



UK Trade
& Investment

UK Clean and Energy Efficient Production Directory



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Introduction

Since the industrial revolution of the 1800's Britain has led the way in ensuring its industrial production is clean, having a minimum impact on the environment, and energy efficient.

It has been achieved over many decades of developing best practice driven by tough legislation and social responsibility. This has resulted in the UK being home to some of the most innovative Clean and Energy Efficient Production (CEEP) companies in the world, serviced by an extensive supply chain geared to provide energy efficient and environmentally-compliant factory equipment and services.

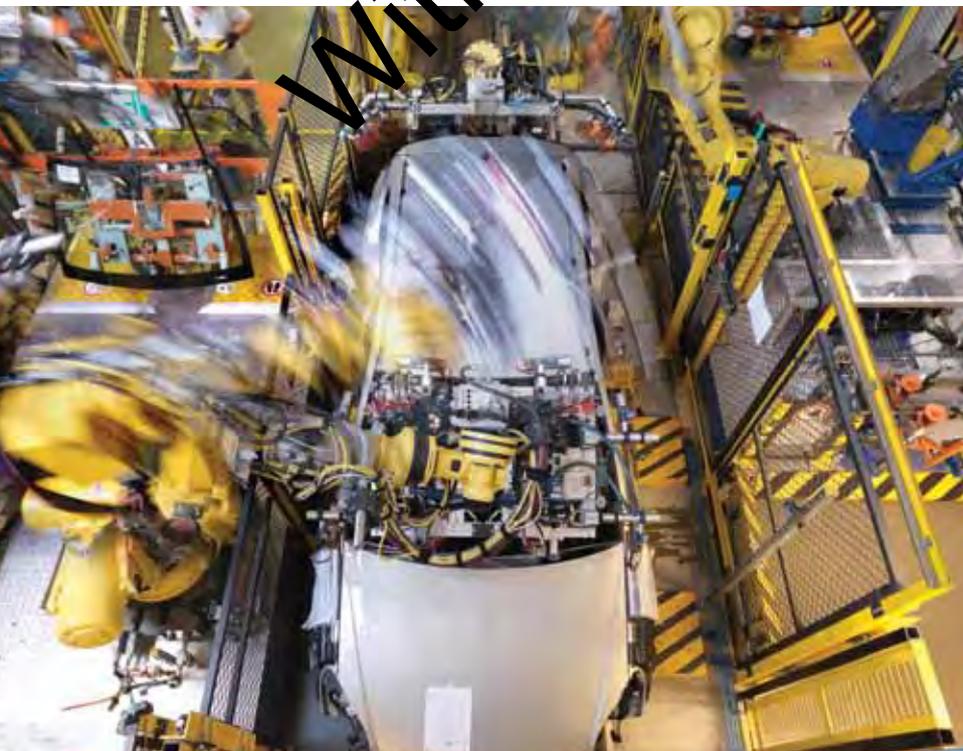
What is Clean and Energy Efficient Production?

CEEP is all about making the factory and its manufacturing processes; more energy efficient; use less water; produce less waste and reducing harmful emissions. CEEP restricts itself to the boundary of the factory but within the factory there are two elements to CEEP.

The first we call the **Standard Factory** requirements. These are the technologies and services that can be applied across most factories to help them achieve CEEP. They generally fall into the following categories;

- Energy and environmental audits, measurement and analysis, and culture and management development,
- Energy and resource efficient factory design and infrastructure including; building design, factory heating, cooling and air conditioning plus factory based micro renewables, energy and voltage management systems, low energy lighting and heat recovery,
- Industrial materials and waste management including; water recovery and treatment, material usage waste reduction, recycling and emissions control and filtration, and,
- Energy efficient processes and equipment that you find in most factories such as; refrigeration, movement systems, drying and evaporation, fluid pumping, compressed air etc.

The second category is **process specific** requirements. These are technology and services that are specific to a particular industry such as; energy efficient kilns for the ceramic industry; heat recovery systems for the food processing industry; optimised burning techniques for the power generation industry etc.

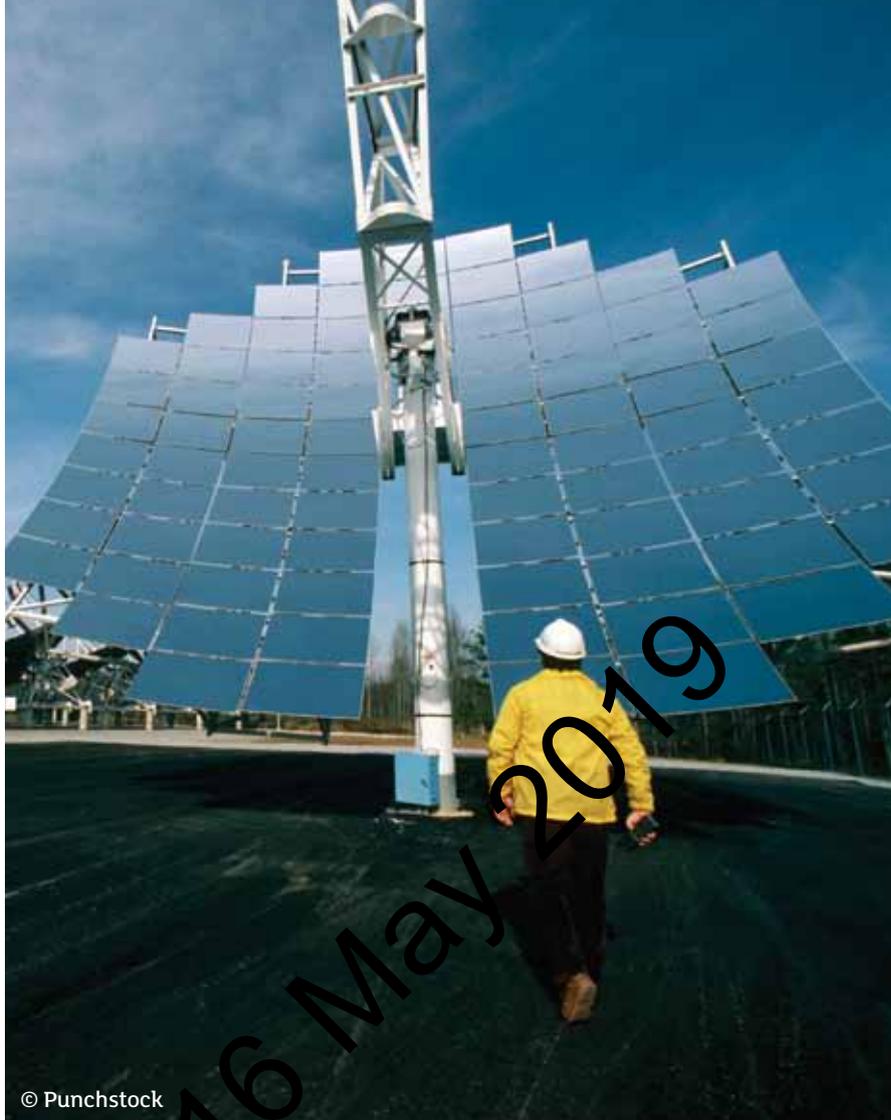


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Why Implement Clean and Energy Efficient Production?

