

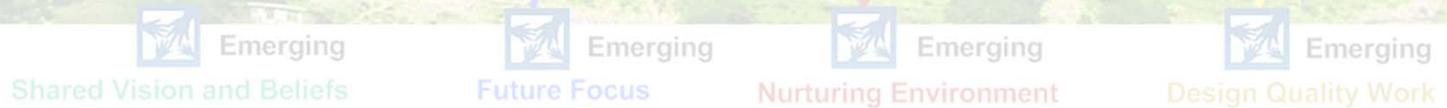


Energy  
Conservation  
Management  
Program

# Keep Our Cash In The Classroom!

## Annual Report Savings Year 2

**Kim Melander, CEM**  
**Presented to The Board of Trustees**  
**25 March 2013**

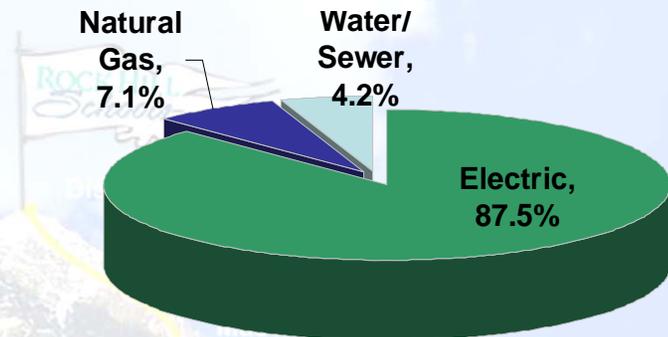




- Save Money We Can't Afford to Waste
- Save Our Teachers!

**“Bottom Line” Benefits:**

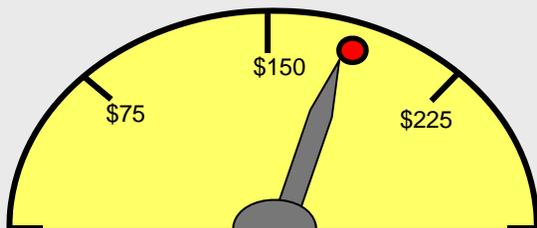
**2009 EXPENDITURES for POWER, WATER, SEWER, NATURAL GAS:**  
**\$4,327,836.72**



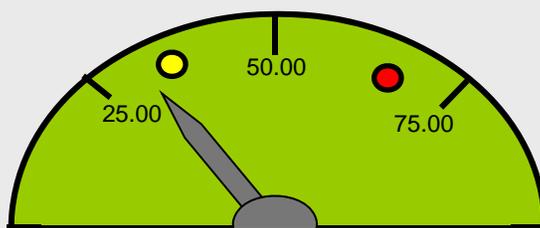
**299 Utility Bills / Month**  
**36 Schools, Centers & Sites**

- Save Resources – Our Planet!
- Teach Our Children To Conserve – For Their Future Success
- Teach Our Faculty and Community to Conserve, Save \$ At Home – For Rock Hill's Future Success

