

RISD ENERGY REPORT

MAY 2012

ENERGY POINTS

ENERGY POINTS	2
DELAMPING	2
TURNING OFF	2
WORK ORDER POLICY	2
MONITORING UTILITY BILLS	2
PREVENTATIVE MAINTENANCE	3
NEW CONSTRUCTION	3
ELECTRICITY	4

This issue of the RISD ENERGY REPORT is our first newsletter geared at educating Roswell's teachers and students in energy conservation. The RISD has had an energy program since 2004. The Energy Manager for the Roswell Independent School District is Paul Mysza.

Since the Energy Management Program began in 2004, The program has saved the school district close to \$250,000 a year. There are various programs that are now in place that many teachers and students may not know about. Some of the programs used to save money in the district include:

1. Delamping hallway and classroom lighting fixtures.
2. Programming computers to turn off when students are not using them.
3. Using work orders to schedule heating/cooling for special events.
4. Monitoring utility usage and costs.
5. Utilizing an excellent preventative maintenance program.
6. Working with architects and contractors to supply the most energy efficient equipment.
7. Coordinating holiday/vacation shutdowns.



RISD is striving for excellence in this program and your help is appreciated. Helping to control the costs of energy is everyone's responsibility. Try to be a good role model for the district, the payback is very rewarding, especially in this era of tight budgets.

DELAMPING (TAKING BULBS OUT OF FIXTURES)

The RISD must maintain minimum lighting standards which are set by the state. The Energy Manager for the district continually checks the lighting in each school to make sure it is meeting state standards. Most of the schools in the district have lighting that is well above the state's mandate. Delamping these schools help in conserving energy.

The T8 fluorescent bulb is very efficient at 32 watts. They burn brighter and hotter when the bulb next to them is removed.* There is little to no loss of light, but the return is amazing. The cost for a KWh (kilowatt hour of electricity) is around \$.08 (the cost to run 1000 watts for 1 hour.) To find the cost per hour, you multiply wattage times .00008. If you multiply the number of bulbs you remove by the 32 watts per bulb, then by \$.00008, you can estimate the amount of money saved per hour.

*http://wood.bigelow.com/articles/fluorescent_lamps_and_ballasts.htm

SPECIAL POINTS OF INTEREST:

- The Roswell Energy Report is the district's first energy conservation newsletter.
- The Roswell Energy Report is an informative source about the energy conservation program.

TURNING OFF COMPUTERS

Turning off your computer and your monitor every night will save our district money. The cost to run your computer tower is around \$.55/day. That doesn't sound like much, but when there are over 4000 computers in the district running 24/7, it adds up to almost \$220,000 a school year. Shutting down the monitors every night would save the district a significant amount of money also.

There are many ways to shut your computer down without much effort. You can go into your power options and set them to shut your computer down after no one is on it for a determined amount of time. Program the time on each computer to determine shutdown wait. You can get your I.T. tech to put Deep Freeze (a program) on your computers. This program automatically shuts down computers and monitors their status. You can turn it off manually also.

Contrary to popular belief, turning off your computers will actually assist your computer's efficiency. When your computer starts up, it runs through all the updates and runs various protective programs such as antivirus and spyware.

The money saved by turning off your computers could help to decrease our budget .



WORKORDER POLICY

It is the policy of the district to turn in work orders for scheduling heaters or air conditioners to run during special events. The work orders need to be turned in at least two days in advance of the event. This helps the Energy Manager to program HVAC in a timely manner. Turning in a work order two days in advance, will help to ensure that your HVAC gets programmed. Sometimes there can be problems like the modem at the school not being connected to the EMS (Energy Management System.) Sometimes the Energy Manager is not available to program the **day of an event, or the equipment doesn't respond to programming. Two days advance notice** will help to guarantee success.

The RISD strives to satisfy the needs of each event. It will be helpful if the event organizers plan for the heating and cooling needs at least two days in advance; more than two days, is actually preferred. Turning them in the day of the event is not recommended. Too many variables can occur to prevent success.