The return on investment for implementing CEEP best practices is not measured in financial terms alone. It has wider benefits for society. However, there is a real financial return from implementing CEEP best practices as well as a reputational gain and an ability to comply with local and national regulation and targets.

Britain is taking steps to improve even further its CEEP technologies through a programme of continuous research and development led by leading UK Universities and research establishments. The UK's Engineering and Physical Sciences Research Council (EPSRC) Centre for Innovative Manufacturing in Industrial Sustainability has said that "by 2050 the global industrial system is targeted by international agreements and governments to double its output while only using 50% of current resources and generating 20% of current CO2. This represents a new industrial revolution".



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This Directory
The companies detailed in this brochure can assist in delivering these gains.



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Standard factory



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Company Profiles



Advanced Plasma Power Limited (APP)

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Advanced Plasma Power Limited (APP) is the world leader in waste to energy and advanced fuels technology. APP is revolutionising the way in which we treat waste sustainably by maximising the value from it as a source of materials and energy while minimising the impact of waste on the environment. APP has developed the Gasplasma® process, a clean, modular and scalable advanced waste to energy and fuels technology which delivers high efficiencies whilst minimising visual and environmental impact.

The Gasplasma® process is an innovative combination of two well-established technologies – gasification and plasma treatment, both of which have decades of proven commercial operation.

APP's Gasplasma® technology converts waste and/or the outputs from any waste gasification process efficiently and economically into two products:

1. A clean, hydrogen-rich synthesis gas (syngas), which can be used to generate electricity directly in gas engines, turbines or fuel cells and can also be converted into substitute natural gas, hydrogen or liquid fuels;
2. An inert product (Plasmarok®) that has applications as a high value construction material

The technology is presented internationally.

Business promoted in China by:
British Overseas Business Systems Ltd.
www.ukexport.org.uk;
www.britedcarbon.cn

Business Size:
Product or Services:



Alpha-Cure Ltd

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Woodford Halse
NN11 3PZ

Berenika Bond
T: +44 (0)13272 63900
E: berenika.bond@alpha-cure.com
www.alpha-cure.com

Alpha-Cure is the UK's only independent manufacturer of UV Lamps and Metal Halide lamps. Alpha Cure Limited are experts in the manufacture of high quality ultraviolet lamps for the following type of applications:

- Waste water treatment - Drinking water
- Food & beverage - Swimming pool, spa, sauna
- Zoos, aquaria and dolphinarium, aquaculture
- Treating environmental contaminants

Business Size: Medium
Product or Services:
Water Treatment and Filtration



Anderen Ltd
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ST3 2BS

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Anderen Ltd and their associate office in Guangzhou, represent a number of UK companies in China who manufacture a range of products that will reduce operational costs by reducing or recycling waste, reducing energy usage and improving in process quality control and quality assurance. In addition Anderen are also consultants in lean and efficient manufacturing processes.

Business Size: Small
Product or Services:
Solid Waste Separation and Recycling Systems

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Anglo-Thai Legal

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Warrington, England, WA2 7DD
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Ocean Centre, Harbour City,
Tsim Sha Tsui Kowloon Hong Kong
WA2 7DD

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Anglo-Thai Legal ("ATL") is an international law company registered to provide legal services in various Asian jurisdictions. We offer sustainability training - risk assessments, energy efficiency measurements and environmental impact studies.

Business Size: Small
Product or Services: Training



AquamatiX Ltd

4 Victoria Court
Royal Earlswood Park RH1 6TE

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www.aquamatix.co.uk

AquamatiX is a specialist system integrator with applications for monitoring and optimisation of water and wastewater pumping and treatment systems. WaterWorXTM is a cloud-based platform providing low-cost SCADA application, powered by ThingworX. PumpWorX is an 'app' which works with WaterWorX to provide improve the energy efficiency of pumps and provides a benchmarking tool and expert knowledge-base. Aquamatix works through a partner based in Hong Kong.

Business Size: Small
Product or Services: Automatic Monitoring and Targeting



Autoflame Engineering Ltd

Unit 1 - 2 Concorde Business Centre
Airport Industrial Estate
Wireless Road, Biggin Hill, Kent
TN16 3YN

Zenaida D'Sa
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www.autoflame.com

We are passionate about boiler plants and our every effort is centred on heightening its efficiency and reliability for our clients. Autoflame engineered solutions are proven and trusted for some of the most demanding and critical boiler applications. Our sophisticated burner management system, the results of many years of

practical experience, maximise the efficiency of boiler plants, dramatically reducing fuel consumption, costs and harmful emissions. Many organisations rely on Autoflame to improve the effectiveness of their boiler's. The results are impressive. Environmental objectives have been achieved through significant reductions in emissions. Lower fuel costs have helped organisations adapt to rising fuel prices and changes in the economic environment.

Business Size: Small
Product or Services: Heating and Boilers

BLT Direct

BLT Direct, Unit 9, The Quadrangle
The Drift, Nacton Road IP39QR

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www.bltdirect.com

BLT Direct has been a leading online supplier of light bulbs, light fittings and specialist lamps in the UK and around the world since the early days of the Internet. Our website provides instant access to almost 10,000 energy saving light bulb products including Energy Saving Light Bulbs, LED Light Bulbs and Compact Fluorescent Lamps.

Business Size: Small
Product or Services: Lighting

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Company Profiles



British Water

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SW1H 9BT

Bridget Orr

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www.britishwater.co.uk

British Water is the trade association for the UK water and wastewater supply chain. We represent contractors, consultants, manufacturers and suppliers in the water industry and other providers of ancillary services to the industry. British Water supports the export requirements of our members and provides information, advice and sign-posting on current developments in the global water industry and major water and wastewater projects internationally. We take trade delegations to key water industry markets, manage UK pavilions at international trade fairs and hold conferences, seminars and workshops for our members and the UK supply chain. Our UK and Technical forums are the voice of the industry to government, regulators and water companies. We foster innovation and clean and energy efficient production in the water sector.

Business Size: Small

Product or Services:

Water Treatment and Filtration



Centre for Industrial Sustainability

University of Cambridge, Institute for Manufacturing, 17 Charles Close, Cambridge road, Cambridge CB3 0FS

Ian Bamford

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E: imb31@cam.ac.uk

www.industrialsustainability.org

The Centre for Industrial Sustainability carries out research into sustainable manufacturing. We focus on 3 areas: - Making current products in low carbon resource efficient ways without significant capital investment. - Transforming factories and products with new technologies. - The business implications of transforming the industrial system towards a closed loop economy. We have over 50 researchers based in 4 Universities working with manufacturers to researching ideas and solutions that can be tested in practice. Our research is based at the Universities of Cambridge, Loughborough, Cranfield and Imperial College London. We have a membership program for businesses to access the research capabilities and current outputs and also to share their own experience. Current members include multinationals such as Toyota, Unilever and General Motors as well as smaller businesses and start ups. We can help your business travel along the journey to achieving your sustainability goals.

