Administration

Berney

Blue Ridge

Edison

Green Park

Prospect Point

Sharpstein

Garrison

Paine

Pioneer

Walla Walla High School

Support Services

ENERGY MANAGEMENT PROGRAM: YEAR 10

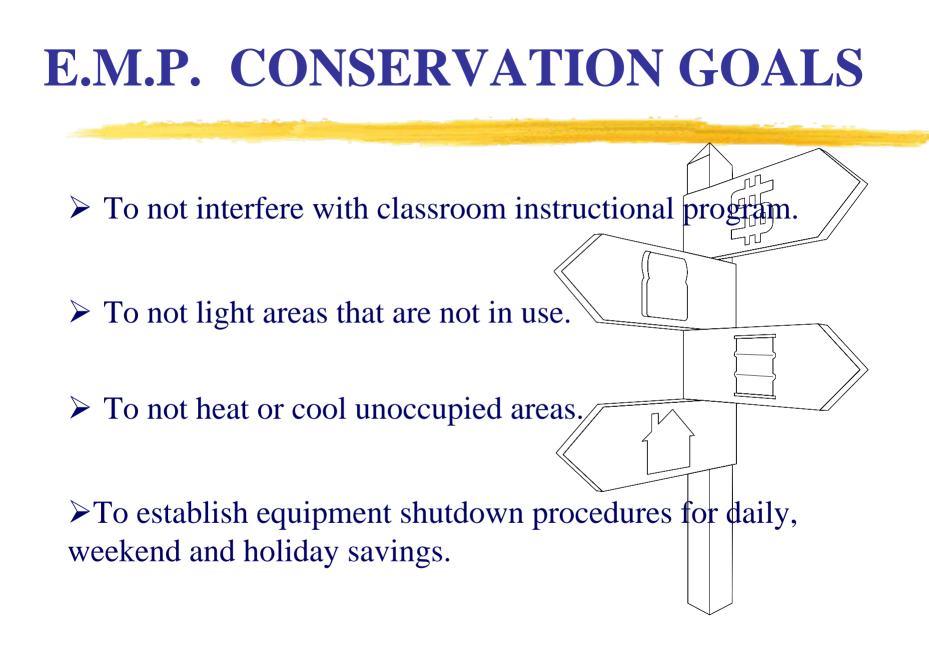
ALLA WALLA UBLIC SCHOOLS

WWPS

The Purpose: To avoid wasting utilities in order to save money to be used for instructional and facility needs.

>ENERGY REPORT Background Information:

- ➤Contract awarded to EEI by Board action June 1999
- Energy Program Start Date –
 October 1999
- ➢ Base Period October 1998 to September 1999
- ➤Year 1 Reporting Period October 1999 to September 2000
- Year 5 Reporting Period October 2005 to September 2006 No longer under contract to Energy Education Inc.
- ➤Year 10 Reporting Period October 2008 to September 2009



Three Phases of Program

I) Management

II) Education

III) Accounting

Phase I - Management

We know that:

Energy efficiency is brought about by conservation strategies and technologies.

> People determine and control the use of energy.

> The positive spirit and accountability of all the school district employees contribute to the success of the program!

What is My Role as an Energy Manager?

Follow the training, experience, guidelines and advice of Energy Education Inc..

>Audit Utility Meters/Bills and District Buildings on a regular basis.

>Implement energy saving programs and set up guidelines and procedures for each building.

≻Help save energy and money for the Walla Walla School District.

Phase II - Education

Establish an :

"Energy Ethic" with each Teacher, Employee and Administrator.

Energy Education and Conservation in the Classroom.

Phase III – ACCOUNTING To Determine Cost Avoidance

Automated Logic and Energy CAP computer software is used for energy control and accounting.

ACCOUNTING PROCESS:

Begins with usage during the base period.

Utilities Tracked:

Adjusts For:

- Temperature changes
- Billing period lengths
- Special adjustments
- Develops adjusted baseline.
- Applies current utility costs.
- Building size changes

Electricity Gas e. ts.

