Administration

Berney

Blue Ridge

Edison

Green Park

Prospect Point

Sharpstein

Garrison

Paine

Pioneer

Walla Walla High School

Support Services

ENERGY MANAGEMENT PROGRAM: YEAR 9

ALLA WALLA UBLIC SCHOOLS

WWPS

The Purpose: 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 9 Reporting Period October 2007 to September 2008

E.M.P. CONSERVATION GOALS

Π

- To not interfere with classroom instructional program.
- To not light areas that are not in use.
- To not heat or cool unoccupied areas.

➤To establish and practice equipment shutdown procedures for daily, weekend and holiday savings.

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 Walla Walla School District Employees will 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

The district uses Automated Logic and Energy CAP computer software 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

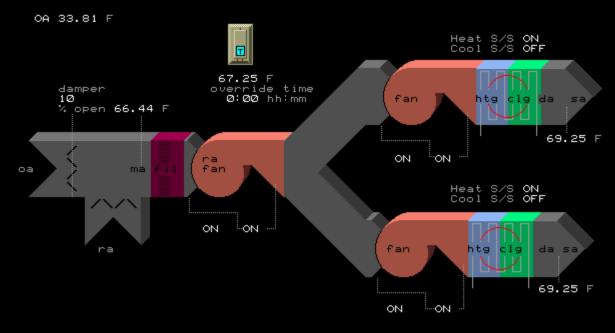
AUTOMATED LOGIC



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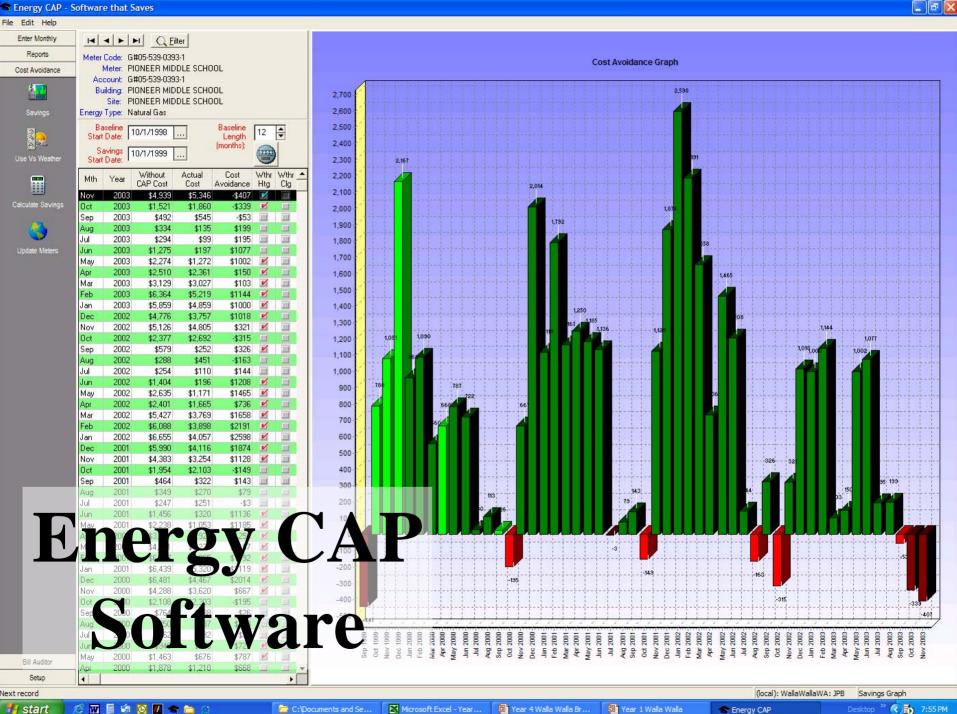


