

CASE STUDY: URSINUS COLLEGE COLLEGEVILLE, PA

Tozour-Trane, a division of Tozour Energy Systems, Inc.

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www.tozourenergysystems.com

610.962.1600



About Ursinus College

Founded in 1869, Ursinus College is known for close faculty mentoring and collaboration; a first-year program including the seminar-style Common Intellectual Experience; and a robust study abroad program. The nonsectarian, coeducational, residential liberal arts college near Philadelphia offers state-of-the-art science labs, a new performing arts center and an art museum. Intercollegiate athletics and educational internships are popular, and over their four years, students mature into independent, responsible, and thoughtful citizens. For more information, visit www.ursinus.edu.

THE CHALLENGE

Ursinus College, founded in 1869, is a 170-acre campus and home to more than 1,700 students. College officials were searching for a visual tool to help change campus community behavior to become more energy-conscious and reduce personal consumption. The college's buildings were already on a pathway to optimizing energy performance with its Tracer Summit Building Automation System. The Tracer Summit System provides building control through a single interface, and the college wanted to integrate that system with their existing electrical metering network installed many years ago.

The existing metering network was communicating through proprietary protocols. However, Ursinus College wanted to utilize that infrastructure in the most cost-effective manner available ... without having to implement costly upgrades.

THE SOLUTION

Tozour-Trane partnered with Building Logix, an energy management application and integration company, to develop a solution that would allow the college to tie its existing technology in with monitoring software.

Tozour-Trane and Building Logix collaborated to install an Energy Monitoring Dashboard and integrate it with the existing proprietary metering network. The dashboard allows Ursinus College to monitor campus electrical usage as well as individual building usage. With continuous monitoring, the dashboard is instrumental in determining opportunities for load shedding, energy reduction and the future potential of energy conservation measures. The dashboard is flexible and can be expanded to include additional buildings and other utilities used by the college.

Over time, the data generated from the dashboard will allow the college to more competitively purchase power, diagnose problems and track the success of energy conservation measures, as well as evaluate the campus energy usage for the students and faculty.

THE RESULTS

Ursinus now has a tool that is accessible on the school's website and shows users how behavior modifications can significantly affect energy efficiency across the campus. Additionally, the college is able to develop a baseline for future energy projects. The Energy Monitoring Dashboard software is also being used as a teaching tool through the college's UCGreen Sustainability Program. "Tozour developed a solution that allows us to collect data points for the building systems and in turn, benchmark future energy initiatives on campus," said Andrew Feick, Facilities Director at Ursinus College. "It is a great way to teach our students about the real-life energy savings programs that are in place within their own college."