

ELS CASE STUDY

ADVENTURE SCIENCE CENTER

QUICK FACTS

- **Project Name:** Adventure Science Center LED Retrofit
- **Location:** Fort Negley Blvd., Nashville, Tennessee
- **Gross Square Footage:** ~44,000



PROJECT DESCRIPTION

Adventure Science Center (ASC) is an independent, not-for-profit educational institution dedicated to igniting curiosity and inspiring the lifelong discovery of science since 1945. The Center features nearly 200 hands-on exhibits focused on biology, physics, visual perception, listening, mind, air and space, energy and earth science. Serving more than 300,000 people annually, ASC continues to be a premier attraction and learning center for visitors throughout Middle Tennessee and far beyond.

In an effort to save energy and save money, ASC contracted with Energy Lighting Services in 2014 to completely retrofit all of their lighting to LEDs. Their day-to-day lighting maintenance has all but disappeared and their energy bills are markedly lower.

Energy Lighting Services.

ENVIRONMENTAL IMPACT

This energy efficiency project created a very favorable environmental impact. Not only did they save \$46,269 per year, they reduced their carbon footprint as well. The comparable metrics are as follows:



25,796 trees saved annually



85 cars on the road for 1 year



344 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
\$169,939	\$0	\$169,939	\$46,269	44 months	28%
Annual Energy Use			Annual Energy Reduction		
Before Project: 467,607 kWh After Project: 145,989 kWh			69%		