Western Carolina University

Utilities at a Glance

Western Carolina University Utilities

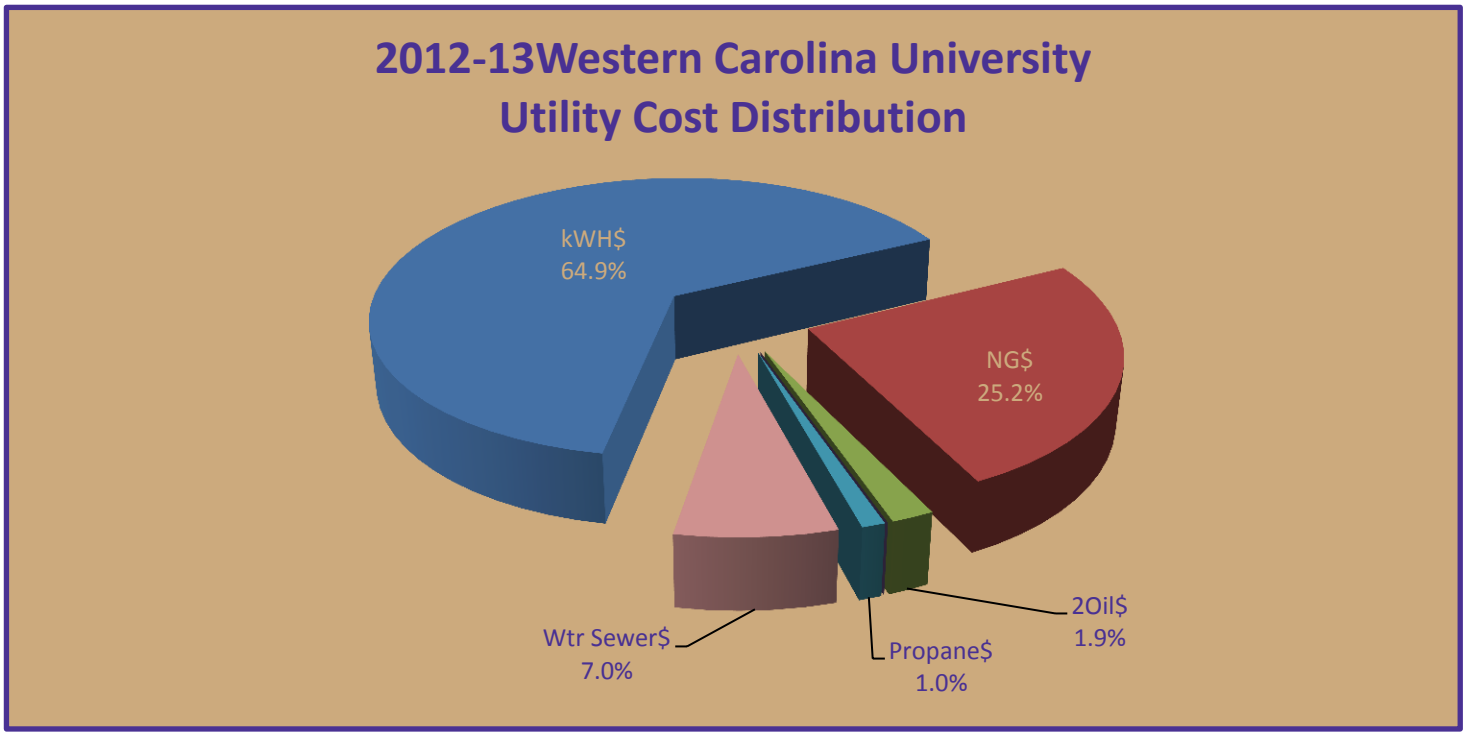
Metric	Basline 2002-2003	Current 2012-2013	% change
Gross square feet	2,355,330	3,105,538	32%
Btu per square foot per year	178,603	113,328	-37%
Cost per million Btu	$ 6.36	$ 11.44	80%
Total Avoided Cost		$19,271,761.79	
Electric consumption in kWh	34,665,600	44,414,400	28%
Electric Cost	$ 1,604,515	$ 2,811,271	75%
Natural Gas consumption in Therms	1,444,810	1,944,331	35%
Natural Gas Cost	$ 111,053	$ 1,089,997	882%
#2 Fuel oil gallons	47,971	23,359	-51%
#2 Fuel oil cost	$ 51,114	$ 82,008	60%
#6 Fuel oil gallons	996,969	1,000	-100%
#6 Fuel oil cost	$ 888,599	$ -	-100%
Propane gallons	22,026	28,161	28%
Propane cost	$ 21,038	$ 44,733	113%
Steam thousands of pounds	0	0	%
Steam cost	$ -	$ -	%
Chilled Water tons	0	0	%
Chilled Water cost	$ -	$ -	%
Water thousands of gallons	122,056	97,328	-20%
Water & Sewer cost	$ 399,494	$ 305,501	-24%

