



Sure Bet for Schools



Gymnasium Lighting Retrofit

Mineral County School District, Mineral County Elementary School

Project Description:

Mineral County School District converted 24 - 400 Watt High Intensity Discharge (HID) fixtures to T5 High Output 4-lamp "Big Gym" fixtures in the school gymnasium. The project will provide demand and energy reduction and aid in the district's on-going effort to save energy while improving the lighting conditions and reducing maintenance costs.

Contractor: Quality Control Systems

Results/Benefits:

This project involved converting 24 HID lamps to T5 "Big Gym High Output" fixtures with 4 lamps and electronic ballasts. The T5s with electronic ballasts provide a 48% demand savings over the HID lighting system. Furthermore, T5 lamps immediately re-strike when turned on providing the gymnasium brighter, better quality light. The T5 lamps can also be easily turned off during non-occupancy periods for additional savings. Long-term lamp replacement costs will decrease due to longer effective lamp life as a result of lower lumen depreciation rates.

Project Details:



	Total
On-Peak Demand Savings	1.33 kW
Annual Energy Savings	15,025 kWh
Total Project Cost	\$11,728
Annual Energy Cost Savings*	\$1,213

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

Note: assumes annual usage of 2820 hours