



Case Study: Driving change at the University of New Hampshire with modern analytics.

"We can be more proactive and can catch issues within a week instead of things going on for maybe years before we discover that there's a problem."

Adam Kohler, UNH Campus Energy Manager

UNH

The University of New Hampshire has implemented sustainable practices since 1997. In 2009 UNH launched the Revolving Energy Efficiency Fund, which reinvests savings to implement more sustainable initiatives on campus. While UNH has exemplified a best in class model for sustainable campus management for over a decade, roadblocks were identified in outdated HVAC monitoring systems that failed to report and prioritize problems and inefficiencies in many older campus buildings.

Why UNH chose an out of the box automated solution

UNH wanted their team to spend more time fixing issues and less time looking for them. Auditing HVAC systems for energy issues has the potential to be extremely time consuming, and focusing even a small portion of their portfolio would be a huge time investment. Manually auditing BAS equipment can take 30 minutes to an hour per piece of equipment. With each building having 200 pieces of equipment, auditing the 30 selected buildings on campus could take upwards of 6,000 hours just to verify operations. BuildPulse's automated data collection and fault diagnostics reduces the time spent hunting for issues by the team.

Fix issues now and measure the impact later.

"The system provides avoided cost estimates for issues to help us target the items with the biggest energy impacts first." - Adam Kohler

BuildPulse reports come with weighted cost estimates, allowing the team to prioritize issues without requiring significant upfront cost analysis. This enables the team to fix issues now and measure the impact later. The service identifies common issues found in commissioning and analyst inspection of data without the high cost and time investment.

Driving Visibility and Conversation

"One major benefit of the Buildpulse system is its extended trend logging capability. The ability to easily generate and share custom trend logs has tremendous value." - Adam Kohler

UNH uses the data not only for troubleshooting issues but also for working with other teams on campus. When another department had a question about historical building performance, the Facility Team was able to pull up that data in the middle of the meeting without needing to dig through the BAS data.

Built for Facility Managers to make an impact

'We've appreciated the collaborative approach that has resulted in a better product for us and for BuildPulse.' - Matt O'Keefe, UNH Director of Energy & Utilities

Buildpulse analytics has a feedback loop that facility managers and commissioning agents are all contributing to. The software and BuildPulse's team are able to evolve with customer needs to help make an increasingly smart, efficient, and user-friendly tool.



University of
New Hampshire

Findings at a glance

Buildings

30 buildings selected from the Durham Campus

Square Footage

2,905,248 from the 30 selected buildings

Issues

- Limited Trending for HVAC systems
- Difficulty pinpointing and prioritizing problems
- Workflow problems

Results

- Automatically checks over 6,000 pieces of equipment every 5 minutes
- Prioritized issues based on cost savings
- Proactive mitigation of issues
- Capability to use historical data to demonstrate results to management
- Energy and equipment cost savings
- Simplify workflow for the team

Installation

BuildPulse's plug and play technology makes installation rapid and doesn't require much time.

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