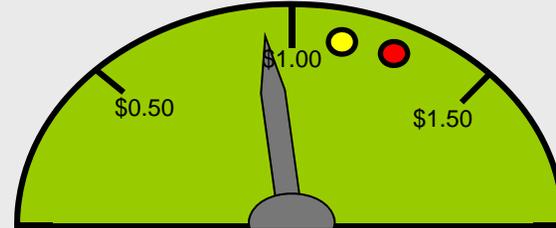




**\$180.69 / Student - Yr.**



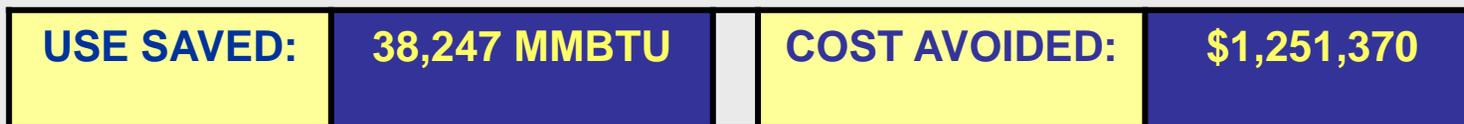
**29.98 kBtu / SF - Yr.**



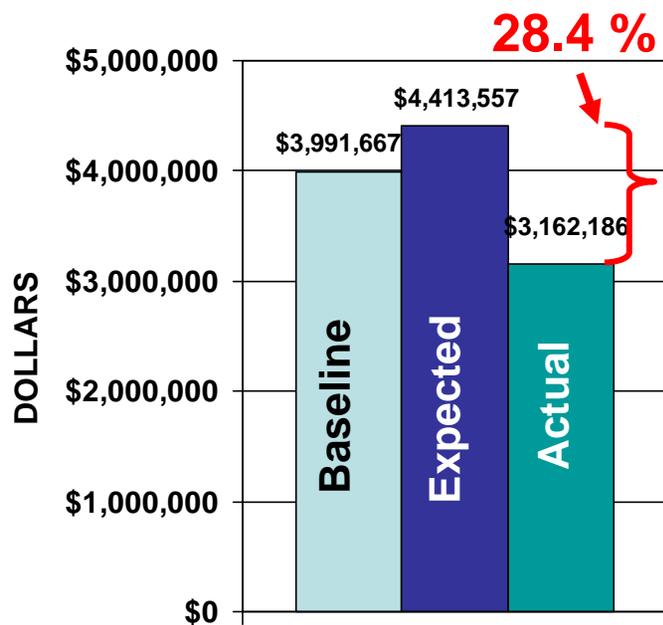
**\$0.93 / SF- Yr.**

● SC avg  
● US avg

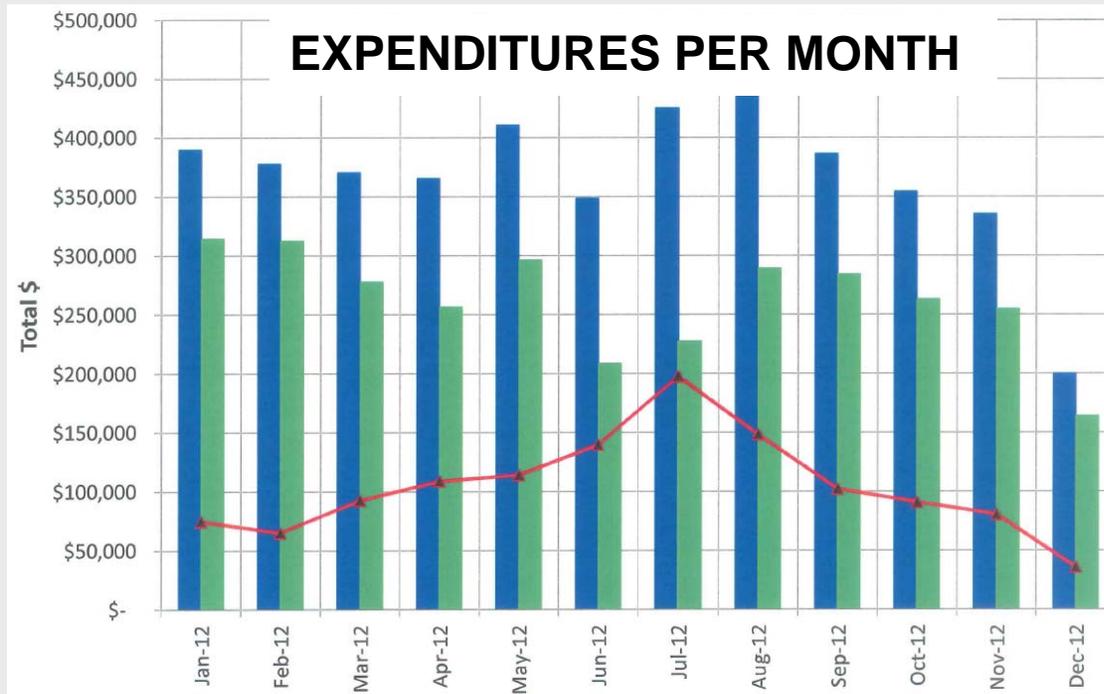
**SAVINGS PERIOD: JANUARY – DECEMBER 2012**



**BASE PERIOD: JANUARY – DECEMBER 2009**



**ELECTRICITY & NATURAL GAS**



# CARETAKERS: Energy Management



Top Energy Saving Schools!

