

# Energy Conservation Program Board Update

## Community High School District 99

October 2002 – March 2015



# Energy Cost Analysis

October 2002 – March 2015

Expected Energy Cost	\$23,237,484
Actual Cost	\$17,256,248
<b>Program Savings</b>	<b>\$5,981,484</b>
<b>Savings Percentage</b>	<b>26%</b>

## Expected Energy Cost

- Amount organization would have spent on energy without energy program
- Base year usage adjusted for changes in weather, energy loads and prices

## Actual Energy Cost

- Actual energy costs for electricity, water, sewer, and gas as a result of energy program

## Program Savings

- Program implementation resulting in behavior changes
- Cenergistic training and support
- Reductions in equipment run times

# Project Success

- DCEO grant funds approved(\$63,995.00) for 2014 Summer Projects (South auditorium lighting /North small gym lighting and rooftop)
- On the horizon.....North High School Boiler Project 2015-16

# Promoting a Conservation Ethic:

## **District 99 students now study:**

- Water conservation/waste water treatment
- Renewable energy sources/solutions
- Sustainable agricultural practices

# Energy Program Success

## Success Factors

1. **Teamwork** — All organization personnel
2. **Data analysis** — Energy Team
3. **On-site training and expertise** — Cenergistic
4. **Comprehensive facility audits** — Expert identification of energy conservation opportunities throughout system facilities

## Program Benefits and Features

1. **Budget** — Dollars retained for educational purposes
2. **Environmental** — Conservation of natural resources
3. **Self-funding program** — Conservation activities generate savings which pay for the program
4. **Longevity** — Program designed to be ongoing, with free support from Cenergistic after paid contract term

# Energy Program Environmental Impact

**380,003 MMBTUs Energy Reduction,**

**Equivalent to one of the following:**



**Greenhouse gas reduction (metric tons) CO<sub>2</sub> 32,144**

**Tree seedlings planted, grown for 10 yrs. 824,201**

**Passenger cars not driven one year 6,697**

# Teamwork

*The success of the program depends on everyone!*

**Special thanks go to:**

- **School Board** for proactively implementing our program
- **Community** for supporting our energy program
- **Maintenance Staff** for executing changes in the heating and cooling systems
- **Custodians** for setting back each night
- **Teachers** for reducing energy waste in their classrooms
- **Principals** and **Staff** for coordinating efforts in their schools