

**REQUEST FOR BOARD ACTION**

**HENDERSON COUNTY  
BOARD OF COMMISSIONERS**

**MEETING DATE:** Wednesday, July 20, 2011

**SUBJECT:** Energy Management Update

**PRESENTER:** Marcus Jones

**ATTACHMENTS:** Yes,  
1. Energy Management Data

**SUMMARY OF REQUEST:**

The attachment provides information to the Board about the County's energy management use in the areas of electricity, natural gas, and water. It compares the fourth quarter with previous years to show historical trends. The second comparison shows the Fiscal Year in comparison with past fiscal years.

Fuel data was not included in this quarter due to inaccurate information; fuel data from the fourth quarter and the end of FY 2011 will be reported with the first quarter of FY 2012.

**BOARD ACTION REQUESTED:**

No Board action is requested. This item is for informational purposes only.

**Suggested Motion:**

*No motion suggested.*

**Energy and Fuel Reduction Plan Status by Quarter (April  
to June)  
July 20, 2011**

## Electric (in KWH) by Quarter (April to June)

Departments	Apr 08 to June 08	Apr 09 to June 09	Apr 10 to June 10	Apr 11 to June 11	% Change 08 and 09	% Change 08 and 10	% Change 08 and 11	% Change 09 and 10	% Change 09 and 11	% Change 10 and 11
95 Courthouse	482,880	498,432	487,680	472,512	3.2%	1.0%	-2.1%	-2.2%	-5.2%	-3.1%
Animal Services	53,420	31,400	37,720	43,640	-41.2%	-29.4%	-18.3%	20.1%	39.0%	15.7%
Board of Elections	10,381	6,607	8,827	7,644	-36.4%	-15.0%	-26.4%	33.6%	15.7%	-13.4%
Central Services	10,571	11,015	11,122	9,955	4.2%	5.2%	-5.8%	1.0%	-9.6%	-10.5%
CNG Station				2,000						
Cooperative Extension	18,341	14,235	14,593	12,795	-22.4%	-20.4%	-30.2%	2.5%	-10.1%	-12.3%
Emergency Services	23,023	23,319	24,148	25,385	1.3%	4.9%	10.3%	3.6%	8.9%	5.1%
Historic Courthouse	172,436	144,396	100,564	98,098	-16.3%	-41.7%	-43.1%	-30.4%	-32.1%	-2.5%
Human Services	328,654	337,857	321,452	328,870	2.8%	-2.2%	0.1%	-4.9%	-2.7%	2.3%
King Street Building	119,325	109,469	126,166	109,457	-8.3%	5.7%	-8.3%	15.3%	0.0%	-13.2%
Library	222,821	214,857	163,420	97,331	-3.6%	-26.7%	-56.3%	-23.9%	-54.7%	-40.4%
Recreation	136,697	128,613	137,787	133,587	-5.9%	0.8%	-2.3%	7.1%	3.9%	-3.0%
Sheriff	277,375	296,251	289,126	275,654	6.8%	4.2%	-0.6%	-2.4%	-7.0%	-4.7%
Solid Waste	46,661	23,040	21,502	18,080	-50.6%	-53.9%	-61.3%	-6.7%	-21.5%	-15.9%
Travel & Tourism	24,827	22,385	25,424	20,790	-9.8%	2.4%	-16.3%	13.6%	-7.1%	-18.2%
Utilities	39,864	42,109	39,620	40,946	5.6%	-0.6%	2.7%	-5.9%	-2.8%	3.3%
Youth	22,315	17,115	18,635	18,815	-23.3%	-16.5%	-15.7%	8.9%	9.9%	1.0%
<b>Total</b>	<b>1,989,591</b>	<b>1,921,100</b>	<b>1,827,786</b>	<b>1,715,559</b>	<b>-3.4%</b>	<b>-8.1%</b>	<b>-13.8%</b>	<b>-4.9%</b>	<b>-10.7%</b>	<b>-6.1%</b>

