



SUSTAINABILITY TODAY

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energy | water | waste | recycling | sustainability

Delta's ESG Performance leads the Electronic Equipment, Instruments and Components Industry in the 2018 Dow Jones Sustainability Indices

Delta, a global provider of power and thermal management solutions, announced recently it has been recognised in the Dow Jones Sustainability Indices (DJSI) 2018 assessment as the industry leader within the Electronic Equipment, Instruments & Components sector for a third time, following previous successes in 2015 and 2012.

Delta has now been included in the DJSI World Index for the 8th consecutive year and in the DJSI Emerging Markets Index for the 6th consecutive year.

The 2018 DJSI survey not only underscores



Delta's continuous dedication towards climate change action and superior performance in economic and social dimensions, but also rewards the company with the highest score in 6 criteria.

Mr Ping Cheng, Delta's chief executive officer, highlighted, "Our long-term commitment is to realize Delta's corporate mission, 'To provide innovative, clean and energy-efficient solutions for a better tomorrow', by leveraging our core competence in high-efficiency power electronics and by developing comprehensive energy-saving solutions capable of lowering mankind's carbon footprint.

"These aforementioned endeavours have helped us lead the electronics industry in 5 major criteria of the 2018 DJSI corporate sustainability assessment: 'Codes of Business Conduct', 'Innovation Management', 'Product

Stewardship', 'Social Reporting', and 'Labour Practice Indicators'.

"And our co-operation with the Delta Electronics Foundation for the promotion of environmental education and green buildings has supported our lead in the 'Corporate Citizenship and Philanthropy' criteria. Furthermore, our proactive effort on climate policy and industrial automation talent cultivation was the main catalyst for improving the 'Policy Influence' score and to achieve this year's industry leadership position.

www.delta-emea.com

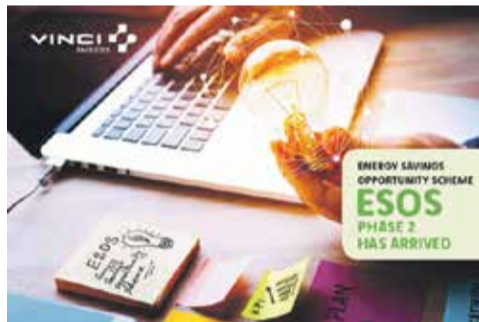
How you can make ESOS Phase 2 work for you...

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

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

VINCI Facilities support many large businesses and recommend that organisations start their ESOS Phase 2 compliance activity now by appointing a Lead Assessor who can guide and advise on the most appropriate route to compliance.

However, ESOS is not just about compliance. ESOS assessments give detailed insights into how your business uses a valuable commodity – Energy. Done effectively, ESOS Assessments also identify realistic opportunities to deliver significant savings for your organisation that can far outweigh the cost of compliance.



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

So you can become compliant AND benefit too...

Contact
paul.lynych@vincifacilities.com
ESOS@vincifacilities.com

Adelphi wins prestigious industry awards

The Adelphi Group of Companies (Haywards Heath, West Sussex) was thrilled to win the prestigious Environmental Initiative of the Year Award at the glamorous Process and Packaging Machinery (PPMA) Show Dinner on Tuesday 25th September.

PPMA established the Environmental Initiative award to recognise one company per year which has "demonstrated the most significant progress over the past 12 months in reducing its environmental impact", with entrants being required to "outline key environmental initiatives and provide key performance indicators of the benefits achieved".

The winning entry outlined Adelphi's eco-friendly production facility, The Friary, which was completed in October 2017.

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



of Adelphi Healthcare Packaging's warehouse, which now produce more electrical power than is used. The building was also constructed to harvest rainwater for use in the company's cleaning and toilets. While work was underway on The Friary, an old artesian well was uncovered, which was excavated, re-lined, and recommissioned. This, along with the harvested rainwater, now serves all the buildings on site with water for cleaning and is also used for machine testing.

To see how Adelphi can help your business, please don't hesitate to get in contact on +44 (0)1444 472300 or email: sales@adelphi.uk.com to find out how we can help.

