



### WALLA WALLA Public Schools

Administration

Berney

Blue Ridge

Edison

Green Park

**Prospect Point** 

Sharpstein

Garrison

Lincoln

Pioneer

Walla Walla High School

Support Services

Transportation

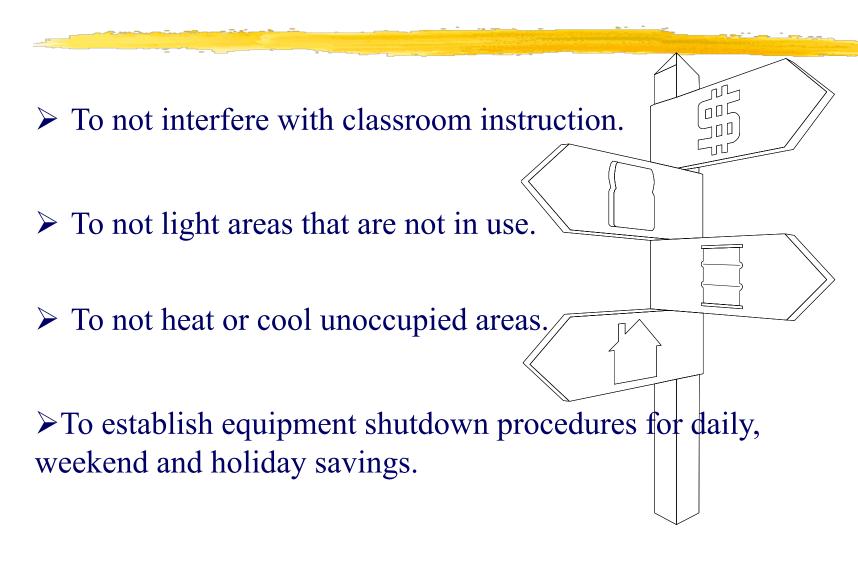
# ENERGY MANAGEMENT PROGRAM: YEAR 12

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 12 Reporting Period October 2010 to September 2011

## E.M.P. CONSERVATION GOALS



## To Determine Cost Avoidance or Savings

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

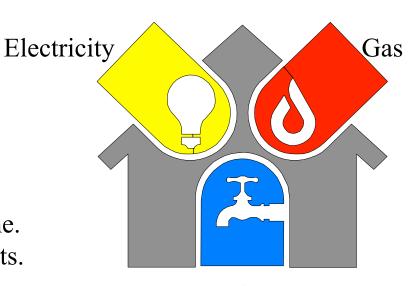
#### **ACCOUNTING PROCESS:**

Begins with usage during the base period.

