Henderson County Public Schools

FY2011 Building Energy Use District-Wide Summary

November 21, 2011 Darrel Pfingston, PE, CEM



District Building Energy Use & Cost FY 2011

Utility	Use	Unit	Cost	% Cost of Total
Propane	16,000	gallons	\$ 33,000	2.5
Gas	273,000	ccf	\$198,000	15.0
Electricity	14,825,000	kwh	\$1,087,000	82.5
Total			\$1,318,000	100.0



Annualized District Building Energy Cost per Student

School District FY 2011	Number of Students	Total Cost	Cost per Student	Increase over State Average
Henderson	7215	\$1,318,000	183	-9%
Kentucky– All	675,000	\$ 136 million *	201 *	

^{*}Preliminary Data. Final Data to be issued December, 2011.



District Building Energy Unit Prices

Commodity	Unit Quantity	Henderson Unit Price FY 2011	State Average Unit Price FY 2011 *	% Increase over State Average
Propane	\$/gallon	2.06	1.62	+27
Natural Gas	\$/ccf	0.72	0.91	-18
Electricity	Cents/kWh	7.3	8.9	-18



^{*}Preliminary Data. Final Data to be issued December, 2011.

Observations

- District Building Energy Cost is 9% <u>less</u> than Kentucky Schools' Average for FY 2012. (per Student basis)
- District Natural Gas Pricing is 18% <u>less</u> than Kentucky Schools' Average for 2012.
- District Electrical Pricing is 18% <u>less</u> than Kentucky Schools' Average for 2012.
- Total Cost & Unit Pricing Data Suggest that an "Internal" Opportunity Exists for further Reduction of Energy Costs



2012 Strategy for Improvement

- Exploit "Internal" Opportunity for further Reduction of Energy Costs
- Use the following Specific enablers:
 - "Friendly" competition among schools to drive an increase of Principals'
 Awareness
 - Energy Awareness Day Activities, Energy Management Symposia, & Student Teams to drive an increase of Students' & Instructors' Awareness
 - Consider more aggressive Requirements for District Energy Management
 Plan

