



Franklin Special School District LED Lighting Upgrade

Great Things for Franklin Special

In 2016, the Franklin Special School District partnered with Excel Energy Group to perform a lighting upgrade of their 10 facilities. The project involved replacing or upgrading over 12,000 total fixtures and sensors, reducing those facilities' lighting, and maintenance costs by over **54%** --an annual savings of over

\$199,000. Before this project, FSSD spent over **\$348,000** a year on lighting and maintenance costs—now, they spend approximately **\$149,000** annually.

Excel Energy Group designs energy -efficiency upgrades to provide the best possible value for energy savings. During the audit and design of a project, our experienced development team takes note of areas that have the potential for premium options. These can include: replacement of fixtures that will potentially need replacement in the next five years; upgrading the fixture types to improve the aesthetics of an area; additional lighting controls for areas noted by the auditor.

Franklin Special School District made the great choice of approving these additional upgrades to their energy efficiency project. After the project was complete, the District now has all their fixtures in new or like-new condition. Many areas also

saw an improvement in the look of the lighting.



The Administration Annex had many existing surface mounted fixtures that were able to be replaced with a recessed troffer. From the design of these areas and the new layout, they were able to reduce the total number of fixtures while maintaining light levels. The look of the building's lighting was greatly improved, all while reducing the overall energy usage.

THE BOTTOM LINE:

Excel was able to reduce the District's electricity usage by **1,437,000** kwh annually. That means FSSD will eliminate over **1,010 tons** of carbon dioxide from the atmosphere **every year**—the equivalent of removing the emissions from burning **113,637** gallons of gasoline or **1,077,648 pounds** of coal annually.



FRANKLIN SPECIAL SCHOOL DISTRICT

Project Quick Facts:

Total Facilities:	10
Total Light Fixtures:	11,800
Total Sensors:	1,100
Total Incentives:	\$99,200
Total Cost:	\$1,375,000
Annual Savings:	\$199,000
Payback:	6.4 years

Decreased light wattage by an Average of **52%** in each area!

