

Summer Issue

2014-15



Go **Green** Initiative
We're a school system of choice
and our choice is green

Go Green Initiative News

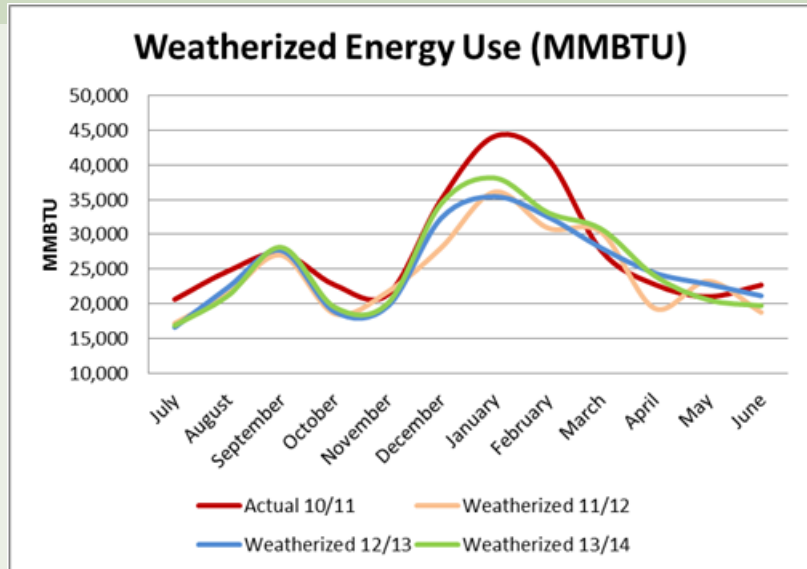
The CCS Incentive Program Winners Issue

Cumberland County Green Schools Program
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Cumberland County Schools Energy Incentive Plan 2013/2014

Since school year 2010-11, electrical kilowatt hour (kWh) usage and natural gas usage for all Cumberland County Schools has declined. To compensate for weather differences the data is normalized based on heating/cooling degree days and the cost avoidance is calculated based on the average cost of each utility. Over a three year period, our total cost avoidance was nearly **million dollars!**

This remarkable reduction in consumption can be directly attributed to: (1) the installation of more efficient equipment, building controls and lighting fixtures; (2) operational modifications justified through the day-time and night-time audits completed by our Go "Green" Coordinator, Energy Technician and other mechanical maintenance personnel, (3) enhanced preventive maintenance protocol, and (4) **conservation efforts demonstrated by school personnel and students.**



| Cost Avoidance for Normalized Electric and Natural Gas | | | | | |
|--|--|---|---|---|---|
| | Weatherized Kilo-watt Hour MMBTU Avoidance | Electrical Cost Avoidance Based on Average Cost Per MMBTU | Weatherized Natural Gas MMBTU Avoidance | NG Cost Avoidance Based on Average Cost Per MMBTU | Total Cost Avoidance Based on Average Cost Per Unit |
| 2011-2012 | 15,136 | \$414,345 | 23,034 | \$219,292 | \$633,637 |
| 2012-2013 | 21,252 | \$581,779 | 7,717 | \$73,470 | \$650,249 |
| 2013-2014 | 22,217 | \$690,159 | 1,376 | \$12,820 | \$702,979 |

Weatherized data factors in the temperature variance from one year to the next. Extreme weather conditions will have an impact on the HVAC operational hours.

Cumberland County Schools Energy Incentive Plan 2013/2014 continued from p. 1

Collectively we have diverted thousands of dollars away from our utility and waste management providers and have been able to use those funds to support the schools and improve building conditions. Schools that have effectively completed shut down procedures during the holidays, have turned off or unplugged equipment at night, have observed operating hours and temperature set points, have turned off lights when not in use are seeing results. Thank you to the schools that made a concerted effort to encourage energy education and conservation. Your willingness to educate your staff and students about using energy and water wisely and putting some of those strategies to work has saved this school system thousands of utility dollars. These dollars can now be utilized to meet other educational needs. If listed on the attached form, your school has met one of the following requirements and is eligible for the associated incentive dollars.

- Reduced electrical consumption (kWh) by 4% or more over last year.
- Reduced electrical consumption (kWh) in 2013/14 by any amount and showed a reduction in the previous two years.

Schools, meeting these requirements, will receive either 25% of their total electric savings or \$500. This year 34 schools are eligible for a portion of the **\$51,502** reallocated from the utility budget to either instructional supply or yard fund!

*Ability is what you're capable of doing.
Motivation determines what you do.
Attitude determines how well you do it.*
— Lou Holtz

Sherwood Park Elementary, John Griffin Middle, and Reid Ross Classical will each receive a bonus of \$5,000. J.W. Coon Elementary and Mary McArthur Elementary will receive a \$2,500 bonus for saving the greatest percentage.