AUTOMATED LOGIC





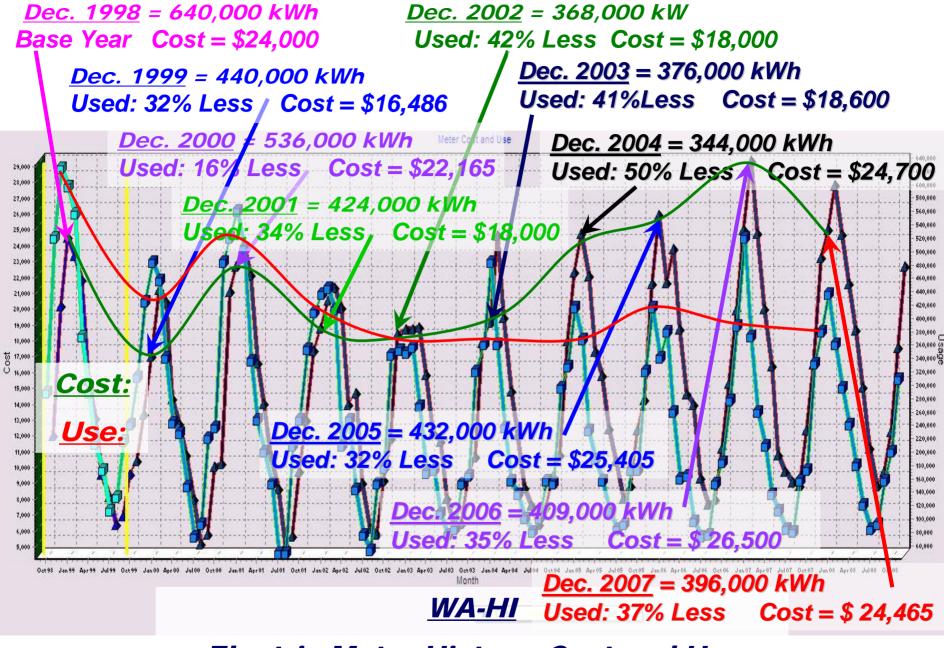
Heat Source



🛃 start

9 Year 1 Walla Walla

Desktop 🎽 🔇 🔂 7:55 PM



Electric Meter History: Cost and Use

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 2005 to September 2006

| Year 6 Costs: | <u>\$812,237</u> |
|---------------|------------------|
| Year 7 Costs: | <u>\$881,543</u> |
| Year 8 Costs: | <u>\$967,473</u> |
| | |

| Base | Year | Costs: | \$748,288 |
|------|------|--------|-----------|
| | | | |