Western Carolina University

Year End Utility Comparison

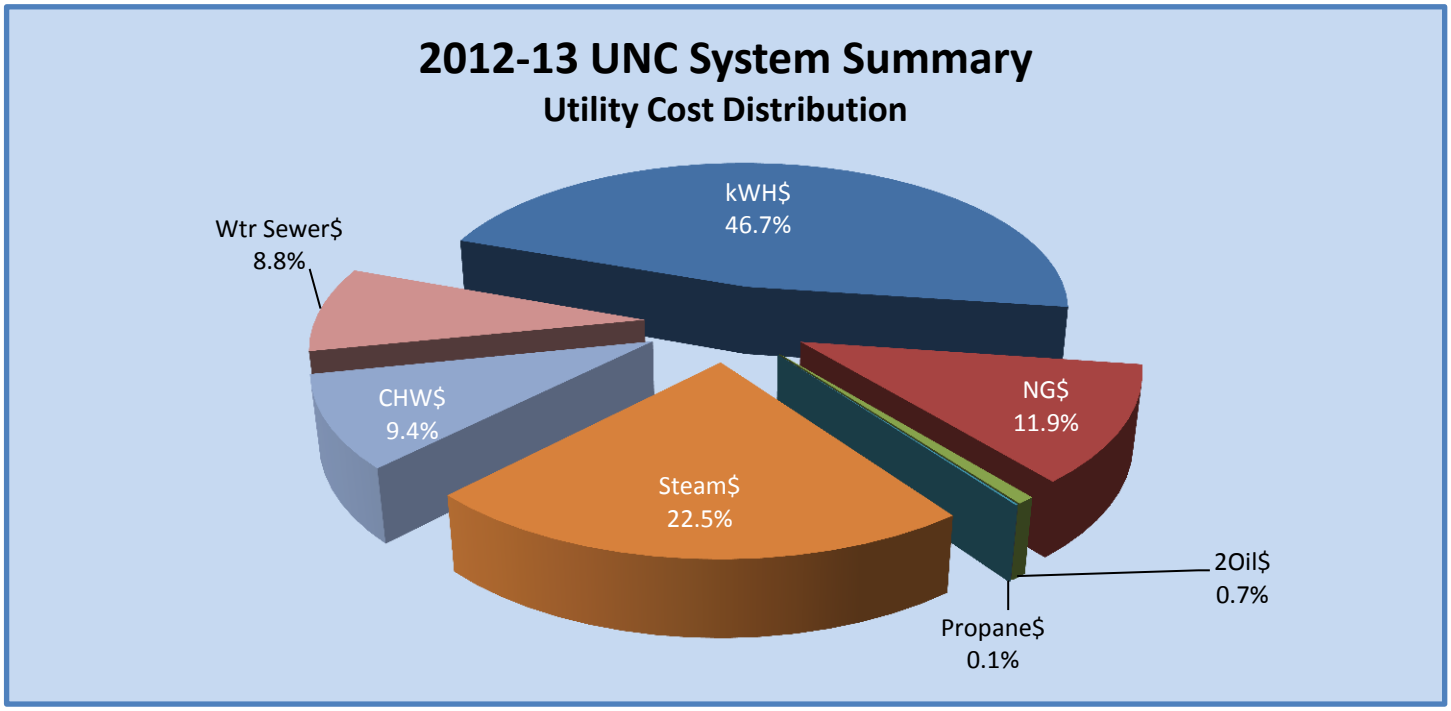
Western Carolina University Utilities Summary 2012-2013

kWH$	NG$	2Oil$	6Oil$	Propane$	Steam$	CHW$	Wtr Sewer$	Total Utility $
$ 2,811,271	$ 1,089,997	$ 82,008	$ -	$ 44,733			$ 305,501	$ 4,333,509



UNC System Utilities Summary 2012-2013

kWH$	NG$	2Oil$	6Oil$	Propane$	Steam$	CHW$	Wtr Sewer$	Total Utility $
$ 104,643,363	$ 26,628,783	$ 1,672,289	$ -	$ 231,284	$ 50,388,003	$ 21,078,810	$ 19,649,373	$ 224,291,905

