



Building Services Controls

Newport City Council

Project | Newport High School
Client | Newport City Council
Architects | HLM
Mechanical Consultants | Arup
Main Contractor | Leadbitter Group
Mechanical Contractor | CMB Engineering



The £28M Newport High School and Active Living Centre opened in October 2009. It will replace Bettws High School and leisure centre and offer advanced teaching facilities, including 34 general classrooms, eight science labs, eight ICT suites, a fully-equipped design technology wing, six SEN areas and a vocational training, learning and resource centre. The state-of-the-art leisure facilities, including a 25m swimming pool, fitness suite, full size artificial turf pitch, multi-use games areas & sports pitches, are also open for Newport community residents outside of school hours.

Building Services Controls supplied an integrated control system consisting of the following: -

- Supply of Siemens PX range of ethernet modular controllers, loose controls, etc.
- Supply of Siemens Desigo Insight software.
- Integration to Window ventilation control (Knx).
- Integration to VRF units (Modbus/Procon/G50).
- Integration to electricity meters (Modbus & MBus).
- Supply of the nine HVAC control panels.
- Electrical installation of the control, communications and power wiring.
- Engineering and commissioning.



The BMS controls and monitors various items of plant including the primary heating plant, HWS, air handling & ventilation units (including window ventilation), CO2 control, underfloor heating, metering, etc.