Business Size: Small
Product or Services:
Best Practice Identification and Adoption



Centre for Sustainable Manufacturing and Recycling Technologies (SMART)

Wolfson School of Mechanical and Manufacturing Engineering
Loughborough University
LE11 3TU

Professor Shahin Rahimifard

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E: s.rahimifard@lboro.ac.uk

www.lboro.ac.uk/smart

The Centre for Sustainable Manufacturing and Recycling Technologies (SMART) is part of the Wolfson School of Mechanical and Manufacturing Engineering at Loughborough University, and provides a synergy for the growing research activities in sustainable design and manufacture within academia and industry across both national and international arenas. The remit of SMART is to develop strategies, methodologies and supporting technologies for the design, production, consumption and end-of-life management of products, that meet consumer needs as well as legislation, environmental and ethical standards, whilst safe-guarding the future prosperity of manufacturing businesses. The Centre's members

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have a wide range of expertise and are currently involved in a number of National and European programmes researching the social, economic and environmental aspects of a variety of consumer products and industrial processes. SMART provides core knowledge, experience and technical capability in: life-cycle analysis; sustainable design of products, processes and plants; energy, water and material efficient manufacturing; zero waste production; environmentally intelligent decision making; end-of-life processing and recycling technologies; sustainable business and consumption models.

Business Size: Large
Factory Equipment:
Energy Management Systems



Ceravision Limited
 Ceravision House, Waterbourne Drive
 Tilbrook, Milton Keynes MK7 8HX

Susan Lee
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 E: sue.lee@ceravision.com
www.ceravision.com

Ceravision Ltd is a privately owned, UK based company that has developed a patented lighting technology - High Efficiency Plasma. This revolutionary technology provides cost effective and superior quality light with industry leading energy and carbon savings. Ceravision's Alvara Highbay lighting range brings the

unique benefits of High Efficiency Plasma to all large buildings such as factories, warehouses, exhibition centres, airports and hangars. Together with Ceravision's 'Light Touch' advanced wireless control systems, that allow dimming to 30% total energy consumption can be reduced by 65%. The Alvara lamps have a lifetime of over 25,000 hours with a lumen maintenance of 90% during that period. Ceravision's High Efficiency Plasma will also be available for high mast, sports stadium and area lighting applications. For further information please contact Business Development Director Susan Lee on sue.lee@ceravision.com

Business Size: Small
Product or Services: Lighting



Challis Water Controls
 Europower House, Lower Road
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Christopher Challis
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 E: info@alchallis.com
www.alchallis.com

We design and manufacture innovative low cost water and energy saving products designed for use in consumer and household applications. Our most recent product the Water Widget has been distributed to over 4 million UK

homes, saving over 4 million tonnes of carbon under the UK Government sponsored CERT (Carbon Emission Reduction Target) Scheme. We have also recently developed a product which can significantly improve the energy efficiency of industrial boilers.

Business Size: Small
Product or Services:
Heat Recovery Systems and Heat Exchangers



Chelsea Technologies Group Ltd
 55 Central Avenue, West Molesey
 KT8 2QZ

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 E: rburt@chelsea.co.uk
www.chelsea.co.uk

CTG manufactures a range of innovative multi-parameter sensors & systems for monitoring the physical, optical & biological oceanographic & fresh water environments. Sensors are available for in-situ chlorophyll & algae class studies, dye tracing, oil spill monitoring, airport apron pollution runoff studies, water abstraction management and effluent detection as well as primary productivity studies, bloom detection, toxicant detection within domestic water supplies and early detection of contamination events in potable and pre-treated water protection. In line sensor systems are also available for

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Company Profiles

monitoring of exhaust gas cleaning systems and ballast water to prevent contamination of seas. Examples of products include the newly released UviLux Effluent Monitor which enables in-situ, real-time, reporting of BOD within both natural water systems and water processing plants. The monitor detects fluorescent proteins that are inherent within sewage and slurry and provides an output in BOD equivalent units. Monitoring can be carried out at the final outflow point (into rivers and coastal areas) as well as the primary, secondary & tertiary stages, the data potentially feeding into energy saving systems to optimise process performances. The UviLux BOD Indicator can also be used within pipe and channel networks to test for incidences of black water and grey water cross-over.

Business Size: Medium
Product or Services:
Rain Water Capture Systems



ChemEco Technology Ltd

c/o Surface Measurement Systems Limited, 5 Wharfside, Rosemont Road, Alperton, Middlesex HA0 4PE

Dr. Philip Cheung
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 E: philip.cheung@imperial.ac.uk

ChemEco Technology Limited is a newly created spin-off company that brings together industrial and academic partners to solve the myriad of problems in industrial wastewater management. ChemEco Managing Director says, "Our newly developed techniques will enable the industry to extract valuable metals such as copper, nickel, cobalt, manganese and chromium, zinc and cadmium, amongst many others, from industrial process waters and wastewaters, including electroplating and electroless plating wastes. Many of these wastewaters containing organic and inorganic sequestering agents such as citric acid, EDTA etc. which renders traditional treatment methods difficult or impossible to implement, but ChemEco has demonstrated that it can solve a great number of these problems. The company philosophy is one in which recycling and reuse of the extracted metals is the ideal goal. However, aqueous wastes containing low concentrations of lead and mercury can also be dealt with efficiently. Another important field of pollution control that this company can contribute is the decolourisation of wastewaters from dye manufacturers and textiles industries.

Business Size: Small
Factory Equipment:
Water Recycling Systems

C-Probe Systems Limited

Blackmoss Court, Blackmoss Road
 Dunham Massey, Cheshire
 WA14 5RG

Graeme Jones
 T: +44 (0)161 928 1101
 E: gjones@c-probe.com
www.c-probe.com

C-Probe provides technology aimed at achieving long-term durability of structures with an ecological and sustainable product range. We manufacture monitoring probes and electronic management systems (Achilles Suite of Structural Healthcare Systems) that control corrosion processes in reinforced concrete and masonry structure. We manufacture an alternative eco-friendly cement for use in new build and within formulated solutions for the repair, protection and strengthening of existing structures. These geopolymers have inherent technical features such as fire protection, corrosion protection, tailorable compressive strength, moisture and chemical resistance but are manufactured in an ambient process from recycled materials with an impressively low carbon footprint, saving up to 80% CO₂e compared to OPC cement at manufacture and 65% saving in

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 C-PROBE

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the hardened concrete product. We also manage the performance of these structures using the internet facility, AiMS (Achilles interactive Management Server). This server facility is used by Client owners for due diligence purposes to prove corrosion is controlled to the asset being purchased or bought. Public authorities also manage performance of car park and bridge stock using AiMS. All these products are supported by services from survey and through onsite contractor support, system commissioning and ongoing performance reporting.

Business Size: Small
Product or Services:
Building Materials



Ecolutia Services
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 Peterborough PE4 7FL

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 www.ecolutia.com

Ecolutia Services provides outsourced water treatment services to the global energy, industrial and civil infrastructure sectors. We provide temporary mobile water treatment services during construction and commissioning

phases of new projects, as well as a planned and unplanned emergency back-up services for existing plant owners. Additionally, we offer a longer-term solution to manage the total water production at site for typically 10-15 years. Our Build Own Operate (BOO) solution can help reduce upfront construction or refurbishment costs, improve your return on investment and allow better operations financial management throughout the life of your plant. We utilise our global fleet of pre-engineered filtration, ion exchange, brackish water and seawater reverse osmosis systems which provide industry leading power and water efficiencies. Our highly trained and skilled team has over 20 years of international field experience providing expert water treatment solutions to customers for a range of applications.

