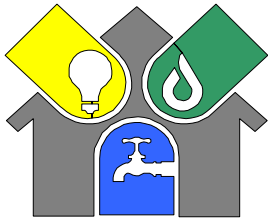


# The Energy Educator



## ENERGY MANAGEMENT

Year 2  
2001

Walla Walla Public Schools  
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Walla Walla, WA 99362  
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## The Energy Management Program

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

### Guiding Rules:

- Do not interfere with the classroom instructional program.
- Do not light areas that are not in use.
- Do not heat or cool unoccupied areas. Establish and practice equipment shutdown procedures for daily and holiday savings.

### Three Steps to Energy Savings

1. Turn off lights when you leave the room.
2. Turn off all electronic equipment at the end of the day.
3. Turn off or setback the thermostat every day.

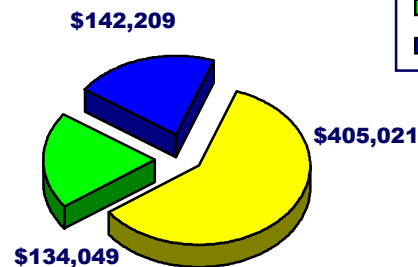
Settings for Setback: Heating 55 Degrees  
Cooling 90 Degrees  
(Fans set on Auto.)



Year 2/ Oct. 2000– Sept. 2001

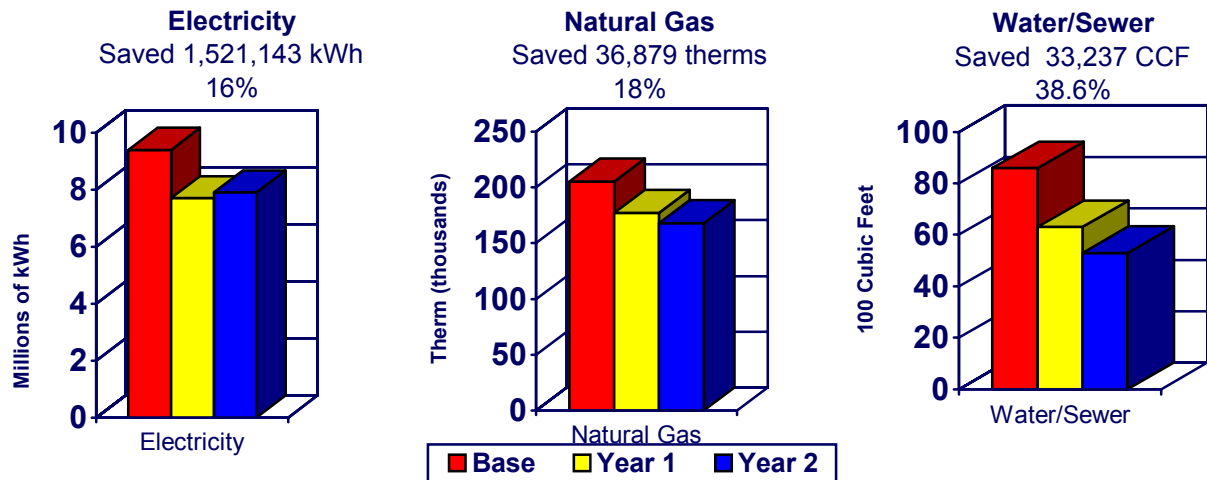
	<u>Percent Saved</u>
ADMINISTRATION	18.11 %
BERNEY ELEMENTARY	26.63%
BLUE RIDGE ELEMENTARY	22.38%
EDISON ELEMENTARY	26.68%
GARRISON MIDDLE SCHOOL	25.36%
GREEN PARK	15.67%
PAINE CAMPUS	38.96%
PIONEER MIDDLE SCHOOL	19.40%
PROSPECT POINT	24.27%
SHARPSTEIN	NA
SUPPORT SERVICES	16.57%
WALLA WALLA HIGH SCH.	31.10%
<b>Grand Totals:</b>	<b>27.36%</b>

Year 2 Costs    \$681,280



Base Year Costs: \$748,288  
Year 1 Costs: \$645,033

## Consumption Comparison



### YEAR TWO SAVINGS SUMMARY

Year Two Cost Avoidance	<b>\$256,232.00</b>
<b>Less Operating Expenses:</b>	
EEI Consulting Fees	<b>\$78,029.00</b>
Salaries	<b>\$18,000.00</b>
Software & Computing Costs	<b>\$400.00</b>
Miscellaneous	<b>\$2,000.00</b>
<b>NET SAVINGS</b>	<b>\$157,803.00</b>

### 1st Year Savings

#### Oct. 1999 - Sept. 2000

ELECTRIC	24.68%
NATURAL_GAS	9.90%
WATER	<u>29.52%</u>
<b>Total:</b>	<b>23.74%</b>

### 2nd Year Savings

#### Oct. 2000—Sept. 2001

ELECTRIC	23.59%
NATURAL_GAS	18.33%
WATER	<u>41.72%</u>
<b>Total:</b>	<b>27.36%</b>

### FULL PROGRAM SAVINGS

ELECTRIC	23.93%
NATURAL_GAS	14.32%
WATER	<u>37.83%</u>
<b>Grand Total:</b>	<b>25.88%</b>

**Did you know:**

- The benefits of turning equipment off include financial savings, longer equipment life and reduced risk of damage to computers and lighting caused by power fluctuations/lightening.
- It takes 20 times the energy to keep a classroom at 68 degrees for 14 hrs., then it does to set it back to 55 degrees for 14 hrs. and then bringing it back up to 68 degrees(in 10 degree weather).
- It is more economical to turn incandescent and fluorescent lights off each time you leave the room.
- A F40 rapid start fluorescent lamp operating continuously lasts 4.3 yrs. The same lamp used for a normal 40 hr. work week, lasts 10 ½ yrs. You cut Power Consumption and Replacement Costs.
- A computer left on 24 hrs. per. day is wearing out its components at least 3 to 4 times faster then necessary.
- Experts in the computer industry have determined that turning them off will not hurt them. They have determined that heat is the primary reason for failure.
- A computer operating continuously will have a average life of 2.3 yrs. Turned off nights and weekends it increases to 9.6 yrs.
- A computer left on for 8 hrs. a day will cost the district about \$50.00 annually.  
On for 24 hrs. = \$150.00 annually.
- Computer monitors can be turned on and off an average of 5 times per day without creating any problems.