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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 of the website.

EnviroDaq stats (as from today)

EnviroDaq Index Current Value: 130.22
EnviroDaq Index Movement Today: -0.61
EnviroDaq Index Movement Last 7 Days: +0.78

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News In Brief

UK Climate Change Bill nears completion

A new UK Climate Change Bill is set to go before Parliament in the next three months and could become law as early as May 2008.

The proposed legislation sets binding new targets to cut carbon dioxide emissions by at least 60 percent from 1990 levels by 2050, and half that by 2020. An independent committee would monitor progress.

The Climate Change Act will make Britain the first major country to set binding legal limits on its greenhouse gas output. But environmentalists caution that carbon emissions have reportedly risen since the Labour government came to power in 1997.

To read more click [here](#).

China and the US to Accept Climate Change Goals

Asia-Pacific nations, including China and the United States, are set to agree to global goals to reduce emissions, according to a draft statement prepared for an APEC summit this month.

It will be the first time that China and the US have agreed to such goals. Although the targets are non-binding, the declaration is seen as reaffirming the UN climate convention as the primary vehicle for fighting global warming.

To read more click [here](#).

E.ON Plans North Sea Windfarm

German-owned energy giant E.ON has revealed plans to erect around 80 wind turbines in the North Sea, five miles off the coast of Yorkshire. The development will produce enough electricity to supply up to 200,000 homes with clean energy.

To read more click [here](#).

New UN Climate Pact

Industrial nations have agreed to consider stiff 2020 goals for cutting greenhouse gases. The move is being seen as a starting point for a new agreement to replace the Kyoto Protocol beyond 2012.

About 1,000 UN delegates set non-binding greenhouse gas reduction targets of between 25 and 40 percent below 1990 levels.

To read more click [here](#).

China Boost Renewables Spending

China plans to invest US\$265 billion in renewable energy by 2020, according to one of the country's top energy planners.

The cash would help China to meet its target of boosting the portion of its energy that comes from renewable sources to 15 percent by 2020, up from 7.5 percent in 2005.

To read more click [here](#).

Dutch Plan Record-breaking Offshore Wind Farm

Two Dutch energy companies are planning to build a €383 million (US\$522.3 million) wind farm 14 miles off the country's North Sea coast.

Called Q7, it will be the farthest offshore wind park anywhere in the world. The development is expected to be completed in 2008 and will produce enough electricity for 125,000 households.

To read more click [here](#).

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EnviroDaq 100 Company News

Clean Air Power Completes Volvo Truck Trial

Clean Air Power, the developer of dual-fuel technology which allows heavy duty engines to run on both diesel and natural gas, has completed trials of its latest demonstration vehicle.

The vehicle was developed jointly with the Volvo Group, one of a number of manufacturers with which Clean Air Power has held preliminary discussions.

To read more click [here](#).

QuestAir Celebrates Methane Recovery Order

QuestAir Technologies has received an order valued at approximately \$1.2 million Canadian dollars for its M-3100 methane recovery system.

The order, from US-based SCS Energy, is for a landfill gas-to-energy project in New Hampshire, in the United States.

To read more click [here](#).

Energetix Subsidiary to join AIM

Energetix Voltage Control, a subsidiary of sustainable energy company Energetix Group plc, is to join AIM by the reverse takeover of Flightstore.

The enlarged company will change its name to VPhase on admission to AIM, which is expected by the end of September 2007.

Meanwhile, another subsidiary of Energetix Group, Energetix Genlec, has been awarded a grant of £197,000 from the North West Regional Development Agency to accelerate the development of the next generation of Genlec microCHP appliances - a high efficiency micro-combined heat and power (microCHP) boiler for the domestic market.

To read more click [here](#) or, for Genlec, [here](#).

Waterman Acquires Furness Green

Waterman Group plc, an engineering and environmental consultancy, has acquired Furness Green in a deal worth up to £1.2 million.

Furness Green is a mechanical and electrical design consultancy with offices in London, Leeds and Nottingham.

To read more click [here](#).

REH Acquires German Wind Farm

Renewable Energy Holdings plc (REH) has bought an 8MW wind farm in Kirf, Germany.

The deal, valued at around €10.5 million consists of four MM92 turbines, each with 2MW capacity. The acquisition complements REH's existing 32.5MW wind farm, located in Kesfeld, near Kirf, Germany. REH now has the capacity to generate 40.5MW from its wind assets in Germany, with plans to increase this to 474 MW by April 2008.

To read more click [here](#).

Azure Secures North American Hybrid Deal

Azure Dynamics Corporation, a developer of hybrid electric and electric powertrains for commercial vehicles, has signed a development and cooperation agreement with an un-named North American company.

Azure will deliver a hybrid petrol/electric vehicle for testing and demonstration within the company's North American fleet.

To read more click [here](#).

Scaled Single Fuel Cell Developed

AFC Energy, an alkaline fuel cell developer, has achieved its second technological milestone - the operation of a fully scaled single cell.

Full commercialisation of the single cell technology is planned for 2009. The next expected milestone is the 500 hours operation of the scaled single cell scheduled for October 2007.

To read more click [here](#).

LCA Makes Third Investment in Heliodynamics

Low Carbon Accelerator Limited (LCA) has invested £600,000 in Heliodynamics, LCA's third investment in the company.

Heliodynamics has developed a concentrating solar photovoltaic combined heat and power (CHP) system, which produces electricity and heat. Heliodynamics systems are targeted at providing zero-carbon power and climate control systems for buildings.

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

Cleantech Due Dilligence for Professional Investors

The Centre for Sustainable Engineering has opened up its technical due diligence capability for use by professional investors. CSEng, the commercialisation catalyst for cleaner technologies, has built and evaluated an extensive knowledge base of such technologies, using its engineering and commercial staff, and associates in industry and academic research. This specialist and independent capability is now available for professional investors.

