



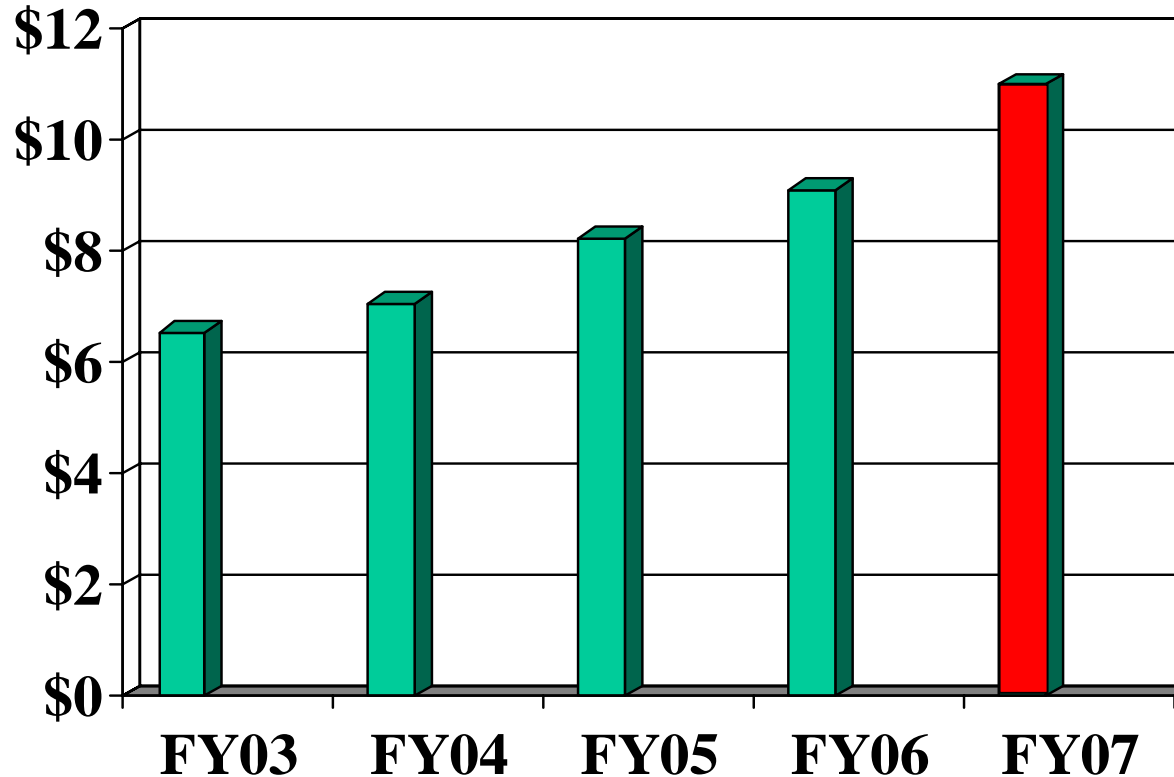
ENERGY CONSERVATION

SAVE FIVE (5%)

Alem Zewoldai (Energy Specialist)

