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CASE STUDY

Smart Building Automation for Education Project
Bilingual British School in Bergamo, Italy

2026

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ABOUT

Application Type: Education
Location: Bergamo, Italy

PROJECT PLAYERS

Building owner: Bilingual British School of Bergamo
Technology provider: Legrand
HVAC integration partner: Airzone

PROJECT CHALLENGE

As part of a major renovation of its Bergamo city-center campus, the Bilingual British School set out to significantly improve energy efficiency, indoor comfort and sustainability while keeping operational complexity under control. The project had to respond to increasingly strict European and local regulations on energy performance in educational buildings, with a strong focus on reducing operating costs and environmental impact. At the same time, the school needed a solution capable of integrating existing HVAC systems, ensuring optimal air quality and thermal comfort for students and staff, and remaining easy to manage on a daily basis. These requirements led the building owner to choose a flexible, scalable and future-ready building automation platform able to combine performance, wellbeing and sustainability, resulting in the adoption of Legrand's WEOZ solution, developed in synergy with Airzone.

THE SOLUTION

Legrand supported the refurbishment of the Bilingual British School (BBS) in Bergamo with WEOZ, its scalable building management and supervision platform designed to make education buildings easier to run, more comfortable and more energy efficient. Built around the Area Manager, it brings HVAC, lighting, indoor air quality and energy monitoring into one system, using interoperable protocols (e.g., Modbus, Zigbee, Z-Wave) and the Legrand Cloud for simple supervision through the Building Manager portal/app, including remote control and automation.

In partnership with Airzone, the project integrated Aidoo Pro Fancoil to smartly control existing fan coils and align heating and cooling with real classroom needs. Advanced sensors track occupancy and key indoor parameters, such as temperature, humidity and CO_2/VOCs, while window contacts and energy metering support continuous optimisation. The outcome is a modern, user-friendly infrastructure that improved comfort and sustainability and delivered around 50% lower overall energy costs compared with the school's other site.

"This project reflects our vision of smart, sustainable school buildings focused on people, technology that improves comfort and efficiency while also encouraging energy-saving habits for the future", said Andrea Raimondi (Business Development - Legrand Integrated Solutions).

PROJECT BENEFITS

Approximately 50% reduction in overall energy costs compared to the school's other BBS campus
Improved indoor comfort and air quality, with continuous monitoring of environmental parameters
Centralized, smart and simplified building management, reducing waste and operational complexity
Stronger sustainability awareness, supporting educational values through visible and measurable energy efficiency

PRODUCTS INSTALLED

Area Manager for local control, automation and cloud communication
Zigbee presence, brightness, noise, CO_2, VOCs, temperature, humidity and occupancy multisensors
Zigbee window and door contacts for open/closed status monitoring
BTicino MatixGO connected shutter actuators for remote blind control
Visual air-quality indicator lights for classroom awareness
Connected relays for scheduled control of interactive whiteboards
Airzone Aidoo Pro Fancoil devices for HVAC integration and control
Environmental probes for classroom temperature detection
Three-phase energy meters for detailed consumption monitoring

Are you looking for a solution to elevate your project with Legrand? Don't hesitate to contact us! Our experts team is here to support you every step of the way and provide comprehensive solutions tailored to meet the unique needs of your project!

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