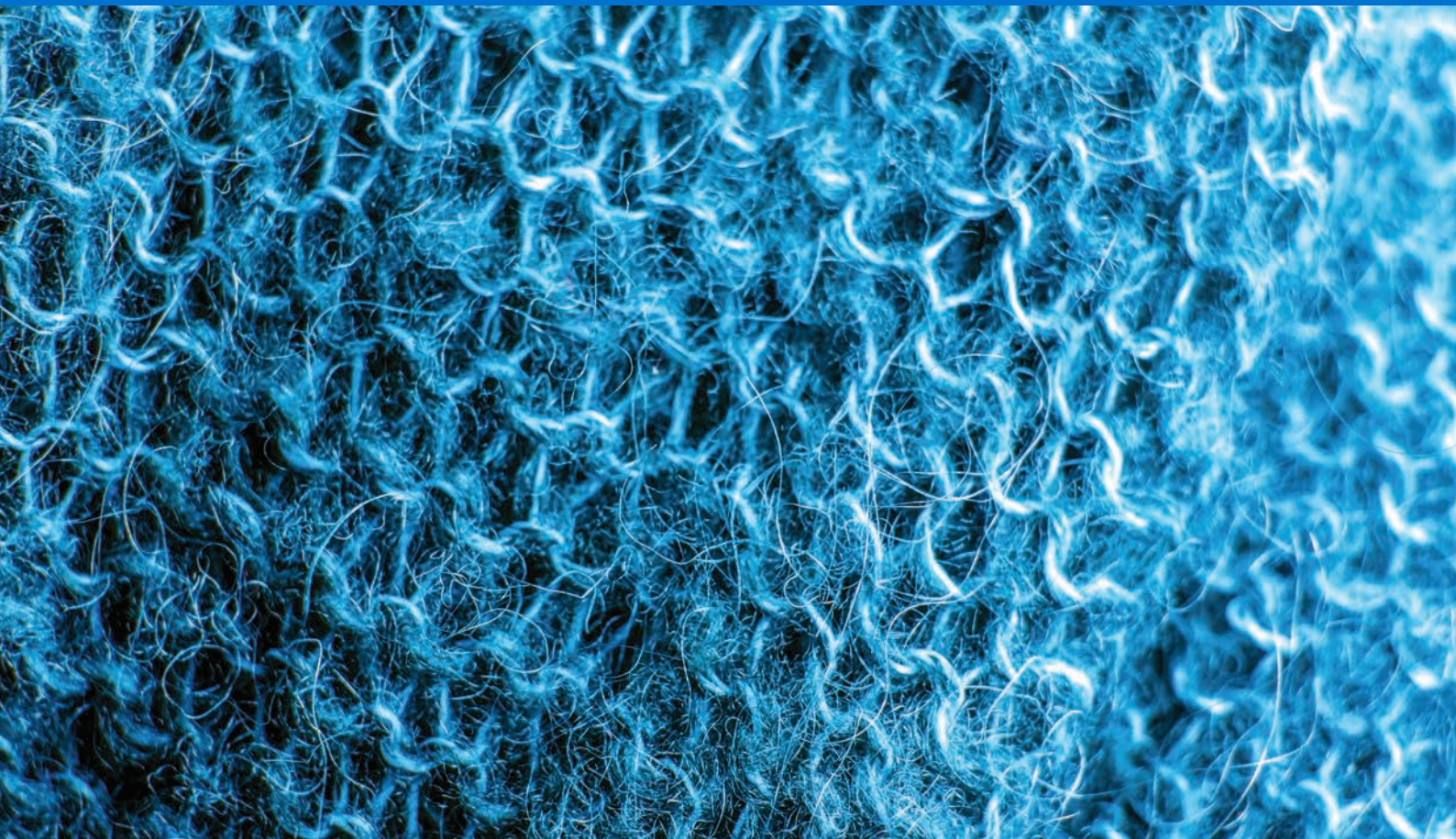




NWUPC Sustainability News



April 2018
Issue 10

Welcome to the tenth edition of ECO*nn*ect, the NWUPC's e-newsletter focusing on Sustainable practices and projects from across our member and supplier base. There are some fantastic projects being undertaken by our members and suppliers alike and we are delighted to be able to shine a spotlight on them.

If you would like to feature in our next edition, please contact **Rikaya Knott**.

Godfrey Syrett

Sustainability Tour

The NWUPC Furniture sub-group have had the pleasure of participating in Godfrey Syrett's Sustainability Tour, which had the aim of enhancing the sub-group's insight into the origin of the company's products, alongside their key sustainability initiatives.

