



LAKE COUNTRY SCHOOL

“ Less than 2 percent of all schools in the state achieve the ENERGY STAR rating each year. Of this elite group of schools, Lake Country School District is certainly in the top 25 energy-efficient schools in Wisconsin thanks to solutions brought by ESI. ”

— MARK LICHTER  
Lake Country School District Administrator

**DETAILS>>**

For more than a decade, Lake Country School District has partnered with ESI for its building automation systems, controls and HVAC services. In order to improve energy and operational efficiency, a web-based automation system was installed, which controls temperature, monitors and controls energy use, tracks consumption of electric and gas, and optimizes facility performance. Electrical and natural gas sub-metering was implemented to differentiate where energy is consumed, from chillers to stoves and everything in between. All together the school's energy efficiency efforts generated an \$89,000 rebate from Focus on Energy and WE Energies.

**CHALLENGES>>**

Built in 1993 with a sizeable addition in 1996, Lake Country School faced a significant decision regarding its building systems. To achieve its energy and operational efficiency goals as well as its environmental sustainability goals, Lake Country considered replacing its building systems at a cost of several hundred thousand dollars. ESI presented an alternative, integrated solution to improve Lake Country School's existing systems at a quarter of the cost with a simple pay back of four years or less.

**SOLUTIONS>>**

Working with Lake Country School District board members and facilities staff, ESI developed comprehensive energy and operations solutions as well as performance metrics that played a significant role in achieving ENERGY STAR certification for the school district.

By upgrading the school's building automation system, ESI and Lake Country School now actively monitor gas and electric consumption patterns for inefficiencies. If inefficiencies are detected, LCS facilities staff can quickly re-align building controls remotely through the web-based building automation system, saving time and money for the school.

Over the first nine months of the program, Lake Country improved energy usage by 20 percent, saving \$20,647, compared to the previous year. Savings were adjusted to reflect differences in billing rates, heating and cooling degree days, and billing days, year-over-year, to accurately portray net energy cost avoidance.

“Members of the school board, alongside ESI and facilities staff, took a collaborative, forward-thinking approach to reducing taxpayer and environmental impact through energy reduction initiatives.”

— MARK LICHTER

**THE BENEFITS**

Working alongside Lake Country School's head engineer, ESI implemented technology and operational changes to improve the overall performance of Lake Country School facility. Both internal and external facility improvement projects led to ENERGY STAR certification.

Taking a practical, sustainable approach to the district's energy and environmental goals created a comfortable learning environment while saving energy, reducing operational costs and improving environmental impact.

Additional ongoing benefits include:

- Improved comfort levels
- Enhanced air quality levels
- Decreased energy and operational costs to taxpayers
- Reduced downtime through instant access to energy and performance data
- Increased flexibility through a user-friendly system

**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.**

SUCCESS STORY



Building Solutions. Building Performance.

1-800-522-0372 www.thinkESI.com