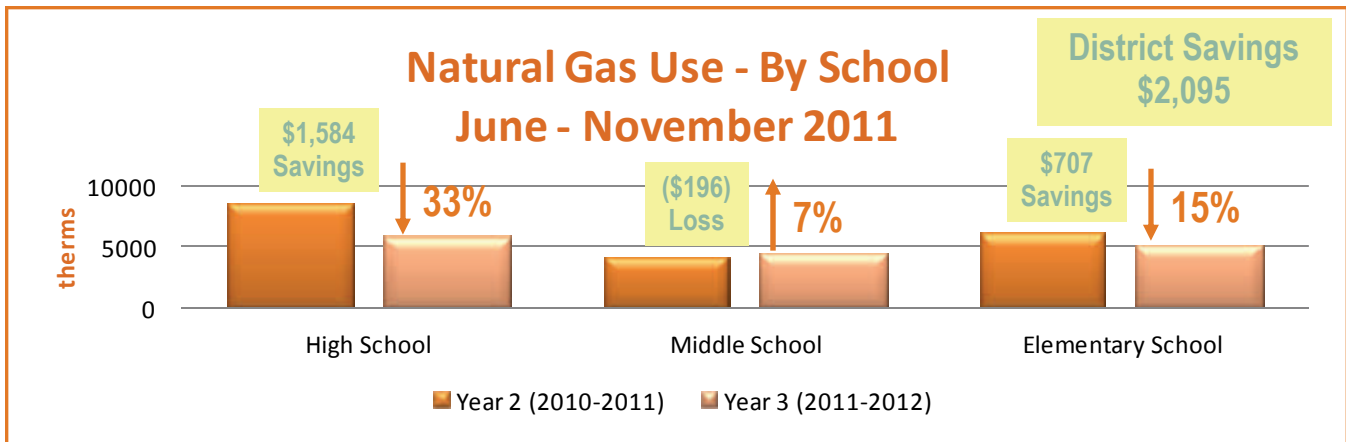


\*Electricity use does not include demand (kW) or associated savings



**District Demand (kW) Savings = \$2,124**

**TOTAL ENERGY SAVINGS JUNE - NOVEMBER 2011: \$11,674**

#### School District

Projects that have recently saved energy in the school district include:

- Finished the lighting upgrades in the HS and started the lighting upgrades in the MS and Elementary schools
- Set up a Holiday schedule so all air handlers can be turned off with one schedule
- Heated the HS classrooms with off-peak electric until early November when the boilers were finally needed
- Conducted energy management presentations with the food service, office, custodial, and teaching staff at all

three schools

- Worked with the IT department to get all of the district computer labs on an automated shutdown program (off at 4:30 PM)

Projects planned for the upcoming months include:

- Install kW metering equipment in all schools
- Implement demand limiting in all schools
- Replace old inefficient boilers in Elementary and High Schools
- Replace pneumatic controls and actuators with electronic in all schools

## Energy Saving Tips For...

### Teachers

Use a watt meter\* to determine how many watts (or kilowatts) are being used by the electronic devices and appliances in your classroom. Multiply the number of kilowatts each item uses by the hours each device is on to calculate your classroom contribution to the daily school energy load. For example:

Item	Watts (kW)	Hours	kWh
Laptop	25 (.025)	8	0.2
Smart Board	250 (.25)	5	1.25
Projector	200 (.2)	5	1.0
TOTAL			2.25 kWh

\*Contact your CESA 10 Energy Manager for assistance.

### Custodians

Explore using timers on exterior lights. Shorter days and longer 'nights' result in an increase use of exterior lighting and will contribute to your school's electric load. Consider areas that may be appropriate for reduced lighting after school hours such as parking lots and athletic fields. Depending on how the lights are wired, there may be opportunities to reduce light loads overnight and still ensure a safe environment for staff and students.

### Office Staff

Only turn laminators on when necessary. Since laminators use between 600 - 1500 watts, consider identifying times that it most likely to be used and post hours so staff know when the machine will be turned on (i.e., 7:30 - 9:30 AM and 2:30 - 4:00 PM). Turning the laminator off during peak load time (11 AM - 1 PM) will also reduce your electrical demand.



### Food Service Staff

Only turn the electric booster heater on for the dishwasher when needed. It is common practice to go into the kitchen at the start of the day and turn all the equipment on. You can save energy by turning on appliances, including booster heaters, only when absolutely necessary. Booster heaters will begin cycling on and off as soon as they are turned on, wasting electricity if the dish machine is not being used.

### Students

Use a watt meter to determine the watts used by devices in your classroom. Which uses more energy (in watts) - a string of 35 LED holiday lights or a fax machine in standby mode? Match the following appliances/devices with the appropriate wattage they typically use (answers below).



- |                                      |               |
|--------------------------------------|---------------|
| 1. CFL (60 watt equivalent)          | a. 3 watts    |
| 2. Computer with CRT monitor         | b. 15 watts   |
| 3. Fax machine in standby mode       | c. 45 watts   |
| 4. 2 horsepower motor                | d. 135+ watts |
| 5. LED holiday lights (string of 35) | e. 1300 watts |
| 6. Microwave oven                    | f. 1900 watts |

### Parents

Find out if your child's school has an Energy Committee or Green Team and get involved. Share your experiences with saving energy at home - many conservation strategies can be used in both residential and school settings. By getting involved and being active, you will help strengthen the bridge between school and community.

Answers: 1 - b, 2 - d, 3 - c, 4 - f, 5 - e, 6 - a

### Caught Conserving Energy...

This photo shows a classroom where the teacher was working with only half the lights on and the shades closed to minimize added heat load on a hot September day. Excellent example of conserving energy!

Congratulations to **Ms. Norberg & Ms. Stuckert at the Elementary School** who were caught conserving energy in the last EMU issue! Next time it might be you!

### Questions - Comments - Suggestions

Please contact Melissa Rickert, Energy Manager, CESA 10: [mricket@cesa10.k12.wi.us](mailto:mricket@cesa10.k12.wi.us), 715.720.2123