Energy Savings Program

Montgomery County Schools

November 2008 – October 2009

Goal

- Reduce energy consumption and expenditures without compromising safety or comfort.

Energy Savings Program

- 3-Year Program
- Began November 2008
- People-oriented
- Uses proven energy conservation strategies and technologies
- Establishes accountability
- Provides local leadership

What Has Been Done?

- Energy conservation policy, guidelines, and strategies have been adopted.
- The energy manager has been trained.
- Buildings are being audited regularly.
- Tracking software is in place.
- Awareness training is ongoing.

Results – Actual Utility Costs

Base Year	$1,059,000	
Year One	$ 861,000	
Savings	**$ 198,000**	
Credits	$ 4,600	
Total Savings	**$ 202,600**	**19%**



Electricity Use

Base Year: 7,293,600 KWH

Year One: 5,629,400 KWH **- 23%**

Total decreased consumption: 1,664,200 KWH

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Natural Gas Use

Base Year: 11,200 CCF

Year One: 9,100 CCF **- 19%**

Total decreased consumption:

2,100 CCF

Heating Oil Use

Base Year:	62,400 Gallons	
Year One:	56,400 Gallons	**- 10%**

Total decreased consumption:

6,000 Gallons

Propane Use

Base Year: 9,900 Gallons

Year One: 13,100 Gallons **+ 32%**

Total increased consumption:

3,200 Gallons

Environmental Impact

- Reduction in Carbon Dioxide Gases: **2,615,000 lbs.**
- Equivalent to taking **174 cars** off the road or planting **357 acres of trees.**

Water Use

Base Year: 11,200,000 Gallons

Year One: 8,500,000 Gallons **- 24%**

Total decreased consumption:

2,700,000 Gallons

Sewer Use

Base Year: 9,200,000 Gallons

Year One: 6,600,000 Gallons **- 28%**

Total decreased consumption:

