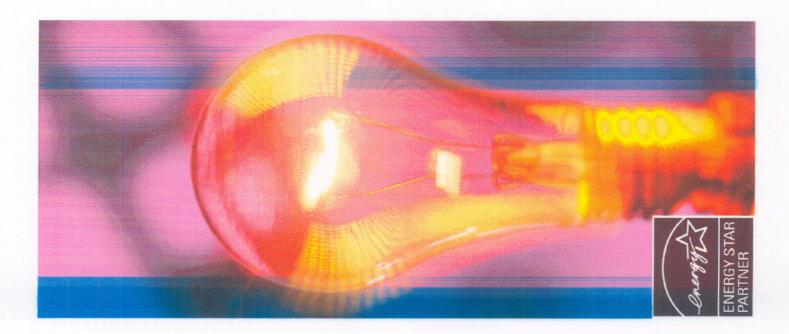
BOARD OF EDUCATION BEEVILLE INDEPENDENT SCHOOL DISTRICT

Agenda Item No		Date:	June 20, 2006
Subject:	Discussion and possible action to Energy Management Program		Submitted by: Brad Norvell Related Pages: 10
			Supt's Approval:
INFORMATION			
BACKGROUND INFORMATION:			
Brad Norvell has administered the Energy Management Program since August 2005. Brad will provide an update this evening on this project.			
ITEMS ADDRESSED:			
6 Month update on Energy Program			
RECOMMENDED ACTION: None			
None			
BUDGETARY INFORMATION:			

None



Beeville ISD Energy Update

6-Month Report September 2005 – February 2006

Primary Goals Energy Management Program

- Maintain Comfort & Safety in Occupied Areas
 - Coordinate usage of facilities and monitor operational efficiency of equipment vs. design.
- Eliminate Energy Waste
 - Audit buildings during unoccupied times.
 - Monitor building usage during occupied times
 - Track & analyze consumption for building efficiency
 - Use web-based tools & diagnostic loggers to track waste
 - Maintain energy policy and guidelines
- Save Dollars
 - Minimize consumption and demand charges
 - Evaluate usage trends for abnormalities



Comparing Apples to Apples...

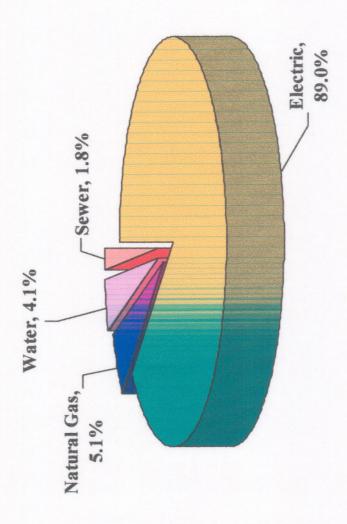
In order to make a valid comparison between <u>consumption</u> in the Base Year and <u>consumption</u> in a Savings Year certain criteria must be taken into account.

- Changes in Weather
- Changes in Building Square Footage
- Differences in the length of the Billing Periods
- Special Adjustments (changes in equipment or programs)

The accounting program adjusts the Base Year <u>consumption</u> to reflect these changes and an Apples to Apples comparison is achieved.

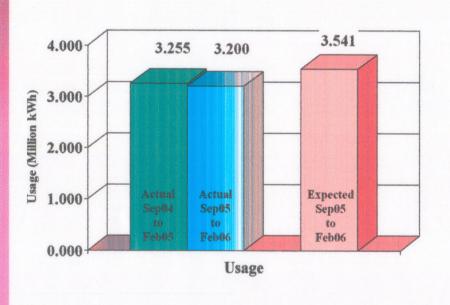


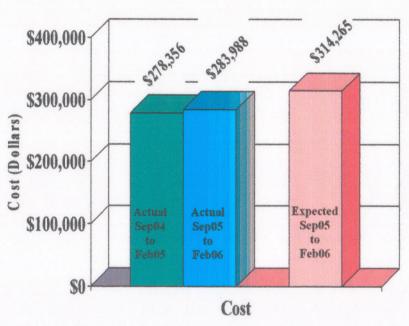
Total Utility Cost Distribution (Year 1 – 6 Months)





