

# SHEBOYGAN ELEMENTARY CHARTER SCHOOL - LAKE COUNTRY ACADEMY

Lake Country Academy (LCA) has been a public charter school working with the that Sheboygan Area School District for ten years. The school is in it's 2<sup>nd</sup> year of the charter and is continuing to increase enrollment. Before looking at adding new square footage, the Administration and Finance Committee expressed interest in improving the performance of their existing building. It was determined to invest in interior and exterior LED lighting improvements and destratification fans. These enhancements will generate energy savings and reduce maintenance costs. More details about the project below.



<http://www.lakecountryacademy.com/wp-content/uploads/campus-visit-contact-us-header-lake-country-academy.jpg>



Classroom - After LED Upgrade



New destratification fan



New LED light tube



Exterior pole light - After LED Upgrade

## Project Summary

The Administration and Finance Committee were involved in the design of the lighting upgrade from the beginning. They approved the light levels and color in a classroom, which was done as a “mock-up” before the project began. It was also determined to modify the switching in classrooms to “dual switching”, meaning the bank of light fixtures closest to the front of the room (by the white board/smart board) can be turned off independently. LCA will also benefit from reduced maintenance costs from the long life of the LED lights and by eliminating the fluorescent ballast. The destratification fans are designed push down the warmer air near the ceiling in a column fashion. This helps mix the air in the space and maintain the temperature so the existing HVAC system does not have to work as hard. The noise from the fans was also recognized as non-invasive.

Project Cost:	\$65,630
Annual Electric Savings:	\$9,678
Annual Maintenance Savings:	\$2,750
Focus on Energy Rebate:	\$7,535
Simple Payback:	4.6 years

“From start to finish Upper 90 Energy went above and beyond all our expectations. From the presentation to Board of Directors to the final walk through, Upper 90 was professional and communicated each and every step of the way. We would highly recommend working with Upper 90 Energy. Mario and his team are passionate about saving energy and money for their customers.”

Shawn Dzwonkowski - Administrator

