



BGC-018

NEWS RELEASE 15.7.09



Environmental Energy Technology Centre benefits from BG Controls' BMS

Leading building controls expert BG Controls has recently helped the Environmental Energy Technology Centre (EETC) at Waverley to maximise its green credentials by controlling its natural ventilation and under floor heating and cooling system.

Built on the site of the redundant Waverley coal mine near Sheffield, the EETC is a modern, low-carbon emitting building designed around renewable energy solutions. Its many eco-friendly technologies include wind turbines, heat pumps, cooling slabs and natural ventilation. Owned by Yorkshire Forward, the Centre provides office and workshop space for businesses developing unique and innovative environmental energy technologies.

BG was commissioned by Hurst Building Services to install and integrate the natural ventilation system and enable the ground source heating and cooling. BG engineers installed a Building Management System (BMS) connected to controllers via BACnet open protocol. The two motor control panels used in the installation were purposely designed and manufactured in BG's in-house workshop.

The sensor-controlled natural ventilation system monitors the temperature and CO₂ levels in all of the offices with controls on all of the windows to enable the windows to open and close automatically dependent on these levels. The under floor heating and cooling system are also connected to the BMS to enable accurate temperature control throughout the building. By using BACnet open protocol, BG can remotely monitor the under floor heating and natural ventilation at EETC from its own service bureau, which is manned by a team of fully trained engineers 7 days a week. Here, BG engineers can monitor performance and diagnose any faults to ensure the building is running as efficiently as possible.



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