Business Size: Medium
Product or Services:
Water Treatment and Filtration



Gap BioEnergy Ltd
 Unit 2-3 Morston Quays
 Wallsend, Tyne and Wear NE28 6UT

Paul McLean
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 E: paul.mclean@gap-bioenergy.com
 www.gap-wastemanagement.co.uk

Gap Bio Energy is a technology development company which is part of the Gap Waste Management Group of companies. It specialises in the development of technology to valorise waste streams.

Business Size: Small
Product or Services:
Solid Waste Separation and Recycling Systems



Geo-Envirowise Ltd
 16 Leazon Hill
 Stockton on Tees TS17 5AS

Eliphanos Moyo
 T: +44 (0)7925 136906
 E: geoenvirowise@btinternet.com
 www.geoenvirowise.co.uk

Manage, treat or recycle factory waste; - Control air quality or filter emissions; - Develop an eco-sensitive culture and management team; - Analyse or measure energy efficiency or environmental impact;

Business Size: Small
Product or Services:
Environmental Audits

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Company Profiles



GL Noble Denton Spadeadam

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www.glnobledenton.com/spadeadam

Large and Full scale testing for the oil and gas sector particularly connected with hazardous environments, gas, Passive Fire Protective Coatings, tension testing of flexible risers, testing pipeline material with Carbon Dioxide as part of the UK CCS Programme. Hazardous Awareness Training for the Oil and Gas Industry. Explosive and blast testing for the security sector.

Business Size: **Medium**
Product or Services: **Energy Audits**

GOODWIN

Goodwin International Ltd.

Plantation Road, Trentham
Stoke-on-Trent ST4 8HU

Paul H Williams
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E: phwilliams@goodwingroup.com
www.checkvalves.co.uk

Goodwin International designs and manufactures high performance, non-slam nozzle check valves for pump protection applications within potable water, desalination, district cooling and final effluent re-use. Goodwin International can fabricate valves from a range of materials (ductile iron, stainless steel, cast alloy etc.) and for a size range DN50-2200. Due to a short stroke length and low inertia components, it is the fastest acting non-return valve on the market, thus mitigating pressure surge and water hammer within the water system. Even more important than this is that the valve design has industry leading flow efficiency, resulting in an extremely low pressure drop across the valve, reducing pump power requirements and, therefore, generating significant operating cost savings. When compared to the head loss performance of standard check valves designs, the Goodwin nozzle check valve is the most pump energy efficient valve on the market.

Business Size: **Medium**
Product or Services: **Water Treatment and Filtration**



Graham Powell Consultants

Quarry Mews, South Street
Dorking, Surrey RH4 2JX

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GPC work in the UK, Greece, Cyprus, Bulgaria and Northern Africa with business relationships in Qatar and Saudi Arabia for clients in the Healthcare, Leisure, and Commercial, Retail, Higher and Upper Education, and Mission Critical and Financial sectors. We are involved from inception to completion with Initial Surveys, Professional Engineering Design of Sustainable Engineering Solutions and Renewable Energy Systems, Spatial and Plant Acoustics/Noise Control, Project Management and Commissioning Management through to handover to the Client. Clients and Developers find that we react more quickly than they are used to and help to reduce planning, and design time considerably. We work with Construction Companies in the Commissioning Management and Handover phases to provide defect free services installations and extremely happy Clients. Our knowledge of ISO 50001 Energy Management Systems as lead auditors and BSI preferred consultants together with our extensive technical experience has identified measures with payback periods as low as 9 months. In particular we offer ISO 50001 services covering:

- Pre-assessment audits – Gap Analysis
- EnMS Setup and Operation
- Staff Training and Awareness
- Energy Saving Opportunities Identification, Design and Management
- Internal Audits
- Business Development Strategies based on the Benefits of the EnMS

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Business Size: **Small**
 Product or Services:
Energy Management Systems



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 National Metalforming Centre
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GTMA is a trade association representing tool makers, precision machining, metrology (measurement) and associated industries in the engineering supply chain. Our members are involved in the Aerospace, Automotive and Energy Sectors supplying valuable and diverse engineering solutions for industry. GTMA provides a hub for technical dissemination of products and services and a procurement service to assist manufacturers source reliable, qualified companies in the precision engineering market. Sourcing in today's global economy can provide a real challenge to the Buyer when considering the in house resource required to find the right business partners within the supply chain.

Business Size: **Small**
 Product or Services: **Benchmarking**



Howden UK Limited
 Old Govan Road
 Renfrew PA4 8XJ

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www.howden.com

Howden UK supplies rotary heat exchangers and custom engineered centrifugal fans primarily for the power generation, petrochemical and steel industries. For more than 50 years we have been supplying fans to the world's major contractors. Over 1100 fans have been installed in 40 countries in all corners of the globe. Of particular note is the acceptance of the company in the Chinese market where virtually every major sinter strand installed in the last 10 years uses our fans. We provide fans for all the major ore preparation and steel making applications that include:

- sinter fans
- pelletising fans
- BOS fans
- electric arc furnace fans
- other fans including coke oven fans and cooling fans

Our fans are highly efficient designs, so reducing power consumption in an energy intensive industry. Our extensive experience in each application enables us to provide equipment of great reliability with the consequent reduction of unplanned outages.

Business Size: **Medium**
 Product or Services:
Equipment Upgrade



HWM-Water Ltd
 Ty Coch House, Llantarnam Park Way
 Cwmbran, South Wales
 NP44 3AW

Caroline Smith
 T: +44 (0)1633 627849
 E: csmith@hwm-water.com
www.hwm-water.com

HWM-Water produces some of the world's most advanced, accurate and easy to use wireless monitoring and measuring equipment for use in areas including Energy Management Automatic Metering Reading Smart Metering/networking Data Logging Data Analysis Building Performance Monitoring Pressure Control Leak Detection Flow Measurement.

Business Size: **Medium**
 Product or Services:
Automatic Monitoring and Targeting

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Company Profiles



HydroMax Incorporated Limited
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www.hydromax.com

HydroMax is a siphonic roof drainage system which is used to drain roofs of large buildings more efficiently while reducing pipe diameters and costs. Additionally, using HydroMax can reduce underground drainage requirements (reduced trenchwork, excavation, soil treatment etc.) and allow rainwater from the roof to be taken to rainwater harvesting or attenuation locations.

In short, HydroMax provides:

1. More efficient rainwater removal from the roof
2. Reduced below ground drainage and trenchwork (with cost savings)
3. Routing of roof drainage to rainwater harvesting and attenuation.

Business Size:
Product or Services:
Rain Water Capture Systems



Integrated Skills Ltd
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ISL specialises in the provision of high quality environmental consultancy and management services to the private sector and national, regional and local governments; particularly in the field of solid waste. ISL focuses on delivering strategic, economic, commercial, practical, legal, technical and institutional advice and IT solutions.