## Gas (in therms) by Quarter (April to June)

Department	Apr 08 to June 08	Apr 09 to June 09	Apr 10 to June 10	Apr 11 to June 11	% Change 08 and 09	% Change 08 and 10	% Change 08 and 11	% Change 09 and 10	% Change 09 and 11	% Change 10 and 11
95 Courthouse	6,045	4,399	4,174	5,460	-27.2%	-31.0%	-9.7%	-5.1%	24.1%	30.8%
Board of Elections	79	120	61	72	51.9%	-22.8%	-8.9%	-49.2%	-40.0%	18.0%
Central Services*	819	764	395	331	-6.7%	-51.8%	-59.6%	-48.3%	-56.7%	-16.2%
CNG Station				294						
Emergency Services	407	433	230	302	6.4%	-43.5%	-25.8%	-46.9%	-30.3%	31.3%
Historic Courthouse	2,180	2,064	2,132	2,319	-5.3%	-2.2%	6.4%	3.3%	12.4%	8.8%
Human Services	4,952	4,878	4,174	5,499	-1.5%	-15.7%	11.0%	-14.4%	12.7%	31.7%
King Street Building	141	87	26	35	-38.3%	-81.6%	-75.2%	-70.1%	-59.8%	34.6%
Library	493	618	644	634	25.4%	30.6%	28.6%	4.2%	2.6%	-1.6%
Sheriff	4,490	3,932	3,020	3,342	-12.4%	-32.7%	-25.6%	-23.2%	-15.0%	10.7%
<b>Total</b>	<b>19,606</b>	<b>17,295</b>	<b>14,856</b>	<b>18,288</b>	<b>-11.8%</b>	<b>-24.2%</b>	<b>-6.7%</b>	<b>-14.1%</b>	<b>5.7%</b>	<b>23.1%</b>

\* 1347 Spartanburg Highway temporarily listed to Central Services

## Water (in Gallons) by Quarter (April to June)

Dept	Apr 08 to June 08	Apr 09 to June 09	Apr 10 to June 10	Apr 11 to June 11	% Change 08 and 09	% Change 08 and 10	% Change 08 and 11	% Change 09 and 10	% Change 09 and 11	% Change 10 and 11
95 Courthouse	1,000,000	938,400	1,065,300	1,320,300	-6.2%	6.5%	32.0%	13.5%	40.7%	23.9%
Animal Services	36,700	40,800	47,200	41,900	11.2%	28.6%	14.2%	15.7%	2.7%	-11.2%
Board of Elections	4,200	2,300	0	4,200	-45.2%		0.0%		82.6%	
Central Services	4,400	4,800	9,300	8,100	9.1%	111.4%	84.1%	93.8%	68.8%	-12.9%
Cooperative Extension	131,500	129,500	180,000	139,000	-1.5%	36.9%	5.7%	39.0%	7.3%	-22.8%
Emergency Services	23,200	23,300	17,900	58,000	0.4%	-22.8%	150.0%	-23.2%	148.9%	224.0%
Historic Courthouse	16,600	10,400	8,900	10,400	-37.3%	-46.4%	-37.3%	-14.4%	0.0%	16.9%
Historical Society	15,600									
Human Services	116,300	112,400	112,700	118,900	-3.4%	-3.1%	2.2%	0.3%	5.8%	5.5%
King Street Building	8,900	7,200	9,400	10,500	-19.1%	5.6%	18.0%	30.6%	45.8%	11.7%
Library	158,000	154,000	167,000	181,500	-2.5%	5.7%	14.9%	8.4%	17.9%	8.7%
Parks & Recreation	80,000	106,000	100,700	101,900	32.5%	25.9%	27.4%	-5.0%	-3.9%	1.2%
Sheriff	114,200	97,000	88,800	100,500	-15.1%	-22.2%	-12.0%	-8.5%	3.6%	13.2%
Solid Waste	56,000	70,400	135,500	78,100	25.7%	142.0%	39.5%	92.5%	10.9%	-42.4%
Travel & Tourism	33,600	21,700	19,800	21,200	-35.4%	-41.1%	-36.9%	-8.8%	-2.3%	7.1%
Utilities	2,800	6,500	2,500	1,300	132.1%	-10.7%	-53.6%	-61.5%	-80.0%	-48.0%
Youth	69,500	40,400	33,100	40,800	-41.9%	-52.4%	-41.3%	-18.1%	1.0%	23.3%
<b>Total</b>	<b>1,871,500</b>	<b>1,765,100</b>	<b>1,998,100</b>	<b>2,236,600</b>	<b>-5.7%</b>	<b>6.8%</b>	<b>19.5%</b>	<b>13.2%</b>	<b>26.7%</b>	<b>11.9%</b>

