



# Franklin County School District LED Lighting Upgrade

## A Look Back at the Past Project

In 2010, Franklin County School District partnered with Excel Energy Group to improve their lighting with a fluorescent project.

The existing lighting system of T12, incandescent and HID lamps were updated to the more efficient T8, T5 and Compact Fluorescent

technology. The project involved replacing or upgrading over 9,000 total fixtures and sensors, reducing those facilities' lighting and maintenance costs by over **75%**--an annual savings of over **\$207,600**.

The more than 8,800 fixtures that were upgraded include a large amount of linear T12. Some of the existing fixtures were not only upgraded to efficient technology, but were also upgraded with new fixtures to improve the appearance or distribution. The gymnasiums saw a drastic improvement with the installation of T8 fluorescent high bays. The existing fixtures were metal halide, domed high bays and upgraded to a wider fixture with reflectors that distributed the light more evenly through the gyms.



efficient lighting system were more than the annual financing payment. After each financing term, the District has been able to see the increasing amounts of savings from the upgraded system!

The District chose to finance the project with EESI funds and a private loan. By choosing to finance, the District was able to fund the project with no change to their current budget. The annual savings generated from the new, more

The total cost incurred by the District to date, including interest, is \$1,284,729 and the District has seen \$1,661,476 in savings since the installation!

### THE BOTTOM LINE:

Since the installation of the lighting Excel was able to reduce the District's electricity usage by a total of **16,752,800** kwh. That would have been to over **27,486,700 pounds** of carbon dioxide in greenhouse gas emissions—the equivalent of removing the emissions from burning **1,402,900** gallons of gasoline or **13,640,900** pounds of coal.

### FRANKLIN COUNTY SCHOOL DISTRICT

## Project Quick Facts:

Total Facilities:	15
Total Light Fixtures:	8,800
Total Sensors:	900
Total Project Cost:	\$1,375,000
Total Grant Funding:	\$128,300
Annual Savings:	\$207,600
Payback:	6.0 years