CSEng is a nonprofit company seeking to accelerate the market adoption of more sustainable technologies. "The essential breakthroughs to a low impact or carbon positive future will come through better technology," says Phil Sheppard, CSEng Business Intelligence Director. "We need to engineer resources in a much more intelligent way which relies a lot less on increasing energy input to achieve transformations of resources, and a lot more on using available energy more smartly, and getting it from sustainable and benign sources. CSEng understands how this can be done, and the route to doing it cost competitively, including innovative financing. We test innovation against these kind of benchmarks, on which successful products and processes of the future will be based."

To read more about this service, please click [here](#).

£13.5m round for Solarcentury

Solar provider Solarcentury Holdings has secured £13.5 million development funding from a syndicate led by cleantech specialist Zouk Ventures and Dutch investor Good Energies. Vantania Holdings and Foursome Investments also joined the round, alongside existing investors VantagePoint Venture Partners and Scottish and Southern Energy.

London-based Solarcentury sells photovoltaic and solar thermal products, based on bought-in technologies, to domestic, business and public sector customers. Prominent installations include Cornwall's Eden Project and Manchester's CIS Tower. The firm was founded by former Greenpeace activist Jeremy Leggett in 1999, and raised a £7m first round during the 2000 tech bubble. The new funding will go towards driving further European growth.

To read more click [here](#).

Heliodynamics secures follow-on funding

Solar CHP developer Heliodynamics has secured £600,000 follow-on funding from Low Carbon Accelerator. The latest tranche is its third from AIM-listed LCA, which now holds 35% of Heliodynamics and is committed to a further £400,000 round if the firm meets certain targets.

Cambridge-based Heliodynamics produces sun-tracking solar concentrators which both generate electricity and

heat liquid-filled pipes. The firm claims that its system delivers 35 times the energy by area of conventional photovoltaic units.

To read more click [here](#).

Thermilate boosts global marketing

Enterprise Ventures has backed insulating paint group Thermilate Europe with a £750k funding package. The Yorkshire-based company has global distribution rights (excluding North America) for a paint additive based on microsphere technology developed by Nasa. Thermilate's paint products act as an extra layer of insulation, reducing energy costs. The new funding will be used to boost global marketing and distribution efforts.

To read more click [here](#).

New wave of grant funding for Embley

Wave-power company Embley Energy has won a £150,000 Applied Research grant from the Carbon Trust to develop a prototype of its Sperboy device. When floating in the sea, waves drive air into and out of a chamber within the Sperboy, driving a generator on top of the buoy. The new grant will fund a two-year trial of the low-maintenance device, which Bristol-based Embley says can bring the cost of marine power down to a competitive level.

To read more click [here](#).

Major cleantech fund launched

London-based investor Climate Change Capital has closed its latest fund at Euro200m. The new Climate Change Capital Private Equity fund will invest in expansion and later-stage deals, including buyouts, in the European clean power, clean transport, energy efficiency, waste recovery and water sectors. Target investments will be in the Euro5-20m range. CCC also manages two Carbon Funds, totalling over Euro800m, targeted at emission-reducing projects in developing countries.

To read more click [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: TyraTech

TyraTech (AIM: TYR) is pioneering a new class of highly effective plant-derived pesticides and personal care treatments aimed at the \$23+ billion dollar market for the control of insects and parasites.

With a new standard of combined broad spectrum potency and unsurpassed safety, TyraTech 'Naturals' address the increasing environmental legislation issues and end-user demand for more responsible pesticides.

The company has numerous products under development for the consumer home/garden and commercial business markets, the agriculture and horticulture markets, and mosquito control, as well as products for human and animal treatments.

These include:

- House and garden crawling and flying insect killers
- Area insect repellents
- Broad area agricultural insect and mosquito killers

- Personal-use insect repellents
- Ingestible products for treatment or prevention of intestinal parasites

TyraTech Naturals are very different from the standard chemical poisons used in many insecticides. They target three highly sensitive chemo-receptors found on all invertebrates (such as insects), which kills them through altering their biology.

These receptors are not found in animals and humans, which confers a unique safety profile on the company's products. TyraTech's core intellectual property was developed over a period of seven years led by the company's chief scientific officer Dr Essam Enan, whilst at Vanderbilt University, Nashville, USA.

Key to the company's business strategy is partnering with multinational corporations to provide market adoption at scale, and to co-develop and market its products across the diverse target markets. These range from broad-use insect sprays to the prevention of intestinal parasites.

TyraTech's current partners are: Syngenta Crop Protection AG; Scotts Miracle Gro; Arysta LifeScience North America Corporation; and Kraft Foods Holdings, Inc. These relationships will generate income from fees and royalties, sales of proprietary active ingredients to its partners, as well as milestone payments, which will complement the company's own direct sales of products to provide multiple commercialisation channels.

Currently the insecticide and parasiticide markets are primarily served by chemical based agents. However, these products are compromised by environmental concerns, adverse effects against mammals, and the development of insect resistance. TyraTech believes there is a recognised global need for safer and highly potent pesticides that lack the toxicity profile and resistance development characteristic of synthetic chemical pesticides.

TyraTech's natural product lines are designed to address these important issues by applying potent pesticides that selectively target receptors present in invertebrates, but not humans or other mammals, and that overcome resistance through attacking multiple sensitive biologic receptors.

TyraTech has a market capitalisation of approximately £110 million, having raised £25 million on its admission to AIM in June 2007.

For further information, contact:
Justin Heath or Stephanie Cuthbert
Abchurch
Tel: +44 (0) 20 7398 7781
justin.heath@abchurch-group.com

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Contact EnviroDaq

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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About EnviroDaq

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