Energy Problem At Chapin High School

Love Green

Problem:

- **282,000** on last energy bill.
- Energy bill consists of our electric, natural gas, and water. Cost for last year:
- Electric- $**203,507**
- Natural gas- $**23,491**
- Water- $**54,841**
- Highest Months:
  - August- highest electric use
  - September- Highest water use
  - January- highest natural gas use

NEED:

LIGHTS

PROJECTOR/OVERHEAD

COMPUTERS

SUSTANIBLE TEMP.

SMART BOARDS

WASTE:

Extreme temperatures

Refrigerators

Extra unused computers

Leaving the lights on when not needed

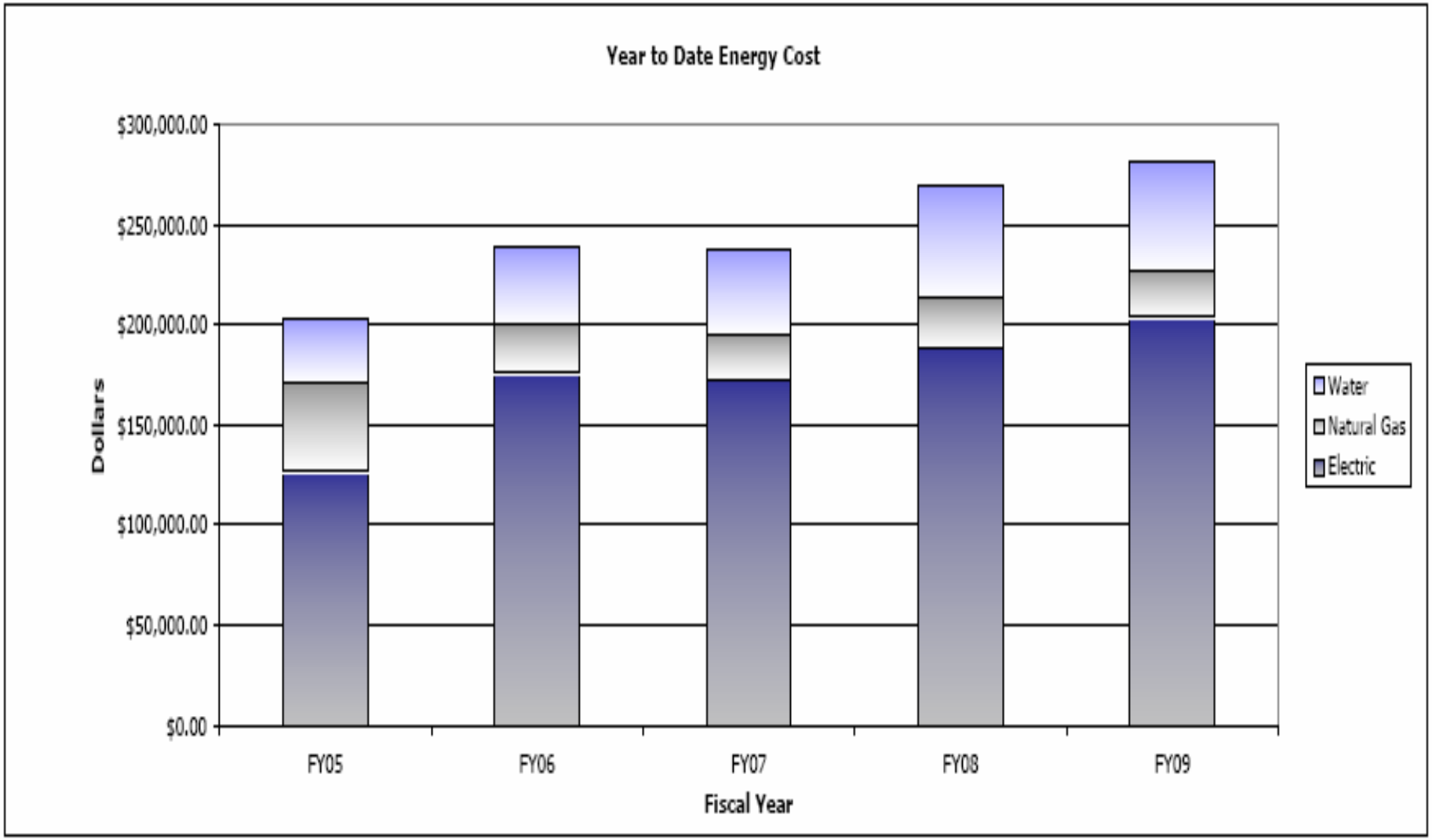
Coffee makers

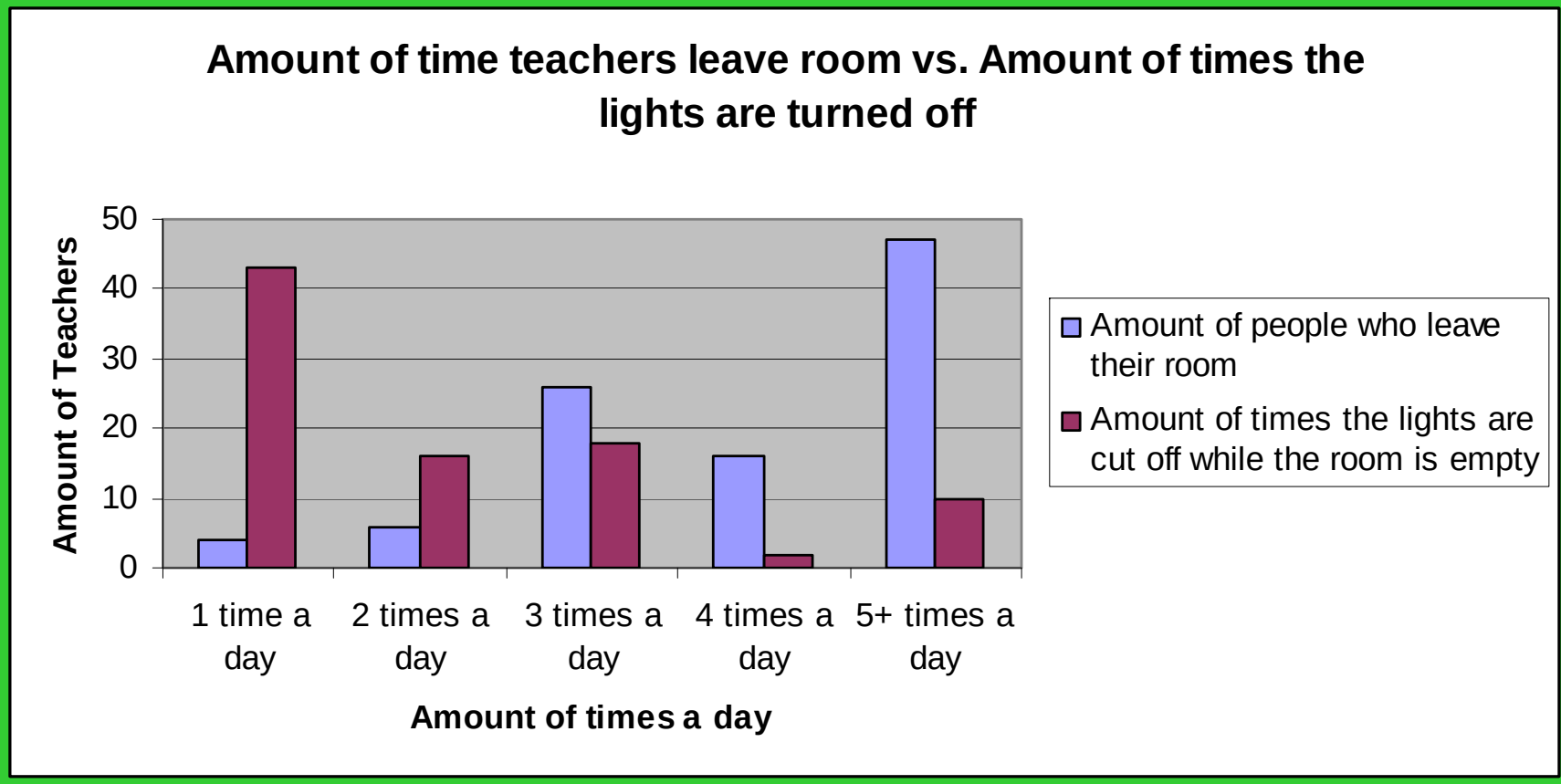
Lamps

Statistics

Statistics based on: energy usage survey, and Mr. Ross's energy presentation.

- 89.4% of teachers believe that a microwave is not need for teachers to fulfill their teaching abilities
- 83% of teachers believe that a refrigerator is not needed to fulfill their teaching abilities and is an appreciated extra.
- 35% of teachers have personal refrigerators and assuming that a mini fridge uses 125.5 watts/hr.,.1255w/hr and rates are 11.06cents/Kw/h
- 52.4% of teacher believe that coffee machines are wasteful.
- 25% of the teachers have microwaves in their own room if a microwave


Year to Date Energy Cost
$300,000.00
$250,000.00
$200,000.00
$150,000.00
$100,000.00
$50,000.00
$0.00
Dollars
FY05
FY06
FY07
FY08
FY09
Fiscal Year
Water
Natural Gas
Electric