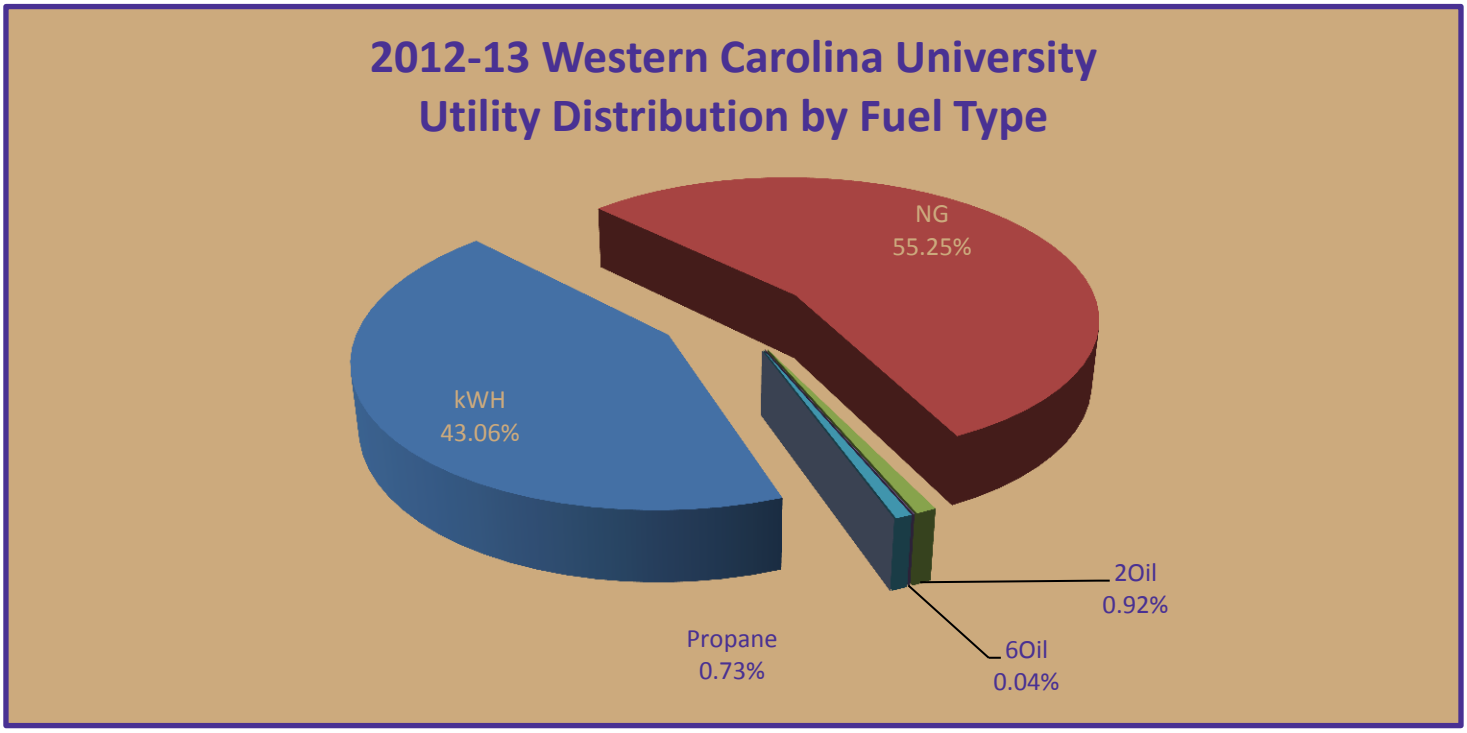


Western Carolina University

Year End Btu by Fuel Type for 2012-2013

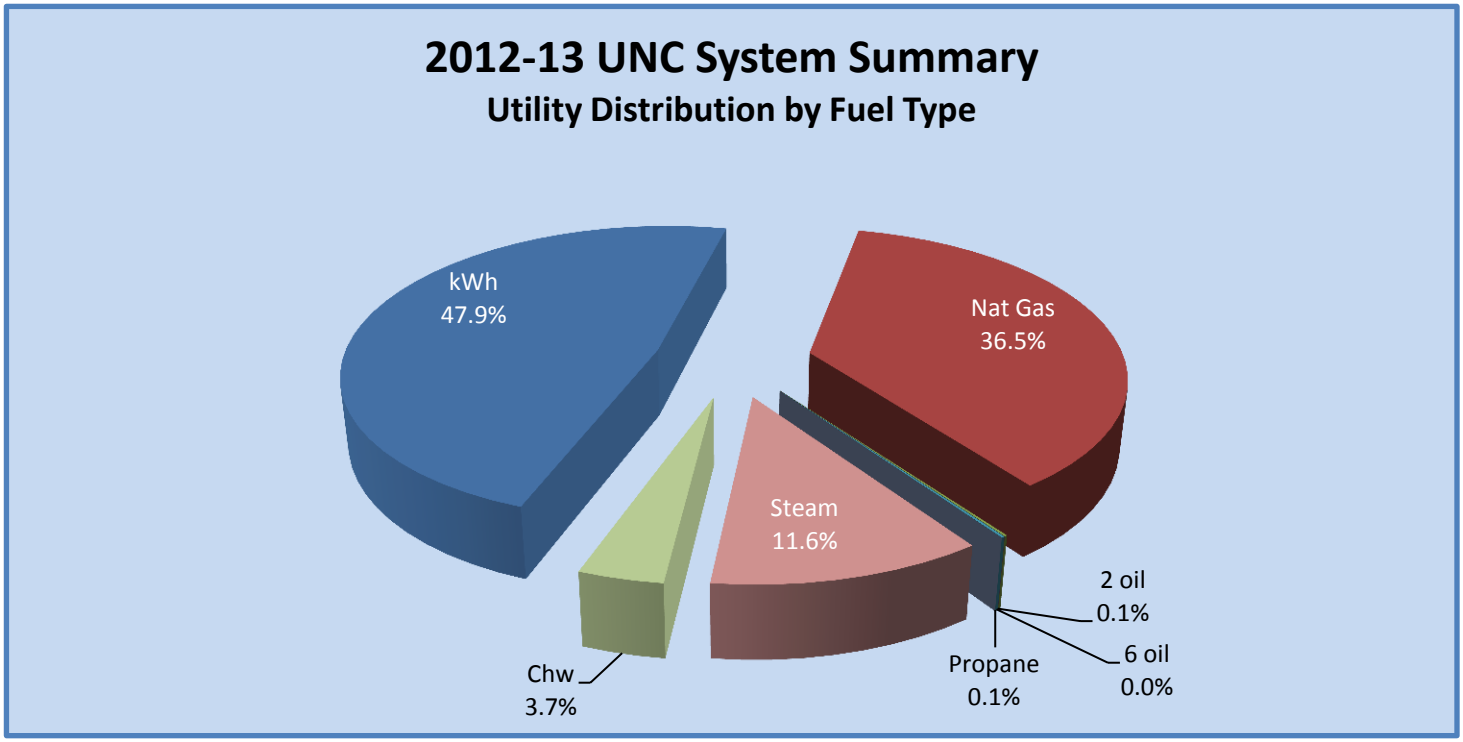
Western Carolina University Btu by Fuel Type 2012-2013

kWH	NG	2Oil	6Oil	Propane	Steam	CHW	Total Btu
151,541,932,800	194,433,100,000	3,239,712,997	149,690,500	2,580,853,504	0	0	351,945,289,801



