



# Prairie Grove School District LED Lighting Upgrade

## All LED Lighting for Prairie Grove

Prairie Grove School District, in collaborative partnership with families and community, will provide a secure environment of educational excellence where all belong, all learn and all succeed.

In 2018, Prairie Grove 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 4,800 total fixtures and sensors, reducing those facilities' lighting and maintenance costs by over **65%**--an annual savings of over **\$69,200**.

Prairie Grove School District had mostly existing T8 fluorescent lighting. With over 2,600 fixtures being T8, Excel was still able to save the District an additional \$69,230 annually by switching all of the lighting to LED technology.

The lighting project chosen by Prairie Grove 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.

### THE BOTTOM LINE:

Excel was able to reduce the District's electricity and gas usage by **768,865** kwh annually. That means Prairie Grove will eliminate over **1,261,490 pounds** of carbon dioxide from the atmosphere **every year**—the equivalent of removing the emissions from burning **64,386** gallons of gasoline or **626,042** pounds of coal annually.



Prairie Grove School District

## Project Quick Facts:

Total Facilities:	9
Total Light Fixtures:	4,400
Total Sensors:	400
Total Cost:	\$416,100
Total Incentives:	\$81,900
Annual Savings:	\$69,200
Payback:	4.8 years

Decreased light  
wattage by an  
Average of  
**65% in**  
each area!

