



Welcome to the EnviroDaq newsletter focusing on the UK's growing environmental goods and services (EGS) sector.

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EnviroDaq

The EnviroDaq 100 Index is the first index for UK-listed environmental technology companies. It indexes the 100 largest UK-listed companies which derive at least 60% of their turnover from environmentally-focused goods and services. These include renewable energy; energy efficiency equipment; renewable materials; waste management; water and waste water treatment; air pollution control equipment; environmental monitoring and instrumentation; and cleaner technology processes.

The EnviroDaq 100 website (www.envirodaq.com) provides detailed company information, including key financials, company background, broker recommendations and investment ratios. It includes a graphing feature which allows you to create flexible and customisable share graphs for each of the EnviroDaq component securities.

In addition to this, companies are sub-divided into the 12 official EGS sub-sectors as used by the Department for Business Enterprise and Regulatory Reform. You can access these lists as well as focused sub-sector news by clicking on the new "Industry Sectors" link on the navigation column.

To ensure the index remains balanced, we will always list the largest 100 companies as determined by their market capital. This will be reviewed on a quarterly basis when the index will undergo rebalancing. The EnviroDaq 100 index is market capitalisation-weighted and free float adjusted in line with the methodology used by the FTSE AIM Index series. More information about this methodology can be found on the "Index Info" page.

EnviroDaq stats (as from today)

EnviroDaq Index Current Value: 131.72
EnviroDaq Index Movement Today: +0.28
EnviroDaq Index Movement Last 7 Days: +0.59

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News In Brief

Green Light for World's first Large Scale Wave Farm in UK

The UK Government has approved plans for a £28m wave farm project, which has been developed by the South West of England Regional Development Agency.

Wave Hub is a world first and could generate enough electricity to power 7,500 homes. The project could create 1,800 jobs and would bring in £560m to the UK economy over 25 years.

Up to 30 floating wave devices will be 'plugged' into the sea floor and will be spread over 8 square kilometres, off the North or South Cornish coast. The Wave Hub is expected to be operational by 2009.

To read more click [here](#).

E.ON UK plans Giant Battery to Store Wind Power

E.ON UK has released plans for a prototype battery to be built to store the power generated by wind farms.

The battery will be the size of four large shipping containers and will be capable of storing the power equivalent of 10 million standard AA batteries. The battery will be able to supply stored energy at times of high demand when a wind farm may be operating below full capacity.

The prototype, which contains a secret mix of chemicals, will be operational by late 2009.

E.ON also announced a £40m research fund for further developments in energy storage and technologies.

To read more click [here](#).

Shipping urged to Act on Air Emissions

Aviation has long been at the forefront of environmental campaigns demanding a reduction in air emissions. However, the maritime industry is now being targeted as a major producer of CO2 emissions.

Industry groups argue that shipping is cleaner than road air and rail transport. However the International Council on Clean Transportation estimate that by 2020 shipping will produce more sulphur and nitrogen oxides than all land-based sources in the EU.

No accurate emissions data exist for the maritime industry, but experts estimate that it is slightly less than that caused by aviation. A United Nations International Maritime Organisation study will reveal their findings later this year.

To read more click [here](#).

Daihatsu develop Platinum-Free Fuel Cell

Japan's Daihatsu Motor Co Ltd has developed a technology to manufacture fuel cells without the precious metal platinum.

Alkali anion exchange membranes are used instead of acid membranes, eliminating the need for costly corrosion-resistant platinum.

The new fuel cells use hydrazine hydrate, instead of hydrogen, as an alternative fuel that emits no carbon dioxide.

Daihatsu currently uses 100g of platinum per hydrogen fuel cell vehicle it manufactures, at a cost of around \$4,145, which can now be cut to reduce production costs.

To read more click [here](#).

\$1.8bn Wind Farm Planned for Australia

Conergy, Germany's largest solar energy company by sales, is planning a AUS\$2 billion (US\$1.8 billion) wind farm in Australia to expand the company's presence in Asia-Pacific.