UNC System Btu by Fuel Type 2012-2013

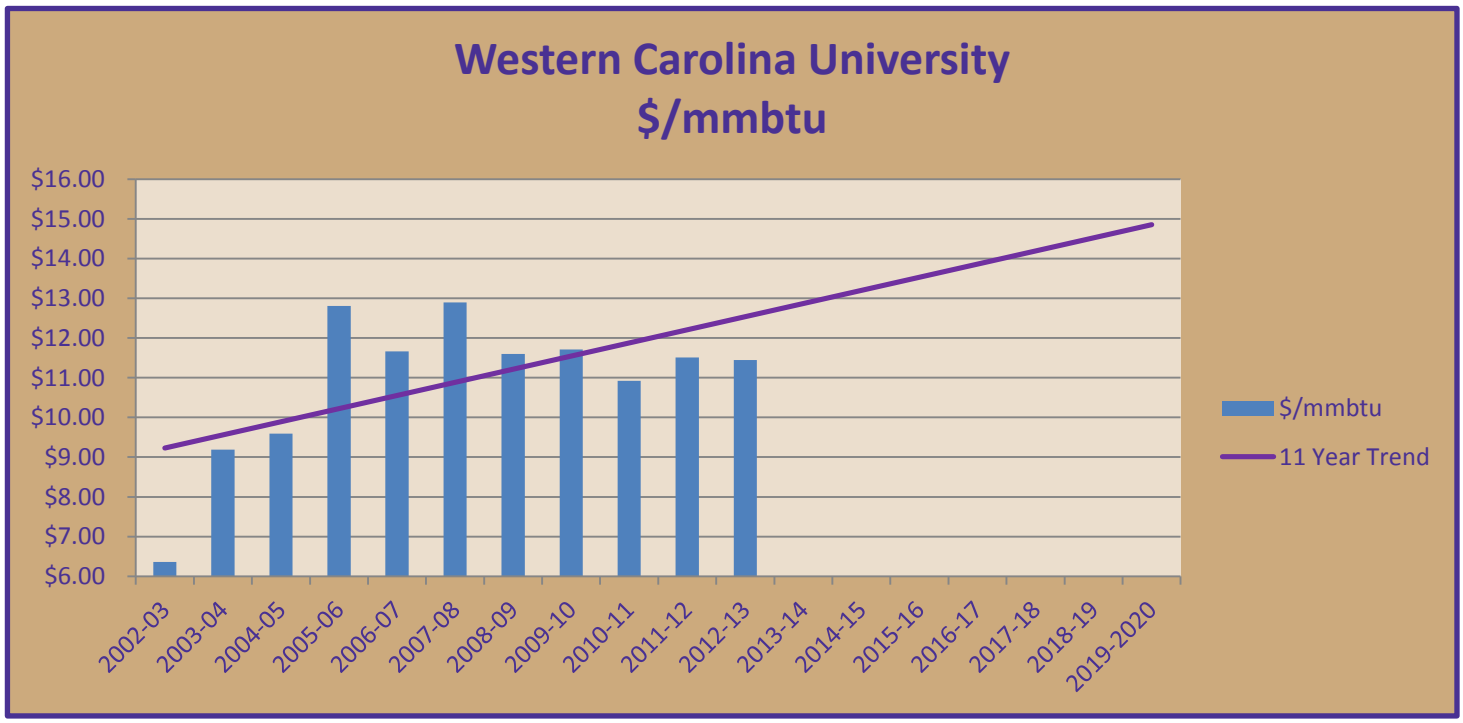
kWH	NG	2Oil	6Oil	Propane	Steam	CHW	Total Btu
4,866,580,518,980	4,474,683,440,000	75,369,049,963	149,690,500	17,786,063,206	1,326,611,610,000	322,105,202,620	11,083,285,575,269



11 Year Energy $/mmbtu Evaluation 2003-2013 & Trend Through 2020

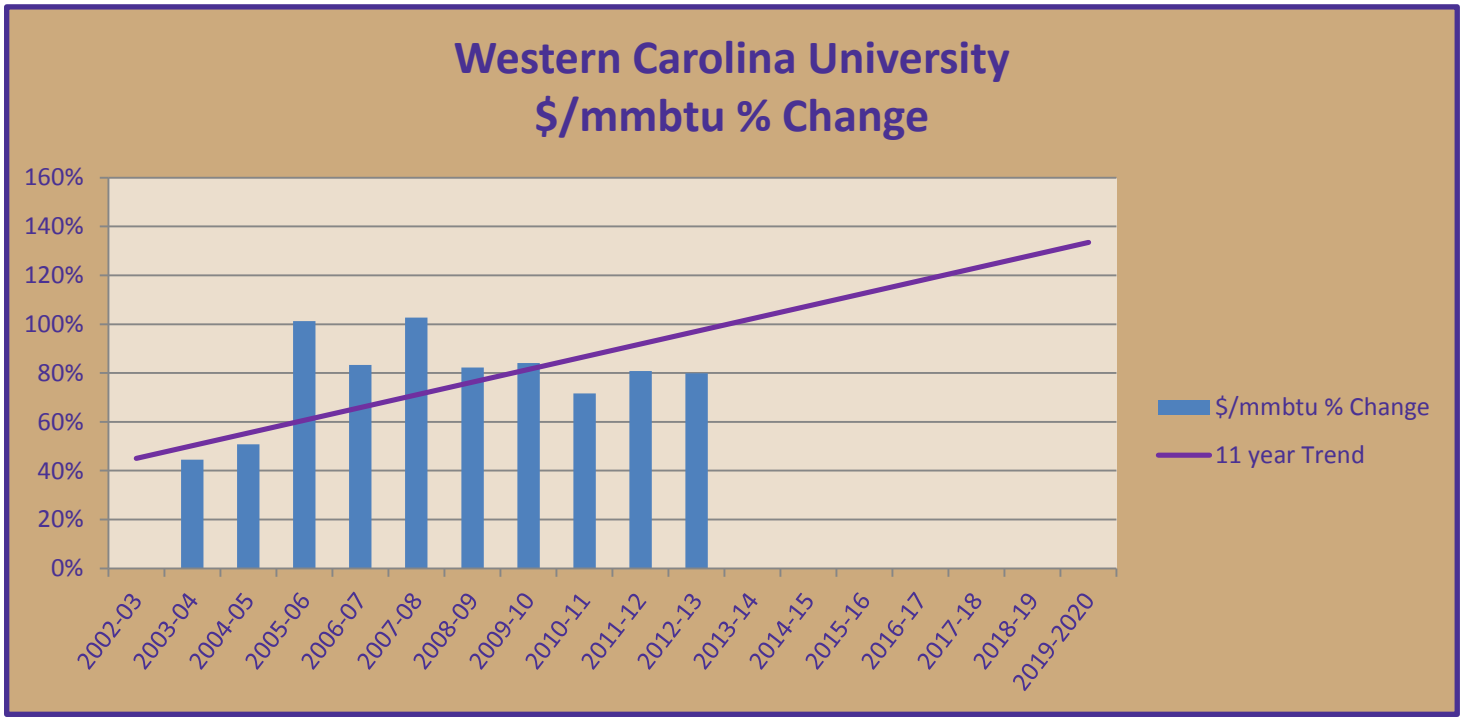
Western Carolina University Energy $/mmbtu

