



Eloy Elementary School District #11

Eloy, Arizona

Energy Management & Conservation Performance Contract

APS Energy Services completed an energy retrofit for Eloy Elementary School District in Eloy, Arizona. The District was awarded an Arizona School Facilities Board (AZSFB) Energy Efficiency Implementation Grant to help fund the facility energy improvements. The District wished to solicit services and capital improvements to complete the following:

- ❖ Implement the SFB Grant
- ❖ Achieve a cost savings and assurance of that cost savings
- ❖ Maintain consistent and reasonable levels of occupant comfort
- ❖ Realize additional benefits that may directly result from energy-related services such as reduced maintenance needs and additional building improvements, etc.
- ❖ Maintain consistency with all applicable state and local codes and standards



APS Energy Services implemented the following Energy Conservation Measures:

❖ **Comprehensive Lighting System Retrofit**

A total of 896 fixtures were replaced with energy efficient components that reduce electric consumption and improve lumen output at acceptable light levels for each area/room.

❖ **Occupancy Lighting Sensors**

A total of 42 occupancy sensors were installed in two schools.

❖ **Controls Retrofit with Energy Management Controls System (EMCS) Implementation**

Installation of Direct Digital Controls (DDC) on all HVAC equipment. A networked energy management system tied to all conditioned areas provides substantial temperature control improvements. The DDC Controls directly control HVAC equipment as specified in the sequences of operations.

❖ **VendingMiser™ Controls Installation**

A total of 1 VendingMiser™ Control was installed on a soda machine



To date, the total annual energy savings for the Eloy Elementary School District project is:

- ❖ 194,175 kWh
- ❖ 309 therms

These savings translate to the following environmental benefits:



26

Passenger cars not driven for one year



16,004

Gallons of gasoline saved in one year



1

Acre of forest preserved from deforestation in one year