ISL has developed a suite of proprietary software for use in a variety of applications and is the market leader in provision of this dedicated software in the UK, including:

- RouteSmart™ route optimisation software
- Performance Manager™ contract management system
- Trafficworx™ road infrastructure and traffic management system

ISL has a practical understanding of the conditions and constraints relating to solid waste management

in countries with economies in transition or early transition countries; we have undertaken projects in over 60 countries. Drawing upon the diverse skills of a team of almost 100 professional and associate staff with extensive practical experience in the field, the Company is able to offer a wide range of expertise and services which:

- Are objective and independent.
- Have no vested interest in promoting any particular process, technology or solution.
- Are based on an extensive international reputation and track record.
- Place particular emphasis on the organisational, social, economic and practical realities

Business Size: Small
Product or Services:
Solid Waste Separation and Recycling Systems



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Faraday Close, Worthing
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Invensys Eurotherm is a global supplier of measurement and instrumentation for process control applications and is a key business within Invensys Operations Management, a global technology, software and consulting organisation.

Business Size: Large
Product or Services:
Process Optimisation



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KiWi Power's core business is to offer Demand Response services to National Grid, the transmission system operator and distribution network operators in the United Kingdom. KiWi Power signs up end users, conducts site energy audits, installs real time metering and manages all dispatch of end user sites to provide reserve to the system operator. We work with customers to define demand reduction strategies and ensure successful performance during Demand Response dispatch events.

Currently, KiWi Power has multiple DR sites contracted in industries including mining, commercial office buildings, airports, hospitals, retail and hotels. KiWi Power has competencies in complex project and programme management, electrical and mechanical engineering, energy consultancy, renewables finance and investing, energy and water utilities, telecommunications law and regulation and demand response programmes internationally.

Business Size: Small
Product or Services:
Energy Management Systems



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 Normacot Road, Longton
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 ST3 1PA

Mr Adrian Wake
 T: +44 (0)1782 377550
 E: awake@mantectc.com
www.mantectechnicalceramics.com

Mantec Technical Ceramics Ltd is a diverse UK based manufacturing technology company that provides bespoke and innovative ceramic-based solutions to global industries. One of Mantec's core products is Ultralite™ a unique lightweight insulation material with excellent energy saving properties. Its energy-saving characteristic is proving itself

invaluable among internationally renowned kiln builders as well as brick, floor tile, sanitaryware and tableware manufacturing companies where Ultralite™ contributes significant energy savings associated with the overall kiln operation.

Why use Ultralite™?

- SAVE up to 40% on Kiln Car Energy Costs!
- Low density = lower energy costs
- Low permeability
- Low thermal conductivity
- Low thermal mass
- High porosity
- Easy to install – Lightweight and free flowing
- Reduced Maintenance Costs
- Increased Profit
- 100% safe to use handle and store – No ceramic fibre or free silica
- Suitable for use in temperatures up to 1400°C

Business Size: Small
Product or Services:
Process Optimisation



Mott MacDonald Ltd
 Victory House, Trafalgar Place,
 Brighton, East Sussex BN1 4FY

Aijuan Wang
 T: +44 (0)1273 365196
 E: aijuan.wang@mottmac.com
www.mottmac.com

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Company Profiles

Mott MacDonald's US\$1.5 billion business spans 140 countries working in all sectors from transport, energy, buildings, water and the environment to health and education, industry and communications. Our breadth of skills, sectors, services and global reach makes us one of the world's top players in delivering management, engineering and development solutions for public and private sector customers from 30 centres throughout the UK and offices in over 60 countries across Europe, Asia and the Pacific, Middle East, Africa and the Americas. We work for national and local governments, industry, utilities, transport operators, commercial companies, health and education authorities, developers, contractors, banks, funding agencies and non-governmental organisations. We stay closely attuned to all our customers' varying needs and aspirations, working in partnership to turn their ideas into reality through a complete spectrum of skills covering all stages of the development cycle – right from preparing the business case and advising on related issues to designing and implementing the solution and providing ongoing support. Our total service offering incorporates all aspects of project and programme management and management consultancy plus construction economics. As a multi-sector professional services provider, our planning, advisory, technical and management activities also encompass the social and institutional dimensions of development.

Business Size: Large
Product or Services: Energy



National Physical Laboratory

National Physical Laboratory
 Hampton Road, Teddington
 TW11 0LW

Tim Prior
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 E: tim.prior@npl.co.uk
www.npl.co.uk/

The National Physical Laboratory (NPL) is the UK's National Measurement Institute – a world-leading centre of excellence in developing and applying the most accurate measurement standards, science and technology to industry. NPL hosts the Centre for Carbon Measurement, which provides the robust measurement that is required to account for, price and trade carbon emissions. The Centre also works with industrial partners to develop clean technologies and verify their performance.

We:

- Provide high quality, cost effective air quality and emissions monitoring and analysis services. In the UK we are entrusted by Defra, the Environment Agency and the National Environment Research Council (NERC) to lead UK monitoring networks. We have world leading technology for detecting and quantifying fugitive emissions from facility level sources including refineries,

landfills and other industrial sites.

- Work with regulators to help define regulation and standards, and hence have a deep understanding of effective implementation of compliance regimes.
- Help to develop new technologies by testing the efficiency and effectiveness of prototypes at design stage, and providing independent performance assessment and validation of products and materials of final products. We can prove that the technologies meet regulations or independently validate claims in order to satisfy potential investors or customers.

Business Size: Large
Product or Services: Emissions Audits



Olsen Engineering UK Ltd
 Unit 1, Station Road, Caersws
 Newtown, Powys SY175NA

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 E: piers.olsen@consultolsen.com
www.consultolsen.com

We design and manufacture electric linear actuation systems and solutions. ALL electric "cylinders" consume +10 times less energy than pneumatic cylinders and +4.4

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times less than hydraulic cylinders. They also require little or no maintenance and are not prone to expensive oil and air leaks. The total product life cycle is usually approx 10 years so much more efficient and clean generally compared to traditional 20th Century linear motion technologies.

Business Size: Small
Product or Services:
Process Control Systems

livingARKs™

One Small Planet LTD
 42 Rowland Hill Court
 Oxford OX1 1LE

Kristina R
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 E: kristina@livingarks.com
www.livingarks.com

One Small Planet produces a range of modular, self-assembly buildings that can be taken off grid and supplies eco village infrastructure for a variety of markets in the UK. Our uniquely shaped structures called ARKs incorporate solar and wind power and are being used as holiday homes, offices, cabins, kiosks, spare bedrooms, studios and school classrooms. Our low carbon homes feature green roofs, renewable power, water harvesting, super insulation, energy efficient electrics, biomass

heating, composting toilets and comfortable elegant interiors. The ARKs tap into the urgent need for a new generation of green living, with simpler planning and assembly requirements. As the business discovered high growth market sectors in the economy in recession, we developed a new approach to low carbon and low cost tourism focusing on holiday homes and parks providing fully integrated accommodation – power generation & storage – waste management – eco village solutions for individual land owners, community groups and businesses.