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
$ 6.36	$ 9.19	$ 9.60	$ 12.81	$ 11.66	$ 12.90	$ 11.60	$ 11.71	$ 10.92
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
$ 11.51	$ 11.44							



Western Carolina University Energy $/mmbtu % Change

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
0%	44%	51%	101%	83%	103%	82%	84%	72%
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
81%	80%							

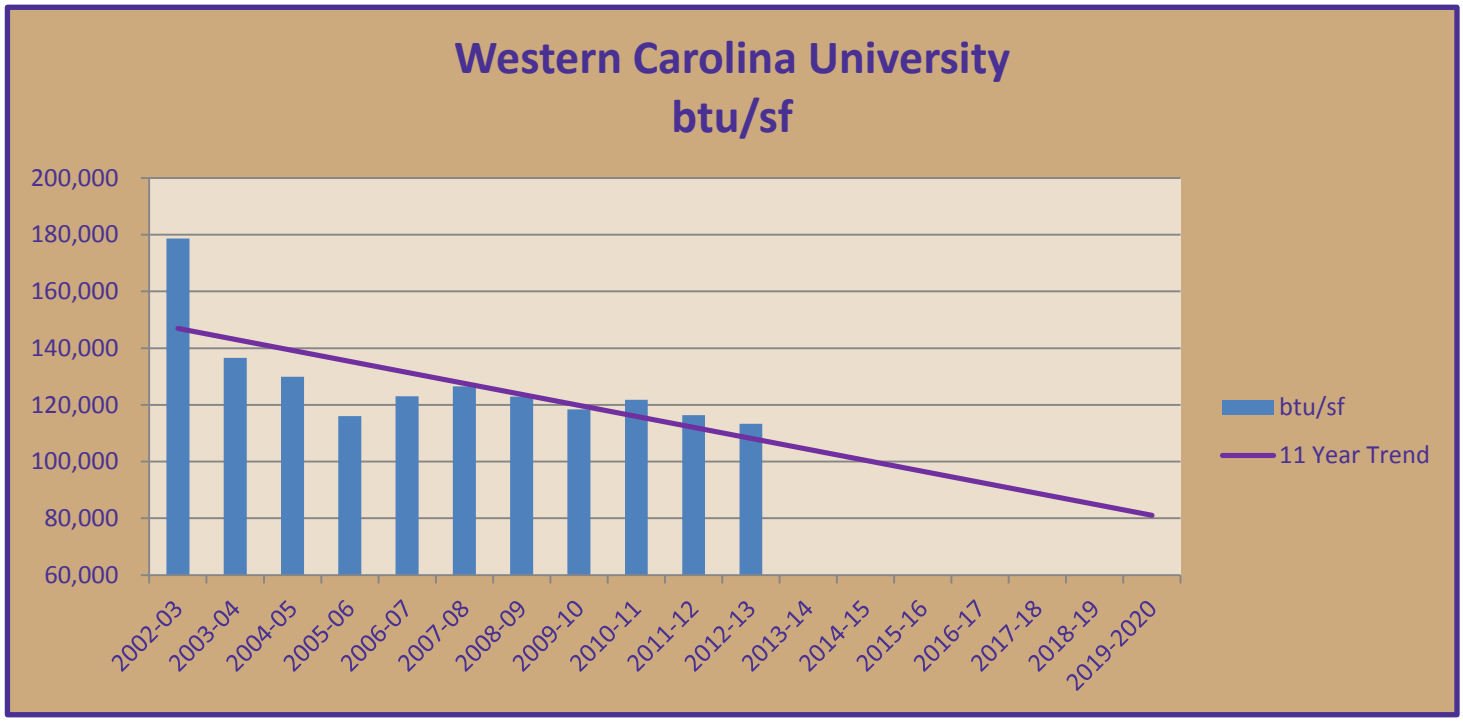


Western Carolina University

11 Year Energy btu/sf Evaluation 2003-2013 & Trend Through 2020

