

Enhancing the Educational Environment

An aging community college transforms its campus with BrightBlue®

BY MITCH BRITTO

To compete for student tuition funds while providing optimal learning environments, institutions of higher education must provide students and staff with optimal comfort while also ensuring energy efficiency and cost savings. Effectively managing heating, ventilation and air conditioning (HVAC) systems is crucial for maintaining a comfortable and productive environment. Without proper insight into the performance of their HVAC systems, colleges may experience issues such as uneven temperature distribution, increased energy consumption, and frequent breakdowns.

Enter TDIndustries' analytics solution, BrightBlue®, a powerful tool designed to address these challenges by providing comprehensive, data-driven insights into the performance of HVAC systems. BrightBlue leverages real-time data collection, analysis and predictive modeling to optimize system operation and workflow, identify inefficiencies, reduce downtime and save energy.

CASE STUDY: COMMUNITY COLLEGE

A community college in Texas faced the challenges of aging facilities and the return of a remote workforce. They decided to implement BrightBlue to enhance their HVAC system management. The college recognized the potential benefits of data-driven decision-making and how it could positively impact both comfort and operational costs.



BrightBlue®

REAL-TIME MONITORING INSIGHTS

The college used existing sensors and data points to continuously gather information about temperature, humidity, air quality and energy consumption through BrightBlue. This real-time data allowed the facilities team to identify fluctuations and anomalies in the system performance and take immediate action.

PREDICTIVE MAINTENANCE

By continuously monitoring the system's health and performance, the college identified potential issues before they escalated into costly breakdowns. This proactive approach to maintenance extended the equipment's life span and minimized downtime and disruption to learning environments.

ENERGY EFFICIENCY AND COST SAVINGS

With a better understanding of energy loss from fault detection and diagnostics and the ability to optimize HVAC sequences, the college saw a noticeable reduction in energy consumption. Using BrightBlue, the college addressed 62 issues in the first six months, resulting in \$84,568 in annual realized savings and reduced hot/cold calls and equipment downtime.

ENHANCED SUSTAINABILITY

By optimizing energy usage, the college also contributed to its sustainability goals. Reducing the environmental footprint aligned with the institution's commitment to responsible resource management, setting an example for students and the broader community. ●●●

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