Business Size: Small
Product or Service:
Building Construction and Design

Papa Pump®
 Water Powered Technology

PAPA Pump
 14 A Kingshill Industrial Estate
 Bude, Cornwall EX23 8QN

Hugh Swire
 T: +44 (0)7841 822 081
 E: hugh@papapump.com
www.papapump.com

PAPA Pump has a range of unique zero energy water pumps which just use kinetic energy in flowing water to activate a patented valve mechanism. Water can be pumped long distances for storage of flood

water or low carbon irrigation and water generation systems. Technology partners are looking to use PAPA Pump technology for Sustainable Urban Drainage and Rainwater / road drainage systems. The new Composite pumps are very low maintenance and can save up to 1 tonne of carbon a year compared to fossil fuel pumps. Payback for systems can be as little as 1/2 years. Larger models can pump +30 million litres of water a day over many kilometres for national governments and water utilities.

Business Size: Small
Product or Services:
Rain Water Capture Systems

PyroPure®

PyroPure®
 8 Mountview, Mill Hill
 London NW7 3HT

Yeju Han
 T: +44 (0)208 9061717
 E: hanyaju@gmail.com
www.ukexport.org.uk

PyroPure® technology is a breakthrough in the disposal of solid waste and recovery of energy. It is a unique, patented, small energy from waste system that can be installed in a facility to replace

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Company Profiles

collection bins and eliminate the need for transportation and large scale disposal of waste. It has a unique thermal processing cycle and very efficient filtration system enabling clean and quiet operation and efficient recovery of energy as hot water. It sterilizes and destroys almost all types of organic waste, yielding a minimal solid residue that can be flushed away automatically. The operator simply loads the waste into it, closes the lid and presses the start button. The waste is destroyed over 3 – 4 hours whilst water is heated for storage or immediate use. The system is at a much lower temperature than an incinerator and there are no flames involved. Emissions are very well controlled and the Environment Agency has granted regulatory approval for deployment in the UK. Key commercial applications are for premises with wastes that are difficult or costly to store, transport or dispose of, and these include healthcare facilities, laboratories and premises in remote locations.

Business represented in China by:
British Overseas Business Systems Ltd.
www.ukexport.org.uk
www.unitedcarbon.cn

Business Size:
Product or Services:



Quest International (UK) Ltd
AirManager Technologies

Unit 2 Demmings Road Industrial Estate, Cheadle Stockport, Cheshire SK8 2PE

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www.airmanager.com

AirManager Technologies is the designer, Manufacturer and Installer of the AirManager range of Equipment containing the ground breaking CCF technology. This technology either Kills, Destroys or Arrests all Bio Hazards, Chemicals, Heavy metals and VOC's within the air. The technology has been widely adapted into all areas of industry, Aerospace, Medicine, Marine, HVAC, Emmissions, Waste handling, Building management and equine to name but a few. Remember - Wherever Man affects the Environment or where the Environment affects Man, we are the solution to the problem!

Business Size: Medium
Product or Services:
Ventilation and Circulation



Red Skies Limited

Atlas Centre, Harwell Oxford Didcot, Oxfordshire, England OX11 0QX

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www.redskiesgroup.com

We provide big data, high performance computing (HPC), grid and cloud computing solutions to the utilities sector including water and energy utilities. Urban Water is an EC backed open water management platform developed in partnership with several water utility companies. This platform supports smart grids and water networks and enables third party modules to access public data to provide new products and services into utility companies. New data privacy technologies allow smart meter data to be consumed in an encrypted form and stored in an encrypted form so that only the household owner and payment providers can access raw data, exceeding even the strictest data privacy needs. Components being developed include water leak location technology, predictive systems, consumer education gaming and much more. Work in China and Hong Kong show the potential beyond just Europe.

Business Size: Small
Product or Services:
Automatic Monitoring and Targeting

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RICARDO-AEA

Ricardo-AEA

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www.ricardo-aea.com

Ricardo-AEA is an internationally-renowned consultancy with world-leading energy and environmental expertise. For over 40 years we have supplied the public and private sector with cutting-edge consultancy services in the energy & climate change, air quality, resource efficiency, waste management, sustainable transport, and chemical risk sectors.

Building on our heritage as a leading supplier of environmental consultancy to the UK government, Ricardo-AEA is now at the forefront of providing international businesses and governments with the advice to understand the implications of climate change and to develop effective strategies and policies to reduce greenhouse gas emissions. More than 150 specialist consultants work in this the largest of Ricardo-AEA Practices including experts in climate change policy, low carbon technologies, carbon management, emissions trading and greenhouse gas

inventories. Our experts in industrial energy efficiency have helped clients realise significant savings by harnessing new technologies.

We have also managed innovative projects to help clients respond to government policy and regulation globally in waste management and resource efficiency, transforming the way in which organisations manage resources, leading to considerable cost savings and minimised environmental impacts. Our 130 consultants in this areas offer services including life-cycle analysis (LCA), resource efficiency auditing and optimisation, training and capacity building.

Sunfarm Ltd

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Dorset SP85QD

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Renewable energy, principally Solar PV, providing direct feed for EV Charging. Solar PV for e-fleet Carports. Fully networked Smart Charging for e-fleet vehicles. GE Durastation, Wattstation and DC fast charging installation, operation and management.

Business Size: **Small**
Product or Services: **Photovoltaic**



Symphony Recycling Technologies

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<http://symphonyrecycling.net/>

Symphony has identified the disposal of scrap tyres as a major issue both at home in the UK and all over the world. We are asked on a regular basis to provide solutions for the billions of scrap tyres dumped around the world. There are currently over 10 billion scrap tyres around the world. It is estimated that another 1.5 billion tyres become scrap every year. Dumping, and failing to dispose of scrap tyres can lead to an elevated danger of fire, rodent infestation, and ground-pollution. Mosquitoes breeding in the water inside scrap tyres will spread Malaria, Dengue Western Nile fever, Filariasis, and other diseases. Scrap tyres also take up a vast amount of space in workshops, garages and in transit, and are an unsightly and unproductive use of land. They are often disposed of illegally and most of them cannot and should not be put into landfills. A solution has to be found. SRT has recently completed

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Company Profiles

a major project with Imperial College London, Cobham Microwave, Artis, ABB, and Hughes Pumps. The project was funded by the UK government to investigate ways of creating valuable products from scrap tyres, and is now commercialising that process.

Business Size: Small
Product or Services: Product Recycling



Tangram Technology Ltd
 35 Bridge Street, HITCHIN
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We are Consulting Engineers in the field of Energy Management in Plastics Processing and work with small numbers of plastics processors to reduce their energy use and Carbon Footprint. Two vital actions when energy costs are rising and there is rising pressure on Carbon Footprints. We work with multi-national groups to survey their sites world-wide and to reduce their energy use by an average of 30% through targeted cost effective projects. Our current customers are also large multi-national plastics processing groups

but these are confidential. Unlike other consultants, we only work in the plastics processing field and wrote the only book on the subject (Energy Management in Plastics Processing). We have carried out energy surveys and assessments on over 450 companies throughout the world. As specialists in plastics processing, we know the processes and can find savings that other people cannot (why do they always talk about lighting when lighting is only 4% of the costs?). We establish partnerships with large plastics processors to reduce their carbon emissions by up to 30% but more importantly (from a business perspective) to reduce energy costs by 30%.