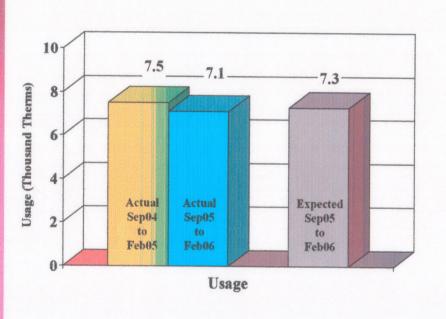
Electric Utility Comparison (Year 1 – 6 Months)

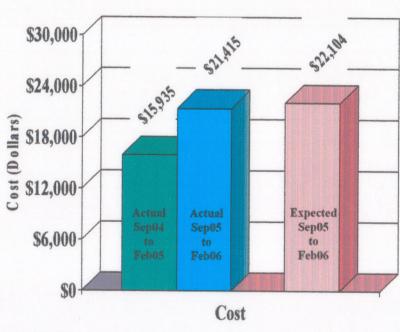




- Average Unit Cost Increased 3.8%
- Total Avoided Use = 341,160 kWh
- Expected Cost minus Actual Cost = \$30,277

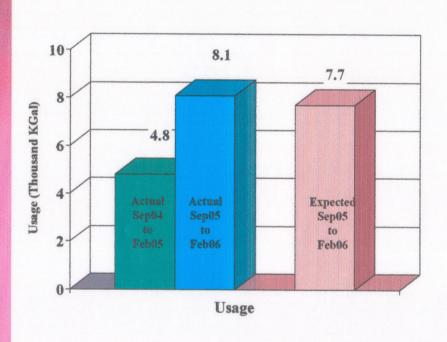
Natural Gas Utility Comparison (Year 1 – 6 Months)

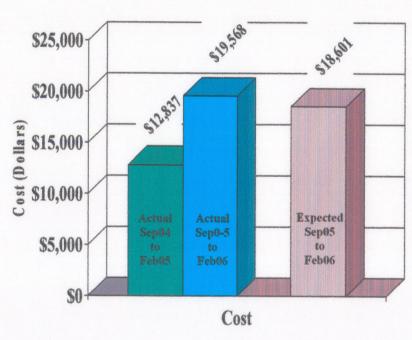




- Average Unit Cost Increased 42.8%
- Total Avoided Use = 228 Therms
- Expected Cost minus Actual Cost = \$690

Water Utility Comparison (Year 1 – 6 Months)



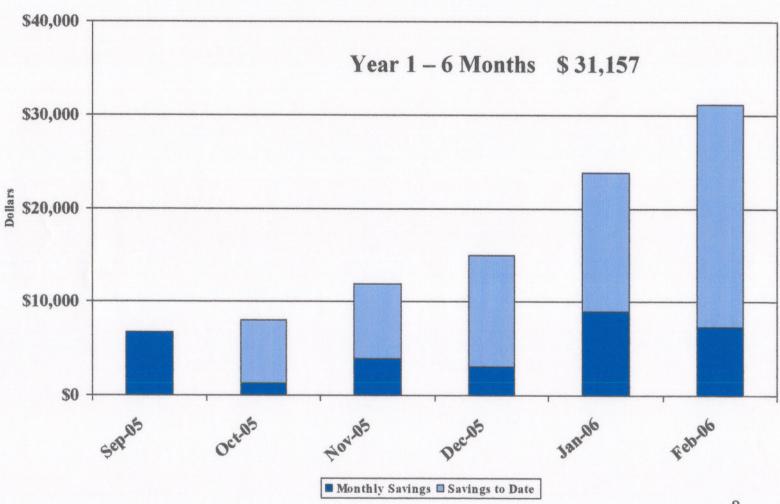




- Total Avoided Use = 400 KGal Increase
- Expected Cost minus Actual Coat = \$967 Increase
- Sewer Costs Dropped \$1,160



Monthly/Total Cost Avoidance (Year 1 – 6 Months)





Environmental Benefits

The EPA estimates that every kilowatt-hour (kWh) of avoided electricity use prevents the emission of the following:

- 1.5 pounds of carbon dioxide
- 5.8 grams of sulfur dioxide
- 2.5 grams of nitrogen oxides.

Our District has saved over 340,000 kWh in a 6 month period. These savings are equal to:

512,000 pounds of carbon dioxide emissions being prevented, or

48 automobiles being removed from the highways annually, or

99 acres of trees being planted.



Into the Future...

- Continue to Communicate Educate Motivate!!
- Monitor and Manage Energy consumption for renovations and additions
- Continue to evaluate additional energy saving opportunities