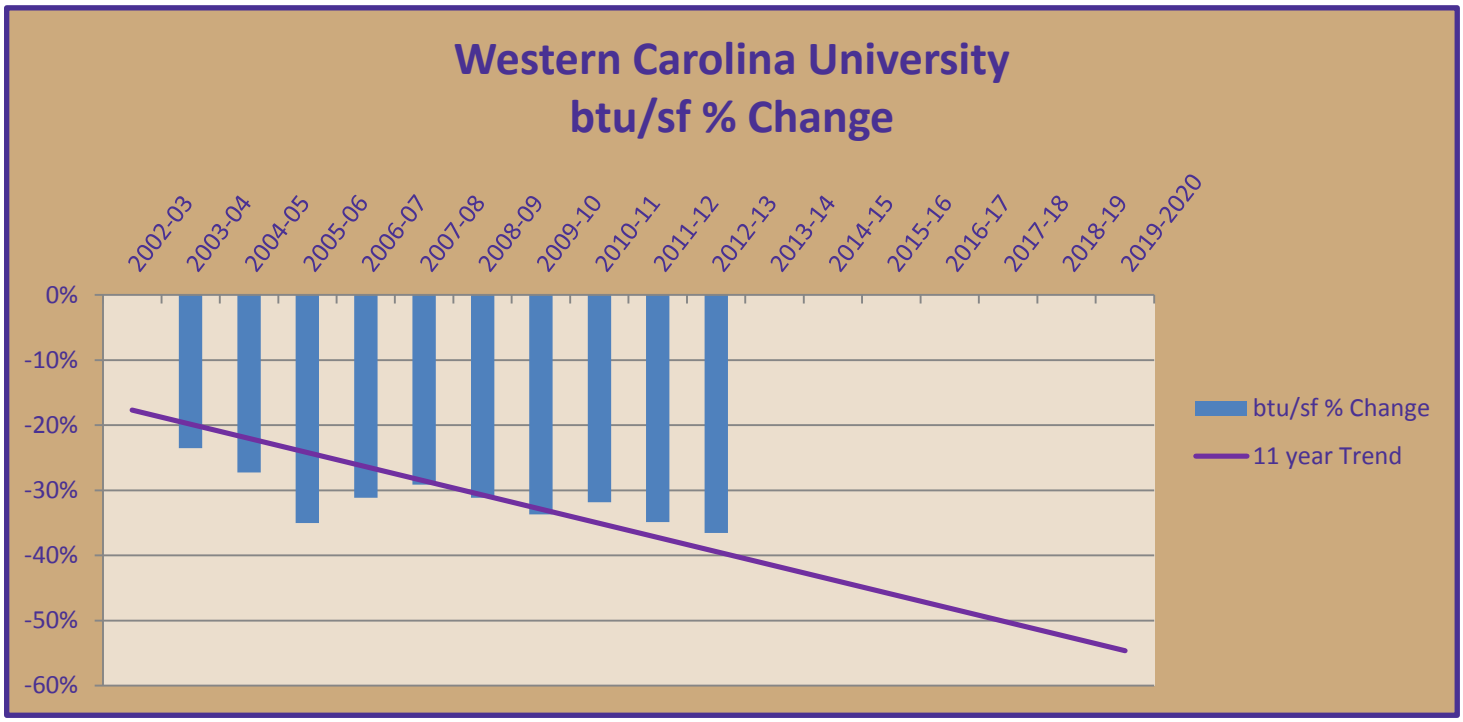
Western Carolina University Energy btu/sf

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
178,603	136,564	129,915	116,027	123,007	126,579	122,943	118,439	121,766
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
116,336	113,328							



Western Carolina University Energy btu/sf % Change

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
0%	-24%	-27%	-35%	-31%	-29%	-31%	-34%	-32%
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
-35%	-37%							