SCHOOL	KWH's SAVED	NAT GAS THERMS SAVED	% USE SAVED	kBTU per SF	\$ COST AVOIDED	% COST AVOIDED
OAKDALE ELEM	241,620	ALL ELEC	38.6	22.60	\$45,912	48.1
RAWLINSON ROAD MIDDLE	786,782	4,572	40.8	30.1	\$101,186	42.1
CASTLE HEIGHTS MIDDLE	924,089	5,573	37.6	34.80	\$126,846	42.1
SOUTH POINTE HIGH	1,705,351	41,477	43.6	35.70	\$225,908	40.6



CHARLOTTE REGION CHAPTER  
BUILD GREEN. TEACH GREEN. LIVE GREEN.™

Celebrating Green Growth In Our Region  
October 11th, 2012  
The Ritz-Carlton, Charlotte

GREEN 2012  
GALA

& SUSTAINABLE BUSINESS AWARDS



FINALIST





### Program Goals & Initiatives

- **Enhanced energy conservation awareness**
  - Web page, newsletters, posters, decals
  - <http://www.rock-hill.k12.sc.us/departments/energygreenquest.aspx>
- **Demand Management**
  - Building Automation System adjustments
  - Alternative Rates – City Summer Load Shedding “Rider”
- **Improve classroom shutdown**
  - Contests will continue!
- **Building Automation System Enhancements:**
  - Verify real-time electrical monitoring data
  - add Natural Gas and Water consumption monitoring.
  - Active alarming operator notifications... Analytic algorithms
- **Energy Clubs in our schools!**
  - Challenge-Based Learning – Projects Guidance...





# CARETAKERS: Energy Management

AR Labeled K-12 Schools in South Carolina for All Facility Owners for All Faci - Windows Internet Explorer

Rock Hill District 3 BAS - Windows Internet Explorer

http://10.10.50.71/ord/...

File Edit View Favorites Tools Help

Google

Rock Hill District 3 BAS

ROCK HILL SCHOOL DISTRICT 3 OPERATIONS

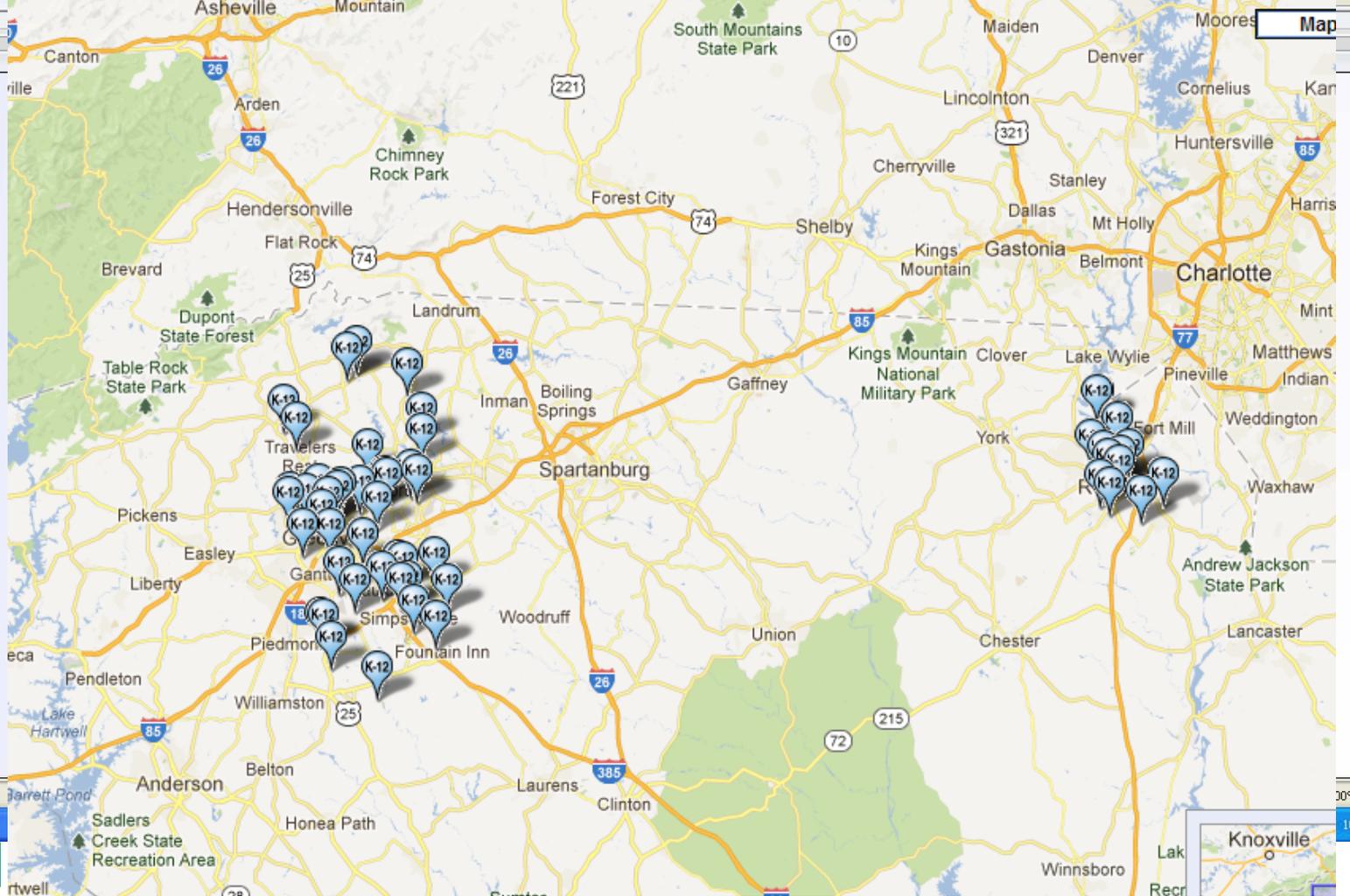
Rockhill School District  
District Page  
Saluda Trail Middle

