

Energy Management Program



Greenville County Schools

Energy Management Department



Director Of Energy Management

Bill Knight, P.E.

Energy Managers

Tim Berklich, A.C.E.M.

Part of the Energy Plan



- **Baseline and Goal**
 - **2009 Budget: Nearly \$18,000,000.00**
 - **Goal: \$3,500,000 in annual savings**
- **Actions and Projects**
 - **2.1 – Process Improvement**
 - **Lean Management – Utility Verification**
 - **Incentive Program – Results Analysis**
 - **Website**
 - **2.2 – Program Implementation**
 - **Website – Awareness**

2009
STRATEGIC ENERGY PLAN
FOR
GREENVILLE COUNTY SCHOOLS



GREENVILLE COUNTY
SCHOOLS

Where enlightening strikes

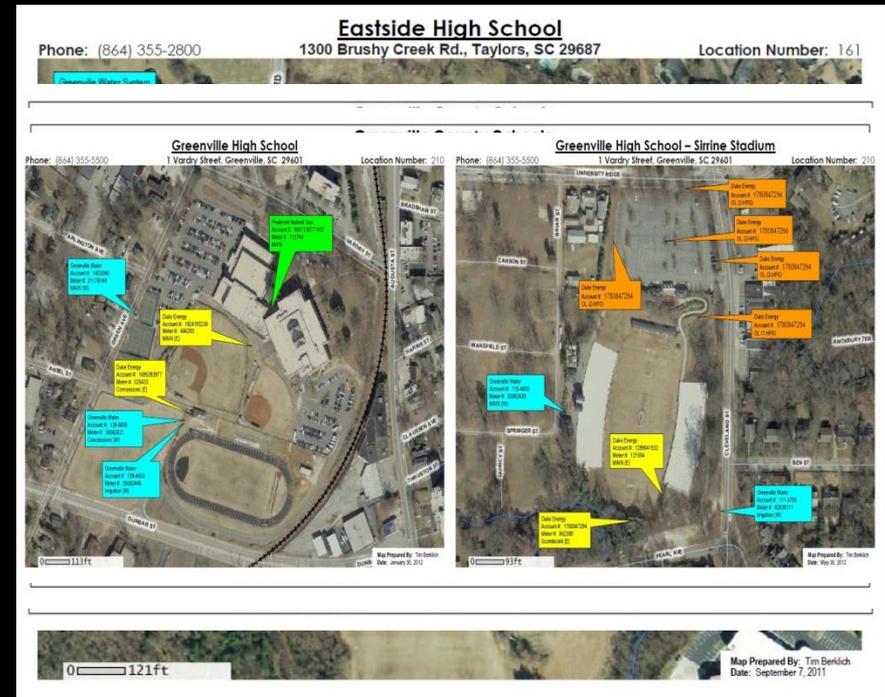
DEVELOPED BY
THE ENERGY MANAGEMENT DEPARTMENT
GREENVILLE COUNTY SCHOOLS



Utility Verification



- Purpose(s)
 1. Information verification
 2. To ensure that all of our utilities are used and in proper working condition
 - Electric, Gas, Water, Leased Lighting, Etc.
 3. To establish a system that will allow for quick locating of each utility meter for maintenance and emergency situations
- Process
 1. Physically locate and observe each meter or leased light
 2. Verify meter number and cross reference with account number
 3. Record location, meter number and account number
 4. Contact utility company in the even of any discrepancies
 5. Record all information on GPS maps



Incentive Program



- Purpose(s)

- Reward schools who are making an effort to save energy
- Promote participation with energy management requests
- Promote compliance with energy management mandates
- Create competition between schools

- Process

- Compare each school's consumption with their own consumption during the same time the previous year
- Compare all schools by the percentage of their consumption decrease/increase
- Reward schools with the largest percentage of consumption decrease
- Send results to principals

MIDDLE SCHOOLS: Yearly 2013-2014 Energy Savings

1 - Kwh and Therm data retrieved from Utility Manager
 2 - If you have any questions, please call your energy manager.