**Energy and Fuel Reduction Plan Status by Fiscal Year  
July 20, 2011**

## Electric (in KWH) used by Fiscal Year

Department	FY 2008	FY 2009	FY 2010	FY 2011	% Change 08 and 09	% Change 08 and 10	% Change 08 and 11	% Change 09 and 10	% Change 09 and 11	% Change 10 and 11
95 Courthouse	2,037,888	1,947,840	1,950,336	1,936,896	-4.4%	-4.3%	-5.0%	0.1%	-0.6%	-0.7%
Animal Services	223,867	155,680	182,360	213,440	-30.5%	-18.5%	-4.7%	17.1%	37.1%	17.0%
Board of Elections	45,461	35,598	34,975	37,253	-21.7%	-23.1%	-18.1%	-1.8%	4.6%	6.5%
Central Services	80,904	63,998	48,162	44,239	-20.9%	-40.5%	-45.3%	-24.7%	-30.9%	-8.1%
CNG Station				6,160						
Cooperative Extension	126,876	79,882	84,163	70,134	-37.0%	-33.7%	-44.7%	5.4%	-12.2%	-16.7%
Emergency Services	122,758	115,609	125,196	119,775	-5.8%	2.0%	-2.4%	8.3%	3.6%	-4.3%
Historic Courthouse	373,311	585,688	542,336	590,508	56.9%	45.3%	58.2%	-7.4%	0.8%	8.9%
Human Services	1,538,980	1,378,404	1,309,734	1,385,247	-10.4%	-14.9%	-10.0%	-5.0%	0.5%	5.8%
King Street Building	593,894	494,400	515,575	509,753	-16.8%	-13.2%	-14.2%	4.3%	3.1%	-1.1%
Library	843,581	786,457	670,216	628,489	-6.8%	-20.6%	-25.5%	-14.8%	-20.1%	-6.2%
Recreation	473,991	462,036	541,725	555,213	-2.5%	14.3%	17.1%	17.2%	20.2%	2.5%
Sheriff	1,295,225	1,307,040	1,270,091	1,329,533	0.9%	-1.9%	2.6%	-2.8%	1.7%	4.7%
Solid Waste	177,496	97,820	92,721	84,476	-44.9%	-47.8%	-52.4%	-5.2%	-13.6%	-8.9%
Travel & Tourism	113,409	106,302	118,291	119,814	-6.3%	4.3%	5.6%	11.3%	12.7%	1.3%
Utilities	145,310	146,738	142,732	174,750	1.0%	-1.8%	20.3%	-2.7%	19.1%	22.4%
Youth	97,380	92,160	87,640	90,540	-5.4%	-10.0%	-7.0%	-4.9%	-1.8%	3.3%
<b>Total</b>	<b>8,290,331</b>	<b>7,855,652</b>	<b>7,716,253</b>	<b>7,896,220</b>	<b>-5.2%</b>	<b>-6.9%</b>	<b>-4.8%</b>	<b>-1.8%</b>	<b>0.5%</b>	<b>2.3%</b>

