



WAUKESHA COUNTY

“ We achieved our projected annual energy savings of \$30,000 in eight months with ESI. When you have a big campus and need building automation to work across different manufacturers’ systems, ESI delivers. ”

- MARK KECKEISEN - Facility Manager, Waukesha County

**DETAILS>>**

Waukesha County recognized an opportunity to lower taxpayer impact in 37 municipalities by investing in intelligent building technology. Since 2003, Waukesha County has engaged ESI to reduce energy usage, improve operational efficiency and decrease cost across several County-run buildings.

**CHALLENGES>>**

Always mindful of its role as a fiscal steward of taxpayer dollars, Waukesha County invested in building efficiency solutions on a case-by-case basis spanning several years. Prior to ESI’s involvement, several different manufacturers of mechanical, lighting and other control systems were installed. The County realized more energy and operational savings were possible if it could link together different manufacturers’ proprietary systems into a single-user interface. At four times the cost, the County was not inclined to replace systems in each building. Instead, the County turned to ESI for its reputation in providing cost-effective, technology-driven solutions designed to unlock and integrate different manufacturers’ systems.

“We now have a building automation system that maximizes efficiencies by allowing us a single source for making equipment adjustments while tracking and logging performance.”

- MARK KECKEISEN

**SOLUTIONS>>**

After normalizing building data to account for weather extremes year-over-year, Waukesha County in partnership with ESI saved nearly \$30,000 on its annual energy bill. A combination of new controls, heating equipment and operational modifications in cooperation with the facilities team led to further savings and cost avoidance.

“ESI solutions gave us real-time metering at our fingertips,” says Mark Keckeisen, Facility Manager for Waukesha County. “We no longer run around to each of our buildings recording demand, consumption and power factors that indicate opportunities to use energy more efficiently. In terms of operational savings, ESI automated our ability to identify hot water leaks, damper inefficiencies and other factors that impact preventative maintenance on equipment. In turn, this allows us to avoid costly equipment failures and repairs all together.”

Working with ESI, the County now has a modular and scalable system across its campus.

“Now we have the flexibility to make decisions based on best-in-class technology rather than choosing a solution because we are locked into manufacturers’ proprietary systems,” Keckeisen says.

SUCCESS STORY

**ADDED ADVANTAGES**

To ensure the highest return on its building automation investment, Waukesha County contracted with ESI for ongoing system support. Known as continuous commissioning, ESI engages County building engineers every week in an ongoing analysis of systems to ensure maximum efficiency and operational cost avoidance.

By benchmarking each building’s energy and operational performance, ESI makes recommendations for more efficient use of resources. Benchmarks based on best-in-class performance measures provide baselines for analysis. Continuous analysis creates visibility across Waukesha County buildings. Visibility combined with ESI’s deep experience in creating efficiencies across multiple facilities improves Waukesha County engineers’ ability to:

- Rectify causes of energy inefficiency
- Identify impending mechanical failures
- Enhance comfort and productivity
- Improve operations performance through on-going education in the use of the latest technologies

**From innovative designs and installation to comprehensive management and support, ESI provides integrated, performance-building solutions that generate success stories. Contact us to find out how we can help you improve your building performance.**



Building Solutions. Building Performance.

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