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One HVAC control system for three different facilities

Tweed Shire Council, Murwillumbah/Australia

The Tweed Shire Council, situated in a picturesque region in Australia, is committed to meet the needs of the ratepayers, residents, and clients with efficient service. To support this task from a comfort and efficiency point of view, modern HVAC products from Siemens were installed in the council's facilities.

The Tweed Shire is a beautifully diverse region in the North of the Australian State of New South Wales. The shire with 1,303 km² encompasses a large range of natural assets including a large stretch of coastline, lush mountainous regions, rich farmlands and an unspoiled river delta.

Just as its natural assets are diverse, so are the public facilities developed and operated by the Tweed Shire Council. The council is housed in a large office building together with the council chambers, a library, a concert hall, and several levels of office space.

The council has recently redeveloped its Aquatic Center into a state-of-the-art facility. The Aquatic Center is located about 100 m from the council office and includes an indoor 25 m dive pool, a kids pool and a hydrotherapy pool. It also has a 50 m outdoor pool and an aquatic playground.

A boutique Art Gallery is also a recent addition to the Tweed Shire facilities. It houses a variety of artworks owned by the council and it also attracts both local and international art exhibitions.

Answers for infrastructure.



Tweed Shire Council, Murwillumbah

The customer required an HVAC system enabling to control efficiently all three facilities – the council's office building, the Aquatic Center, and the Art Gallery – with their very different comfort needs.

Efficient control with Synco™

Synco 700 is the ideal product family for the customer. The RMS Synco controllers are easy to operate thanks to their clear-text displays. Trends of both temperature and humidity have been configured on each controller to allow the service staff a quick overview of recent plant conditions. Energy efficiency is enhanced due to energy saving functions and exchange of energy information within the plant. All Synco 700 controllers are communicative and thus enable the customer to have one control system for all three facilities.

Easy monitoring and fast reaction from everywhere

The system was completed with an OZW775 Web server. The Web server enables the building management system to reside on the Tweed Council Ethernet network. As such, the building controls

can be accessed by any PC on the customer's network. The Web server also allows selected alarms to be sent via clear-text SMS to the facility manager and the mechanical service contractor.

User-friendly operation

The ACS service and operating software on the operator PC allows for a graphical interface, real-time plant updates, trend logging and alarm processing. As such, the facility manager is able to change set-points, modify time schedules, and monitor plant conditions directly from his office.

Energy efficiency and fresh air

Direct expansion air change units are installed in the Aquatic Center. These energy-efficient units use a combination of compressors, heat exchangers, modulating fans and dampers to ensure the air in the center is fresh, whilst maintaining conditions at the same time.

One control system for three separate environments – Synco 700

The customer is very pleased with Synco because of the system's ease of operation and high functionality.

Highlights

- Usability due to clear-text displays and ACS
- Energy efficiency with energy saving functions and energy information exchange within the plant
- Remote control and centralized supervision for more operating comfort
- Cost efficiency – one system for three facilities