Drain clean & survey completed

Drainage engineers from Lanes Group plc have carried out cleaning and surveying of surface drains serving a new armoured fighting vehicle test facility in South Wales. They were called in to ensure the drainage system at the facility was in optimum condition with no blockages before it was handed over following its installation.

The test track has been built at the General Dynamics armoured fighting vehicle assembly, integration, and testing facility at Merthyr Tydfil in Mid Glamorgan. General Dynamics UK has been awarded contracts worth £3.9 billion to deliver and service 589 AJAX armoured fighting vehicles for the British Army until 2024.

The test track, built by Griffiths Civil Engineering and Construction, allows the military vehicles to be fully tested before they are handed over to the Army.

Griffiths Site Agent, Chris Williams, said, "The surface water drainage system makes sure the track delivers the same highly-accurate performance test results all-year-round. As such, it was important for us to commission Lanes to carry out the drainage survey and cleansing of all underground pipework. Its drainage survey reports provided the evidence we needed to show the client the drainage system



across the test site was fit for purpose."

A jet vac tanker and a CCTV drainage survey team from the Lanes Cardiff depot were deployed to carry out the work. The drainage system included standard surface water pipes and a network of filter pipes, which collect water from surrounding ground.

T 0800 526 488
sales@lanesgroup.co.uk
www.lanesfordrains.co.uk

High energy users must embrace AI & machine learning technology

Speaking at the FT Digital Energy Summit 2018 in London, Michael Phelan (pictured), Chief Executive at GridBeyond, a leading-edge energy technology company, has urged industry leaders to harness the Fourth Industrial Revolution by exploring AI and machine learning applications in their business energy consumption to uncover new opportunities.

Phelan commented, "The energy revolution has been fomenting for a decade, and we are now in the primary phase of action. Technological platforms, powered by AI and machine learning, support this revolution by driving the energy systems towards a cleaner, safer, more flexible and more resilient electricity grid. The increase in electricity demand from heat, electric vehicles, electrification of business operations and domestic lifestyles, combined with growing intermittent renewable energy sources, has meant that advanced technology is a necessity both in front of the meter and behind the meter."

"Large I&C energy consumers play a key role in



the revolution of the system and the market. By taking control of their electricity usage, increasing energy efficiency, and participating in National Grid programmes to balance electricity supply and demand. Highly advanced technological platforms enable large energy users to fully control their energy assets and embedded generation, improve production processes and predict and prevent system failures, whilst optimising savings and revenue opportunities," said Phelan.

www.gridbeyond.com

Environmental protection through lime



It is with pride Sustainability Today award Lhoist UK with our Industrial Solutions Company of the Year for their innovation and dedication in solving waste and contamination issues for industrial manufacturing and energy production plants; thereby positively impacting the environment.

With a rich and exciting history, Lhoist UK is the UK's leading provider of lime, limestone and dolomite to the steel, energy production and other manufacturing industries whose processes either needs these minerals for direct manufacture, or where Lhoist's products are needed to counteract waste produced during industrial processes.

In 1889, Hippolyte Dumont opened the first factory in Belgium with a key aim to support the steel industry, which is still very much a part of what Lhoist do today. It was the founder's son-in-law, Leon Lhoist, who developed and expanded the company acquiring lime, limestone and dolomite plants in Belgium and eventually France taking the company multinational.

Thanks to incredible successes and a true understanding of the market for lime based minerals, Lhoist now stretches to every corner of the globe with over 100 facilities in more than 25 countries employing over 6,400 employees.

Lime is a key component for steel manufacturing, other industries such as glass manufacturing and of course the construction industry where lime is used in brick and mortar production, but due to its extremely high alkalinity, lime based minerals are finding an increasingly diverse range of uses within waste management, where the high alkalinity of lime is able to neutralise the highly acidic by-products.

It is within this area that Lhoist UK is finding its greatest success in the United Kingdom. With the government's recent announcements regarding plastic waste management, companies are under new scrutiny to ensure they are dealing with waste to minimise the impact on



the environment, which in itself creates new challenges.

At least for the foreseeable future burning plastics that can't be recycled is the only way to ensure these waste products don't find their way into land or sea ecosystems. Unfortunately burning plastics on an industrial scale creates all kinds of acidic pollutants such as hydrochloric acid and, to a lesser extent other acids such as sulphuric in their gaseous forms.

