ICHABOD CRANE CENTRAL SCHOOL DISTRICT

Volume 1, Issue 1
August 2009

ENERGY CONSERVATION PROGRAM

About our Program

In 2003, the district entered into an agreement with Energy Education, Inc. This company believed that the district would save money and have "cost avoidance" in years of energy use. An Energy Policy was then put into place and an Energy Manager assigned to do the task. The board adapted the Policy Guidelines that we now follow.

Many of us didn't think the district would save much more than we had in the past. Our district has been on an energy mode since the energy crisis in the 1970's. Once the training started, software in place, working closely with all staff on how the program works and seeing everyone wanting to conserve energy, after the 1st year it started falling into place.

The program includes safety and comfort to be maintained during this transition to over 350 employees, 2200 students, public events and our buildings on a 24 hour, 7 days a week forever environment. With the help from the Administration, Director of Facilities and all the Staff, it is happening.

The program has a lot to do with habits. Turning off lighting in rooms not occupied. Off with computers/equipment upon leaving for the day. And unplugging equipment (plug loads) not in use over time. The lighting use cost for electric is 38% of the utility bill.

The next area is the heating/cooling/ventilation systems. These are controlled by an Energy Management System (EMS) which is computerized and follows State Ed recommended guidelines for comfort when that space is occupied or unoccupied.

INSIDE THIS ISSUE:

As The New School Year Begins

The district expects all staff to continue where all have left off during the summer use and at the end of the last school year and to help guide new employees on energy conservation.

Our energy programs shows outstanding energy reduction due to habits including turning off lights, computer shut downs, heating and cooling adjustments and preventative maintenance, kitchen use and daily maintenance operations in all 7 of our buildings concession area and grounds.

Behind the scenes during breaks such as winter recess and summer shut down we limit space cooling, lighting use, summer school in one building, team cleaning efforts, equipment maintenance and consolidate foods.

We have real savings and cost advoidance of over $600,000 during the program thanks to all staff.

As repairs and renovations to buildings are done, the district has energy conservation in mind for all roofing, windows, lighting and heating system upgrades to be more energy efficient and environment friendly.

The district THANKS ALL of YOU for changing your habits to help make a difference with Energy Conservation.

Everyone is an Energy Star!

Special points of interest:

- Energy Star rated district 06'-07'-08'
- Energy Star Leader 06'-08'

Myths

Myth #1: Shutting your computers off really doesn't save much.

Fact: we have about 800 computers, turned off for just 12 hours/work day, all weekends and holidays, based on electricity rate of $.20/kWh,(which we pay) results in annual savings of over $20,000!

Myth #2: Setting back your thermostat when you are away for 5 hours or more or as we call "night setback" does not save energy.

Fact: there is a potential to save 20% of the fuel cost by using a "night set back" of 10 degr lower than occupied temperature. It takes less energy to warm up an area than it does to keep it warm all night.

Myth #3: It is not cost effective to turn off room lighting and it shortens life of fixture.

Fact: it is cost effective to turn off lights if the room is not to be used for 15 min or more. Imagine classroom lighting cost about $.25 every 15 min to run. If every classroom had lights turned off during a total of 1 hour when not in use during the day, it would save the district over $32,000 annually!

And the shorter life span is not noticeable over the life of the bulb.

Energy Star is more than a "Label Award" for energy efficiency. It is a partership among government and consumers united in a common goal to protect our environment for future generations.
EPA

Terms you may see used

EMS
"**E**nergy **M**anagement **S**ystem" is a computerized network monitoring and controlling all building heating, cooling and venting systems and exterior lighting.

ECAP
Energy **E**ducation **C**ost **A**voidance **P**rogram

Plug Loads
Appliances such as TV's, VCR's, chargers or other related equipment that may not be used for a couple days

Cost Avoidance
Money not spent to utility company due to energy conservation

Cost Avoidance Summary Since Start of Program

Site	Cost Avoidance
Bus Garage	**$21,182.65**
Middle School	**$225,612.76**
High School	**$143,896.06**
Maintenance Shop	**$16,890.76**
Martin H. Glynn	**$30,307.27**
Martin VanBuren	**$53,697.74**
Primary School	**$110,719.34**

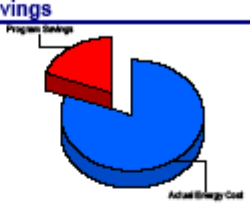
CUMULATIVE COST SAVINGS and GREENHOUSE GAS REDUCTION

ICHABOD CRANE NY
Bob Thorsey - Energy Manager
Energy Program

Energy Conservation Program **August 2009**

Cumulative Cost Savings

Expected Energy Costs	$3,135,879
Actual Energy Cost	$2,531,643
Program Savings	$604,236



Expected Energy Costs

Amount you would have spent on energy without energy management program.

This is the base year usage adjusted for changes in weather, equipment, schedules, occupancy and prices

Actual Energy Costs

Actual utility costs for electricity, gas, water, sewer, etc obtained directly from bills.

Program Savings

The difference between Expected and Actual Costs, calculated in accordance with the International Performance Measurement & Verification Protocol. Does not include savings attributable to reduced equipment maintenance and replacement costs and other collateral benefits. These savings can increase the program savings up to 20%.

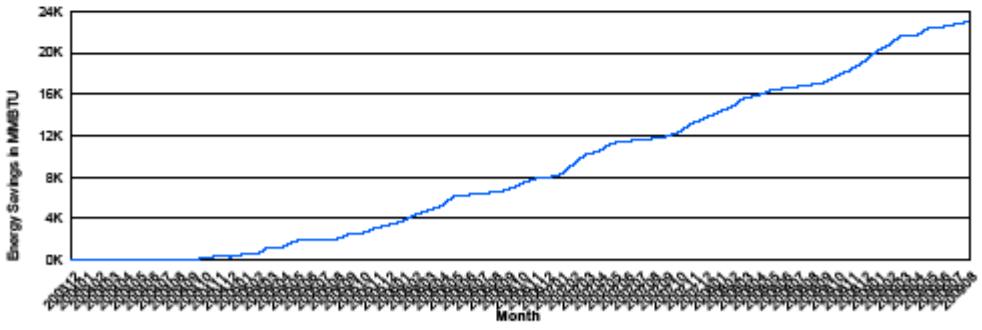
Cumulative Greenhouse Gas Reduction

Energy Reduction Impact: 23,030 MMBTU 1,839 equiv. metric tons of CO2

This is equivalent to the following:

Passenger cars not driven for one year:	330
Tree seedlings grown for 10 years:	47,036

Cumulative Energy Savings



All Energy Types

8/28/2009

"Thanks to your efforts with district wide Energy Conservation, this is how well the district has done since 2004"