Business Size: Small
Product or Services: Energy Audits



TBS Europe Ltd
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 Queenslie G33 4EL

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TBS provide a range of managed outsourcing services. One of these services is through our subsidiary business 'Tekserv'. Within Tekserv we take over the management of our

clients facilities & infrastructure. We provide solutions to make our clients property much more energy efficient, and reduce carbon consumption. We have a number of major clients that we currently service, and have done since the company was established in 1959. These clients include public sector, large corporates, and the Third sector. Each of our solutions covers everything from Lighting, HVAC, Refrigeration, Motors, Controls, through to energy management, and overall Facilities Management. We are currently engaged in conversation with companies from Europe & Asia which will let us work together in providing combined localised services to these markets.

Business Size: Large
Product or Services: Energy Management Systems



TEAM (Energy Auditing Agency Ltd)
 Unit 34, Linford Forum
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 Milton Keynes MK14 6LY

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 E: sturvey@teamenergy.com
www.teamenergy.com

Energy Auditing Agency Ltd., trading under the brand name of TEAM, are the UK market leaders in the provision of energy/carbon

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accounting, measurement and verification software with licensed users across the world. Established in 1985, TEAM have been providing solutions to some of the largest energy users in the UK throughout the period which saw the full deregulation of the UK electricity and gas industries. TEAM are now using this wealth of experience to expand sales overseas with its web based energy / carbon management software platform and community engagement tools.

Business Size: Small

Product or Services:

Automatic Monitoring and Targeting



The Greenbox Company (Europe) Limited

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We are manufacturers of bespoke heat-recovery units (air-to-air heat-exchangers) and air control dampers for use in medium to large buildings. (Schools, offices, supermarkets, factories etc.) Our heat-exchangers and air-control dampers are very corrosion-resistant and are widely

used in harsh environments such as swimming pools, facilities in coastal areas, and factories. We will calculate and manufacture the size of unit required for any specific application.

Business Size: Small

Product or Services:

Heat Recovery Systems and Heat Exchangers



The LCA Calculator

13 The Portland Business Centre Minor House Lane, Datchet GLOS G12 9EG

Emily Armstrong

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E: emily.armstrong@idc.uk.com

www.lcacalculator.com

The LCA Calculator is an easy and powerful software tool for evaluating the effects that a product or service has on the environment over its life cycle. The tool evaluates each phase chronologically from the extraction and processing of raw materials, to the manufacturing, packaging and marketing processes, to the use, re-use and maintenance of the product, and on to its eventual recycling or disposal as waste. By measuring each of the steps you can understand and estimate the total impact of the product. In many cases it will be one specific area that tends to have the biggest impact and the

LCA Calculator will point that area out so that a change in the design can be made. The LCA Calculator is the perfect tool for designers or engineers working in the field of sustainable design, eco design and life cycle assessment (sometimes described as life cycle analysis or eco-balancing).

Business Size: Small

Product or Services:

Product Design Optimisation

UNIVERSITY OF BIRMINGHAM

The University of Birmingham

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The University of Birmingham has more than 140 academics from 17 schools engaged in energy and energy related research and development, and a current portfolio from external project funding related to energy in excess of £70m. Birmingham is one of three Universities that make up the Midlands Energy Consortium which was chosen to host The UK's national Energy Technologies Institute (ETI) to speed up the deployment of new low carbon energy technologies in pursuit

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Company Profiles

of the UK's energy and climate change goals. UoB energy research themes: Bio-energy, Biohydrogen, Integrated Resilient Energy Systems, Energy and the environment, Energy Storage, Energy in manufacturing, Hydrogen and Fuel Cells, Materials, Nuclear Technologies and Decommissioning, Oil and gas, Policy and society, Transport. In 2011 The University of Birmingham launched the Birmingham Guangzhou Centre, a unique facility established in coordination with the Guangzhou municipality to facilitate joint research and education initiatives in Guangzhou and the wider region. The University is also a member of The Centre for Low Carbon Futures, a consortium of 5 UK Universities including Leeds, York, Hull and Sheffield collaborating internationally on translational research, primarily related to energy use and carbon reduction activities in the EU, China, India, Japan and Latin America.

Business Size: Large
Product or Services: Energy Audits



UNITED KINGDOM · CHINA · MALAYSIA

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<http://www.nottingham.ac.uk/energy/home.aspx>

The University of Nottingham is a major international centre for energy research, with a reputation for excellence across a broad range of research and technology-based activities. This is reflected in the formation of the university's Energy Technologies Research Institute (ETRI) in 2006 to unite energy research across a range of disciplines. ETRI encompasses over 100 academics and research fellows holding an impressive portfolio of energy RD&D projects worth ca. £50M funded by government, industry and the EU.

The priority research themes of ETRI are as follows.

- carbon abatement in clean fossil energy
- energy vectors and storage
- renewable energy including Bio-energy
- low-energy buildings
- future electrical power grids

In addition, "Environment, policy and society" is a cross cutting theme that is addressed with each theme above. In addition to ETRI, the university has very significant activities in transport RD&D, including funding from key multinational companies covering the automotive, aerospace and rail sectors. UoN is one of three universities comprising the Midlands Energy Consortium (MEC). The MEC hosts the prestigious Energy Technologies Institute (ETI) – a £1 billion joint initiative between the UK government and major industries to accelerate the development and deployment of low carbon energy systems and technologies in the UK.

Business Size: Large
Product or Services: Energy Management Systems



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TNEI Services is an energy sector consultancy and an experienced service provider to both Conventional & Renewable Energy generation developers and operators, as well as to electrical infrastructure companies. Our operations are split into two main groups, Power Systems & Technology and Planning and Environmental. Our clients include Electricity Transmission and Distribution Companies, Renewables Project Developers, Wind Turbine Manufacturers and many other major industrial organisations. TNEI also provide services to government departments (DTI and DEFRA), Carbon Trust, Energy Saving Trust, Ofgem, DECC and Local Authorities. TNEI's extensive team within the Power Systems and Technology group possesses a world-class mix of distribution system experience, system studies capability, and data management and handling skills, coupled with the ability to understand client requirements and to deliver study results in a clear and concise format. TNEI is well known and respected for the strength and expertise of its Planning & Environmental Group with a strong combination of planning, environmental and technical expertise relating to energy projects. It has established a reputation within the energy industry for the rapid and effective consenting of wind energy sites and other energy related projects.

Business Size: Medium
Product or Services: Wind



Triteq Ltd

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Triteq have successfully delivered many telemetry and remote monitoring systems across a range of industries enabling our clients to reduce manpower, energy, material and production costs. By engaging our software developers at the outset to develop precise algorithms and rule sets, our bespoke solutions have been successfully delivered to precisely match customers' requirements, including fixed installations and mobile GPS tracking systems delivered over wireless or wirebound communication links. Having data available in almost real time allows quick reactions to events in the field. Our skills have enabled our clients to develop highly effective systems and a range of commercially successful products. Triteq designs intelligent systems ranging from high speed data communications for aircraft using 3G cellular radio, through to secure vessel monitoring systems, assisting global asset management

and monitoring of exclusive economic zones (EEZ), tracking fishing fleets at sea. Other industry examples include a location tracking unit allowing users to track, monitor and communicate with key mobile assets such as people, vehicles, containers, ships and trains, whilst travelling within both GSM coverage and the 120-country footprint of a particular satellite. We excel in this area of work and welcome opportunities to demonstrate our skills. Talk to us today.

