

## Palco Unified School District 269

Energy efficient upgrades save the district over \$86,000 a year

In February of 2011, Palco USD 269 entered into a \$2.1 million energy savings, high performance school improvement project with Trane. The project consisted of building upgrades designed to reduce the district's annual energy usage and operational expenditures while addressing deferred maintenance issues.

Upgrades at Palco USD 269 began in May, 2011, and were completed in December of the same year. \$86,000 in annual overall savings will be realized through a reduction in operational, maintenance, and utility expenditures, along with elimination of a deferred maintenance backlog.

The improvement projects were achieved by utilizing K.S.A. 75-37,125, which provides an established means to design, procure, implement, and finance high performance facility improvements with the energy, operational, and maintenance savings that result. Palco utilized Qualified Zone Academy Bonds (QZAB) to finance the majority of the improvement projects.

With the QZAB financing, they will receive 0% interest for 12 years, which will save the district \$681,000 in interest costs, in addition to the energy, operational, and maintenance savings. The total project will be paid for over a 12 year period.



Damar Junior High: Replaced old single pane windows with new vinyl thermally broken double pane insulated units. Removed old window AC units and antiquated boiler system and installed efficient HVAC system for improved comfort and indoor air quality.



### Upgrades at Palco USD 269 Included:

- Window upgrades
- High efficiency HVAC equipment upgrades
- Building automation systems installed
- Efficient lighting upgrades



**High School:** Replaced heat only unit ventilators and window AC units with new heat/cool unit ventilators.



**Junior High:** Replaced existing aluminum single pane windows with new aluminum thermally broken, double pane insulated unit. Restored to original window opening.



**High School:** Replaced single pane steel windows with new aluminum thermally broken, double pane insulated units with tinted glass. Replaced original 1954 steam unit ventilators and window AC units with new steam/chilled water unit ventilators.



**High School:** Replaced the burner on the existing boiler with a new high efficiency unit.



**High School Main Hallway:** Installed new coiling and replaced incandescent light fixtures with new T8 fluorescent fixtures.

**About Palco USD 269**  
 Palco USD 269 is home to approximately 160 students serving the communities of Palco, Zurich and Damar. The communities of Palco, Damar, and Zurich are located about 40 miles northwest of Hays, Kansas in Rooks county.  
 It is the mission of USD 269 to provide a safe environment where students can develop life skills and learn to become responsible, productive citizens.