



sure bet program



NEVADA SURE BET PROGRAM

Offered By: Sierra Pacific Power and Nevada Power

Administered By: KEMA, Inc.

Community College of Southern Nevada *Lighting Retrofit of West Charleston Campus*

Project Description:

The Community College of Southern Nevada (CCSN) conducted a multi-faceted lighting retrofit at their West Charleston campus. One phase of the project involved retrofitting (1,972) T12 lamps with magnetic ballasts to T8 lamps with electronic ballasts. T8s with electronic ballasts are approximately 30% more efficient than standard T12s with magnetic ballasts. Electronic ballasts increase efficiency in light output but consume less energy than magnetic ballasts. Thus CCSN de-lamped (1,176) lamps without changing the lighting level in those areas. The final measure involved the replacement of (29) incandescent bulbs with compact fluorescent lamps (CFLs). CFLs are four times as efficient as incandescent lamps and last ten times as long in many cases. For this reason, CCSN not only saved on energy use, but decreased their maintenance costs as well. David Fowler, Electrical Supervisor for CCSN, was pleased with the results of their energy saving project. “We were able to reduce our energy costs and conserve valuable resources at the same time, while improving the quality of our lighting.”



Project Results:

Demand savings	75.5 kW
Annual energy savings	314,013 kWh
Annual energy cost savings	\$28,889.24
Unit (Retrofit) Price	\$51,660.50
Prescriptive incentive	\$9,215
Simple Payback (Years)	1.47