The proposed wind farm will be Australia's largest, comprising 500 turbines generating 1,000 megawatts of electricity - sufficient to power 400,000 homes.

The wind farm is expected to take up to four years to build, being fully complete by 2013.

Australia's carbon dioxide emissions are expected to be reduced by at least 3 million tonnes a year by the completed wind farm.

Coenergy plans to generate 50% of its business outside of Germany and 50% from non-solar renewable technologies by 2008.

To read more click [here](#).

EU may cut Biofuel Subsidies

The European Union introduced the energy crop premium in 2004 to encourage farmers to grow raw

materials for biofuel by offering a flat-rate subsidy of 45 euros per hectare.

This year the EU stated that 2 million hectares would be eligible for the subsidy, increasing the eligible area from the previous level of 1.5 million hectares. However, it is expected that in 2007 almost 3 million hectares will be planted with sugar beet, cereals and vegetable oil plants for biofuel purposes.

As a result of the increase in the planted area the EU expects the subsidy to farmers to be reduced to around 30 euros per hectare.

To read more click [here](#).

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EnviroDaq 100 Company News

EnviroDaq 100 Changes

The EnviroDaq 100 Index is rebalanced to determine the 100 largest companies by market capital. There are a number of new securities joining the Index, whilst others have been removed.

New additions to the Index include: IdaTech (IDA), Jetion Holdings (JHL), KP Renewables (KPR), Kurawood (KURA), Ludgate Environmental Fund (LEF), Libra Natural Resources (LNR), Nviro Cleantech (NVR), and Traction Technology (TRAC).

The following securities have been removed from the EnviroDaq 100: AFC Energy (AFC), Bioganix (BGX), Bodisen Biotech (BODI), China Biodiesel International Holdings (CBI), Hightex Group (HTIG), Questair Technologies (QAR), ReEnergy Group (RGY), and Sabien Technology Group (SNT).

May Gurney acquires Gas Utility Maintenance Contractor

Willows Plant Limited, a North West-based gas utility maintenance contractor, has been acquired by May Gurney for £4.6m, payable on completion of the acquisition. A further £10m may be payable dependent upon the securing of substantial work above the current turnover levels of Willows.

In the financial year up to 31 March 2007, Willows generated a pre-tax profit of £0.6m on a revenue of £19.1m.

30% of May Gurney's revenues is derived from utilities maintenance, making it a core market. David Sterry, CEO of May Gurney commented that "The combined skills of the two businesses will give us an excellent opportunity to secure a long-term and substantial position in the gas maintenance market".

To read more click [here](#).

GTE sign exclusive deal with Siemens Power Generation

Gas Turbine Efficiency (GTE) have signed a three-year exclusive supply agreement with Siemens Power Generation in which GTE will supply, integrate, test, train and install Combustion Dynamics Monitoring Systems (CDMS).

Siemens will exclusively market the systems under its own name on its worldwide combustion turbine fleet. Both companies will retain their intellectual property.

The CDMS system integrates sensors, hardware and controls with the aim of efficient gas turbine operations. This includes fuel variability and quality, emissions optimisation, combustion tuning, fuel efficiency, parts life extension and system protection.

To read more click [here](#).

Camco Announces new Chinese Voluntary Emission Reduction Projects

Camco has signed a contract with Honiton Energy Holdings to act as its exclusive carbon development partner through to the end of 2009.

Under the new voluntary carbon reduction scheme, Honiton are expected to generate up to 3.3m tonnes of emissions reduction targets over their first crediting period.

Honiton is China's fastest-growing foreign renewable energy provider and owns the rights to develop five extensive project sites in the Inner Mongolia region.

Honiton is planning to construct 150MW of wind turbine capacity by the end of 2008 with the first

turbines becoming operational this year.

To read more click [here](#).