Lhoist has developed lime treatment technology in line with new developments in flue gas technology. Sorbacal® SP and Sorbacal®SPS are the main products that

have been developed for the waste gas treatment market. In simple terms, under a microscope the particles look like Swiss cheese, all full of holes increasing the porosity of the lime and bringing more of it into contact with the gas, improving the effectiveness of the alkalinity, neutralising the acidic waste.

Sustainability Today interviewed Gwyn Watkins, the Sales and Logistics Director at Lhoist UK, to discuss how the year has been so far for the company now that we coming into the last quarter.

"I would say that generally it's been a good year for our business; a great deal of our sales are focused on providing material to ameliorate the environmental impact of waste from industrial processes and the drive to improve performances in that field throughout the UK is still moving forward. We are in a strong position as somewhere near 50% of our output is exported and that spreads the risk to a number of economies in terms of performance, so all in all a satisfactory year – so far!"

As the UK waits with baited breath as to the impact Brexit may have to the economy of the country and its impact on companies operating in the UK and European markets, we asked Gwyn his thoughts on Brexit.



Gwyn Watkins, Sales & Logistics Director UK, Lhoist, accepts the Company of the Year Award

"Ah Brexit! If only we knew what that meant. We are part of a European company and I know our colleagues across Europe are watching the machinations of the Brexit process with extreme interest, and I must be honest with some regret. We are an extremely open and close-knit company and the exchange of ideas, material and just general support across all of Europe is regarded as a given."

"I think like most of the companies in the UK we are prepared to deal with whatever comes and respond with the flexibility and entrepreneurship that the situation demands."

"We are constantly trying to develop plans for a number of scenarios for 2019 and we're hoping we will have thought through the right response for the future we face – but I must be honest it is time and resource consuming, and energy spent on trying to 'second guess' the situation we will find ourselves in, could be better spent on working and developing with our customers."

And it is forward thinking and planning that will see Lhoist UK prosper and grow. Gwyn explains more about what the future will hold for the company.

"Lhoist has always endeavoured to be a company which focuses on innovating. We have never diversified from our core business on making and selling lime, and that means that we are able to devote all of our efforts, and we do spend a lot of money on R&D, to developing solutions to the challenges our customers face constantly."

"A lot of people think that because the use of lime has been well known since Roman times, there is nothing new about the product, but that couldn't be further from the truth – as a company we thrive on our ability to find new solutions to new problems. There is nothing more exciting to us that working alongside one of our customers and facing a challenge together."



"We are lucky our lime goes into a vast range of industries so we have the benefit of exchanging ideas with companies with extremely different manufacturing cultures and backgrounds. As long as we remain open-minded to the new ways of thinking and problem-solving that we often come across with our customer I think we will continue to enjoy and thrive on the challenge of the new and we have plans in place to ensure that we remain as relevant to our customers in the future as we hope we are today."



"We've been making and selling lime to industrial users for well over 100 years and we are confidently planning to be around for at least another hundred, looking for new ways to make lime a bit more exciting than anyone expects."

Finally Gwyn commented on Lhoist's Industrial Solutions Company of the Year award.

"We're delighted! It's always good to receive recognition for trying to excel and we appreciate that Sustainability Today don't give these awards lightly and that means a lot to us – it's great to tell our colleagues working in all the different roles in the company that their efforts have been recognised. We all know that simple expressions such as "thank you" and "well done" are powerful words in all situations and this award allows us one again to say thank you and well done to the whole team in Lhoist – and show them that once again that their commitment and creativity has been recognised."

M 07974 458338
john.whitehurst@lhoist.com
www.lhoist.com



Evolving the utilities industry

Utility Week Live together with edie Live represents the UK's leading exhibition examining new technologies and product solutions that are transforming the utilities industry.

With a focus on interactive seminars, talks and Think Tank inspired interactions, the event aims to create solutions and exhibit key products that turn disruption and turbulence in the utilities industry into 'thriving business as usual' in a brave new digital world.

