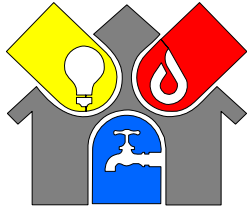


# The Energy Educator



ENERGY MANAGEMENT

YEAR NINE

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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

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.)

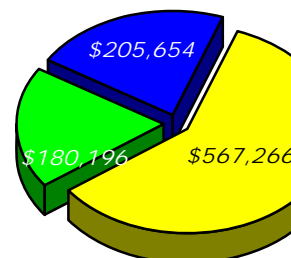
#### Special points of interest:

- The four year contract the district had with Energy Education, Inc. has ended. The district will no longer be required to pay the consulting fee which will result in an additional \$78,000 savings each year.
- Energy Education Inc. works for and with only K-12 public schools nationwide. They currently have over 300 contracts., 4 in Washington State.
- There was a total reduction of \$105,000 in energy costs in the 1st year of the Energy management program.
- The Energy Management program uses Energy CAP software to track utilities and Automated Logic: Supervision to control energy systems.
- Utilities Tracked: Electricity, Gas, Water / Sewer/, Sanitation.
- There are three phases to the Energy Management Program:  
Management, Education and Accounting.
- Energy Saving Achievements this far: Reduced water meter usage in WA-HI's Agriculture field will save more than \$20,000.00 annually. Rebated \$35,000.00 on an sewer charges at WA-HI. Rebated \$2,500.00 on overcharged water meter at Prospect Point. Rebated \$10,000.00 on overcharged water meter at WA-HI. Rebated \$800.00 on overcharged water meter at Pioneer Middle School. Removal of 4 meters that were not being used, but were charged for. Reduction of \$200.00 to \$500.00 monthly on sanitation charges at various schools.
- Energy rate increases have totaled over \$ 404,893.
- **Over the nine years WWPS Energy Management Program has saved over 25% and 2.4 Million dollars.**

#### Year 9/ Oct. 2007– Sept. 2008

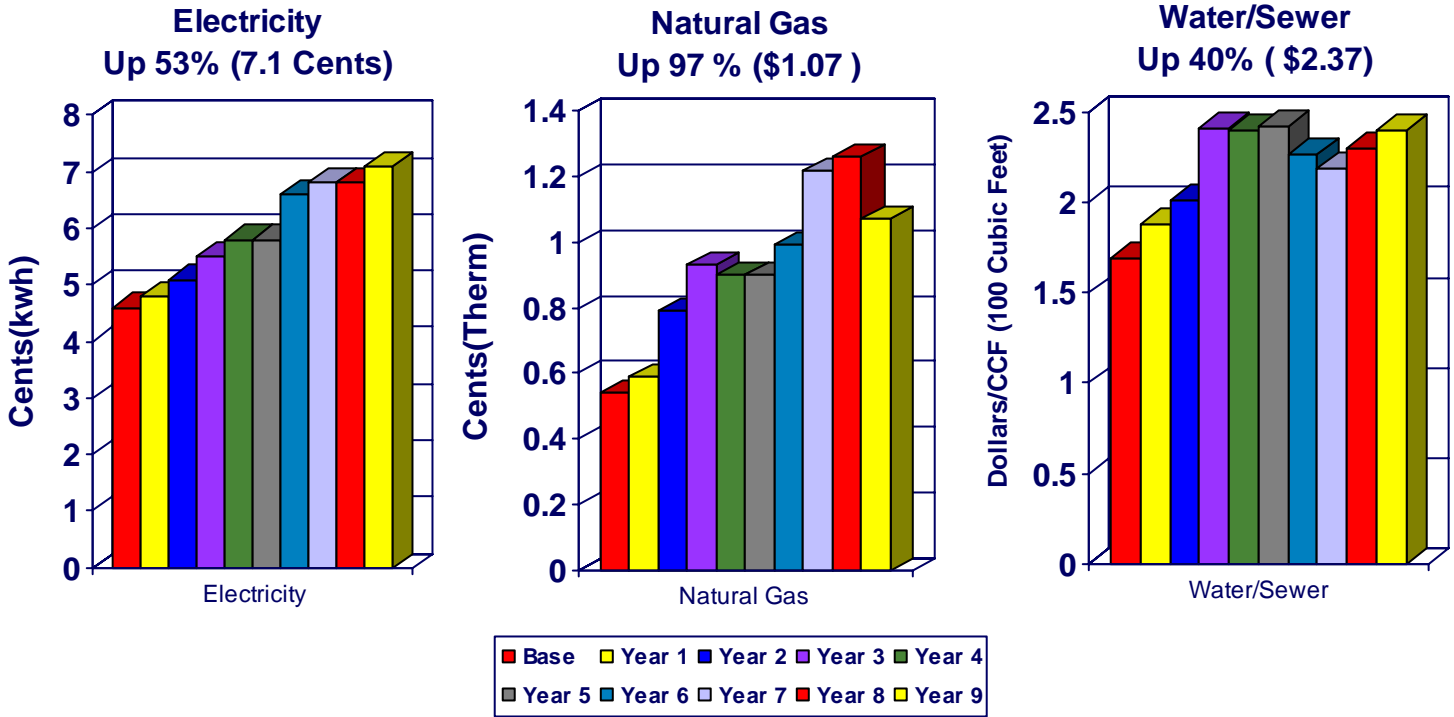
	<u>Percent Saved</u>
ADMINISTRATION	1%
BERNEY ELEMENTARY	25%
BLUE RIDGE ELEMENTARY	17%
EDISON ELEMENTARY	10%
GARRISON MIDDLE SCHOOL	15%
GREEN PARK	21%
LINCOLN CAMPUS	7%
PIONEER MIDDLE SCHOOL	17%
PROSPECT POINT	23%
SHARPSTEIN	4%
SUPPORT SERVICES	2%
WALLA WALLA HIGH SCH.	29%
<b>Grand Totals:</b>	<b>21 %</b>
<b>Saved:</b>	<b>\$255,286</b>
<b>Electical 15% Gas 18% Water 25%</b>	

Year 9 Costs: \$962,116  
Used 21% less Energy  
Saved \$255,286



<b>Base Year Costs:</b>	<b>\$748,288</b>
<b>Year 1 Costs:</b>	<b>\$645,033</b>
<b>Year 2 Costs:</b>	<b>\$681,280</b>
<b>Year 3 Costs:</b>	<b>\$749,180</b>
<b>Year 4 Costs:</b>	<b>\$767,412</b>
<b>Year 5 Costs:</b>	<b>\$811,367</b>
<b>Year 6 Costs:</b>	<b>\$812,237</b>
<b>Year 7 Costs:</b>	<b>\$881,543</b>
<b>Year 8 Costs:</b>	<b>\$967,473</b>

## Utility Rate Comparison



### DID YOU KNOW?

- The benefits of turning equipment off include financial savings, longer equipment life and reduced risk of damage to motors, 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. A computer operating continuously will have an average life of 2.3 yrs. Turned off nights and weekends it increases to 9.6 yrs.
- 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 left on for 8 hrs. a day will cost the district about \$50.00 annually, 24 hrs. = \$150.00 annually.
- WWPS uses Vending Misers on vending machines and the Watt Stopper: Isole Occupancy Power Strips on desktops.

## Consumption Comparison

