



Sure Bet for Schools



Lighting Retrofit Project

Esmeralda County School District, Goldfield Elementary School and School District Offices

Project Description:

Esmeralda County School District converted all outdated and inefficient light fixtures to modern fixtures which provide greater light output along with energy savings at the town's elementary school and school district offices.

Contractor: Self-purchased and installed

Results/Benefits:

The district converted 396 - T12, 4-foot, fluorescent lamps to T5 lamps. Metal Halide fixtures in the gym were replaced with T5 High Bay fixtures, which provided increased light output and therefore more useable light in the gym. In addition, these replacement lights can now be turned off when not in use because there is no "re-strike" time needed. Incandescent lamps were changed to compact fluorescent lamps in 11 other fixtures. The overall reduction in energy use and money saved will help the district continue to operate all of its schools without the need for borrowing.

Project Details:

	Total
On-Peak Demand Savings	1 kW
Annual Energy Savings	27,638 kWh
Total Project Cost	\$16,138
Annual Energy Cost Savings*	\$3,040

* Assumes that the electricity rate is \$0.11/per kWh



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