Water/Sewer

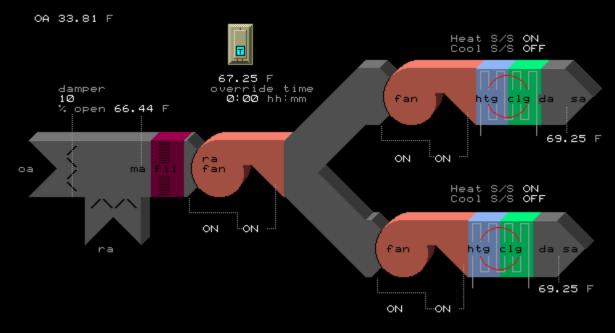
AUTOMATED LOGIC



mm

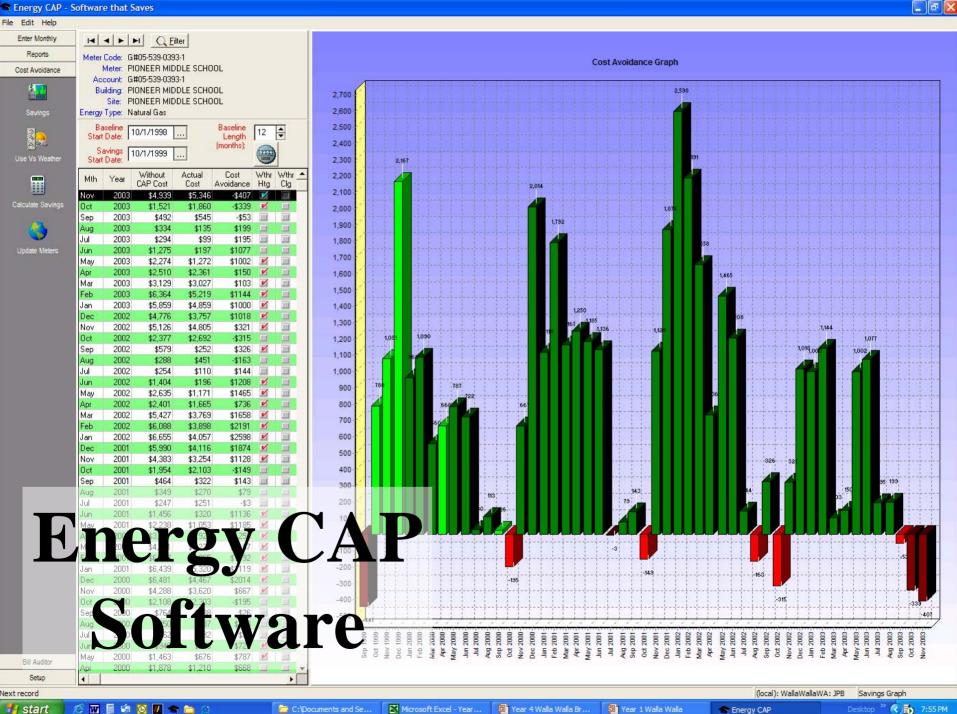


AUTOMATED LOGIC





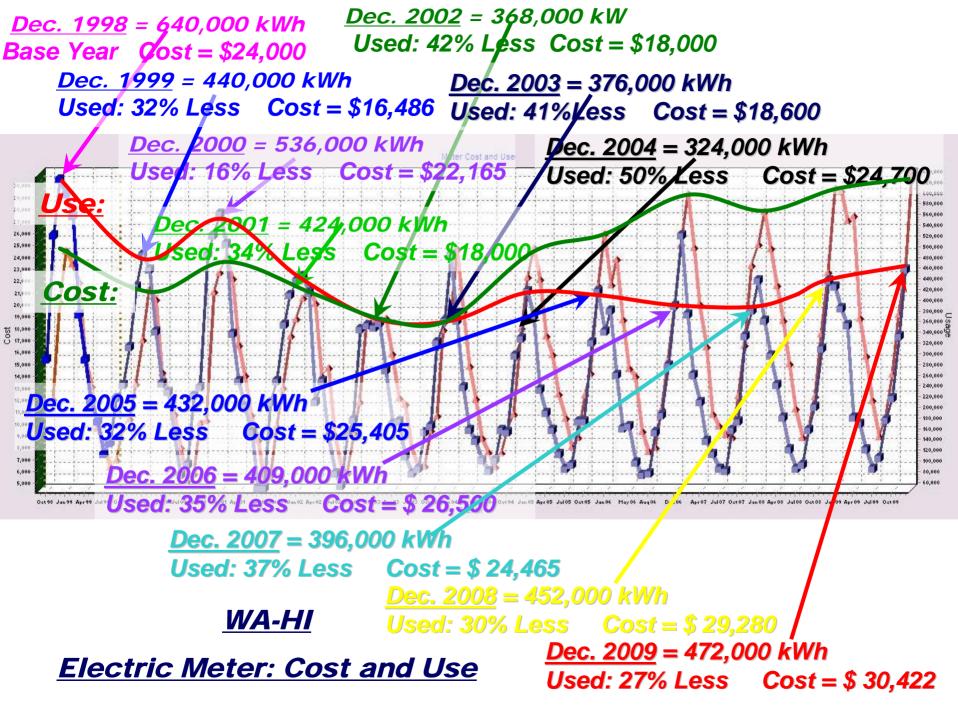
Heat Source



🛃 start

9 Year 1 Walla Walla

Desktop 🎽 🔇 🔂 7:55 PM



CHANGES IN THE DISTRICT "AFFECTING UTILITY CONSUMPTION"

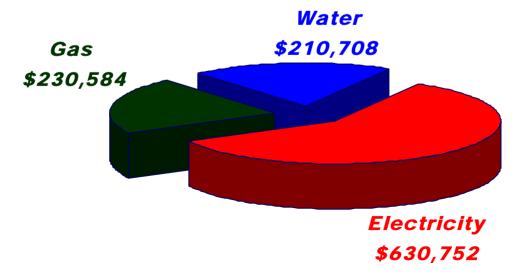
CHANGES:

- **Increased Technology**
- **Increased Building Usage/Square Footage**
- **Repair/Maintenance of Existing HVAC Equipment**

