

Executive Summary
Prepared for Board of Trustees Meeting
March 3, 2010

Denton ISD Energy Management Program

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

The Purpose of this Report is to inform the Board of Trustees of a plan to integrate energy efficient and conservation principles into some of Denton ISD's facilities. This plan includes the following:

- 1) Provide irrigation controllers at Guyer High School for the purposes of monitoring water usage and to afford a more user friendly system for staff.
- 2) Continue to improve and upgrade the District's Energy Management System through HVAC (heating, ventilating and air conditioning) controls upgrades.
- 3) Continue with the replacement of inefficient light fixtures; replacing many T12 fixtures with T8 fixtures and reflectors. This installation provides more light with less energy.
- 4) Provide occupancy sensors and timer switches within existing facilities. These devices allow the lights to be turned off automatically when the space is not in use.
- 5) Upgrade emergency lighting fixtures to maintain a safe environment for students and staff.

Objectives

- Provide the District with a means to monitor water consumption on a real time basis and adjust schedules as needed for a more efficient use of resources.
- Integrate high performance or green technologies within existing District facilities.
- Continue to address and meet state mandated goals for energy reduction.
- Provide safe learning environments for students, staff and public.

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Operational Impact

Scope: Smart Controls – irrigation system at Guyer High School

Cost: \$107,908.00

Schedule: The work will be completed by August 1, 2010

Scope: HVAC Control upgrades at Denton & Ryan High School

Cost: \$43,299.00

Schedule: The work will be completed by August 1, 2010

Scope: Lighting Retrofits, Occupancy Sensor / Switches & Emergency Fixtures

Cost: \$1,169,461.00

Schedule: The work will be completed by August 1, 2010

Note:

Funding for these projects can be taken from remaining Phase I projects that have been closed out. Work will take place during the evenings and over spring break.

Results

These proposals are to provide the Board of Trustees with a comprehensive plan to reduce energy consumption over time and offer safe and secure learning environments for students, staff and public. Continually, these actions aid in the monitoring of District assets to ensure the most efficient use of public resources.

Other Options

No other options are available at this time.