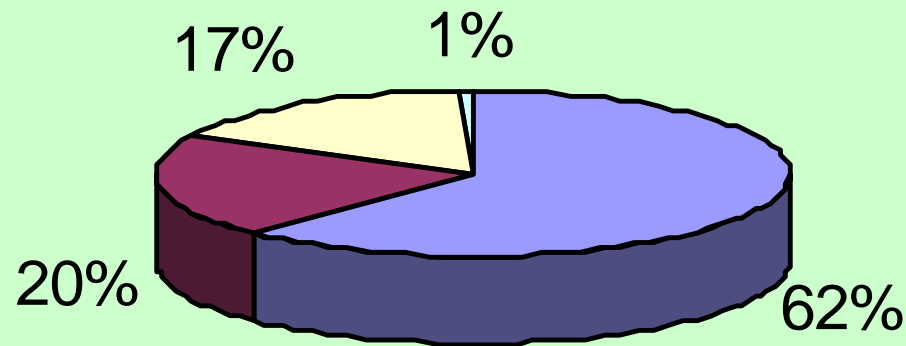
HISTORICAL ENERGY COST

Millions



- Energy cost increases exponentially

ENERGY COST BY TYPE



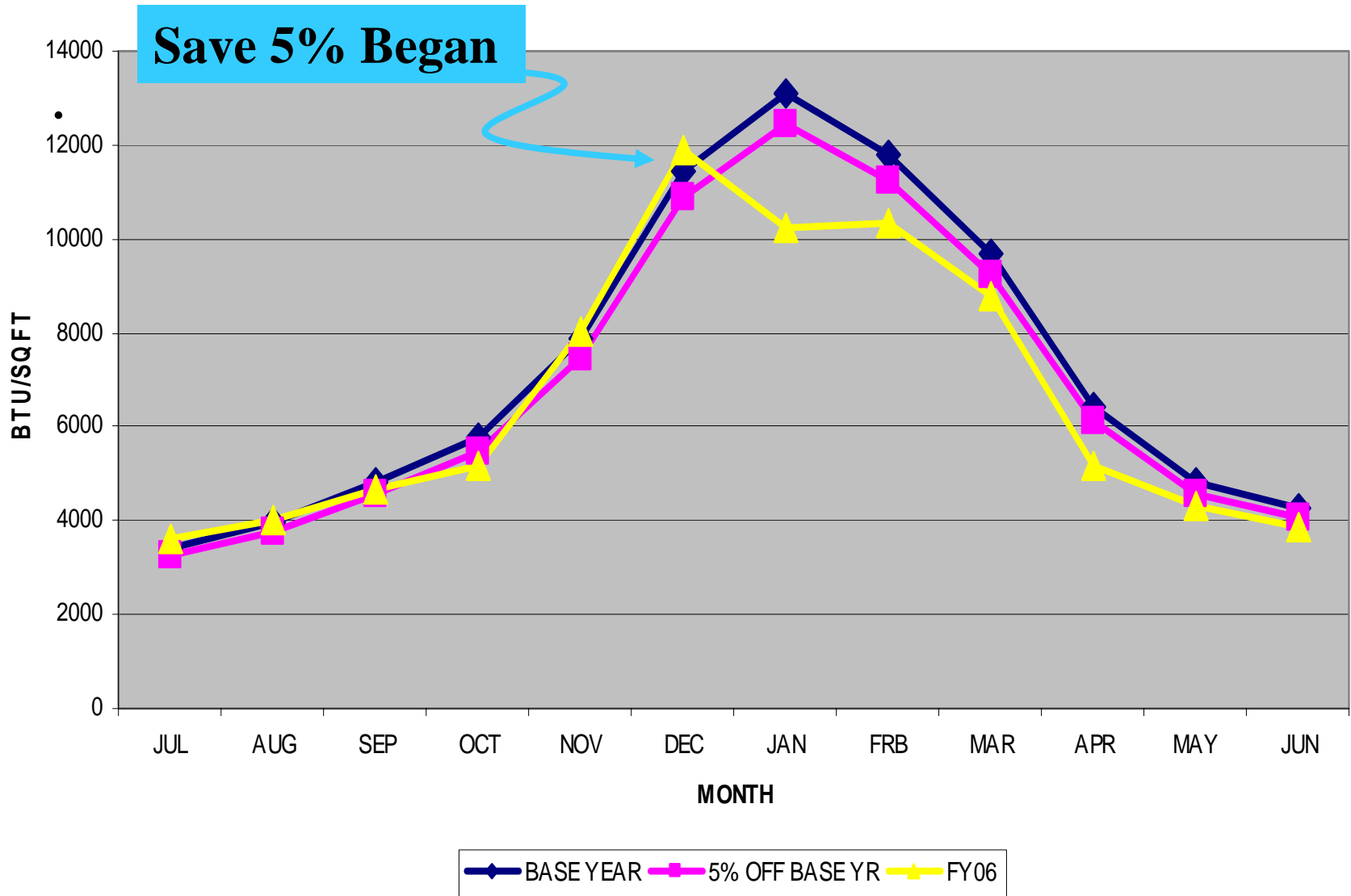
■ ELECTRIC

■ NATURAL_GAS

■ FUEL OIL #2

■ PROPANE

FY06 ENERGY USAGE



TOTAL ENERGY SAVINGS

Save 5% Success!