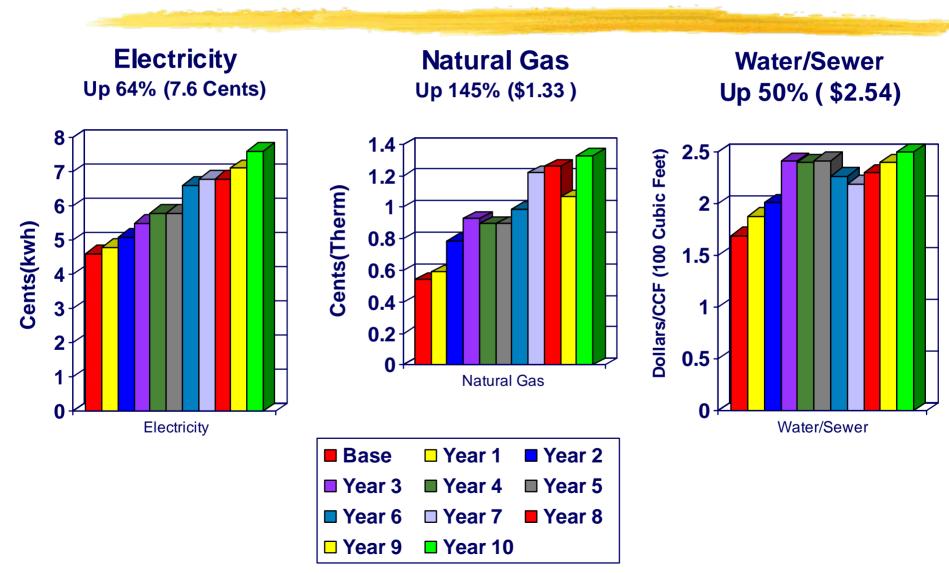
Overall Utility Costs

Reporting Period – October 2008 to September 2009

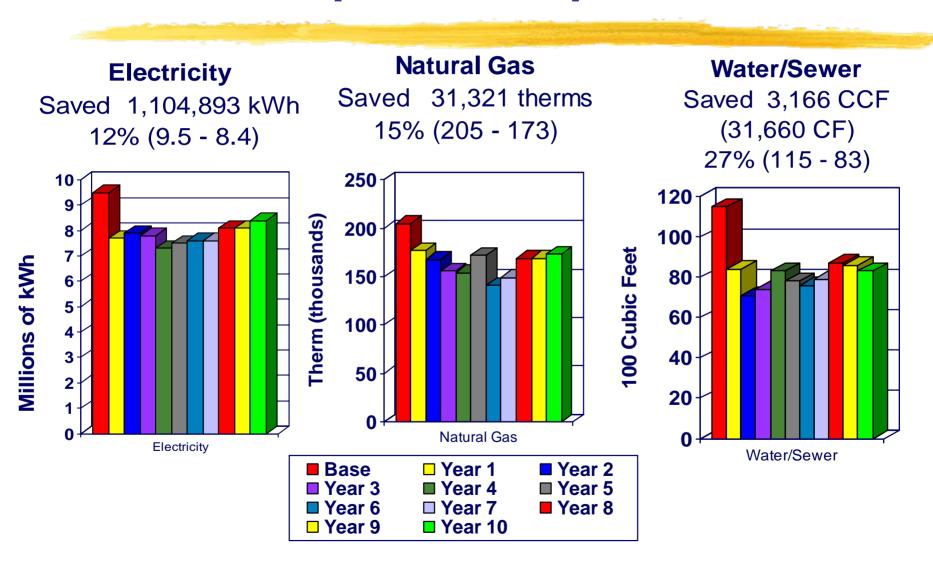
Base Year Costs:	<u>\$748,288</u>	
<u>Year 6 Costs: \$812,237</u>	Year 1 Costs:	<u>\$645,033</u>
<u>Year 7 Costs: \$881,543</u>	Year 2 Costs:	<u>\$681,280</u>
<u>Year 8 Costs: \$967,473</u>	Year 3 Costs:	<u>\$749,180</u>
<u>Year 9 Costs: \$962,116</u>	Year 4 Costs:	<u>\$767,412</u>
Year 10 Costs: \$1,072,046	Year 5 Costs:	<u>\$781,437</u>



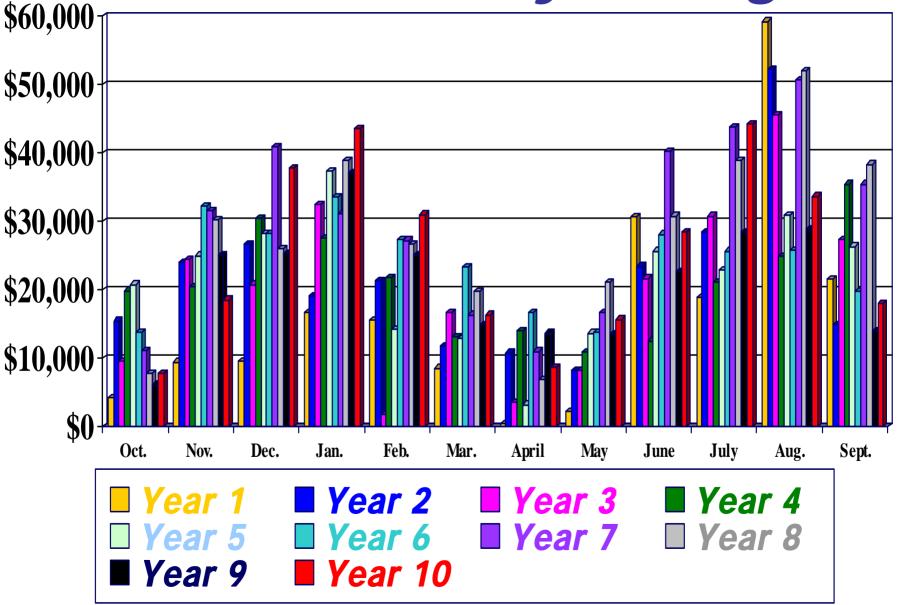
Walla Walla Public School System Utility Rate Comparison

