be safely used, reused in process, or discharged into the environment. By targeting the organic contaminants rather than the entire body of water, the treatment is cost-proportional to the level of the organic load.

As they continue to build a team of over 40 skilled staff members, Arvia is focusing on growing



their brand awareness in geographies such as China, whose need for advanced treatment develops due to heavy industry, high population and limited usable water sources. Maintaining a strong global trade show presence, they also aim to



stay one step ahead in anticipating their clients' requirements and understanding their pain points. With a successful 12 years behind them, further growth is most definitely on the agenda for Arvia as they remain at the forefront of innovation in sustainable water treatment systems.

For more information, head to their website or use the contact details below.

info@arviatechnology.com  
www.arviatechnology.com



## Farmers flock to agri event seeking diversification advice

Thousands of farmers flocked to Energy and Rural Business Show, held at the Telford International Centre from 6-7 February 2019, to explore diversification options to keep their businesses viable, and 'future-proof' against rising uncertainty. The new event comes from the creators of 'Energy Now Expo' and for the first time showcased the latest renewable energy, farm diversification and low emission vehicle opportunities under one roof.

"We're responding to a time of great ambiguity and

transition in agriculture and have introduced three elements of the show which are defining farms of the future. The Energy Now Expo, celebrating ten years of success this year, was joined by Rural Business Expo and Low Emission Vehicles Expo," says event director, David Jacobmeyer.

According to the NFU Mutual 'Diversification report' issued in November 2018, the most popular diversification opportunities are renewable energy, which makes up 29% of activity, property letting, at 15%, closely followed by holiday lets,

glamping, etc, which makes up 12%. Other types of popular enterprises include livery stables, outdoor leisure activities and farm shops, all of which were heavily featured at the show.

The Energy and Rural Business Show will return in February 2020. This is our second pick of the best exhibitors from this year's show, listed here in alphabetical order: Dunster Energy. Further details can be found below.

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



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## Expert suppliers of renewable heating systems

Dunster Energy has been designing, installing and maintaining renewable heating systems for over 12 years. Starting out in biomass heating, installing woodchip, pellet and log boilers nationwide, they have since developed to include other technologies such as CHP and Ground Source Heat Pumps. The company prides itself on installing user friendly and more importantly efficient systems, with unrivalled knowledge and workmanship.

As well as this, Dunster Energy offers a wide range of services to complement the installations. These include service and maintenance of all biomass boilers, extensions, modifications, RHI support and assistance, and a free system performance evaluation. Committed to excellence in everything they do, Dunster Energy's installations are based on five essential foundations. These are continuous improvement,



value for money, outstanding quality, expert service, and full integration. Indeed, a company with such impressive bases are well-placed to provide industry-leading services.

If you would like to find out more information on how Dunster Energy can help you, head to their website where you can also discover numerous glowing client testimonials. Alternatively, get in touch using the contact details below.

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VII

# Imvelo: The environmental consultancy at the forefront of innovation

**S**ustainability Today is proud to announce that Imvelo Ltd has been selected as our Environmental Consultancy of the Year. Since 2015, Imvelo have been providing outstanding services in helping businesses to implement environmental management systems.

Based in Newcastle-upon-Tyne, Imvelo was established by Tamma Carel out of a passion for making things environmentally responsible. Developed from a dedication to environmental protection and sustainability, along with a wealth of professional experience, Imvelo offers expert support and training using their vast knowledge of environmental management and legal issues.

Providing bespoke and strategic support, Imvelo helps to keep their clients ahead in terms of environmental regulations, which also helps companies to make financial and carbon savings. By working closely with a company's senior leadership team, Imvelo helps them to find solutions for environmental issues and advises them on future decision making, resource planning, and the development of new products and services. They can also deliver training courses, and over the last three years Imvelo have trained over 1,500 people in environmental management, sustainability, resource efficiency, and pollution prevention.



"The last twelve months have been a little overwhelming in terms of how the business has grown," says Tamma. "Last year was our third year in the marketplace, and it made me realise the extent of the business' potential. Sustainability and environmental impact is now dominating the public consciousness, and businesses are realising that they need to start looking at their environmental impact now if they want to be successful in the future. And, of course, I'm ecstatic to have won the Company of the Year award; it's amazing to be recognised for all of our hard work!"

This increase in public awareness is providing Imvelo with the capacity to expand and helping them to gain the infrastructure to scale up. With an increasing demand throughout numerous industries and a growing customer base, Imvelo is responding to the mounting global pressure for environmental consideration and is constantly adapting to meet regulations.

Indeed, the last year has been incredibly successful for Imvelo. At the RWM show last year, Tamma not only had a stand, but had the opportunity to deliver a seminar to a packed audience. RWM is the UK's largest recycling and



waste management exhibition and conference, and as Imvelo's first big event, it was hugely successful in making contacts and garnering interest from various different companies. Tamma was also the regional winner in the Young Entrepreneur Category of HSBC's Women in Business Awards 2018.

Currently, Imvelo is working on a new product to help businesses maintain their awareness of environmental legislation. There are over 200 pieces of environmental legislation in the UK, and a lot of the time businesses unintentionally breach legislation and pollute the environment without meaning to. Imvelo is developing software which will make this legislation more pertinent and accessible, and therefore assist businesses in being at the forefront of environmental management.

What's more, when and if Brexit occurs, it will bring great change to environmental legislation as the UK updates and refines it, so these laws could become even more complicated. Although there is vast uncertainty surrounding how Brexit will affect businesses, especially in manufacturing, Imvelo is doing its best to embrace the risk, looking at the opportunities that will come from it and how they can adapt their services to better help businesses.



Imvelo are also looking into a further innovation, developing technology which can be introduced into environmental training schemes. By using Virtual Reality (VR) mechanisms, companies could upskill their workforce by giving situationally-based learning, allowing staff to experience real life environmental situations without the health and safety risks.

In addition to these innovations, Imvelo offers two IEMA certified courses. These have a prescribed specification developed by IEMA which focuses on enhancing professional development. With rigorous quality assurance processes, Imvelo works with IEMA to ensure those on the course will complete it with



Tamma Carel, Imvelo, accepts the Company of the Year Award from our journalist



knowledge and competencies validated by an independent recognised professional body, as well as receiving an IEMA certificate.

The Environmental Sustainability Skills for the

Workplace suits consists of two courses, which aim to provide staff with the basic knowledge of the agenda, working practices and skills to drive change in their area of business. The Environmental Sustainability Skills for the Workforce course is for staff in any job role or sector, and this aims to provide people with a practical introduction to environmental sustainability so they're equipped to make positive change within the organisation.

The other course, Environmental Sustainability Skills for Managers, is for supervisors and managers in any sector. The course supports



supervisors and managers to understand the strategic and operational implications that environmental sustainability has on them, their team, and their department. This enables them to contribute to improving the environmental sustainability for the entire organisation.

For both courses, no prior environmental knowledge is required and they feature practical activities and workshops throughout. Furthermore, they can be tailored to suit an individual company's needs. As essential additions to the workplace, they help to ensure that all staff have an understanding of environmental sustainability in order to make a positive contribution to their organisation. Furthermore, Imvelo also offers a range of courses, from legal compliance to waste management, and can provide bespoke training courses based on a company's needs. If this wasn't enough, Imvelo also offers e-learning courses which can be adapted to a range of busy schedules.

It is without a doubt that Imvelo is going from strength to strength, as they continue to innovate and provide expert training schemes for an extensive range of industries. If you would like to find out more information on how Imvelo can help your business, head to their website or use the contact details below.

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