

Utility Management Report

Year Five of Program

Annual Report

July 2010 – June 2011



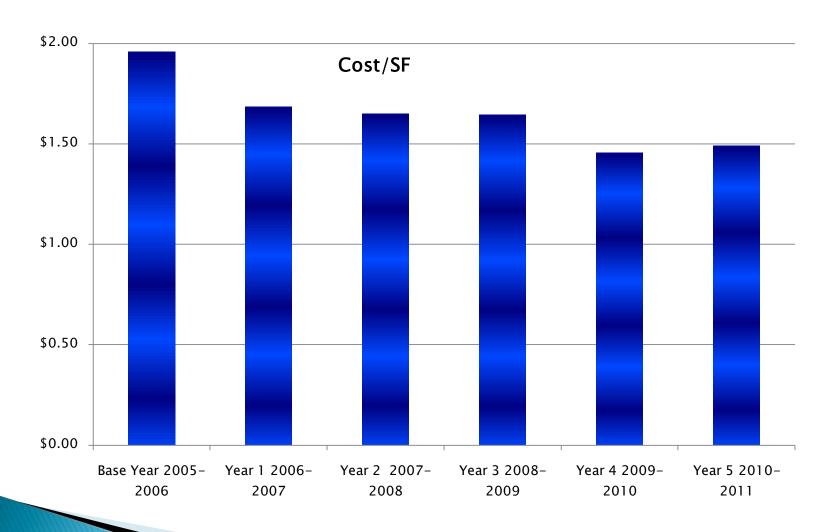
Accomplishments in Year 5

- Conducted monthly on-site analysis of utility data to identify areas of concern followed by immediate investigation and/or corrective action resulting in cost savings.
- Continued discipline to tightly manage HVAC Systems through the EMS systems.
- Avoided over \$70K (+1%) in utility cost for summer school due to Friday closings
- Completed Implementation of Intelligent Irrigation Control on twelve campuses.

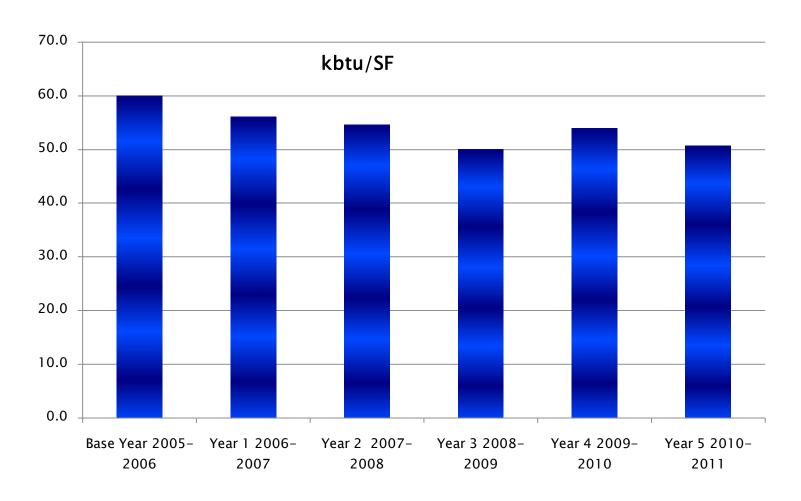
Summary of Utility Cost and Usage (July 2010 – June 2011)

Utility	Base Year 2005-2006	Year 1 2006-2007	Year 2 2007-2008	Year 3 2008-2009	Year 4 2009-2010	Year 5 2010-2011
Total Utility Cost	\$6,957,534	\$6,594,207	\$6,594,647	\$7,172,309	\$6,616,897	\$6,993,558
Total Energy Mbtu	213,131	219,700	218,224	218,121	245,065	237,958
Total District SqFt	3,553,417	3,916,124	3,996,458	4,357,383	4,545,055	4,693,677
Total Cost/SqFt	\$1.96	\$1.68	\$1.65	\$1.65	\$1.46	\$1.49
Energy Use Index kBtu/SF	60.0	56.1	54.6	50.1	53.9	50.7

Utility Cost Comparison (July 2010 – June 2011)



Energy Use Comparison (July 2010 – June 2011)



Total Cost Comparison By Utility (July 2010 – June 2011)