On 24th January, the sub-group began their two-day tour at the Camira Yarn Factory and HQ in Huddersfield, one of the main fabric manufacturers used by Godfrey Syrett. Upon arrival, the sub-group explored the factory and witnessed the spinning of raw wool into yarn.

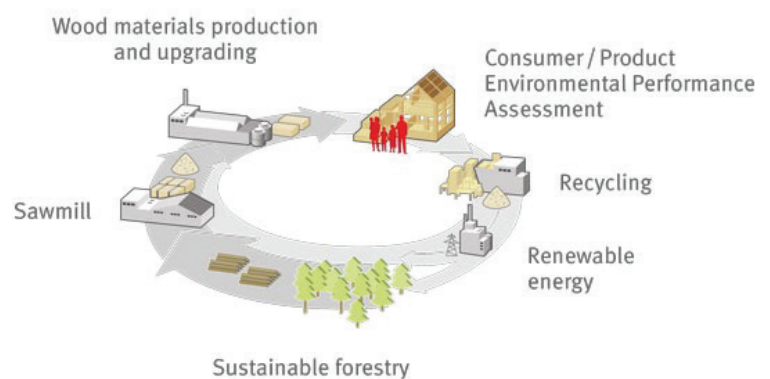
Members of the sub-group were able to gain further understanding into Camira's wool production during the guides' discussion over the course of the tour, which described the organisation's strict sustainable farming and animal husbandry processes. Camira manufacture fibre fabrics constituted of innovative bast fabric blends of pure new wool and other natural textile fibres. The use of these intelligent fibre solutions within Camira's wool spinning facility is highly encouraging in terms of future fabric sustainability, as these products are rapidly renewable, alongside robustly meeting European flammability standards.

The NWUPC furniture sub-group subsequently travelled to the Camira Fabric Factory in Meltham and witnessed the weaving of the yarn into fabric. Camira supply a wide range of excellent fabrics to a global market and the sub-group examined a number of different samples, and acquired knowledge regarding the production and properties of hemp as an emerging alternative to traditional fabric. Hemp requires little maintenance, has a quick growth rate leading to high yields, and crucially needs very little water or pesticides, characteristics indicating a key product for future fabric sustainability.

On day two of the tour, the sub-group returned to Godfrey Syrett, and attended a presentation on the organisation's sustainable initiatives to reduce the environmental impact of production. One section of the presentation was on Godfrey Syrett's water-based glue that is now used in the manufacturing process. Using water-based glue has a positive impact on the environment, not only from a chemical aspect, but also as products can easily be broken down and recycled. To help reduce the amount of waste from conventional painting methods, furniture is now coated in powder-based paint where the wastage is less than 5%.

The presentation and tour undoubtedly demonstrated Godfrey Syrett's sustainability achievements. Godfrey Syrett's ultimate sustainability aim has been "Zero to Landfill", and the organisation have so far managed to reduce this to less than 4% within waste products, a significant victory in terms of ecological output. The last leg of the tour was a visit to EGGER UK, Godfrey Syrett's main chipboard supplier, and one of the leading manufacturers of wood-based panels in Europe, who regard sustainable forest management as an emerging top priority for the organisation.

Especially significant is EGGER's responsible usage of raw wood material within a closed product cycle, with the focus on conserving resources. Climate change is another key consideration within EGGER's sourcing and manufacturing processes, which they have addressed through reducing CO2 emissions through heat and environmentally friendly electricity within the organisation's own biomass power plants. This focus on reducing the effects of climate change has led to approximately three quarters of their CO2 emissions for energy being from renewable and CO2 neutral fuels.



The tour in its entirety very much displayed Godfrey Syrett, Camira and EGGER's investment in drilling down the supply chain to promote further sustainability at all tiers.

GODFREY SYRETT





A very special thanks to Godfrey Syrett for hosting two intriguing and absorbing days and to Camira and EGGER for their hospitality and informative tours.

NWUPC also express their gratitude to both Lorraine Edwards and Huw Evans from Keele University, and also Angela Reppion and David Kerry from Liverpool Hope University for attending.

For more information, please contact Wynn Morris, Regional Sales Director, Godfrey Syrett.
Email: Wynn.morris@godfreysyrett.co.uk Telephone: 07818 564 408



New: Accelerated biodegradable **Wecoline Full Cycle® pads** by Americo

Wecovi Ltd have been supplying Bunzl Cleaning and Hygiene Services with Eco Friendly Innovative products for 25 years.