## Gas (in therms) used by Fiscal Year

Dept.	FY 2008	FY 2009	FY 2010	FY 2011	% Change 08 and 09	% Change 08 and 10	% Change 08 and 11	% Change 09 and 10	% Change 09 and 11	% Change 10 and 11
95 Courthouse	25,662	29,413	28,012	33,349	14.6%	9.2%	30.0%	-4.8%	13.4%	19.1%
Board of Elections	1,136	1,274	1,799	1,742	12.1%	58.4%	53.3%	41.2%	36.7%	-3.2%
Central Services	6,402	7,081	7,093	3,935	10.6%	10.8%	-38.5%	0.2%	-44.4%	-44.5%
CNG Station				740						
Emergency Services	3,294	4,404	4,538	4,373	33.7%	37.8%	32.8%	3.0%	-0.7%	-3.6%
Historic Courthouse	9,815	12,865	13,449	12,253	31.1%	37.0%	24.8%	4.5%	-4.8%	-8.9%
Human Services	35,959	26,193	24,662	24,335	-27.2%	-31.4%	-32.3%	-5.8%	-7.1%	-1.3%
King Street Building	1,143	1,131	1,151	1,176	-1.0%	0.7%	2.9%	1.8%	4.0%	2.2%
Library	6,417	8,478	10,067	9,941	32.1%	56.9%	54.9%	18.7%	17.3%	-1.3%
Sheriff	28,091	31,288	29,608	16,632	11.4%	5.4%	-40.8%	-5.4%	-46.8%	-43.8%
<b>Total</b>	<b>117,919</b>	<b>122,127</b>	<b>120,379</b>	<b>108,476</b>	<b>3.6%</b>	<b>2.1%</b>	<b>-8.0%</b>	<b>-1.4%</b>	<b>-11.2%</b>	<b>-9.9%</b>



## Water (in Gallons) for Fiscal Year

Dept	FY 2008	FY 2009	FY 2010	FY 2011	% Change 08 and 09	% Change 08 and 10	% Change 08 and 11	% Change 09 and 10	% Change 09 and 11	% Change 10 and 11
95 Courthouse	4,250,000	3,773,200	4,498,100	5,200,300	-11.2%	5.8%	22.4%	19.2%	37.8%	15.6%
Animal Services	242,600	176,400	184,700	189,500	-27.3%	-23.9%	-21.9%	4.7%	7.4%	2.6%
Board of Elections	12,300	13,600	6,200	6,000	10.6%	-49.6%	-51.2%	-54.4%	-55.9%	-3.2%
Central Services	25,200	18,300	24,400	32,500	-27.4%	-3.2%	29.0%	33.3%	77.6%	33.2%
Cooperative Extension	387,500	472,000	482,000	407,500	21.8%	24.4%	5.2%	2.1%	-13.7%	-15.5%
Emergency Services	91,800	84,700	193,800	128,900	-7.7%	111.1%	40.4%	128.8%	52.2%	-33.5%
Historic Courthouse	79,000	45,600	39,500	43,900	-42.3%	-50.0%	-44.4%	-13.4%	-3.7%	11.1%
Historical Society	84,200	26,200			-68.9%					
Human Services	447,300	472,700	461,900	450,300	5.7%	3.3%	0.7%	-2.3%	-4.7%	-2.5%
King Street Building	34,500	28,400	35,100	39,200	-17.7%	1.7%	13.6%	23.6%	38.0%	11.7%
Library	724,300	644,700	611,000	665,700	-11.0%	-15.6%	-8.1%	-5.2%	3.3%	9.0%
Parks & Recreation	290,200	329,900	370,000	471,100	13.7%	27.5%	62.3%	12.2%	42.8%	27.3%
Sheriff	514,700	472,100	383,500	432,600	-8.3%	-25.5%	-16.0%	-18.8%	-8.4%	12.8%
Solid Waste	364,400	481,300	565,000	502,500	32.1%	55.0%	37.9%	17.4%	4.4%	-11.1%
Travel & Tourism	183,800	121,300	92,800	98,800	-34.0%	-49.5%	-46.2%	-23.5%	-18.5%	6.5%
Utilities	21,900	12,800	22,900	5,100	-41.6%	4.6%	-76.7%	78.9%	-60.2%	-77.7%
Youth	228,800	202,600	191,400	166,200	-11.5%	-16.3%	-27.4%	-5.5%	-18.0%	-13.2%
<b>Total</b>	<b>7,982,500</b>	<b>7,375,800</b>	<b>8,162,300</b>	<b>8,840,100</b>	<b>-7.6%</b>	<b>2.3%</b>	<b>10.7%</b>	<b>10.7%</b>	<b>19.9%</b>	<b>8.3%</b>