	Year 4	Year 5	0/ -1	e Cost Change Y4 to Y5	
Category	2009-2010	2010-2011	% change Y4 to Y5		
Electric	\$4,498,751	\$4,685,142	4.1%	\$186,391	
Gas	\$566,112	\$488,494	-13.7%	-\$77,618	
Water	\$895,387	\$1,097,105	22.5%	\$201,718	
Refuse	\$656,647	\$722,817	10.1%	\$66,170	
TOTAL	\$6,616,897	\$6,993,558	5.7%	\$376,661	

Summary of Utility Costs and Consumption

Energy Consumption (Electricity and Gas):

- 7 facilities saw an overall increase in consumption
- 32 facilities saw a decrease in overall consumption

Water Consumption:

- 27 facilities saw an overall increase in water consumption
- 12 facilities saw an overall decrease in consumption

Utility Cost:

- 26 facilities saw an overall increase in cost
- •13 facilities saw an overall decrease in cost

Analysis by Utility Type

Electricity:

- Unit cost (rate) increased 2.9%
- Consumption increased by 1.2%
- 19.9% more cooling degree days significant
- Increase SF of 148,622 with Gonzalez and Cross Oaks additions
- Net increase in dollars of \$186,391

Natural Gas:

- •Unit cost (rate) decreased by 2.8%
- Consumption decreased by 11.2%
- •26.7% less heating degree days significant
- Net decrease in dollars of \$77,618

Analysis by Utility Type

Water:

- Unit cost (rate) decreased 0.4%
- Consumption increased 23.0%
- Rainfall decreased by 4.6% / down 1.76 inches
- Net increase in dollars of \$201,718

Refuse:

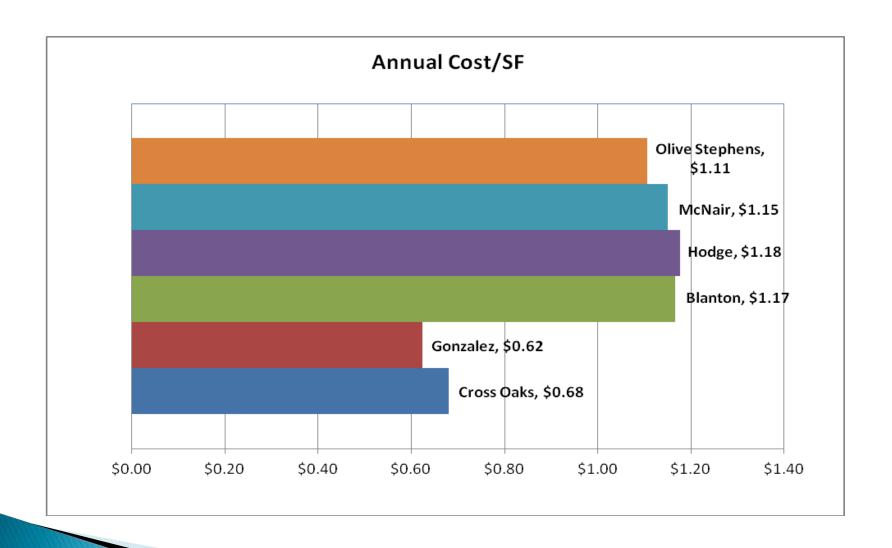
Net increase in dollars of \$66,170

Accomplishments through first 5 Years

- ECONOMIC IMPACT
 - Over \$6.6 million in savings in 5 year program based on Base Year SF.

- ENVIRONMENTAL IMPACT
 - 6602 TONS Reduction of CO2
 - 1250 acres of trees planted
 - 1100 cars removed from the road

Geothermal / Traditional HVAC Cost Comparison



Looking Forward.....

- Continue to tightly manage building operation through the use of information and the EMS/Control System
 - Over 5,000 Pieces of HVAC Equipment
 - Over ~ 1000 Individual Points / Zones of Irrigation Control
- Phase III Opportunities
 - Exterior Lighting Retrofit Wall Pack Lights
 - Intelligent Irrigation Control 12 School Sites
 - HVAC Retrofit Guyer Coaches Office
 - *Selective Replacement of Large Boilers / Hot Water Heaters*
 - Some of these submitted to SECO Cool Schools Grant Program

\$125,000 / \$139,000 Estimated Annual Savings Thank You / Q&A.....

 We Appreciate the Opportunity to be Part of the Denton ISD Team