The importance of supplying products that are of the highest standards and at the height of innovation, which also reduce the environmental impact is more relevant than ever before. And this is understood by both Bunzl CHS and Wecovi Ltd.

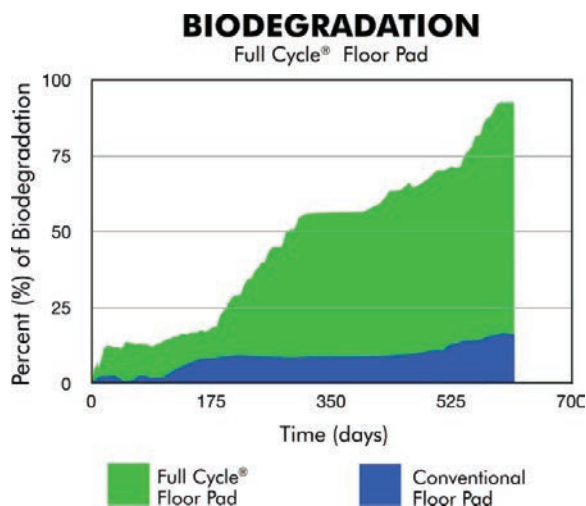
With budgets smaller than ever, particular within the Education system the Wecoline range manufactured by Wecovi Ltd is the number one choice for Bunzl Cleaning Hygiene Supplies.

Bunzl CHS not only know that the Wecoline products are of the highest standards of quality but are also extremely cost effective as of the

way the products are manufactured in particular the Wecoline Full Cycle® Floor Pad Range.

Biodegradation in more than 92,5% within 616 days Wecoline Full Cycle® pads by Americo are certified by Green Seal™ for Environmental Innovation. Full Cycle® pads made using 100% recycled PET plastic and specially formulated to rapidly biodegrade* once discarded into an active landfill.

wecoline®
PADS BY **americo**



Cleaning and maintaining floors is a job for professionals. They achieve the best results with the Wecoline Full Cycle® pads by Americo.

We are willing to help you

Wecovi Ltd are committed to supporting Bunzl CHS and work alongside all of its departments and employees.



Alternatively contact the BunzlCHS regional account manager for NWUPC:
Debbie Gaskell 07721 378940
debbie.gaskell@bunzlchs.co.uk



Siemens and Keele University in Landmark Energy Partnership



SIEMENS



Keele University has appointed engineering giant Siemens to turn the West Midlands-based University campus into the largest single integrated electricity, gas and heat Smart Energy Network Demonstrator (SEND). It will be the first facility in Europe using at-scale living laboratory research alongside the development and demonstration of new smart energy technologies and services in partnership with both business and industry. This large scale project also involves the digitalisation of

24 substations and the installation of over 1,500 smart meters and 500 home controllers within a 5 MW renewable integration package.

This pioneering Smart Energy Network Demonstrator (SEND) is part of the England 2014 to 2020 European Structural and Investment Funds (ESIF) Growth Programme, and is funded by Keele University, the Department for Business, Energy and Industrial Strategy (BEIS), and the European

Regional Development Fund (ERDF), building on Keele University's investment within energy and other utility networks over many years.

Professor Mark Ormerod, Deputy Vice-Chancellor and Provost of Keele University, commented: "The Smart Energy Network Demonstrator (SEND) is a fantastic example of innovation delivering really tangible results for Keele University, businesses and the wider UK economy, as well as major societal benefits. It puts Keele and our campus at the forefront of the new, more sustainable, energy landscape – the technology being deployed represents a revolution in smart energy technology for UK universities. Keele University is part of the Smart Energy Alliance, along with local partner Stoke-on-Trent City Council, and there is real momentum building in the area for developing intelligent, sustainable and low carbon energy networks as a catalyst for economic growth within the city and beyond."

Carl Ennis, Managing Director at Siemens Energy Management said: "This landmark project will provide a society-based demonstrator for the research community, the energy industry, and local communities. It will be at the centre of a smart and flexible network of energy supply and storage – which will reduce emissions, improve security of supply to the campus and be open to further innovation from the academic community."

We are seeing decentralised energy as a key trend in the UK and are delighted to work with an innovative partner such as Keele University to drive this intelligent energy technology forward."

