



# Pierce City R-VI School District LED Lighting Upgrade

## All LED Lighting for Pierce City

In 2017, Pierce City R-VI 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 1,700 total fixtures and sensors, reducing those facilities' lighting and maintenance costs by over **65%**--an annual savings of over **\$27,700**.



Pierce City R-VI School District had mostly existing T8 fluorescent lighting. With over 1,500 fixtures being T8, Excel was still able to save the District an additional \$27,700 annually by switching all of the lighting to LED technology.



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

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

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

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.



Pierce City R-VI School District

### Project Quick Facts:

Total Facilities:	3
Total Light Fixtures:	1,700
Total Sensors:	180
Total Cost:	\$236,562
Annual Savings:	\$27,700
Payback:	8.5 years

Decreased light wattage by an Average of 60% in each area!

### THE BOTTOM LINE:

Excel was able to reduce the District's electricity and gas usage by **195,720** kwh annually. That means Pierce City will eliminate over **321,121 pounds** of carbon dioxide from the atmosphere **every year**—the equivalent of removing the emissions from burning **16,390** gallons of gasoline or **159,363** pounds of coal annually.