### Adjusts For:

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

### **Utilities Tracked:**



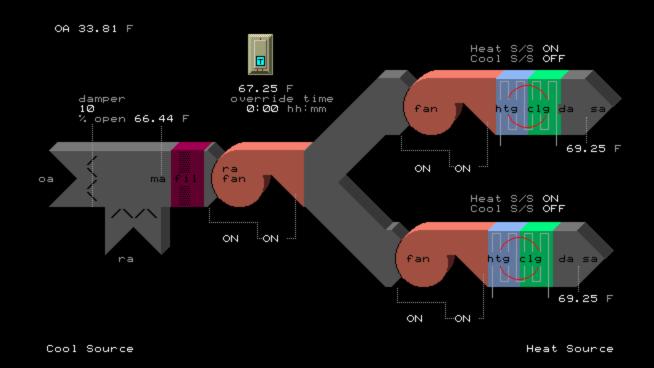
Water/Sewer

# AUTOMATED LOGIC

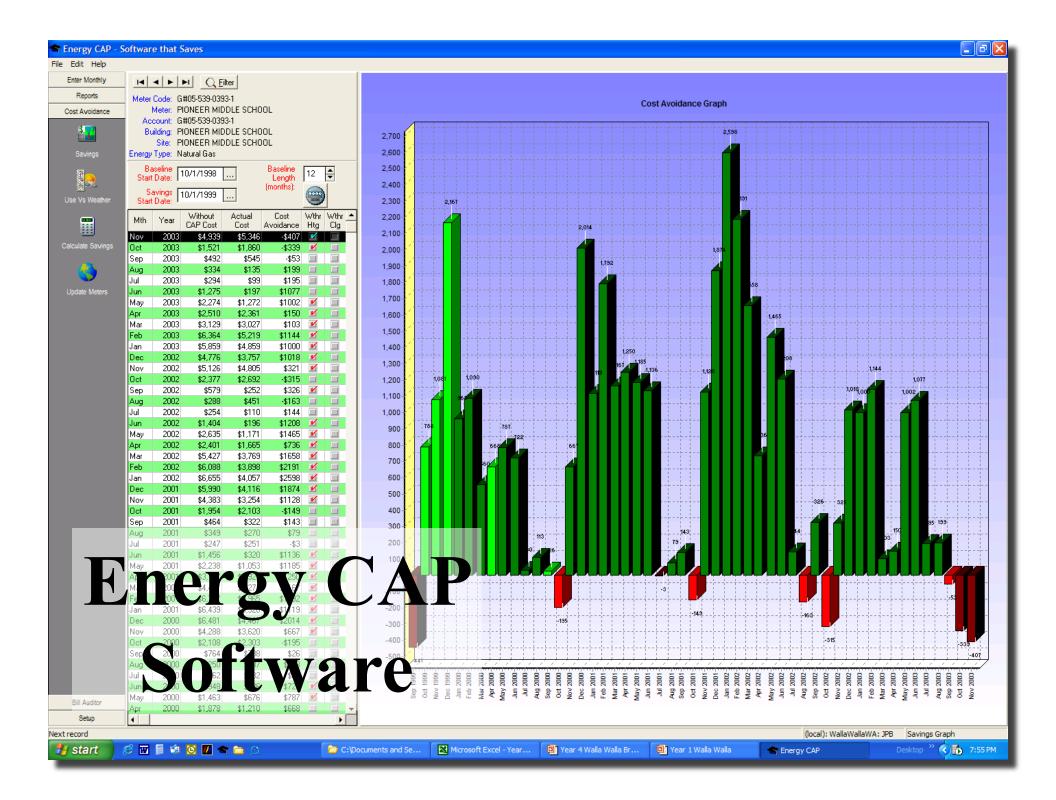




### **AUTOMATED LOGIC**



\_ 8



**Dec. 1998** = 640,000 kWh <u>Dec. 2004</u> = 324,000 kWh Base Year **€**ost = \$24,000 Used: 49% Less Cost = \$24,700 **Dec.** 1999 = 440,000 kWh **Used:** 31% Less Cost = \$16,486 <u>Dec. 2010</u> = 392,000 kWh Used: 38% Less Cost = \$ 29,000 <u>Dec. 2002</u> = 368,000 kW Vsed: 42% Less Cost = \$18,000 <u>Use:</u> Cost: Dec. 2006 = 409,000 kWh Dec. 2008 = 452,000 kWh < Dec. 2009 = 472,000 kWh *Used: 26% Less Cost = \$ 30,422* WA-HI Dec. 2011 = 400,000 kWh **Used:** 37% Less Cost = \$ 32.675 **Electric Meter: 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 2010 to September 2011

Base Year Costs: \$748,288

**Year 7 Costs:** \$881,543 **Year 1 Costs:** \$645,033

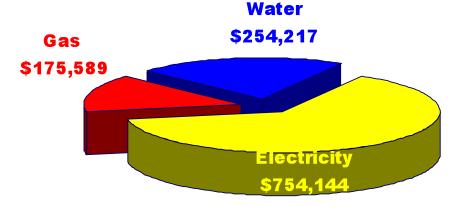
Year 8 Costs: \$967,473 Year 2 Costs: \$681,280

<u>Year 9 Costs: \$962,116</u> <u>Year 3 Costs: \$749,180</u>

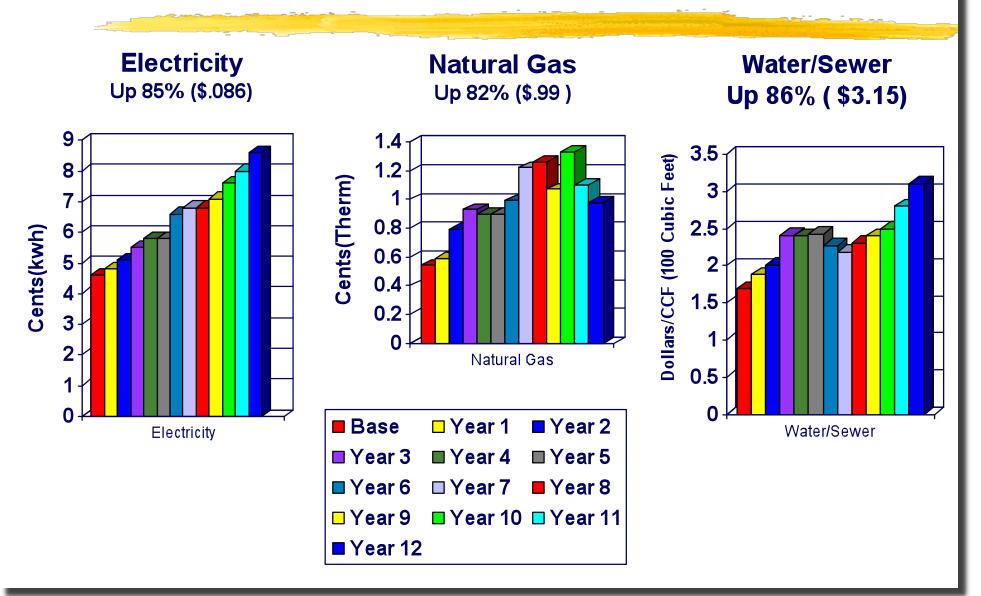
<u>Year 10 Costs: \$1,072,046</u> <u>Year 4 Costs: \$767,412</u>