The demonstrator will be a representation of "real world" infrastructures in the UK with a mix of technologies from different suppliers used on site. This will enable a smart analysis of energy consumption for the campus, so that demand can be better managed locally according to factors such as the number of students on site at any one time and energy needs of individual buildings. The project will also allow businesses to access the University's unique infrastructure in order to develop and test renewables and smart energy technologies.

The Association for Decentralised Energy Director, Dr Tim Rotheray, added:

"When the UK mixes the best of engineering and ingenuity, we see innovative solutions developed. Decentralised smart energy systems, designed with user needs at front of mind, can deliver greater efficiencies, lower emissions and cost savings. The UK is building a strong reputation as an innovative market leader in the smart grid energy revolution and projects such as these clearly demonstrate this reputation is well deserved".

The Senator Group

Our Recycling Division: **Sustain**

For the past 15 years or so, The Senator Group have been recycling our own internal packaging. It started as mainly cardboard, but over time we have applied the Reduce, Reuse, Recycle philosophy to our packaging.

Nowadays, not only do the Group only use packaging that is absolutely necessary for the product, but we even use other materials other than cardboard. We have introduced EPS (Polystyrene corners), LDPE (Shrink/bubble wrap) and blue Nova foam (blue LDPE edging foam) to our recycling streams. For the past few years we have been very proud to say that we are zero landfill.

However, one of our key concerns has been the end process regarding the external packaging we send out each week.

The production output per week has the capacity to be approximately 6k to 8k chairs within the

Seating product line alongside 20k-25k Desk panels. After careful consideration of this issue, we have set up an innovative recycling collection scheme whereby we have gained the ability to backfill our own delivery vehicles through our own unique company packaging.

Our operation consists of providing clients with several 1 tonne recycling bags. When we deliver new product to the client, they would then install our furniture using the original recycling bags. Cardboard and paper would go in one bag, whilst plastic and EPS would go into another. The client then has the ability to return the bags to their Distribution Centre. When new product is next delivered, we would backfill our delivery vehicles with their packaging, thus returning our own 'external' packaging. We have now reached the stage where we are receiving up to 900 bags per month of external packaging.

Our organisation uses different streams for each material; cardboard is re-pulped as cardboard, shrink wrap is melted and re-extruded as more shrink wrap, but the most interesting packaging by far is Polystyrene (EPS).

Through backfilling our returning delivery fleet, we now have a much lower emission rating and a highly cost efficient way of receiving back 1000s of cubic metres' of bags per year.

Within these bags is packaging that we are now able to re-use, with EPS being one of them. Over the past few years we have re-used over 300,000 pieces of mainly EPS packaging. If we are unable to reuse the EPS, the product is processed in our briquette, which compacts the 90% air material about 40-50 times. Once the process is complete, a cubic meter of EPS weighs around 500-600 kgs, and is estimated to be the equivalent of 40' artic trailers worth in its expanded form. This year we expect to process approximately 25 tonnes of EPS and reuse roughly 120,000 items of packaging. Besides the enormous financial savings gained, there are significant emissions savings which give a massive environmental benefit.

The Senator Group even offer a furniture recycling service, using the same method to retrieve unwanted furniture, and strip these furniture items down to their components. Hard plastics are separated into their different polymers, granulated and re-extruded in to items such as pens, pencils, paper trays, mouse mats, coffee coasters etc. Metals are scrapped and weighed in, fabric is stripped from chairs and used for sports equipment, whilst seating foam is stripped and reused as carpet underlay. Wooden furniture is shredded and used in our biomass burner to fuel the factory as green energy.

We have recycled around 250,000 items of furniture over the last few years, with zero landfill. On completion of any project we also issue a certificate that illustrates the emissions saved and both the packaging and furniture tonnage we have been able to divert from landfill.

Going forwards The Senator Group will continue to invest in Sustain: our recycling division, and continue to make a positive impact on our environment.

If you have any further questions on our recycling processes or would like to arrange to visit our Sustain facility, please contact us:

**James Knight -National Sales Manager
Education**
Tel: 07721 260642
jknight@thesenatorgroup.com



A brighter sustainable future through **smarter energy...**

Smith Bros (Caer Conan) Wholesale Ltd are a progressive business specialising in Electrical Materials supply with a commitment to help the customer implement new technologies to help meet the demanding sustainability requirements expected within the education sector.

As a business, we take environmental and sustainability seriously and what better way than to lead by example?

