

Executive Summary
Prepared for Board of Trustees Meeting
October 7, 2008
Energy Management Overview July 2007 – June 2008

Board Goal:

VI. Growth & Change...In pursuit of excellence, the district will:

- be environmentally responsible and aggressively pursue energy efficiency and conservation principles in building design, transportation alternatives, and operating procedures.

Purpose of Report

Discuss audit data contained in the Energy Management Overview for a one year period commencing with July of 2007 and ending June of 2008.

Objectives

- Perform ongoing analysis and benchmarking of energy and utility use at each campus and building to ensure they are operating efficiently and if not, investigate and correct deficiencies.
- Identify opportunities and capital improvements that will provide payback through more efficient operations.
- Improve the utilization of the district wide control system to provide efficient equipment schedules and temperature ranges.
- Negotiate the best possible utility rates for the campuses that fall outside the Denton Municipality and County Co-Op.

Operational Impact

Total utility savings:

- \$1,364,749 over base year
- \$382,591 over year one

Results

The intent of this report is to keep a watchful eye on all utility costs and to convey this information to the Board, District and community. The sole intent is to reduce energy consumption. Identification of these energy costs is the first big step. One disadvantage is the lag time that takes place to identify cost increases. Efforts are underway to reduce this lag time so that any possible recovery can be implemented before those costs accrue. One prime example is the reduction in energy consumption at Hawk Elementary which has shown a 50% decrease.

Other Options

Explore the redesign of future prototypes for elementary and middle schools to accommodate solar, wind and geo-thermal systems.