Please consider how you would like to use this money and identify which account you would like to increase. Respond back to the **Energy Office (Allison Tew) no later than October 10, 2014**. We encourage all of you to use a portion of this money for supplies to support the Go "Green" Initiative at your school.

We thank you for actively participating in this program. Our Board of Education is committed to sustainability and conservation, encouraging all of us to spend our tax dollars wisely.

TOTAL WEATHERIZED DATA

| | Electric 2010-2011 | Natural Gas 2010-2011 | Weatherized Electric 2011-2012 | Weatherized Natural Gas 2011-2012 | Weatherized Electric 2012-2013 | Weatherized Natural Gas 2012-2013 |
|-----------------------|-----------------------|--------------------------|--------------------------------------|---|--------------------------------------|---|
| MMBTU (Usage) | 233,777 | 97,097 | 218,641 | 74,063 | 212,525 | 89,380 |
| Cost Avoidance | | | \$414,345.18 | \$219,291.53 | \$581,779.35 | \$73,469.94 |
| | | | Weatherized Electric 2013-2014 | Weatherized Natural Gas 2013-2014 | | |
| | | | 210,849 | 95,721 | | |
| | | | \$690,159.86 | \$12,819.71 | | |

Cumberland County Schools Energy Incentive Winners 2013-2014

|  | 10/11 Win- ners | 11/12 Win- ners | 12/13 Win- ners | 13/14 Win- ners | Building | 2010- 2011 kWh | 2011- 2012 kWh | 2012-2013 kWh | 2013- 2014 kWh | Elec. Cost 2013-2014 | Kwh savings | % saved | 1/4 sav- ings \$ |
|--|-----------------------|-----------------------|-----------------------|-----------------------|------------------|-------------------|-------------------|------------------|----------------------|-------------------------|----------------|------------|---------------------|
| | | | √ | √ | Abbott | 1,164,000 | 1,180,500 | 1,034,500 | 1,002,500 | \$103,886.76 | 32,000 | 3.09% | \$803 |
| √ | | √ | √ | √ | Armstrong | 497,351 | 463,631 | 398,351 | 383,952 | \$39,492.29 | 14,399 | 3.61% | \$500 |
| √ | | √ | √ | √ | Ashley | 336,429 | 310,458 | 284,864 | 270,935 | \$31,176.94 | 13,929 | 4.89% | \$500 |
| √ | | √ | √ | √ | Auman | 712,760 | 636,880 | 533,080 | 506,320 | \$58,702.14 | 26,760 | 5.02% | \$737 |
| √ | | √ | √ | √ | Byrd Middle, | 977,760 | 940,000 | 854,240 | 848,720 | \$87,461.72 | 5,520 | 0.65% | \$500 |
| | √ | √ | √ | √ | Lewis Chapel | 976,220 | 861,309 | 688,902 | 591,105 | \$62,948.15 | 97,797 | 14.20% | \$2,234 |
| √ | | √ | √ | √ | Coon | 307,872 | 277,232 | 248,352 | 232,032 | \$26,229.59 | 16,320 | 6.57% | \$500 |
| √ | √ | √ | √ | √ | Cumberland Mills | 620,398 | 515,655 | 489,532 | 473,757 | \$55,466.29 | 15,775 | 3.22% | \$500 |
| √ | | √ | √ | √ | Eastover Central | 471,484 | 436,019 | 430,716 | 430,287 | \$53,150.29 | 429 | 0.10% | \$500 |
| √ | √ | √ | √ | √ | Gallberry Farm | 945,114 | 923,756 | 917,095 | 876,721 | \$96,293.00 | 40,374 | 4.40% | \$1,060 |
| √ | | √ | √ | √ | Grays Crk Middle | 1,411,194 | 1,332,174 | 1,219,182 | 1,201,411 | \$108,116.00 | 17,771 | 1.46% | \$500 |
| √ | √ | √ | √ | √ | Griffin | 1,228,252 | 1,204,413 | 1,189,434 | 1,087,267 | \$111,441.90 | 102,167 | 8.59% | \$2,393 |
| √ | | √ | √ | √ | Howard Hall | 678,160 | 625,860 | 597,400 | 584,600 | \$62,731.00 | 12,800 | 2.14% | \$500 |
| | | | | √ | Hefner | 890,160 | 909,200 | 957,040 | 778,640 | \$79,638.57 | 178,400 | 18.64% | \$3,711 |
| √ | | √ | √ | √ | Honeycutt | 1,022,734 | 999,609 | 838,226 | 832,856 | \$83,924.00 | 5,370 | 0.64% | \$500 |
| | | √ | √ | √ | Howard Health | 278,664 | 259,304 | 202,664 | 199,560 | \$21,163.66 | 3,104 | 1.53% | \$500 |
| √ | √ | √ | √ | √ | Manchester | 284,287 | 279,487 | 266,206 | 256,260 | \$28,672.71 | 9,946 | 3.74% | \$500 |
| √ | | √ | √ | √ | McArthur | 446,509 | 402,881 | 362,690 | 337,800 | \$41,235.93 | 24,890 | 6.86% | \$707 |
| √ | √ | √ | √ | √ | Miller | 1,117,810 | 1,080,560 | 847,440 | 813,920 | \$83,124.45 | 33,520 | 3.96% | \$822 |
| | √ | √ | √ | √ | Pine Forest | 1,797,021 | 1,707,981 | 1,691,262 | 1,615,710 | \$161,375.00 | 75,552 | 4.47% | \$1,802 |
| √ | √ | √ | √ | √ | Raleigh Rd | 248,545 | 224,162 | 212,308 | 210,859 | \$23,139.17 | 1,449 | 0.68% | \$500 |
| √ | √ | √ | | √ | Ramsey St | 254,508 | 194,991 | 224,255 | 204,413 | \$23,441.70 | 19,842 | 8.85% | \$519 |
| √ | | | √ | √ | Reid Ross | 1,227,968 | 1,218,168 | 1,072,328 | 985,008 | \$98,660.62 | 87,320 | 8.14% | \$2,008 |