As a starter we are accredited to the latest standards in ISO9001:2015 (Quality Management), ISO14001:2015 (Environmental Management) and OSHAS18001:2007 (Occupational Health and Safety). At the heart of this is an Integrated Management System, Environmental Improvement and Sustainability Plans, where we set year-on-year targets to reduce energy and fuel usage, waste to landfill and water usage as well as social responsibility objectives such as local youth employment through apprenticeships. In 2017 we recycled 6.5 tonnes of cardboard and 2.5 tonnes of plastics from our Main Distribution Centre based in Doncaster and reduced our energy consumption by 16.5% from 2016 through further

implementation of greener technologies such as LED lighting and Solar PV across our sites.

Smith Bros operate their own vehicle fleet with nationwide coverage and implement a Greener Fleet Policy to help reduce the impact of our activities. We are also trialling the latest hybrid technology available in goods vehicles, efficient driving techniques training and aerodynamic teardrop bodies.

How does this help in the **education** sector?

Smith Bros (Caer Conan) Wholesale Ltd. are your UK supply chain partner for a whole range of sustainability products and services available for education, in order to help you both reduce the impact of your carbon footprint and easily meet environmental obligations. These include a wide variety of LED lighting for all applications, Solar PV, Gas Boiler Optimisation, SMART technologies and waterless urinals right up to the latest developments in Battery Storage systems.

The sustainability culture runs deeper still with many products sourced from UK manufacturers such as Thorn, Eaton Cooper, INDO lighting and CP Electronics to name just a few.

Via the North West Universities Purchasing Consortium (NWUPC) Electrical Materials Framework, all these products are available along with all other electrical materials we have been supplying since 1925. Working with our partner Save Money Cut Carbon, we can provide the full 'cradle to grave' service for your sustainability

requirements. This starts with an appraisal of your chosen installation to see where savings can be made; a proposal itemising the design including the potential savings, payback period and required capital investment, installation requirements and spares requirements going forward.

No capital budget? Don't worry, we have extensive experience in providing funding packages for schemes via organisations such as Salix to offset the initial cost against savings.

Case Study

Eastwood Community School significantly reduces operating costs!

The Eastwood Community School in Keighley were looking for advice on ways to reduce budgetary pressure through cutting operating costs. After our experienced partner, SaveMoneyCutCarbon, conducted an initial full site survey, we were able to provide a detailed analysis on the huge savings which could be produced through a full LED lighting retrofit programme.

This project was fully managed from survey to specification, including the initial funding application, all the way through to installation, testing and monitoring.

As part of our end-to-end service, a complex funding application was made on the school's behalf for a Salix finance interest free loan to meet initial project costs, with the repayments ultimately covered through the energy savings.

The survey identified that many of the light fittings were unchanged from the school's opening 28 years ago and that new LED replacements would not only cut costs but would also improve the light quality whilst reducing their carbon footprint. The district council also requested that a full lighting design was drawn up, which the team completed with a trusted LED supplier, BG Luceco.

It was important to ensure that the 600*600 LED panels installed in the classrooms and offices offered the best quality light with a unified glare rating (UGR) of less than 19, meeting recommendations within LG7.

The LED retrofit removed fluorescent tubes that generally only last 5,000 hours with a gradually degrading light quality over this life span. By contrast, the LED panels are very reliable as a light source, lasting over 50,000 hours of continuous usage, largely eradicating maintenance costs. Each fitting was covered by a five-year guarantee.

KEY PROJECT DELIVERABLES

- The LED retrofit will reduce lighting bills by more than £4,400 per year
- Carbon footprint will be cut by 66.2%
- Full Salix Fund financing at zero interest, project is self-financing with payback in around 7.5 years
- Reduced maintenance costs
- Reduction in electricity usage by 41,000kW/h



Case Study

Eton College sees the light!

As one of the worlds most respected independent schools, Eton College has reduced energy costs by more than 61% with a full LED lighting upgrade in three of its houses.

The key details of our initial brief were:

'To ensure a better light quality whilst achieving energy efficiency with annual savings and becoming a more sustainable organisation with carbon emissions reductions'.

This required the replacement of more than 770 lamps and fixtures, including panels, tubes, downlights and lamps in a multitude of areas, such as corridors, communal areas and stairwells where luminaires with a microwave sensor and dimming functions were installed. The LED lighting solution is fully supported with a no-quibble five year manufacturer's warranty.

The result was savings of more than £9,500 a year, the Colleges carbon footprint cut by nearly 62% and a return on investment of 4.67 years (based on a 30 week per year usage).