TyraTech Launch Natural Pesticide Range

TyraTech, the pioneer of effective and natural pesticide products, has launched its Crawling Insect Spray from its "Naturals" range and has its first order from one of the largest food distributors in the US.

The spray uses a blend of natural plant oils to deliver potent insect control that is harmless to humans and animals.

The spray treats a range of common pests including cockroaches, drain flies, fruit flies, ants, bed bugs, dust mites and spiders.

The products can be used while people carry on their day-to-day activities, eliminating the need for quarantine or evacuation that is required with many chemical pesticides.

To read more click [here](#).

Solar Integrated Wins New Roofing Projects

Solar Integrated Technologies has won an order for a Building Integrated Photovoltaic (BIPV) roofing system for Audi Logistics Centre in Germany.

The order, which is worth \$1.5 million, is expected to be completed by the end of the year.

Solar Integrated has also won two separate orders with a total value of \$3.4 million to install solar roofing systems for customers in Belgium.

"We continue to target and successfully win business in select vertical market segments and geographic markets ... with these two new orders, we are expanding our customer and project reference base in the distribution facilities sector and in the retail sector." stated R. Randall MacEwen, President & CEO of Solar Integrated.

To read more click [here](#) and [here](#).

£3 million Investment in Hydrodec Group

Ludgate Environmental Fund has invested £3 million, 11.2% of the Fund's net assets, into the Hydrodec Group which provides advanced oil and process technology, products and services to industry.

Hydrodec specialises in environmentally sustainable, small carbon footprint chemical processing and high performance oil refining in a closed loop, de-minimal emission process.

Hydrodec's principal focus is on the market for transformer oil, used by electrical utilities in the power generation industry.

Hydrodec's technology re-refines used and contaminated transformer oil to create very high quality new transformer oil meeting all necessary industry standards.

To read more click [here](#).

Oxford Catalyst Makes Steam

Oxford Catalysts have signed a Memorandum of Understanding with a global consumer goods giant to explore the use of Oxford Catalyst's Instant Steam technology.

The technology can provide steam instantly on demand, using a compact portable device. A catalyst is used to imitate a chemical reaction in a liquid fuel that produces steam, starting from room temperature.

The benefits of this technology include giving the ability to steam clean and disinfect areas to a much wider population.

Roy Lipski, Chief Executive of Oxford Catalysts said:

"We are very excited about our Trigger Steam technology and the potential represented by the process we've embarked upon with this leading global consumer goods giant.

To read more click [here](#).

For all the EnviroDaq company news visit www.EnviroDaq.com and view the news archive.

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Venture News

£5m for Perpetuum motion

Micro-power group Perpetuum has closed a £5m second round led by Environmental Technologies Fund. The investment is the second from ETF's targeted Euro150m fund. Existing investors Quester and Top Technology also joined the round.

Southampton-based Perpetuum is commercialising a range of vibration-harvesting generators which can power wireless and battery-free sensors and other applications. The firm was spun out from Southampton University in 2004.

Read more [here](#)

Green Biologics lands funding

Carbon Trust Investments and Oxford Capital Partners have led a £1.58m round in biomass conversion business Green Biologics. Previous angel investors also joined the round.

The Oxfordshire-based company uses thermophile microbes to convert biomass into butanol. Viable feedstocks range from purpose-grown crops to agricultural waste. The basic fermentation tech, using clostridial bacteria, was first commercialised in 1916 to produce acetone. By optimising the process and using cheaper waste feedstock, the firm aims to reduce production costs by a factor of two or three.

Read more [here](#)

Imperial leads EVO investment

University spin-out EVO Electric has raised £1.5m funding. Tech transfer company Imperial Innovations led the round with a £375,000 investment, and now holds 38% of EVO.

Consensus Business Group, a family trust vehicle for the Tchenguiz brothers, and a group of private individuals also joined the round. Consensus previously managed Imperial Innovation's AIM listing in July 2006, and has continued to work closely with the group.

