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## **quietrevolution installs first demonstrator turbine for intelligent energy management research**

quietrevolution, a leading UK manufacturer of vertical axis wind turbines, has completed installation of its qr5 turbine outside Vienna, Austria. The turbine is part of the European SmartCoDe research project and will be demonstrating various energy management concepts in the coming year.

quietrevolution, is one of eight European members of SmartCoDe – Smart Control of Demand for Consumption and Supply, a three-year project funded by the European Commission under the 7<sup>th</sup> Framework Program (FP7).

As part of its contribution to the project, quietrevolution is undertaking fundamental research into the understanding of the wind resource available for small wind applications. The aim is to provide energy forecasting between 10 minutes and 48 hours ahead.

According to Tamás Bertényi, Innovation and Research director at quietrevolution, “This knowledge is critical to making the best decisions on when and how to coordinate the local energy use with local energy production.”

SmartCoDe’s primary mission is to balance and reduce the energy consumption of small buildings and neighbourhoods and pave the way for energy-neutral/energy-positive local grids. The programme is unique in looking at demand side management issues. It is focused on how the local energy end user can maximise the benefit of local energy production and



decentralised renewable energy sources, such as quietrevolution's qr5 small wind turbine.

As part of the project, low-cost wireless nodes, implemented as highly-integrated microelectronic devices, are being designed. These SmartCoDe nodes use wireless mesh networking and will provide the central Energy Management Unit with the information needed to make decisions on use of locally produced energy.

Tamás Bertényi, added: "Coming up with the theory is one thing, but the SmartCoDe project will actually put these ideas into practice with this installation. This demonstrator will include typical local energy using devices (such as appliances, heating, and lighting) equipped with the SmartCoDe wireless nodes, together with this qr5 vertical-axis wind turbine as the local energy provider."

Bertényi expects that two years of on-site testing will lead to implementation of new wind energy forecasting software, using the qr5 turbine. "We will know a lot more about our turbine's effectiveness in maximising the site's energy use," he said.

quietrevolution was recently named one of the fastest growing cleantech companies in Europe, winning fourth place in the Cleantech Connect League Table Awards 2010.

For more information about quietrevolution, please see

[www.quietrevolution.com](http://www.quietrevolution.com).

For more information about the SmartCoDe project, please see

[www.fp7-smartcode.eu](http://www.fp7-smartcode.eu).

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### **About quietrevolution**

quietrevolution is a UK based wind turbine manufacturer. The company was started in September 2006 and has turbines installed in the UK, Australia, the Netherlands and Germany.

With energy prices on the rise, there is a need to focus on renewable technologies. quietrevolution's aim is to play a leading global role in the local energy revolution by designing, manufacturing and promoting small-scale wind turbine solutions and the role they play in helping combat climate change. The elegant design of quietrevolution's qr5 turbine is geared towards adding visual appeal to its surroundings, and the aerodynamics of the vertical axis design mean that noise and vibration is unobtrusive. Please visit [www.quietrevolution.com](http://www.quietrevolution.com) for more information.

### **About SmartCoDe**

SmartCoDe is a 7<sup>th</sup> Framework Program (FP7) project funded by the European Commission. Its primary mission is to balance and reduce the energy consumption of small buildings and neighbourhoods and pave the way to energy-neutral / energy-positive local grids. The project, which commenced in January 2010, is a 3-year Specific Targeted Research Project (STReP) funded under the Programme "ICT-2009", in the area "ICT support to energy-positive buildings and neighbourhoods". It includes eight partners from five European countries and is coordinated by the German edacentrum, an institution that supports European research and development. Please visit [www.fp7-smartcode.eu/](http://www.fp7-smartcode.eu/) for more information.