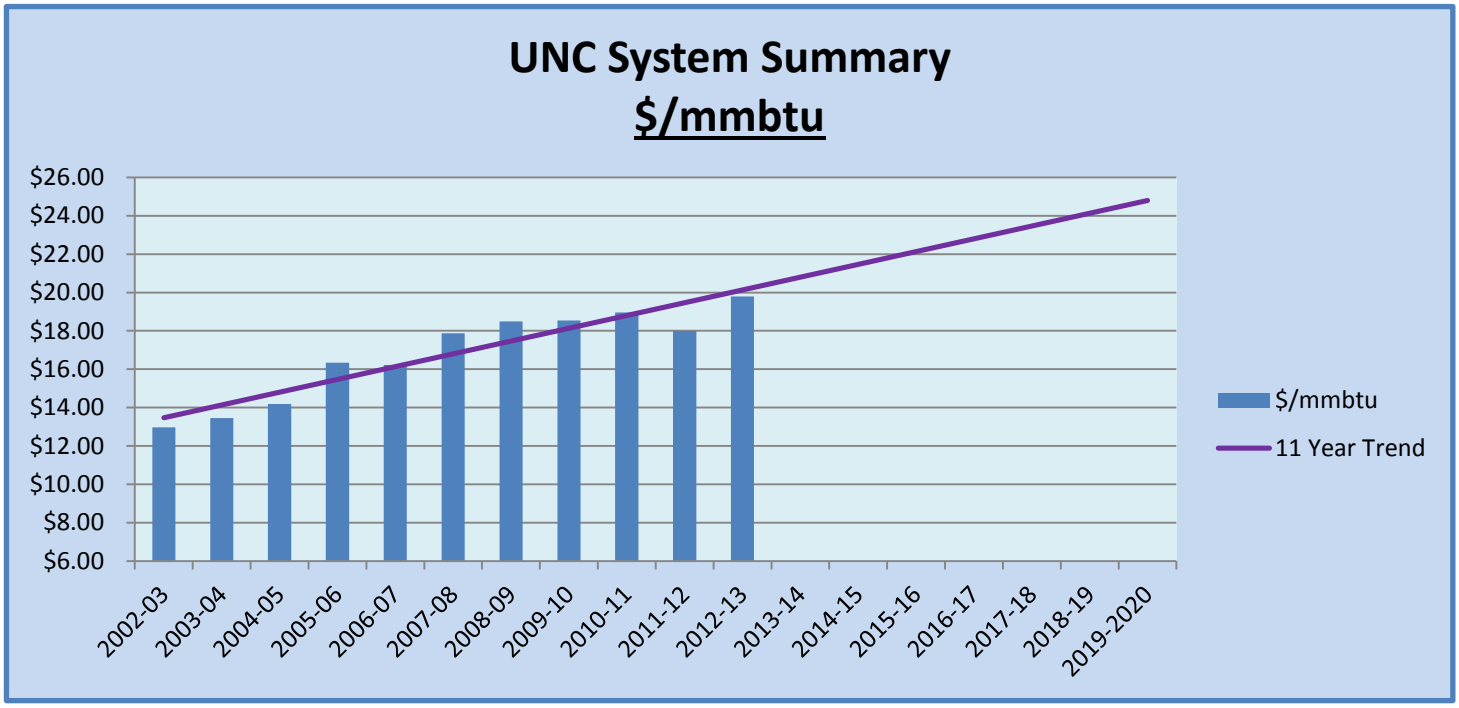


UNC System Summary

11 Year Energy $/mmbtu Evaluation 2003-2013 & Trend Through 2020

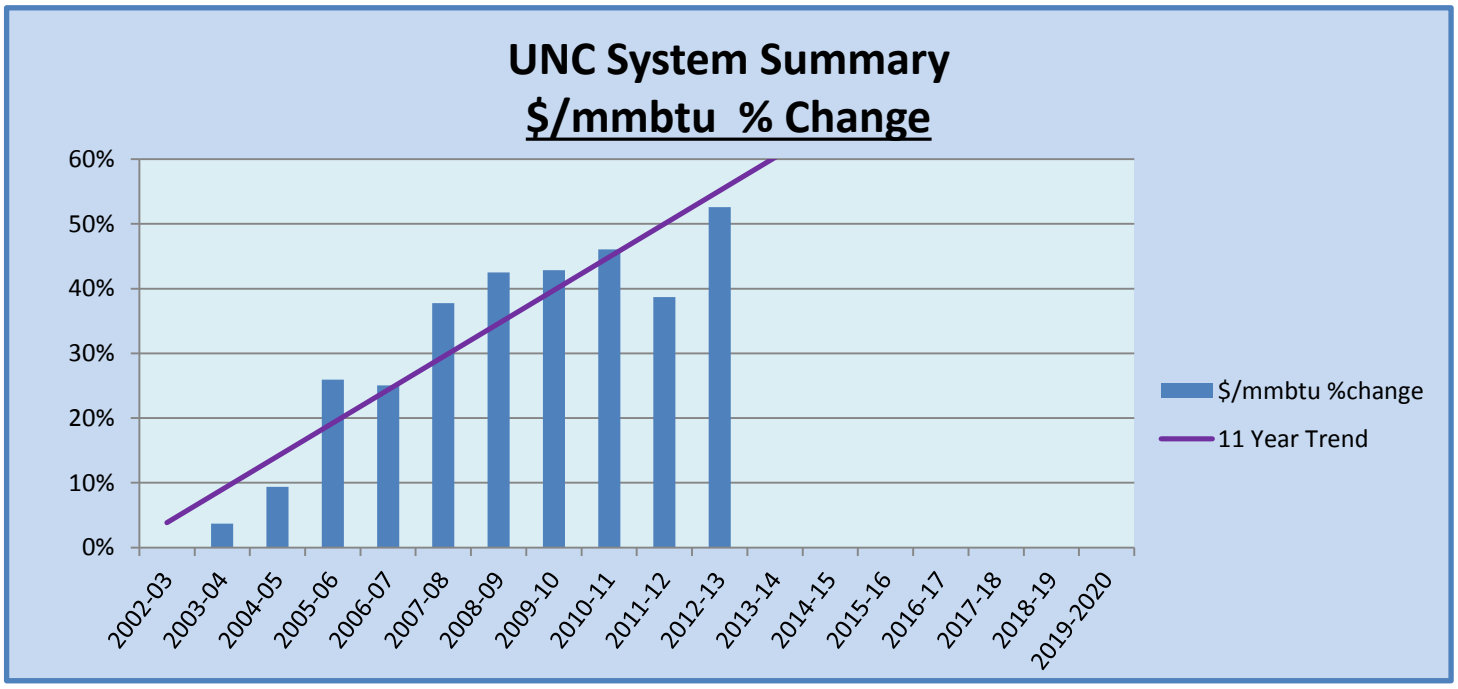
UNC System Energy $/mmbtu

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
$ 12.98	$ 13.45	$ 14.19	$ 16.34	$ 16.23	$ 17.88	$ 18.49	$ 18.54	$ 18.95
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
$ 17.99	$ 19.80							



UNC System Energy $/mmbtu % Change

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
0%	4%	9%	26%	25%	38%	42%	43%	46%
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
39%	53%							