<u>Year 11 Costs: \$1,107,411</u> <u>Year 5 Costs: \$781,437</u>

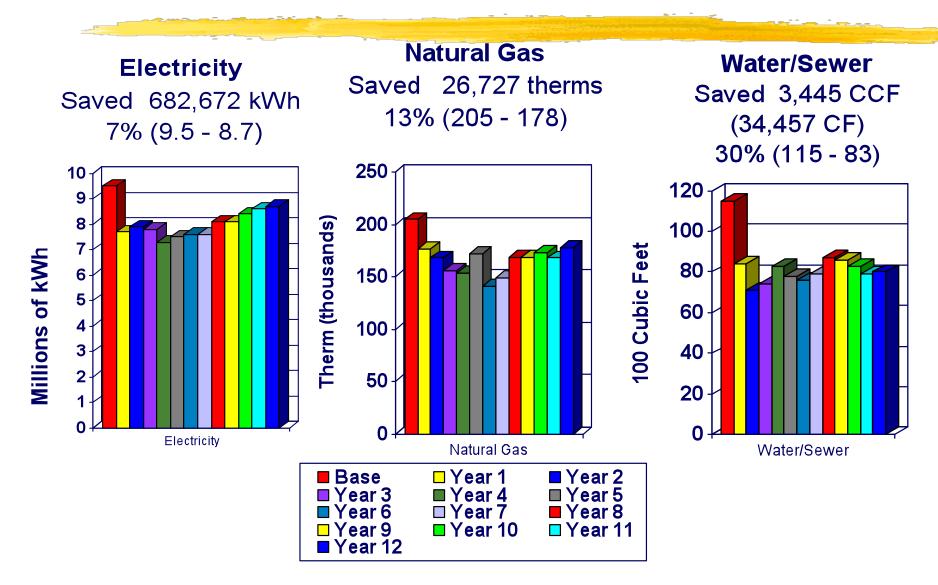
<u>Year 12 Costs: \$1,183,950</u> <u>Year 6 Costs: \$812,237</u>



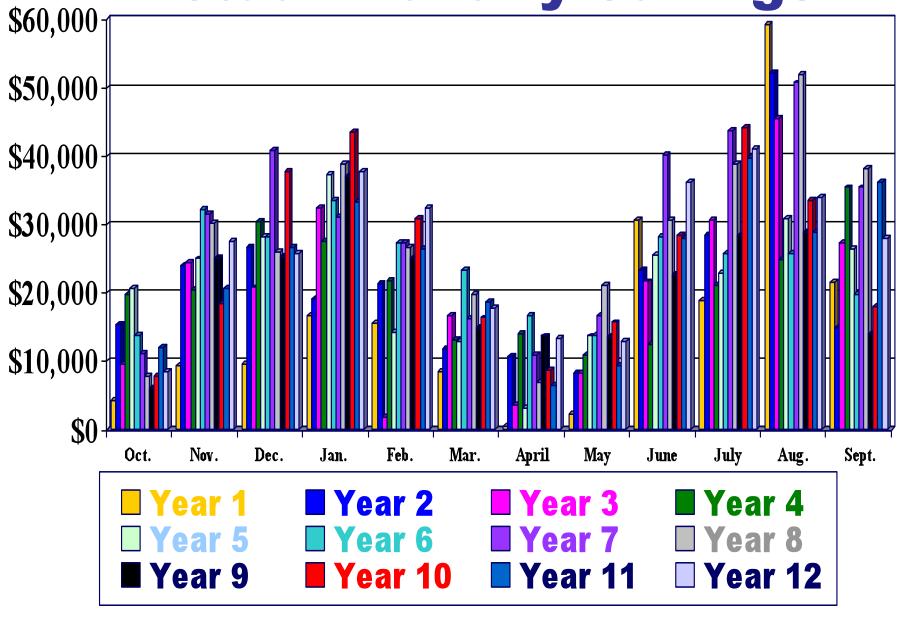
# Walla Walla Public School System Utility Rate Comparison

