The Energy Educator



ENERGY MANAGEMENT

Year Three

Walla Walla Public Schools 364 S. Park Walla Walla, WA 99362 Phone: 509-520-7987 Fax: 509-527-4553 Email: jbutenhoff@wwps.org

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.

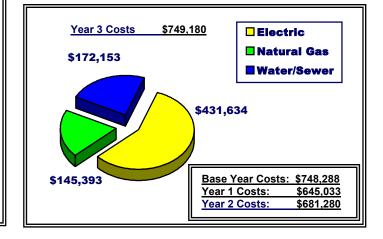
Three Steps to Energy Savings

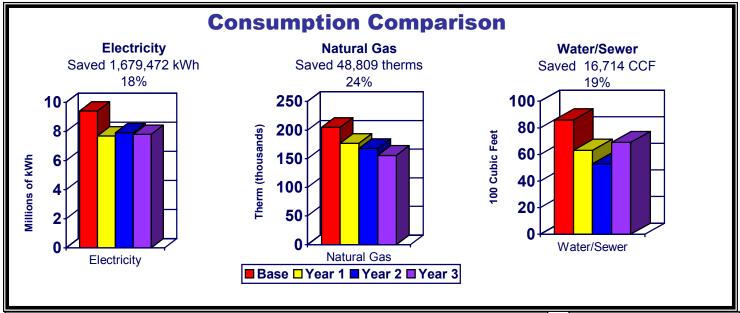
- 1. Turn off lights when you leave the room.
- 2. Turn off <u>all</u> electronic equipment at the end of the day.
- 3. Turn off or setback the thermostat every day.

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



Year 3/ Oct. 2001– Sept.	2002
<u>Per</u>	cent Saved
ADMINISTRATION	13.72%
BERNEY ELEMENTARY	24.51%
BLUE RIDGE ELEMENTARY	29.32%
EDISON ELEMENTARY	22.49%
GARRISON MIDDLE SCHOOL	21.31%
GREEN PARK	26.43%
PAINE CAMPUS	32.61%
PIONEER MIDDLE SCHOOL	32.15%
PROSPECT POINT	27.53%
SHARPSTEIN	NA
SUPPORT SERVICES	18.60%
WALLA WALLA HIGH SCH	23.69%
Grand Totals:	27.17%





FULL PROGRAM SAVINGS				
	Adjusted	Actual	Cost	Percent
Building	Building Cost	Cost	Avoidance	Saved
ADMINISTRATION	\$59,077	\$50,338	\$8,689	15%
BERNEY ELEM.	\$157,612	\$121,049	\$36,563	23%
BLUE RIDGE ELEM.	\$168,422	\$139,219	\$29,203	17%
EDISON ELEM.	\$89,545	\$68,741	\$20,804	23%
GARRISON MIDDLE SCH.	\$225,618	\$174,267	\$51,351	23%
GREEN PARK ELEM.	\$158,238	\$132,920	\$25,318	16%
PAINE CAMPUS	\$111,054	\$74,657	\$36,397	33%
PIONEER MIDDLE SCH.	\$338,656	\$205,442	\$133,215	39%
PROSPECT POINT ELEM.	\$169,789	\$130,772	\$39,017	23%
REFUNDS AND REBATES	\$60,430		\$60,430	
SHARPSTEIN	\$35,574	\$30,487	\$5,087	14%
SUPPORT SERVICES	\$69,114	\$58,715	\$10,399	15%
WALLA WALLA HIGH SCH.	\$896,056	\$659,256	\$236,800	26%
Grand Totals:	\$2,539,187	\$1,845,914	\$693,273	27%

YEAR THREE SAVINGS SUMMARY	
Year Three Cost Avoidance	\$280,349
Less Operating Expenses:	
EEI Consulting Fees	\$78,029
Salaries	\$18,000
Software & Computing Costs	\$400
Miscellaneous	\$2,000
NET SAVINGS	\$181,920

Websites of Interest:

Local Weather:

 $www.wrh.noaa.gov/pendleton/climate/climateInde\\ x.html$

POWERhouse Home Energy Calculator: http://www.article19.com/shockwave/ph.htm

WWPS Energy Management:

http://www.wwps.org/02_Community_Wire/Energ y_Management/energy.htm

Year 1 Savings	
Oct. 1999 - Sept. 2000	
ELECTRIC	24.68% 9.90%
NATURAL_GAS	9.90%
WATER	<u>29.52%</u>
Total:	23.74%

Year 2 Savings	
Oct. 2000—Sept	. 2001
ELECTRIC	23.59%
NATURAL_GAS	18.33%
WATER	41.72%
Total:	27.36%

Year 3 Savings	
Oct. 2001—Sept. 2002	
ELECTRIC	25.70%
NATURAL_GAS	17.78%
WATER	<u>36.49%</u>
Grand Total:	27.17%

FULL PROGRAM	
SAVINGS	
ELECTRIC	23.16%
NATURAL_GAS	15.75%
WATER	44.34%
Grand Total:	27.30%

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 a 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. 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.