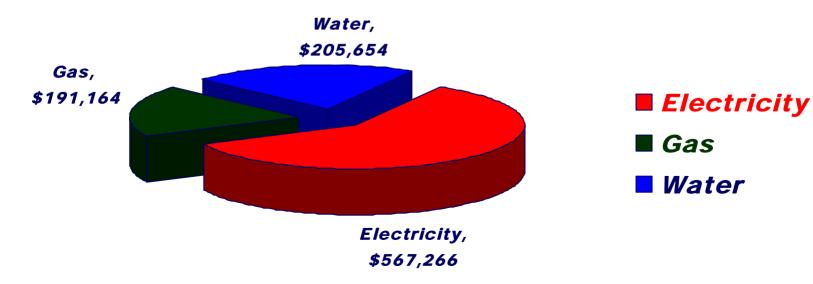
Year 1 Costs: \$645,033

Year 2 Costs: \$681,280

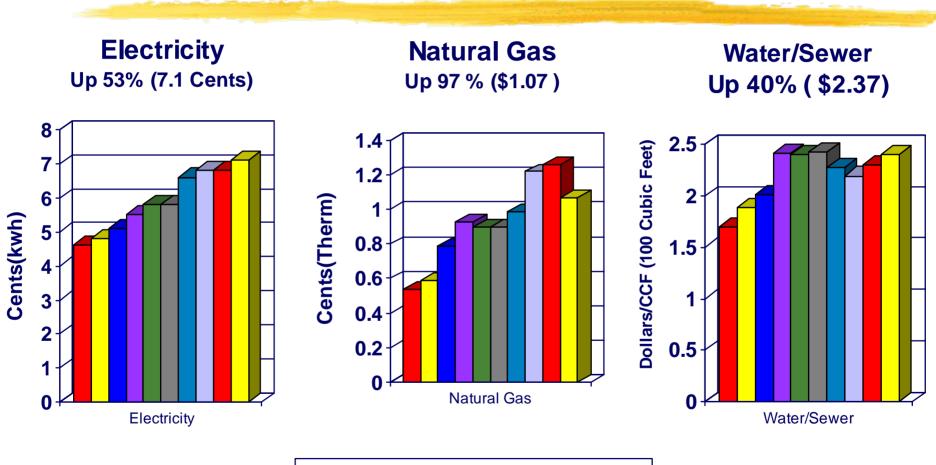
Year 3 Costs: \$749,180

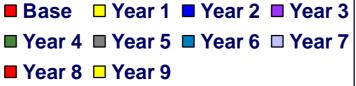
Year 4 Costs: \$767,412

Year 5 Costs: \$781,437



Walla Walla Public School System Utility Rate Comparison



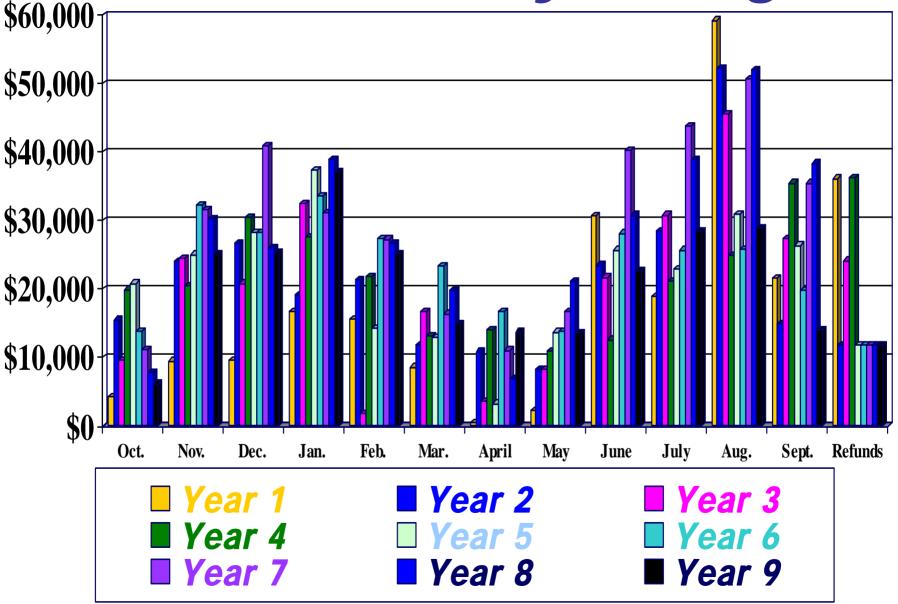


Walla Walla Public School System Consumption Comparison

Water/Sewer **Natural Gas Electricity** Saved 86,00 CCF Saved 26,438 therms Saved 128,253 kWh (86,000 CF) 18% (205 - 169) 15% (9.4 - 8.1) 25% (115 - 86) 120 250 10 9 100 [herm (thousands) 200 8 **100 Cubic Feet** 80 Millions of kWh 150 60 100 40 50 20 Ω Water/Sewer Natural Gas Electricity



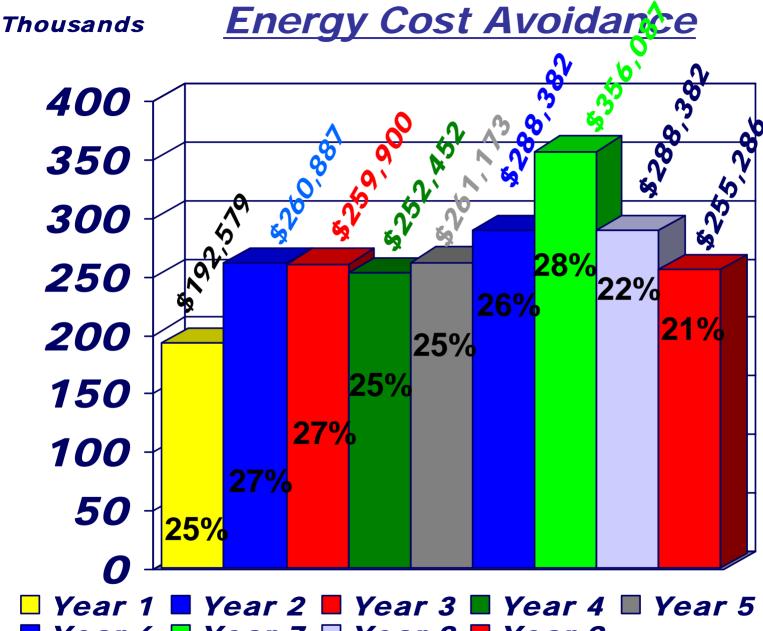
Actual Monthly Savings



SUMMARY (Year 9) October 2007 - September 2008

Anticipated Costs Without Energy Program

| \$ 11,856 \$ 1,214,672 \$ 962,116 | |
|---|---|
| | |
| <u>\$ 11,856</u> | |
| + · · • • · | |
| \$ 561 | |
| \$ 13,060 | |
| \$ 16,441 | |
| \$ 404,893 | |
| \$ 58,819 | |
| \$ -37,812 | |
| \$746,854 | |
| | \$-37,812 \$58,819 \$404,893 \$16,441 \$13,060 \$561 |



Vear 6 Vear 7 Vear 8 Year 9