This year's event, held on the 22-23 May was a resounding success with 3,000+ utilities professionals, 500+ product and service solutions along with 200+ speakers in attendance; and next year's exhibition promises to be even bigger.

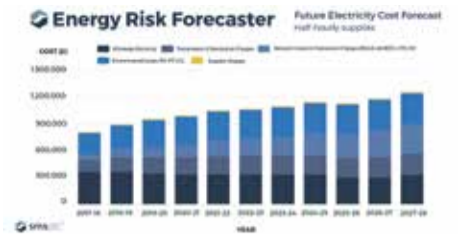
Thanks to a new venue hall at the NEC in Birmingham (Number 3) and with an improved floorplan, Utility Week Live 2019 on the 21-22 May will have new show features, an innovative show theme, along with ambitious plans for the scope



and scale of the show. This is our second pick of the best exhibitors from this year's show, listed here in alphabetical order: Centriforce & SMS Plc. Further details can be found on this page.

www.utilityweeklive.co.uk

New energy risk management tool



Major UK energy services and smart metering company, SMS Plc, recently launched its innovative new energy risk management tool, allowing British businesses to project their potential electricity & gas costs for up to ten years in advance.

The free-to-use Energy Risk Forecaster aims to raise awareness about the impact of increasing business energy bills over the next decade, particularly as a result of cumulative network and policy charges associated with Britain's ongoing low-carbon transition.

Not only does the Energy Risk Forecaster set out to highlight the effect of these growing 'third-party charges', it also accounts for harder-to-predict wholesale energy prices using a sophisticated model that examines the underlying fundamentals of supply and demand, the economics of generation and the expected impact of legislation.

Commenting on the Energy Risk Forecaster, Paul Jarvis, Head of Energy Markets at SMS Plc, said, "We've created this tool in response to the demand from energy users who need to better manage their long-term price risks. As the tool provides a complete picture, building up both non-commodity costs and wholesale price forecasts, it's been extremely well received by our clients."

You can use the free Energy Risk Forecaster to project your 10 year costs at: www.sms-plc.com

Centriforce

The experts in damage prevention of buried utility assets



Centriforce Products Ltd is a Liverpool-based

manufacturer of damage prevention products, serving the global utility market. We pioneered the development of plastic cable covers as a replacement to concrete. Our Stokbord® cable covers are made from 100% recycled plastic, which we recycle at our factory.

Together with Stokbord® cable covers, we manufacture underground protection tape, Tapetile®, also providing protection to buried assets. Our covers and tapes are customised for our customers, eg. lengths, widths, and thicknesses, with company logos and warning information.

We also offer a variety of warning products, including underground warning tapes and meshes, cable marker posts, signs, and markers. Our tapes and meshes are manufactured in detectable and non-detectable versions.

As well as utility damage prevention products, we also provide a range of other damage prevention products such as eco-fencing, widely used in construction projects to protect endangered species. Stokbord® Protecta Boards are used in road construction projects to protect pavements from spoil material and machinery. We provide protective sheets for temporary flooring and also ground protection mats.

For more information, please visit our website at: www.centriforce.com or email: sales@centriforce.co.uk or call 0151 207 8100.



Water, Energy & Environment News



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Public sector energy procurement



It is with great pride Sustainability Today awards Energy For Good (EFG) with this month's Energy Consultancy of the Month for their unique Dynamic Purchasing System (DPS); used for energy procurement, marketed towards Public Sector organisations.

EFG is a market leading company dedicated to providing best in class energy price sourcing to public sector organisations, using an adapted and fully OJEU compliant Dynamic Purchasing System. This DPS is also fully compliant with Public Contracts Legislation 2015, making it ideal for use by Public Sector organisations (local authorities, NHS establishments, the education sector, emergency services etc.)

A 'not for profit' company that draws on over 30 years of experience in the energy sector, founders Andy Blake and Chris Maclean established EFG at the beginning of 2017, having worked with many of the country's largest energy users operating across all sectors, helping them find the best supplier for their energy needs.

A sister company of Open Energy Market (OEM), Andy and Chris saw a clear opportunity for OEM's innovative, simple and transparent energy procurement platform once legislation had changed; adapting it into a Dynamic Purchasing System that would suit the needs of Public Sector energy purchasing.