3 - Color Key = ■ Winner
■ Consumption Decrease
■ Consumption Increase

Site	Electricity (kWh)										KWh Savings	
	2012-2013					2013-2014					Difference	% Change
	1st	2nd	3rd	4th	TOTAL	1st	2nd	3rd	4th	TOTAL		
Greenville MS 205	257,202	301,786	189,917	240,188	989,093	235,378	280,617	176,556	205,775	898,326	-90,767	-9.18%
Blue Ridge MS 082	269,083	296,205	183,867	238,560	987,715	250,029	274,782	179,061	209,676	913,548	-74,167	-7.51%
Berea MS 062	305,454	272,178	180,775	212,714	971,121	239,828	281,790	183,674	215,231	920,523	-50,598	-5.21%
Sterling School 054	251,678	300,613	206,678	213,000	971,969	238,968	291,097	196,839	210,258	937,162	-34,807	-3.58%
League Academy MS 263	235,500	261,163	173,182	208,374	878,219	237,014	251,747	164,940	208,084	861,785	-16,434	-1.87%
Greer MS 123	232,665	276,184	174,084	198,444	881,377	230,101	256,395	174,128	204,777	865,401	-15,976	-1.81%
Mauldin MS 274	241,620	270,874	183,337	189,967	885,798	228,689	271,846	165,409	218,058	884,002	-1,796	-0.20%
Beck MS 056	215,006	228,384	157,566	176,359	777,315	216,818	228,073	153,707	183,426	782,024	4,709	0.61%
Tanglewood MS 444	180,689	210,246	136,672	167,590	695,197	196,454	202,575	136,469	167,881	703,379	8,182	1.18%
Hughes Academy MS 240	263,201	289,412	193,631	214,950	961,194	259,693	294,326	190,075	231,750	975,844	14,650	1.52%
Riverside MS 352	257,348	286,251	183,035	216,482	943,116	290,891	273,892	175,981	217,204	967,968	14,852	1.57%
Lakeview MS 385	188,683	222,062	158,242	163,979	733,966	194,750	233,087	153,179	168,488	749,504	16,538	2.26%
Northwest MS 303	201,040	223,946	150,831	178,533	754,350	216,632	225,946	147,229	185,409	775,216	20,866	2.77%
Northwood MS 386	222,799	237,269	150,088	195,480	805,636	222,424	243,135	165,790	197,052	828,401	22,765	2.83%
Bryson MS 072	242,347	298,979	204,579	217,869	963,774	260,284	315,676	201,594	214,583	992,137	28,363	2.94%
Hillcrest MS 277	206,635	247,240	169,485	182,608	805,968	213,468	257,384	169,835	193,309	833,996	28,028	3.48%
Woodmont MS 510	225,354	278,639	180,494	223,413	907,900	240,490	288,116	187,474	224,889	940,969	33,069	3.64%
Sevier MS 389	168,159	193,758	126,906	137,990	626,813	176,079	199,917	133,598	149,665	659,259	32,446	5.18%
Ralph Chandler MS 403	192,658	217,247	156,825	176,209	742,939	206,041	244,085	160,750	186,004	796,880	53,941	7.26%
Middle Subtotals:	4,387,121	4,912,436	3,260,194	3,752,709	16,282,460	4,354,031	4,914,486	3,216,288	3,791,519	16,276,324	-6,136	-0.04%

Website



- Purpose(s)
 - To effectively deliver, to all stakeholders, news and information regarding the Energy Management program
- Sub-Pages
 - Schools
 - Contacts
 - Continuous Improvement Projects
 - Procedures and Recommendations
 - Energy Star
 - Contests
 - News and Updates
 - Downloads
- Web Address
 - <http://www.greenville.k12.sc.us/Department/s/main.asp?titleid=em>

A screenshot of the Greenville County Schools website's Energy Management page. The page has a white background with a blue header. The header includes the Greenville County Schools logo (a stylized 'G' with a sun) and the text "GREENVILLE COUNTY SCHOOLS Where Enlightening Strikes! Greenville, South Carolina". Navigation links for "Students & Parents", "Employees", "Departments", and "Employment" are in the top right. A blue banner on the right says "Watch The Schools Channel on Charter Channel 190 & U-verse Channel 99". The main content area is titled "Energy Management" and contains text about the department's mission and a link to "About Us". A sidebar on the left lists various departments and sections like "The Essentials", "Schools", "Board of Trustees", "Calendar", "Policies", and "Contact Us". At the bottom, there are social media icons for Sun, Email, Instagram, Facebook, Twitter, and YouTube, along with copyright information and a contact number.

Energy Management



Questions?