

# ELS CASE STUDY

## MAURY REGIONAL MEDICAL CTR.

### QUICK FACTS

- **Project Name:** Maury Regional LED Retrofit
- **Location:** Trotwood Avenue, Columbia, TN
- **Gross Square Footage:** ~1,675,000



### PROJECT DESCRIPTION

Maury Regional Medical Center (MRMC) is a 255-bed facility that serves more than one quarter-million people in southern Middle Tennessee.

In 2012, the MRMC contracted with Energy Lighting Services to retrofit all of the lighting (interior and exterior) to LEDs. The project was rolled out in three phases over three consecutive years. The faculty and patients were very pleased with the transformation from an aesthetics perspective. Their campus is safer, brighter, and fresher looking. The administration and board were thrilled with the financial benefits.

ELS secured nearly half a million dollars in incentive money for the project, including a \$150,000 grant through TDEC (TN Department of Environment and Conservation). The project had a 30% return on investment (ROI) and provided an annual savings of \$473,097. Retrofitting to LEDs cut their energy consumption by 64% on their lighting system.

### ENVIRONMENTAL IMPACT

This energy efficiency project created a very favorable environmental impact. Not only did they save \$473,097 per year, they reduced their carbon footprint as well. The comparable metrics are as follows:



**1,916 acres of trees saved annually**



**428 fewer cars on the road for 1 year**



**2,231 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
<b>\$2,005,595</b>	<b>\$413,353</b>	<b>\$1,592,242</b>	<b>\$473,097</b>	<b>39 months</b>	<b>30%</b>
Annual Energy Use			Annual Energy Reduction		
<b>Before Project: 6,203,431 kWh</b> <b>After Project: 3,323,212 kWh</b>			<b>70%</b>		