In blue you have the amount of times that a teacher leaves his or her room. In purple you have the amount of times that the lights are cut off while the room is empty. Our goal is to have the purple and blue match each other.

Now, what do we do?

- AWARNESS AND MOTIVATION.
  - Give people reasons to want to help. Love Green's job is to make those reasons.

Possible solutions:

- ¼ of the teachers have microwaves in their own room if a microwave uses and average 28w/h, then we use $77.42 a year.
- Instead of having personal refrigerators, we share one or two large ones and it would save about $4289, assuming 126.5 watts/hr. , and rates are 11.06cents/kwh.
- Computer monitors use about 60 watts of energy when turned on, but only 2-10 when the monitor is turned off. Put notices around in every classroom, and make it necessary to turn it off when not in the room.
- Judging by the survey, teachers are not happy with the temperatures in their room. They are either too hot or too cold. Fix the thermostats so that it is not on either extreme, but not so it affects the learning environments.

Note:

- the more money we save the more money we will have to improve academic programs and even more teaching positions, and so on.
- Note: every single response to the survey that we put out believes that energy conservation is important to this school. Now, knowing that we must all work together to make our school a more eco friendly and set an example for the district, and the rest of the state.

Goals?

- To turn this school into a more eco-friendly school and to spread awareness.

On a brighter side…

- Lexington County Green Business has named us Green certified in the Waste reduction category. Next year, we can hopefully get another category down!
- Collected 300 gallons of recycled items from the Taste of Chapin.
- Raised $200 dollars with our Starbucks coffee sale, and that money goes towards our recycling award and hopefully to get door hangers on teacher's doors. This is because usually when students go to a classroom with the lights turned off they think that the teacher isn't in there, but with a door hanger saying, 'Be back in a minute' the student will stay in the classroom, instead of assuming the teacher isn't there.
- Recycling award is going really well, teachers are recycling more and are really getting into it. They are trying really hard to win that pizza party.
- Plant-A-Pansy fundraiser raised $120 dollars, and is a beautiful contribution to our amphitheater.

Upcoming Projects

Another Starbucks coffee sale soon

- The money from this will go to door hangers for teachers
- Adopting part of St. Peters Church Road, as well as doing Adopt-A-Highway on February 20th
- Earth Week fundraisers, as well as a Recycling Fashion show
- Lesson Plan of the month for April will be based on Earth Week
- Earth Week!
- Lexington County Green Business Association meeting on March 11th