ENERGY SAVINGS

GOAL (5% SAVINGS) = 26,190,140 KBTU's

ACTUAL (8.5%) = 44,523,238 KBTU's

- Equal to total energy consumption of CHS, LHS, MHS

COST SAVINGS

GOAL (5% SAVINGS) = \$513,217

ACTUAL = **\$870,769**

- **Remained under budget; avoided possible \$2M overage**

Note: 2005 was 13th warmest year on record since 1895

Simple Saving Tips

LIGHTING (Typically 28% of our electric cost)

- Turn off lights in closets and storage areas when not in use
- Turn off lights in mechanical areas when not in use.
- Turn off classroom lights when not needed (consider desk lamps)
- Turn off lights and equipment in portable classrooms when not needed

COMPUTERS

- Turn off all computers that are not required to be on 24 hours a day
- Turn off all printers and copiers before leaving the school.

HEATING AND AIR-CONDITIONING

- Check for obstruction in front of ventilation units
- Report all equipment that is not working properly.
- Check all thermostats setting. (68 to 72 degrees)
- Close all windows and doors when heat or A/C is on

AVOID ENERGY HOGS (AND SAFETY HAZARDS)

- Personal space heaters are wasteful and fire hazards.
- Compact, personal refrigerators are not energy efficient



ENERGY CONSERVATION AWARDS

CATEGORY	CONTEST	THEME	SELECTION PROCESS	AWARDS COMMITTEE	DUE DATE	PRIZE
Elementary Schools	Poster (No larger than standard poster board; 22 x 28 inches)	<i>What can I do to save energy? or Why is saving energy so important?</i>	1) Students, or groups of students, submit to their school Principal; 2) Principal selects one finalist and forwards to Awards Committee; 3) Awards Committee selects one winner.	Communication Services (Media Arts). Contact: José Rosapepe (ext: 4-5018)	November 22, 2006	\$500
Middle Schools	Multi-media (Videos no longer than 60 seconds; PowerPoint no more than 4 slides)	Public Service Announcement (or "commercial") advocating energy conservation in schools	1) Students, or groups of students, submit to their school Principal; 2) Principal selects one finalist and forwards to Awards Committee; 3) Awards Committee selects one winner.	Communications Services (Television). Contact: Tim Dean (ext: 4-5016)	December 21, 2006	\$500
High Schools	Frederick County Engineering and Science Fair	Any energy-related theme.	As defined by the Fair. The award will be given to the project that receives the highest recognition at the Fair. In the event of a tie, the award money shall be divided equally among the projects.	As defined by Frederick County Engineering and Science Fair. Contact: Stacey Adamiak (ext: 4-5259)	As defined by Fair guidelines.	\$500
Energy Emissary	One page memo. Written summary of the actions taken by their Energy Emissaries to promote energy conservation.	Overall ability and effectiveness in bringing about an awareness of energy conservation in their facility.	The school principal or building administrator submit the summary to the Awards Committee.	Facility Services. Contact: Alem Zewoldai (ext: 4-5173)	March 30, 2007	\$500

Notes: For general questions, contact Bob Wilkinson (robert.wilkinson@fcps.org). Both individuals and groups may submit a single contest entry. Awards monies will be given to the school or facility from which the winning contest entry originates – and not to the individual or group that generated the submittal. The principal, or building administrator, will work collaboratively with the winning individual or group from their respective facility to decide how to spend the monies in the best interest of their facility. Award monies provided by MEA.

PLEASE CALL ME FOR HELP!

- Energy walk-through of your facility
- Help you identify energy waste
- Get feedback on the actions taken
- Questions about your energy consumption
- Willing to meet with your energy team at your location