



Sure Bet for Schools



Gymnasium Lighting Retrofit

Washoe County School District, Mendive Middle School

Project Description:

Washoe County School District converted 40 - 400 Watt High Intensity Discharge fixtures to 4-lamp T5 High Output fluorescent fixtures in the middle school gymnasium. The new fixtures can also be better controlled because there is no re-strike time with the fluorescent fixtures. This allows the lights to be turned off during periods of non-occupancy for increased savings.

Contractors: Fixtures were purchased from Wedco and installed by LighTac Inc. Engineering analysis was done by Dinter Engineering

Results/Benefits:

This project involved converting 40 HID lamps to T5HO fixtures with four lamps and electronic ballasts. Data logger information provided hours of operation estimated to be 2900 hrs/yr. If the savings from this retrofit is extrapolated to the entire district (90 schools) over 2 million kWh/yr could be saved which equates to over \$273,000. Now, that is a “Sure Bet!”

Project Details:

	Total
On-Peak Demand Savings	2.23 kW
Annual Energy Savings	25,868 kWh
Total Project Cost	\$18,822
Annual Energy Cost Savings*	\$2,845

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

Notes: assumes annual usage of 3554 hours