Smith Bros (Caer Conan) Wholesale Ltd are the go to people for Universities that want to reduce budget pressures, achieve sustainability improvements by cutting carbon emissions and cut the cost of lighting, heating, water and site maintenance.

For help and advice on improving your lighting environment contact us:

T- 01302 366922

Email: info@smithbrosuk.com

www.smithbrosuk.com



Branded EV Charging Solutions

YESSS Electrical are committed to sustainability and have worked to minimise our own environmental impact with accreditation to ISO14001 & ISO50001. Within our own business we have seen first-hand the positive impact that EV charging solutions has had for both encouraging uptake of Full EV and PHEV in our fleet and as benefit to our Energy Management assessment under ISO50001 and ESOS.

YESSS EV & Energy:

Our experience has led us to make a direct investment in YESSS EV & Energy; this division has been set up to provide our customers particularly HEI's with an EV & Energy specialist who will work directly with universities to assist them with implementing and improving their own sustainability policies and reducing their carbon footprint.

YESSS recognise that to encourage uptake of electric vehicles within an organisation, an effective charging infrastructure needs to be available. With many HEI's now looking at reducing the environmental impact of travel demands, from both business and commuting miles YESSS EV & Energy looks to work with you to offer bespoke solutions as an existing framework supplier.

We work together with the industry leading electric vehicle charging equipment manufacturers, which means we are able to provide bespoke, independent charging solutions,

ranging from one simple wall mounted charger to branded, multi-site chargers with an online portal for remote management.

YESSS has recently been in consultation with UCLan and has developed a proposal to help them create an EV strategy and help aid EV adoption which includes the following:

- **Twin outlet floor mounted pedestal chargers with branding**
- **GPRS network connection**
- **Pay-to-use system through mobile phones**
- **Remote monitoring over several sites**

This will enable a near admin-less system with real data, to help support further decisions on the roll out of future charging points around the various campuses. YESSS is committed to working with HEI's around the UK to help them improve and implement their sustainability policies and can offer free of charge help and advice on not only EV but all available energy saving measures.



FOR MORE INFORMATION DO NOT HESITATE TO CONTACT US



Premier Paper **Carbon Capture**

Every sheet of Woodland Trust Office Paper sold contributes directly to its work as the UK's leading conservation charity.

The Woodland Trust works tirelessly to create a UK that is rich in woodlands which can benefit our environment and be enjoyed and valued by everyone.

Woodland not only provides a rich, bio diverse environment for wildlife but also provides us all with green, open space for rest and recreation. More than 1,000 woodlands throughout the UK are owned or managed by the Woodland Trust with free and easy year round access for us all to enjoy. Trees improve our quality of life, making our local communities and neighbourhoods greener and more pleasant places to live.


Carbon Capture®

The amount of CO₂ generated from the production, storage and distribution of this paper has been calculated and captured by planting trees within the Trust's Woodland Carbon Scheme.

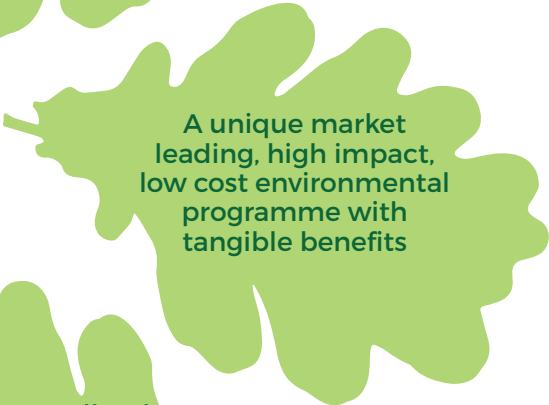
The scheme operates under the Government's Woodland Carbon Code, a voluntary standard for woodland creation projects in the UK. This independent certification to the highest standard provides both assurance and clarity about the carbon benefits of these sustainably managed woodlands. It is calculated that 25m² of native UK woodland will capture and store one tonne of CO₂, creating large areas of new native woodland, which will, over time, remove hundreds of thousands of tonnes of carbon dioxide from the atmosphere.

Environmental issues are becoming more and more important to organisations of all sizes and as carbon reduction strategy often provides a commercial advantage, the Carbon Capture programme goes one step further.

What is Carbon Capture?