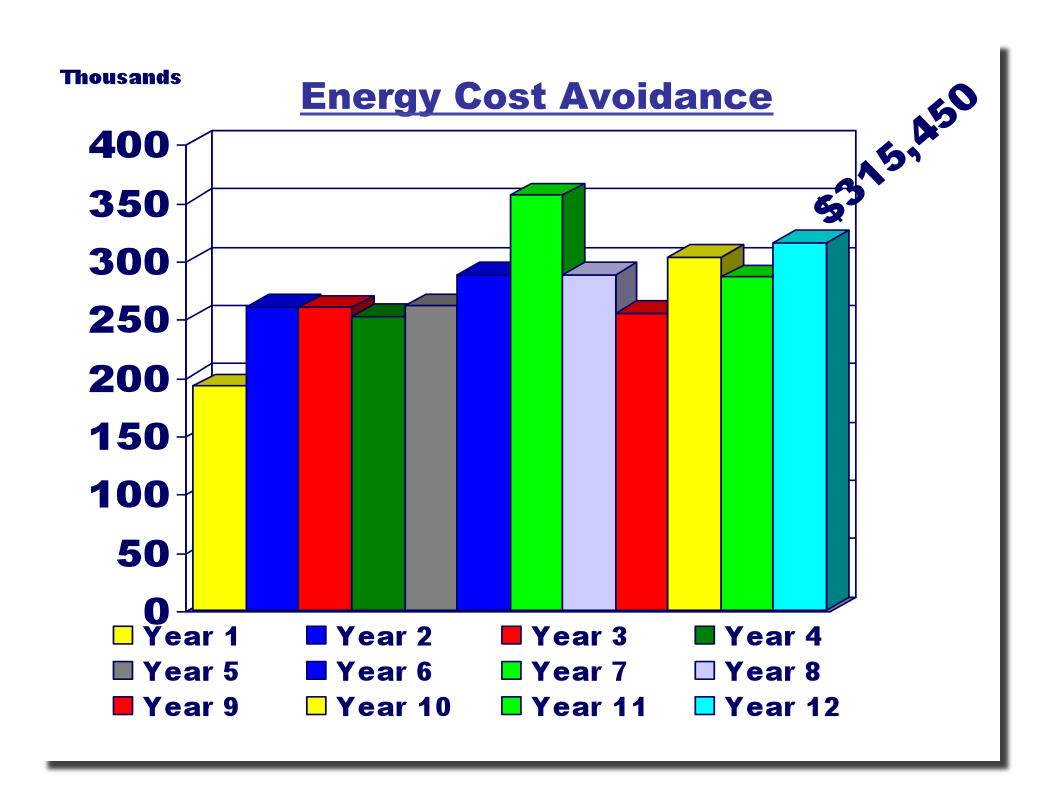


# Walla Walla Public School System Consumption Comparison



**Actual Monthly Savings** 





# SUMMARY (Year 12) October 2010 - September 2011

### Anticipated Costs Without Energy Program

Actual Base Year Costs	\$ 746,854
Rate Changes (Increase)	\$ 630,550
Weather (Harsher)	\$ 31,627
Technology/Utility Load Increase	\$ 15,012
Billing Period Change (5 days less)	\$ -12,455
Base Year Costs of Old SH/ED/SS	\$ 83,838
Refunds and Rebates	\$ 11,856

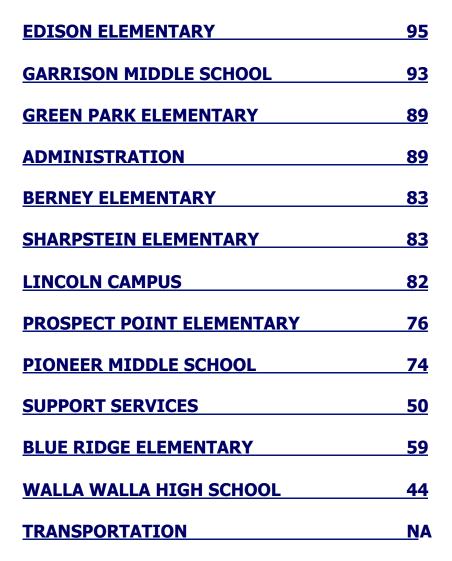
Total Anticipated Energy Cost \$1,477,258
Actual Year 12 Costs \$1,183,950

**Total Cost Avoidance from Energy Reduction** 

\$ 315,450

## Walla Walla School District Energy Star Ratings

Building Rating
Larger the number the Greater Energy Efficiency/Scale: 1-100





# Total Energy Cost Avoidance Oct. 1999 through Nov. 2011 12 Years – 2 Months

