



Sure Bet for Schools



Metal Halide and Mercury Vapor Gym Lighting Retrofits

Yerington and Dayton High Schools, Lyon County School District

Project Description:

Lyon County School District replaced 36 - T12 Very High Output 2-lamp fluorescent fixtures with more efficient T5 High Output 6-lamp High Bay fluorescent fixtures. The District also replaced 20 - 400 Watt Mercury Vapor fixtures with the same 6-lamp T5HO fluorescent fixtures.

Contractor: Wellmade T5 Fixtures and in-house labor

Results/Benefits:

As part of the retrofit project, the lighting fixtures were changed to more efficient designs and also relocated upon installation to provide better lighting coverage to areas of the gym which had previously been poorly illuminated due to lack of lighting. Because of the style of the old fixtures, a substantial amount of light was directed at the ceiling. (See picture below.) The new fixtures direct the light down at the gym floor where needed.

The Dayton High School Gym was quite dim before their Mercury Vapor lights were replaced with the new T5HO 6-lamp fixtures. The High Bay fluorescent fixtures give the gym a whole new look while providing lighting at floor level where needed.

The original scope of this project was to replace only the fixtures at the Yerington Gym, but after further review it was decided that the Dayton Gym was in need of better light fixtures as well. The project was then changed to include the evaluation, purchase, and installation of fixtures at both High School Gyms.

Project Details:

	Total
On-Peak Demand Savings	1.98
Annual Energy Savings	22,267
Total Project Cost	\$15,376
Annual Energy Cost Savings*	\$2,449

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