A method of mitigating CO₂ emissions which provides a reduced carbon solution for organisations



A unique market leading, high impact, low cost environmental programme with tangible benefits



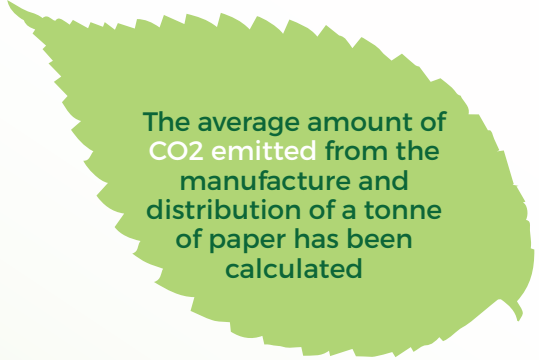
Creates native woodland in the UK and provides habitats for wildlife and green spaces for all to enjoy



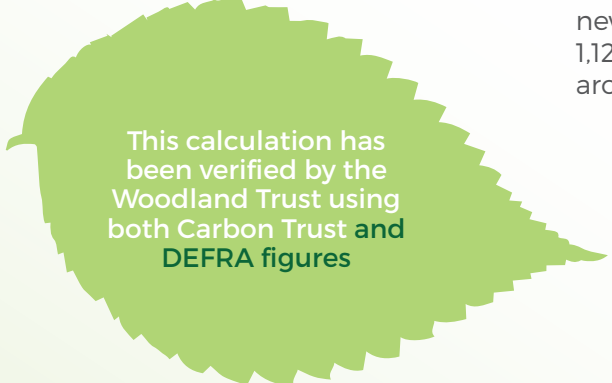
A demonstration of an organisation's values and responsible approach to the environment

How does it work?

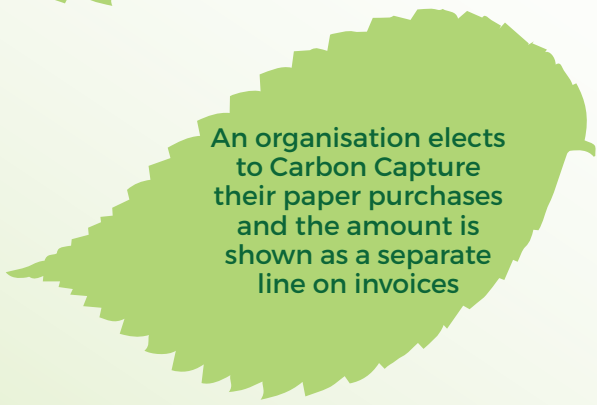
The Premier Paper Group is offering customers and their clients the opportunity to capture the CO2 emissions from their paper purchase by planting native woodland, right here in the UK, through the Woodland Trust and the Woodland Carbon scheme.



The average amount of CO2 emitted from the manufacture and distribution of a tonne of paper has been calculated



This calculation has been verified by the Woodland Trust using both Carbon Trust and DEFRA figures



An organisation elects to Carbon Capture their paper purchases and the amount is shown as a separate line on invoices



Signing up to Carbon Capture brings many benefits and creates related marketing opportunities



The Paper

Every sheet of Woodland Trust Office Paper supports projects that improve biodiversity, enhance social wellbeing and help the UK landscape adapt to climate change. Much of the energy used to make the Woodland Trust Office Paper is generated from waste materials within the pulp and papermaking process, resulting in zero CO2 emissions from fossil fuels. Also, any excess heat from the process is piped to a community heating project that services some 3,000 homes and civic buildings in close proximity to the mill. Woodland Trust Office Paper is produced to the most demanding environmental standards.

NWUPC's Impact

Through using Woodland Trust Office Paper, NWUPC Ltd have helped to create 2.8 hectares of new native UK Woodland during 2017, capturing 1,120.29 tonnes of CO2. This is the equivalent to around 5 football pitches.

Finding the right cleaning products isn't always easy, especially when considering more **sustainable** or **greener** products.

One product range that is highly effective yet also environmentally friendly is the Purus Pro Bio630 range. Produced in the UK under ISO 9001, this range offers hard surface cleaners, hand sanitiser and hand soap, all of which consider the well-being of both the individual and the environment. Even the chemical spray we use on worktops and cleaning cloths can negatively affect our environment. Despite the chemicals used being washed away and processed through a water treatment plant, small quantities can enter our rivers, canals and other waterways, posing a direct threat to our ecosystem.