2,600,000 Gallons

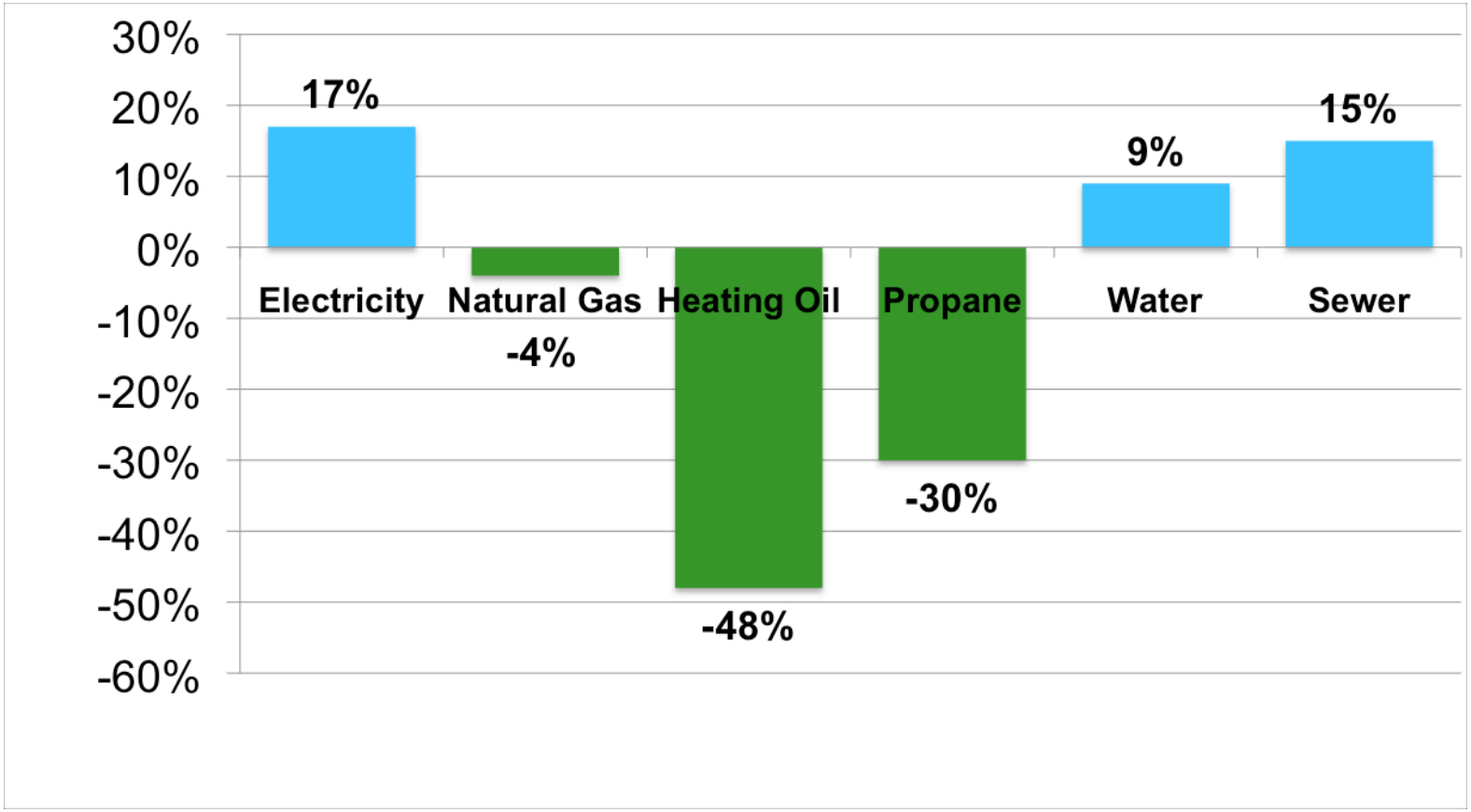
Results: Cost Per Sq Ft

Base Year	$1.55	
Year One	$1.26	
Decrease	**$0.29**	**- 19%**

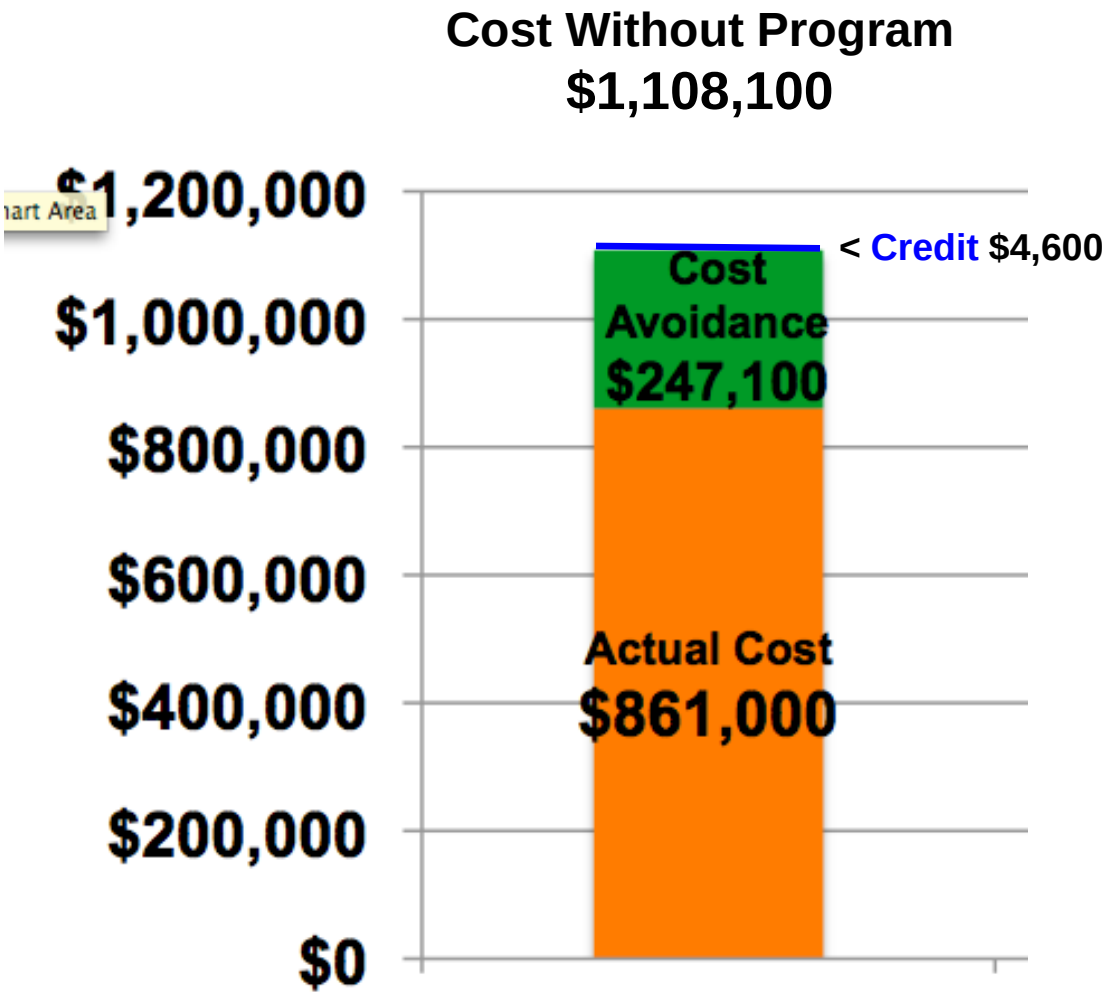
Results: kBtu Usage Per Sq Ft

Base Year	52.2	
Year One	42.8	
Decrease	**9.4**	**- 18%**

Utility Rate Changes



Program Cost Benefits



Savings/Cost Avoidance

Year One

$ 251,700

23%

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Looking Ahead

- Rate increases will continue.
- Conservation will be even more important.
- Strategies:
  - Continue monitoring.
  - Reduce HVAC run times when practical.
  - Encourage care in use of overrides.
  - Encourage Energy Star Certification of Schools.