SUTTON PARK COMMUNITY PRIMARY SCHOOL

Learning the importance of energy conservation and sustainable living

THE CHALLENGE

When Sutton Park Primary and its 240 pupils moved into brand new school buildings, distinguished by a low energy design and a strong emphasis on renewable resources, the challenge became having the best solutions to control and monitor the heating system to ensure a high level of energy efficiency as well as keeping heating costs down.

THE SOLUTION

In response to this challenge, Trend installed a BEMS Supervisor to adjust control settings and view monitored data such as room temperature and CO_2 concentrations within the school, heating plant operation and, in some cases, utility meter readings. This resulted in an in-depth view of the operation and status of the heating system, changing heating times and providing data to help diagnose faults.

THE OUTCOME

To minimise unnecessary use of energy, the school has been divided into three heating zones; each has a variable temperature heating circuit that is independently controlled by the BEMS. As an example, this means that the hall can be used outside school hours without having to bring the heating on in other areas. The pupils at Sutton Park can also look at BEMS collected data about their school – through custom-designed, child-friendly graphic pages that Trend created for them to encourage energy saving behaviour.

A BUSINESS CASE STUDY

FOR EDUCATION

BENEFITS

GOOD INSULATION AND TIGHT CONTROL OF THE HEATING SYSTEM
DISPLAYING THE ENERGY CONSUMPTION FIGURES TO BOTH ENGINEERS AND CHILDREN
ENCOURAGING ENERGY SAVING BEHAVIOUR