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New HVAC controls for energy efficiency and central control

Episcopal College, St. Vith/Belgium

The Episcopal College is situated in St. Vith, a small town in a beautiful region between Eifel and the Ardennes in the German-speaking part of Belgium. The college equipped its existing HVAC system with energy-efficient controls from Siemens.

The Episcopal College comprises several buildings and houses a secondary school with boarding school and a technical institute.

Students can choose from a host of subjects. In the first year, the compulsory subjects are more or less the same, but then the timetable changes increasingly from year to year. Finally, the students are offered an extensive choice of optional

subjects, matched to their abilities and preferences. The subjects include mathematics, natural sciences or languages, electrical mechanics, wooden and metal structures, automotive engineering and agriculture.

The college offers a well thought-out choice of subjects, providing students an ideal basis to prepare for their professional careers later on.

Answers for infrastructure.



Episcopal College, St. Vith

The objective was to upgrade the existing HVAC system in accordance with state-of-the-art technology and to ensure the new extension building could be operated via the same system as the other buildings. The Siemens Solution Partner T.S.D. SA, in Troisvierges/Luxembourg convinced the customer to install the Synco™ 700 control system because of its straightforward operation and efficient energy usage.

Ease of operation with Synco 700

The HVAC control system Synco 700 from Siemens excels in high levels of user- and service-friendliness, owing to straightforward and efficient operation. Proven and preprogrammed applications and energy saving functions are already integrated and therefore smooth and energy-efficient operation ensured. Thanks to their modular concept, the controllers can be expanded and adapted at any time. This means that HVAC plants can grow depending on new requirements, and investments can be made in stages. As next step, the Web server OZW772

will be installed which allows not only central but also location-independent operation of the entire HVAC system. Using the Web server, the plant can be accessed and adjustment can be made from any PC at any point in time, such as matching time programs to class room occupancy schedules. What's more, the customer will receive fault status and service messages directly via e-mail. This saves time and prevents unnecessary service visits.

Increased energy efficiency thanks to communication

The Synco devices exchange energy-related information via KNX communication – a worldwide standard. This ensures that the only equipment in operation is that required for optimum room comfort. As a result, unnecessary heating is prevented, for example, thus saving energy.

Synco for all schools in the town

All schools in the town of St. Vith shall be equipped with Synco 700, ensuring that their HVAC systems can be controlled and monitored from a central location.

Highlights

- Complete overview of plant at any time from anywhere via Web server
- Time programs matched for demand-dependent control
- Cost efficiency due to e-mail notification and remote access
- Energy efficiency thanks to energy saving functions and exchange of energy-related information via KNX