

ELS CASE STUDY

SUMNER ACADEMY

QUICK FACTS

- **Project Name:** Sumner Academy LED Retrofit
- **Location:** Nicols Lane, Gallatin, Tennessee
- **Gross Square Footage:** 50,579



PROJECT DESCRIPTION

Sumner Academy is a Pre-K to 8th Grade private school located in Gallatin, Tennessee. They operate four separate buildings including two educational buildings, a library/media center, and a state of the art gymnasium.

As part of the “2020 Project” for being green, the school contracted with Energy Lighting Services in 2015 to retrofit all of the lighting (interior & exterior) to LEDs. The faculty, staff, and students were impressed with the transformation from an aesthetics perspective. Their campus is safer, brighter, and fresher looking.

The project was financed with a low-interest energy efficiency loan, brokered by H&D Capital Partners, LLC. The project had a 23% return on investment (ROI) and a net present value (NPV) of \$82,807. The LEDs are saving the school \$24,149 annually. Retrofitting to LEDs cut their energy consumption by 73% on their lighting system.

Energy Lighting Services. Save energy. Save money.

ENVIRONMENTAL IMPACT

This energy efficiency project created a very favorable environmental impact. Not only did they save \$24,149 per year, they reduced their carbon footprint as well. The comparable metrics are as follows:



14,501 trees saved annually



48 fewer cars driven for 1 year



128 tons of carbon dioxide gas

KEY PROJECT RESULTS

Total Cost w/o Incentives	Financial Incentives	Net Cost of Project	Projected Annual Savings	Simple Payback Period	Return on Investment
\$99,639	\$0	\$99,639	\$24,149	48 months	24%
Annual Energy Use			Annual Energy Reduction		
Before Project: 250,454 kWh After Project: 68,408 kWh			73%		