



Lake Hamilton School District LED Lighting Upgrade

LED Upgrade for Lake Hamilton

In 2018, Lake Hamilton School District choose Excel Energy Group as the lighting contractor to update their existing lighting system with new LED technology. The projects involved replacing or upgrading over 9,100 total fixtures and sensors, reducing those facilities' lighting and maintenance costs by over **65%**—an annual savings of over **\$125,000**.



Lake Hamilton School District had mostly existing T8 fluorescent lighting. With over 7,900 fixtures being T8, Excel was still able to save the District an additional \$125,000 annually by switching all of the lighting to LED technology.

The lighting project chosen by Lake Hamilton Schools was a Premium Design, which means it includes cosmetic upgrades in addition to energy efficiency.

Areas were noted during the audit as fixtures that could use to be replaced. Some of these fixtures were replaced with similar items that kept the same look. Other areas had surface mounted fixtures that were in a recessed ceiling. Per the design of Excel, these fixtures were replaced with recessed troffers that

added a cleaner look to the classrooms and offices where they were installed.

Excel Energy Group not only provides retrofit and replacement of interior lighting but exterior lighting as well. Fixtures like wall packs, canopies and flood lights are replaced with LED lighting. Also less common items like pole lighting and flag pole floods can be replaced with LED lighting.



Lake Hamilton School District

Project Quick Facts:

Total Facilities:	23
Total Light Fixtures:	8,700
Total Sensors:	460
Total Cost:	\$794,800
Total Incentives:	\$109,000
Annual Savings:	\$125,300
Payback:	5.5 years

Decreased light
wattage by an
Average of
63% in
each area!

THE BOTTOM LINE:

Excel was able to reduce the District's electricity and gas usage by **1,040,377** kwh annually. That means Lake Hamilton will eliminate over **1,621,949 pounds** of carbon dioxide from the atmosphere **every year**—the equivalent of removing the emissions from burning **82,784** gallons of gasoline or **804,290** pounds of coal annually.