This is where Purus Pro Bio630 comes in. It is soluble in water and is regarded as being effectively removed within the waste water treatment process, thus making it harmless to plants or animals. As well as being 100% biodegradable, the products have a neutral pH level of 6.5-7.3 and are tested to be safe for our skin. PH neutral products such as this should be used whenever possible, whilst highly acidic and alkaline products should only be used on some surfaces in certain circumstances and as little as possible. However, a neutral pH does not mean less cleaning power. If you or your staff are coming into contact on a regular basis with cleaning products then using Purus Pro Bio630 ensures complete elimination of skin irritation. Bio630 is also less likely to cause adverse health effects or damage surfaces, so is better for both the user and the environment.

Yet the environmental considerations of the product does not jeopardise its effectiveness. Approved to **21 BS EN standards** for its effectiveness against pathogens and bacteria, including BS EN 1276 which proves a bacteria **kill rate of 99.999%** within 5 minutes, the **Bio630 is able to kill bacteria within 30 seconds**.

What's more, Bio630 is highly effective in reducing the risk of the transmission of challenging microorganisms like **Clostridium difficile, MRSA, E.coli, Salmonella, Legionella & Listeria**. Containing no irritants in its formula, Bio630 provides a residual barrier and protects hard surfaces for up to 30 days and leaves hands bacteria free up to 6 hours. ALL products within the Bio630 range are antibacterial and alcohol free.

For efficiency and cost effectiveness the products are available with a 5 Litre refill option, which is a quick and easy solution to reducing wastage on throwaway smaller packaging. By adopting reusable and refillable bottles and products within your University it's a simple change to make to show your willingness to engage with 'greener cleaning'. This is just one of our product ranges that can help improve your environmental and sustainability credentials.

For a starter kit of Purus Pro Bio630 please visit: **www.chespackhygiene.com/purus-pro-bio630-starterkit.html** or call **01829 773 015**.

With over 30 years of knowledge, our experienced team will recommend solutions that meet your challenges.

As a leading provider of cleaning and hygiene solutions, we work with our customers to drive improvements in one or all of the following three areas:

Cost Savings, People Well-being and Environmental Benefits.

For further information on who Chespack Hygiene are and other solutions we can offer please visit: **www.chespackhygiene.com**



Car Clubs as a Sustainable Solution on Campus

MMU and Enterprise have been in partnership for almost three years.

From inception, our objective was to stop staff using their own personal vehicles for business travel. The main driver for this was to reduce the risks associated with business travel in a personal vehicle and migrate staff journeys into managed Pool Cars.

Initially the focus of the reduction was directed at academics; however, this began to expand to further faculties such as careers team. This scheme started off with two vehicles, including a Nissan Leaf 24kW, and was piloted as a free vend for the first year.

During this time the scheme had 50 users, with the vehicles being fully managed through Enterprise including fortnightly valeting, 24-hour support, and assistive launch events to promote EV vehicles, even including access to a Manchester virtual fleet.

MMU invested time into training staff how to use the vehicles via these launch events which utilised 20 minute slots in order to fully demonstrate the vehicles. The events even allowed staff driver privileges, which helped to reduce their anxiety around using an EV vehicle and proved to be a huge success.

9 months into using the scheme, it became apparent that there was an expansion required. The fleet grew to 5 vehicles, of which one of the vehicles was housed at the Crewe campus. The number of active users has grown to 192 to date with a very wide user base across the University and this continues to grow.

The introduction of the Car Club has impacted other areas such as staff retention, whereby staff are able to have easier single mobility access rather than multiple modes of travel. In addition, staff have been able to leave their private vehicle at home as they now have access to the Car Club whilst they are on campus, which in turn has reduced parking pressures.

Certainly from a sustainability perspective, inter-campus travel in addition to normal business trips has been conducted in cleaner, zero emission vehicles which has resulted in better air quality for Manchester and the surrounding areas.

Over recent months the University has added a further two vehicles which are Hybrids. The reason for this introduction was to bridge the gap of users of the EV fleet travelling beyond the range of a full charge.

The Pool Fleet is averaging 1,500 miles per month across 5 vehicles since inception with a total mileage of over 50,000 miles during a three-year period.

Furthermore, the fuel cost per year was dramatically lower at just over £1,300 in electricity. In comparison, if the journeys conducted in the Pool vehicles had been made in a private vehicle this would have cost the University over £20,000.

Carbon savings to date for all 5 vehicles is 3.61 tonnes of CO₂. This is based on trips being carried out in a medium sized petrol vehicle and also upon carbon deduction within the vehicles' electricity charge.

Overall the programme has been a huge success as the University achieved a number of key objectives such as lowering CO₂ and reducing risk, cost and parking pressures.