Business Size: Medium
Product or Services:
Automatic Monitoring
and Targeting



University of Reading

Whiteknights
 Reading RG6 6AY

Professor Derek Clements-Croome

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www.reading.ac.uk/d-j-clements-croome.aspx

The School of Construction Management and Engineering is a world international organisation with close ties with the construction industry. It has a major research portfolio of work ranging from the sustainable environmental and energy technologies, design innovation

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Company Profiles

to construction management and economics. The staff cross the building environment disciplines and have international experience in the Far and Middle East besides many other developing and developed countries worldwide. It undertakes a wide range of enterprise work and conducts short, medium and long term studies for research agencies, industry, commerce and Governmental bodies. Teaching is also an important activity and many of the staff are invited to make presentations on current and future developments relevant to architecture and the construction industry in general.

Business Size: Medium
Factory Equipment
Environmental Audits

WILSON STEAM STORAGE

WILSON STEAM STORAGE
 Dunston Innovation Centre
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Peter Metcalf
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 E: pete.metcalf@wilsonsteam.co.uk
www.wilsonsteam.co.uk

Steam Storage systems for various industries using steam in batch processes such as textile dyeing, food processing, vulcanisation, potato peeling, vacuum degassing of steel,

polystyrene manufacture. Steam storage relaxes the boiler plant and provides process steam on demand leading to increased production and lower steam raising costs.

Business Size: Small
Product or Services:
Process Optimisation



Xtract Filtration Systems Limited

Norman Road
 Lorton, Stoke-on-Trent ST3 1PA

Paul Hipkiss
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www.xtractfiltrationsystems.com

XTRACT Filtration Systems is a leading ceramic industry specialist in the design and manufacture of glaze and slip recycling equipment for the tableware and sanitaryware manufacturing sectors. Xtract's raw material recovery technology also enables it to be utilised for the reclaim and recycling of submicron viscous slurries from industrial processes, recovering raw materials and water that would otherwise be lost to the waste treatment system. We are a British-based technology-led company offering a comprehensive range of automated equipment, backed by Xtract's considerable industry proven experience in the recovery of highly viscous slurries and water from industrial processes.

The Xtract technology will:-

1. Recover valuable raw materials lost to the waste water treatment system.
2. Increase manufacturing profitability.
3. Improve manufacturing yields.
4. Reduce raw material inventory.
5. Improve substantially the green credentials of the manufacturing company.
6. Recover and return process quality water back to the facility.
7. Substantially improve the ability of the manufacturing facility to reach 100% raw material utilisation.

Xtract will recover "solids from liquids", "liquids from solids" and enable manufacturing companies to "profit from loss".

Business Size: Small
Product or Services:
Product Recycling

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Reference Matrix

	Advanced Plasma Power Limited (APP)	Alpha-Cure Ltd	Anderen Ltd	Anglo-Thai Legal	AquamatiX Ltd	Autoflame Engineering Ltd	BLT Direct	British Water	Centre for Industrial Sustainability	Centre for Sustainable Manufacturing and Recycling Technologies (SM/RT)	Ceravision Limited	Challis Water Controls	Chelsea Technologies Group Ltd
Automatic Monitoring and Targeting					•								
Benchmarking													
Best Practice Identification and Adoption									•				
Building Construction and Design													
Building Materials													
Emissions Audits													
Energy													
Energy Audits													
Energy Management Systems										•			
Environmental Audits													
Equipment Upgrade													
Heat Recovery Systems and Heat Exchangers												•	
Heating and Boilers						•							
Lighting							•						
Photovoltaic													
Process Control Systems													
Process Optimisation													
Product Design Optimisation													
Product Recycling													
Rain Water Capture Systems													•
Solid Waste Separation and Recycling Systems			•										
Training				•									
Ventilation and Circulation													
Water Recycling Systems													
Water Treatment and Filtration		•						•					
Wind													

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Reference Matrix

	ChemEco Technology Ltd	C-Probe Systems Limited	Ecolutia Services	Gap BioEnergy Ltd	Geo-Envirowise Ltd	GL Noble Denton Spadeadam	Goodwin International Ltd.	Graham Powell Consultants	STIMA	Howden UK Limited	HWM-Water Ltd	HydroMax Incorporated Limited	Integrated Skills Ltd
Automatic Monitoring and Targeting													
Benchmarking													
Best Practice Identification and Adoption													
Building Construction and Design													
Building Materials													
Emissions Audits													
Energy													
Energy Audits													
Energy Management Systems													
Environmental Audits													
Equipment Upgrade													
Heat Recovery Systems and Heat Exchangers													
Heating and Boilers													
Lighting													
Photovoltaic													
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Training													
Ventilation and Circulation													
Water Recycling Systems													
Water Treatment and Filtration													
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	Invensys Eurotherm	KiWi Power Ltd	Mantec Technical Ceramics Ltd	Mott MacDonald Ltd	National Physical Laboratory	Olsen Engineering UK Ltd	One Small Planet LTD	PAPA Pump	ENVROPLUS	Quest International (UK) Ltd – AirManagement Technologies	Red Skies Limited	Ricardo-AEA	Sunfarm ltd
Automatic Monitoring and Targeting													
Benchmarking													
Best Practice Identification and Adoption													
Building Construction and Design													
Building Materials													
Emissions Audits													
Energy													
Energy Audits													
Energy Management Systems													
Environmental Audits													
Equipment Upgrade													
Heat Recovery Systems and Heat Exchangers													
Heating and Boilers													
Lighting													
Photovoltaic													
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Rain Water Capture Systems													
Solid Waste Separation and Recycling Systems													
Training													
Ventilation and Circulation													
Water Recycling Systems													
Water Treatment and Filtration													
Wind													

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Reference Matrix

	Symphony Recycling Technologies	Tangram Technology Ltd	TBS Europe Ltd	TEAM (Energy Auditing Agency Ltd)	The Greenbox Company (Europe) Limited	The LCA Calculator	The University of Birmingham	The University of Nottingham	NET Services Ltd	Triteq Ltd	University of Reading	WILSON STEAM STORAGE	Xtract Filtration Systems Limited
Automatic Monitoring and Targeting				•						•			
Benchmarking													
Best Practice Identification and Adoption													
Building Construction and Design													
Building Materials													
Emissions Audits													
Energy													
Energy Audits		•					•						
Energy Management Systems			•					•					
Environmental Audits											•		
Equipment Upgrade													
Heat Recovery Systems and Heat Exchangers					•								
Heating and Boilers													
Lighting													
Photovoltaic													
Process Control Systems													
Process Optimisation												•	
Product Design Optimisation						•							
Product Recycling	•												•
Rain Water Capture Systems													
Solid Waste Separation and Recycling Systems													
Training													
Ventilation and Circulation													
Water Recycling Systems													
Water Treatment and Filtration													
Wind								•					

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