Open Energy Market

OEM is one of the fastest growing energy tech consultancies in the UK. A winner of the TELCA Consultant of Tomorrow award, their proprietary platform is a mix of technology and expertise, built to save energy buyers time and money. Powered by the belief that the future of energy is open, they provide a competitive commercial marketplace built on insight and integrity that is making significant inroads into the energy industry.

Already trusted by hundreds of companies including Tata, Parkdean, Kettle and Bischof + Klein, OEM's platform allows companies across multiple regions and a with an unlimited number of sites, to take complete control of their energy spending from one insight-driven platform. Instant access to live energy costings allows companies and organisations to make informed decisions and build long-lasting energy strategies.

Other incredible innovations include a new forecasting tool which tracks future energy spend for up to three years and built in supplier pricing modules that generate fully delivered energy prices every day, specific to the energy user's portfolio and future energy contracts. The portfolio which is one of OEM's future forward features is also available for clients to access 24/7.

Energy For Good

EFG's system is unique in that it is the forerunner in OJEU compliant Dynamic Purchasing Systems that specifically sources energy supplies. Energy is comprised of many variables operating from a live traded market, and so knowing when and what to purchase or which supplier to purchase from is fraught with much

confusion. This unique platform automatically evaluates the pricing of each offering in whichever format the supplier might use, and provides the results in a clear and transparent order, allowing the user to select a successful supplier.

For the buyer this gives total confidence, transparency and ease in ensuring that they have selected the best fit supplier at the optimum price. They can award a contract in the knowledge that all the required OJEU notices have been taken care of. Not only does the DPS engage the market to select the supplier in the most effective way, it then transforms into a portfolio manager to assist in keeping control of each and every site and meter, providing energy market intelligence, forward forecasting of future contract prices alongside a repository of all contract documentation. This is automatic, regardless of whether the buyer has secured a fixed or flexible supply contract.

EFG believes in more than just fair and transparent energy comparison and purchase though. Part of what makes them special is their awareness of, and the work they put into, good causes. A 'not for profit' organisation means any excess monies generated through each Public Sector contract becomes invested in that Public Sector's good cause; varying greatly between local children's charities to more global causes, and as you'll read later on, EFG and OEM have pledged to protect 1,000 acres of Northern Peru rainforest for the benefit of everyone through the DPS.

Cool Earth

The reality of climate change is no longer up for debate. The planet's changing climate is the most pressing challenge facing the world today. Deforestation plays a major part in this, contributing to more than 12% of all CO₂ emissions – so keeping the rainforests standing is the simplest and cheapest way to



mitigate climate change.

To support this and increase awareness, EFG and OEM have partnered with the award-winning charity Cool Earth to protect 1,000 acres of at-risk rainforest from deforestation through their unique platform.

Cool Earth was established to tackle the growing and very real problem of Global Warming. A 'not for profit' organisation supported by such influential figures as Sir David Attenborough and the Queen, Cool Earth is the only charity that works solely where the threat to the forest is greatest – on the frontline of deforestation. They form unique partnerships with local people, supporting communities to form a sustainable shield that makes neighbouring forest inaccessible to loggers and saves millions of further acres.

Since June, every business that's traded their energy contract through the OEM and EFG platforms have directly protected at-risk rainforest. The platform translates the total footprint of a client's energy-contracted building space and funds Cool Earth to protect the equivalent area of rainforest through their community partners.



EFG and OEM are dedicated to opening up sustainable routes to energy procurement for every client, of which the Cool Earth partnership is just one crucial part. Their market-leading software backed by expert service helps businesses put an emphasis on building better and longer-lasting energy strategies as well as accessing ways to minimise every customer's impact on the environment. They save customers time and money, but also provide access to advice and support that meet both current and upcoming legislation, enhancing a company's strategy for the future.

EFG's services can reduce energy costings quickly and efficiently, with zero hassle and disruption; and by using their services you'll be helping to protect irreplaceable rainforest in Northern Peru. If you'd like to take advantage of these incredible services, visit the websites below to find out more, or contact the team today.

M 07851 751820
info@energyforgood.org.uk
www.energyforgood.org.uk

