



# Sure Bet for Schools



## Commons Area Lighting Retrofit

### Storey County School District, Virginia City High School

#### Project Description:

Storey County School District converted Metal Halide and High Pressure Sodium High Intensity Discharge light fixtures to T5 High Output 6-lamp fixtures in the school gymnasium and commons area of the High School.

*Contractor: Briggs Electric, Inc. from Irvine, CA*

#### Results/Benefits:

This project included the replacement of 25 - 400 Watt Metal Halide fixtures with High-Bay T5 High Output 6-lamp florescent fixtures in the gym. Also replaced were 14 recessed 100 Watt High Pressure Sodium lamps with 11 drop-in, 3-lamp T5HO fixtures in the Commons area. Unlike the Metal Halide fixtures, there were no energy savings as a result of the High Pressure Sodium retrofit. However, the quality of light output was improved. Motion sensors also were installed for lighting control in both areas. Lighting energy savings could be increased based upon final operation of the motion sensors. Minimum savings are assumed.

#### Project Details:

	<b>Total</b>
On-Peak Demand Savings	2.5 kW
Annual Energy Savings	5,510 kWh
Total Project Cost	\$20,469
Annual Energy Cost Savings*	\$606

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