**“ Conservation
Makes cents”**

\$\$\$

MONITORING UTILITY BILLS

Energy management starts with monitoring utility usage. The RISD utilizes Energy Capp which is a program designed to track usage, and cost for each meter the school uses.

Each month the utility bills are sent to the Energy Manager. The Energy Manager inputs these bills into Energy Capp. Energy Capp allows the Energy Manager to create reports for the district to show our savings during a period of time. This period can be from one day to many years. The program also has a report card for each school.

The district can take actions on meters that are using more energy than they had in the past. We also find water leaks this way. We can determine areas in the school which are using more electric or gas than usual. This helps us to get a good picture of how we use our energy.

Monitoring our utility bills help us to keep control of our expenditures and help us to decrease usage.



PREVENTATIVE MAINTENANCE

The RISD has an excellent preventative maintenance program in place to take care of all our HVAC equipment. Honeywell is responsible for getting all the HVAC equipment up to standard and maintain that equipment for the next 25 years. Members of the Honeywell team are: Manual Ortiz, Victor Soto, and Joe Ventura.

The Honeywell team works with the Energy Manager to find that fine line between comfort and energy savings. They also work with the maintenance crew to upkeep all the equipment. They have become an important part of our program. Sean Benedict, the new Maintenance Supervisor, has the maintenance crew working diligently to keep up with the continuing needs of the district.

NEW CONSTRUCTION

Many of the RISD schools have been under construction. I am sure most of you have seen the new Missouri Avenue School going up on the corner of Washington and Deming. This elementary school will be fitted with energy efficient heating and cooling equipment.

East Grand Plains Elementary School has been under construction for the last six months. EGP will now be using a ground source heat pump. This technology should save the district thousands of dollars over the next twenty years.

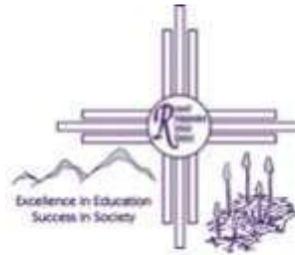
Pecos Elementary is also progressing with their construction. The teachers are moving into their newly remodeled rooms. The school has dual unit roof top equipment.

Each school in the RISD either has been, or will be, updated over the next few years with new equipment for some schools and remodeling for others.

Our goal is to have state of the art, energy efficient equipment throughout the district while improving the standards of each of our buildings.

\$\$\$
**“conservation makes
cents”**
 \$\$\$

Paul Mysza
508 W. College
Roswell, NM. 88201
Phone: 575-420-2902
Fax:
E-mail: pvmysza@yahoo.com



If you have any suggestions for the Roswell Energy Report, please email them to pmysza@risd.k12.nm.us

Your suggestions will be taken into consideration and approved for publication by administration. We cannot guarantee that your story or suggestion will be printed in the RISD Energy Report.

MISSION STATEMENT :

FOCUSING ON QUALITY EDUCATION FOR
EACH AND EVERY CHILD

ELECTRICITY

In our district, electricity is 87% of our utility bills. while gas is 10% and water is 3%.

You can see where we can find opportunities to save money.

This news letter is intended to help each of us to find a way to pitch in and save the district money. Our budget has not increased, it has actually decreased, and this has caused many hardships on the district especially near the end of the year when our budget is depleted.

Electricity is an area which we will be able to save the most money . We continue to cut back on gas usage and water usage, but these two utilities do not have the potential to save us the amount of money that electricity will save us.

We, as Americans, have been very spoiled with electricity. It is said that America uses 3/4 of all the electricity produced in the world. We have become very wasteful compared to the rest of the world. It is time for us to look toward the future and to start everywhere we can to conserve. If everyone pitches in by shutting off equipment and turning off lights and unplugging during shutdowns, then our budget will turn around.

We are the role models for our future. Our children will be the ones who benefit from our endeavors. **Let's try to make the best of our time teaching the curriculum and being good role models for our little ones.**