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Go Green Initiative
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Our Mission Statement:

The Cumberland County **Green Schools Initiative** is established to provide resources for our school community to create a climate in which the 5 guiding principles of sustainability can be developed and implemented for each school. The principles that guide our community are energy and water conservation and efficiency; reduce, reuse, and recycle our waste and pollutants. We work toward becoming stewards of our natural resources through conservation as well as the applying the other principles of sustainability we have adopted when using our resources.

The last principle, to lead by education and awareness; is to establish the habits that will decrease our footprint in our community for our future generations. Our mission is to promote environmental responsibility and develop skills to become environmental literate citizens for ourselves and our students. We will promote change toward sustainability in modeling through example and informing through education. Our staff and students commit to educating for sustainability and modeling these practices as well as promoting pollution control, waste reduction, recycling, water and energy conservation and efficiency.

Our Goals:

Teach our members**, both adult and youth, to become environmentally literate participants in our community; learning to find equitable, sustainable solutions in our complex world.

Invite other members of our community, who share our resources to become environmentally literate and practice sustainable living along with us.

Create discussions within our community to work toward sustainability and environmental literacy thereby increasing awareness and participation. Work within our community to find the best solutions for implementing our 5 guiding principles of sustainability and understand what it means to be environmentally literate.

Green Schools Program
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 Fax: 910.678.7043

We're on the Web!
go.green.ccs.k12.nc.us

Cumberland County Schools Incentive Winners cont. from page 3

| | | | | | | | | | | | | | |
|---|---|---|---|---|-------------------|-----------|-----------|-----------|-----------|--------------|--------|-------|---------|
| √ | √ | √ | √ | √ | Rockfish | 513,868 | 485,913 | 477,640 | 466,004 | \$48,969.86 | 11,636 | 2.44% | \$500 |
| √ | | √ | √ | √ | Sanford Terry | 1,633,960 | 1,552,640 | 1,538,240 | 1,498,160 | \$163,797.84 | 40,080 | 2.61% | \$1,067 |
| √ | | √ | √ | √ | Seventy-First Mid | 387,847 | 359,724 | 345,825 | 317,841 | \$39,506.34 | 27,984 | 8.09% | \$799 |
| | | √ | √ | √ | Sherwood Park | 581,200 | 489,386 | 458,608 | 413,688 | \$46,734.84 | 44,920 | 9.79% | \$1,144 |
| √ | | √ | √ | √ | South View High | 2,251,389 | 2,030,800 | 1,997,917 | 1,986,477 | \$193,804.86 | 11,440 | 0.57% | \$500 |
| | √ | √ | | √ | South View Mid | 1,194,520 | 1,049,880 | 1,051,700 | 1,002,320 | \$107,699.66 | 49,380 | 4.70% | \$1,264 |
| √ | √ | √ | √ | √ | Stedman Primary | 178,147 | 157,067 | 149,987 | 140,908 | \$16,544.86 | 9,079 | 6.05% | \$500 |
| √ | √ | √ | √ | √ | Westarea | 511,043 | 472,483 | 445,133 | 438,351 | \$46,529.10 | 6,782 | 1.52% | \$500 |
| | | √ | | √ | Westover Middle | 1,021,720 | 943,440 | 961,120 | 905,680 | \$98,723.89 | 55,440 | 5.77% | \$1,424 |
| √ | √ | √ | √ | √ | Wilkins | 279,920 | 257,640 | 237,246 | 229,848 | \$23,704.27 | 7,398 | 3.12% | \$500 |
| √ | | √ | √ | √ | Willis | 374,536 | 345,216 | 337,512 | 320,536 | \$40,421.49 | 16,976 | 5.03% | \$508 |