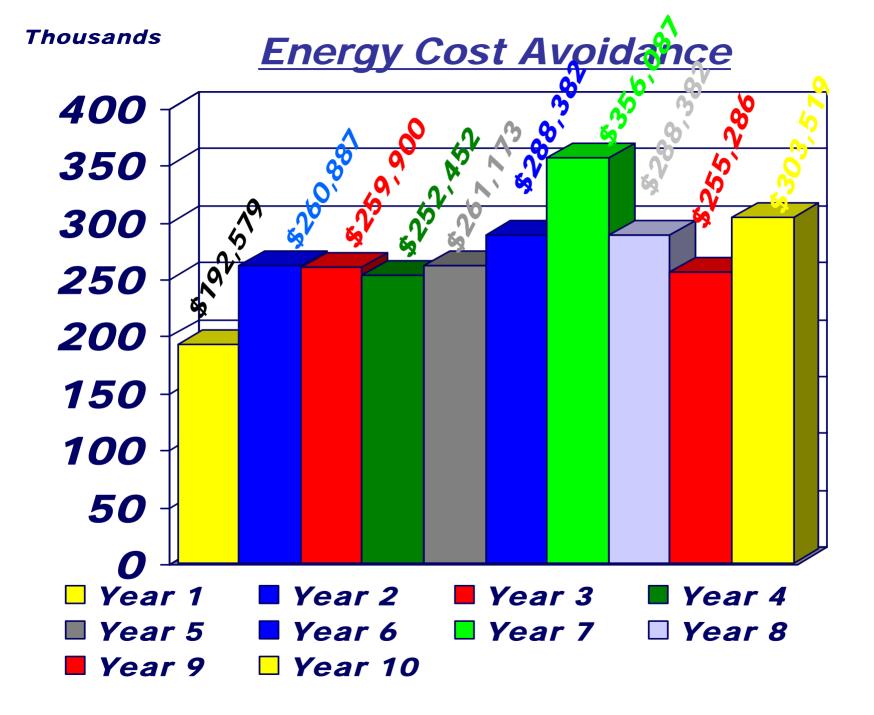


Walla Walla Public School System Consumption Comparison



Actual Monthly Savings





SUMMARY (Year 10) October 2008 - September 2009

Anticipated Costs Without Energy Program

Actual Base Year Costs	\$ 746,854
Rate Changes (Increase)	\$ 526,626
Weather (Harsher)	\$ 79,443
Technology/Utility Load Increase	\$ 24,754
Billing Period Change (4 days less)	\$ -13,968
Refunds and Rebates	\$ 11,856
Total Anticipated Energy Cost	\$ 1,375,565
Actual Year 10 Costs	<u>\$1,072,046</u>

Total Cost Avoidance from Energy Reduction





Energy Star Ratings Walla Walla School District

Ruilding	Date	Dating	
Building Scale: 1-100 Larger the number	er the Greater Energy Efficiency	Rating	
Scale. 1-100 Larger the number the Oreater Energy Enterency			
BE - BERNEY ELEMENTARY	02/24/2010	84	
BR - BLUE RIDGE ELEMENTARY	02/24/2010	64	
EE- OLD EDISON	02/24/2010	65	
GP - GREEN PARK	02/24/2010	87	
PP - PROSPECT POINT	02/24/2010	64	
SE – SHARPSTEIN	02/24/2010	81	
WH - WALLA WALLA HIGH SCHOOL	02/24/2010	27	
GMS - GARRISON MIDDLE SCHOOL	02/24/2010	90	
PMS - PIONEER MIDDLE SCHOOL	02/24/2010	58	
LIN - LINCOLN CAMPUS	02/24/2010	79	