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CLYDE BERGEMANN ADDS CASCADE'S EMISSIONS TECHNOLOGY TO GLOBAL PORTFOLIO

Cascade Technologies, the world leader in the application of quantum cascade lasers (QCLs), has signed a distribution deal with Clyde Bergemann Power Group to develop and market its revolutionary emissions sensing technology across the globe.

Clyde Bergemann, part of the East Kilbride-based Clyde Blowers portfolio, is strongly focussed on delivering clean energy technologies and is the world's largest supplier of boiler cleaning and ash-handling systems to the power-generation industry.

The company, which is also a major supplier of Air Pollution Control equipment, provides effective continuous monitoring of nitrogen oxide (NO) and sulphur oxide (SO) emissions and it is expected that Cascade's ground-breaking emissions detection system will offer higher levels of efficiency and effectiveness.

The agreement has been announced amid renewing pressure for more stringent worldwide controls on industrial emissions. The Stern Review, published by eminent economist Sir Nicholas Stern, warns that the world must now spend 1% of its wealth, some £184billion, on tackling global warming.

And UK Chancellor Gordon Brown has recently appointed former Democrat presidential candidate Al Gore as his new international advisor on the environment. Gore, who has reinvented himself as a green campaigner on the world stage since losing the presidential race to George W Bush, has won acclaim for his film, *An Inconvenient Truth*, on the dangers of global warming.

"We are excited at the prospect of working alongside Clyde Bergemann to develop and market this ground-breaking technology in the highly-lucrative world-wide markets," said John Fuller, Chief Executive of Cascade Technologies, which has developed and patented the world's first real-time technology for the detection of gas, emissions and explosives through its revolutionary use of Quantum Cascade Lasers (QCLs).

"Our innovative applications of QCLs offer previously unprecedented levels of sensitivity and the ability to quickly analyse complex gases. With countries and businesses entering an era where environmental emissions controls are taking on even greater significance, we believe our technology can be at the forefront of future development. The technology displaces current products in existing markets for environmental emissions analysis, combustion gas analysis and process control, whilst creating new markets for explosives and drug detection, as well the detection, screening and destruction of chemical weapons and toxic industrial chemicals."

Clyde Bergemann will inject funding during a preliminary six-month market and test site evaluation phase.

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This will see Cascade's innovative product being tested at a number of power stations in the UK, with Clyde Bergemann also providing marketing intelligence and performance feedback through a dedicated engineering and marketing team.

Following the successful completion of the trial-period, both parties will enter a commercial supply agreement that will grant Clyde Bergemann exclusive licence to market and distribute the system throughout world – excluding North America, Canada and Mexico.

Jim McColl, chairman and chief executive of the Clyde Blowers group, said: "Clyde Bergemann is focussed on delivering clean energy solutions and is always seeking new technologies that will help reduce carbon emissions, increase energy efficiency, increase reliability and reduce the costs of our clients' operations.

"The relationship with Cascade Technologies underlines our commitment to a sustainable environmental approach for our customers to manage power station emissions. The first step in managing emissions is to be able to measure them and Cascade's technology enables practical and reliable continuous emissions monitoring to be achieved.

"There is no similar product on the market at this time and we believe the Cascade solution offers significant benefits to customers when compared with existing emissions monitoring solutions. We have an excellent Sales Network around the world and we are very pleased to connect Cascade to that network to market the product globally."

Cascade Technologies recently announced it had secured an additional £2.5million of funding from Braveheart Ventures, Scottish Enterprise Scottish Co-investment Fund (SCF), Bank of Scotland Corporate's Growth Equity team and Partnerships UK.

The company has recently clinched a deal, worth up to £4million, with BP to design and supply an emissions monitoring system for use in the marine industry as well as developing explosive detection technology which, with further funding, could be in the hands of airport security staff within two years.

Notes to editors

- **Cascade Technologies** uses its revolutionary, patented core technology – based around the application of Quantum Cascade Lasers – to design, develop and supply innovative solutions for a wide range of global markets. These include the monitoring of greenhouse and general industrial emissions, hazardous gases, and explosives and drugs. Based at Stirling University Innovation Park, Cascade Technologies currently has world-class scientists and engineers working under development and supply agreements on several revolutionary products for key blue chip clients, whilst further bespoke product development, manufacturing, marketing and distribution agreements are being sought with customers worldwide. The company's technology provides highly specific and sensitive measurement, whilst its portable size offers cost savings compared to competitive offerings. It is also immune to many outside influences that typically affect sensors of this type.
- **Clyde Bergemann Power Group** delivers clean energy solutions to the

power industry and its products and systems are installed in thousands of Power Plants around the world. It has 20 operating companies worldwide and employs more than 1100 people. It specialises in engineering products, systems, solutions and services and is the market leader in Boiler Cleaning and Ash Handling technologies around the world. The company also designs and supplies Air Pollution Control Equipment to many industries and its Electrostatic Precipitators and Fabric Filters are widely recognised as technology leading products.

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