Show as List

## ENERGY STAR Labeled Buildings & Plants

Showing ENERGY STAR Labeled K-12 Schools in South Carolina for All Facility Owners for All Facility Man

Labeled Buildings represent 6,341,336 square feet.



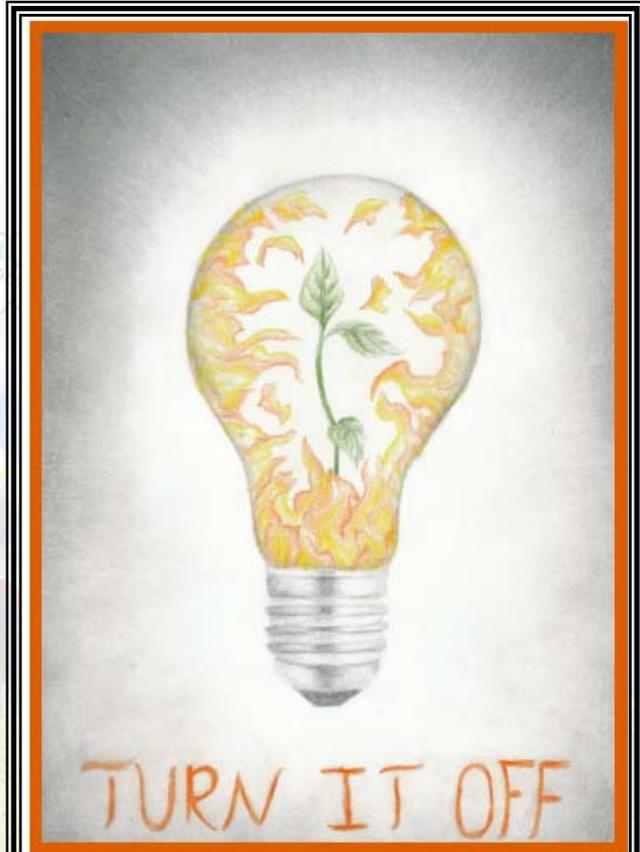
10:45 AM



**QUESTIONS?**

**Thanks for  
your support!**

Emerging Shared Vision and Beliefs    Emerging Future Focus    Nurturing



TURN IT OFF

Artwork by Nicole Smith and Leslie Ortiz-Quiroz, Rock Hill High School

**DID YOU KNOW...**

- Over 75% of the time each week there is no one in this room?
- Leaving just the computers running during this time cost our district over \$425,000 per year?
- To shut down this room using this checklist takes less than 3 minutes?