EVO is developing high power-density electric motors and generators for applications including traction motors in hybrid-electric vehicles. The axial flux technology is based on research by Michael Lamperth at Imperials' Department of Mechanical Engineering.

Read more [here](#)

Insource in demand

Insource Energy, a waste-to-energy business set up by the Carbon Trust, has secured funding from Scottish and Southern Energy plc. SSE is investing up to £2.7m for a 40% stake in the business, with a further £10m on the table as the company develops.

Insource provides on-site CHP, biomass boilers and other technologies for food producers, a sector that produces some 5.6m tonnes of biodegradable waste per year in the UK. Pilot projects use anaerobic digesters to convert waste to methane, which is then fed into a CHP unit.

Read more [here](#)

Venture news provided for EnviroDaq by [Clean Ventures](#).

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Company Case Study

The following case studies of companies in the EnviroDaq index were penned by the companies themselves and have not been edited by the EnviroDaq editor. We therefore accept no liability for the accuracy of the information contained within them and they should not be used as a prospectus for investment purposes.

Company: Clean Diesel Technologies, Inc.

Clean Diesel Technologies, Inc. is a global company providing innovative technologies and solutions that reduce emissions, conserve fuel and improve engine performance. The Company partners with Original Equipment Manufacturers (OEMs) and Tier One suppliers to enable them cost-effectively to address the growing demand for emission control.

Worldwide more than 11 million new diesel vehicles are produced for on-road use each year. Over 75% of these are produced in Europe and North America, and which will be required to meet new emissions standards between 2009 and 2010. Clean Diesel leads the development of technology for the emissions reduction market. To date, the Company has invested more than US\$40 million to develop its technology and a strong patent portfolio. Clean Diesel believes leading suppliers will need its technologies to meet legislative and market requirements.

Key to Clean Diesel's strategy is entering license agreements with OEMs, global Tier One and systems suppliers to commercialise the Company's products. Clean Diesel also delivers finished products to establish its technologies in the markets. The Company's current partners, among others, include Robert Bosch GmbH, Tenneco and Cummins Filtration. Partnerships have also been forged with leading distributors for the sale and marketing of its products. These relationships clearly recognise Clean Diesel as an innovator in emissions control technology.

Clean Diesel has a suite of patented technologies. Its products in commercial use around the world include:

Platinum Plus® Fuel-Borne Catalyst: A fuel-borne emissions solution which enables the performance of exhaust emission control systems whilst improving fuel efficiency. Platinum Plus is the only fuel-borne catalyst registered with the U.S. EPA for on-road use.

Catalysed Wire Mesh Filter (CWMF): A catalysed filter system to reduce exhaust particulate matter (PM) emissions by up to 75%.

Platinum Plus Purifier Systems: A range of particulate matter filtration and retrofit emissions control technologies designed to meet the requirements of the London and other Low Emissions Zones (LEZ).

ARIS®: A systems technology for selective catalytic reduction of NOx emissions by up to 99%. The technology is suitable for Original Equipment (OE) and retrofit installation.

Clean Diesel Technologies, Inc. is publicly traded on The NASDAQ Capital Market under the symbol CDTI, the Alternative Investment Market (AIM) of the London Stock Exchange under the symbols CDT and CDTS, and the Frankfurt Stock Exchange and Xetra under the symbol CDI.

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EnviroDaq has been developed by the UK Centre for Economic and Environmental Development (UK CEED), a charitable foundation, and the Centre for Sustainable Engineering (CSEng), a not-for-profit company. The aim is for the index to become an authoritative benchmark for performance in the environmental industries and to attract recognition for, and investment activity in the sector. Please get in touch if you wish to give feedback on our newsletter or submit relevant news or case studies. For more information on EnviroDaq visit www.envirodaq.com or contact Gareth Jones (g.jones@ukceed.org; Tel: 01733 312286)

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