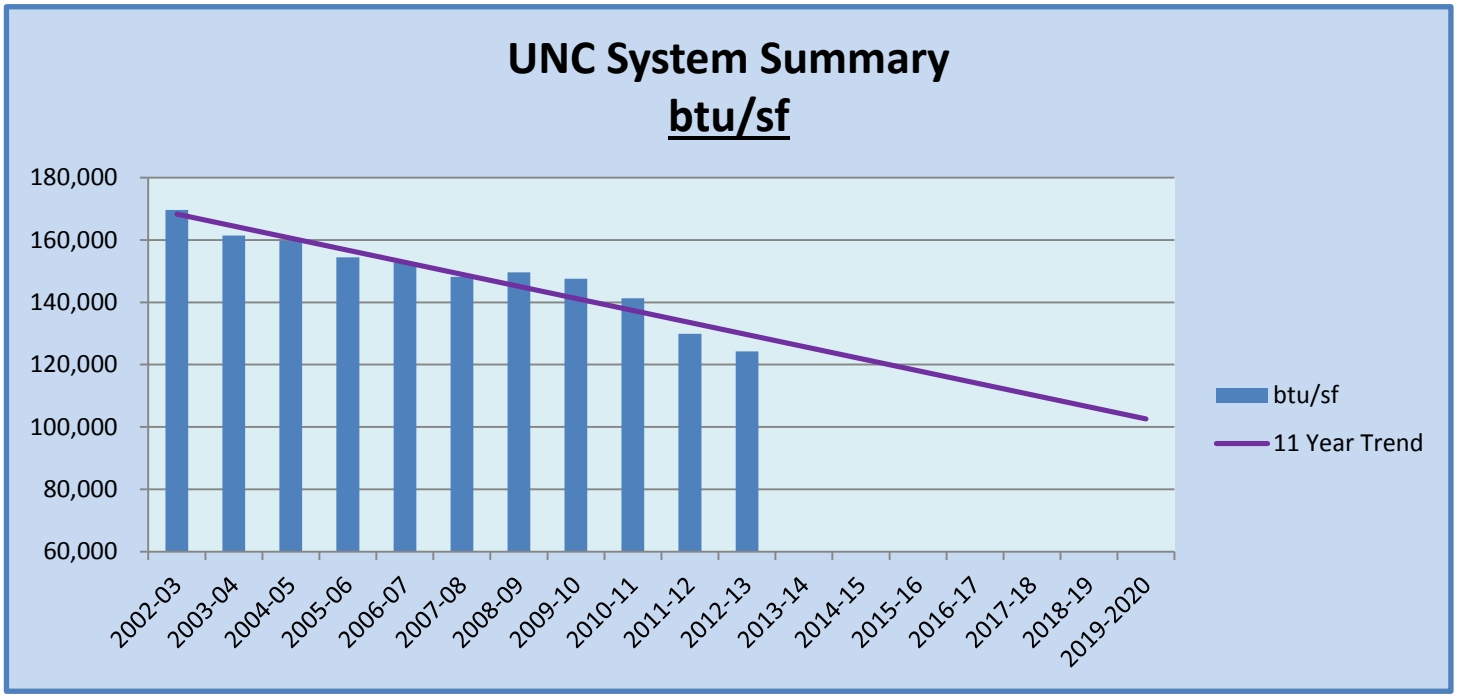


UNC System Summary

11 Year Energy Btu/sf Evaluation 2003-2013 & Trend Through 2020

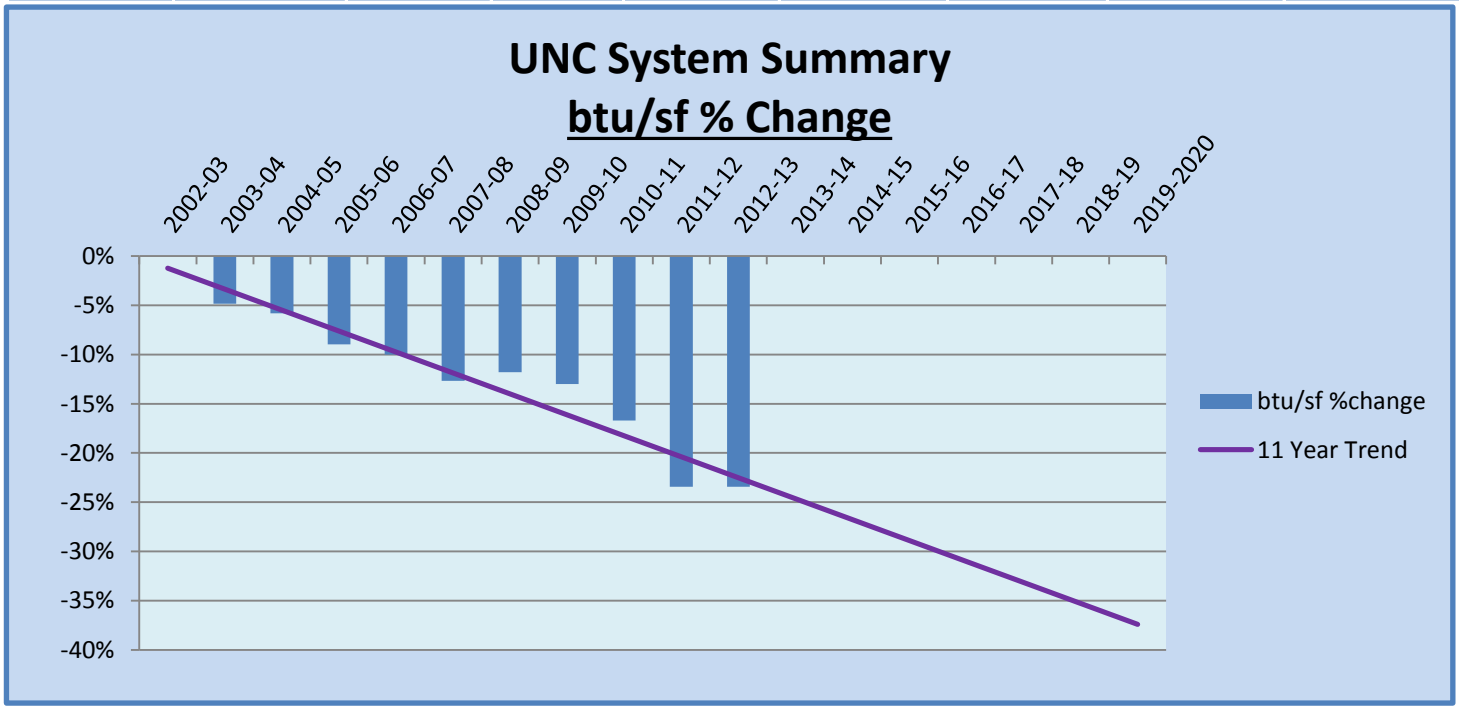
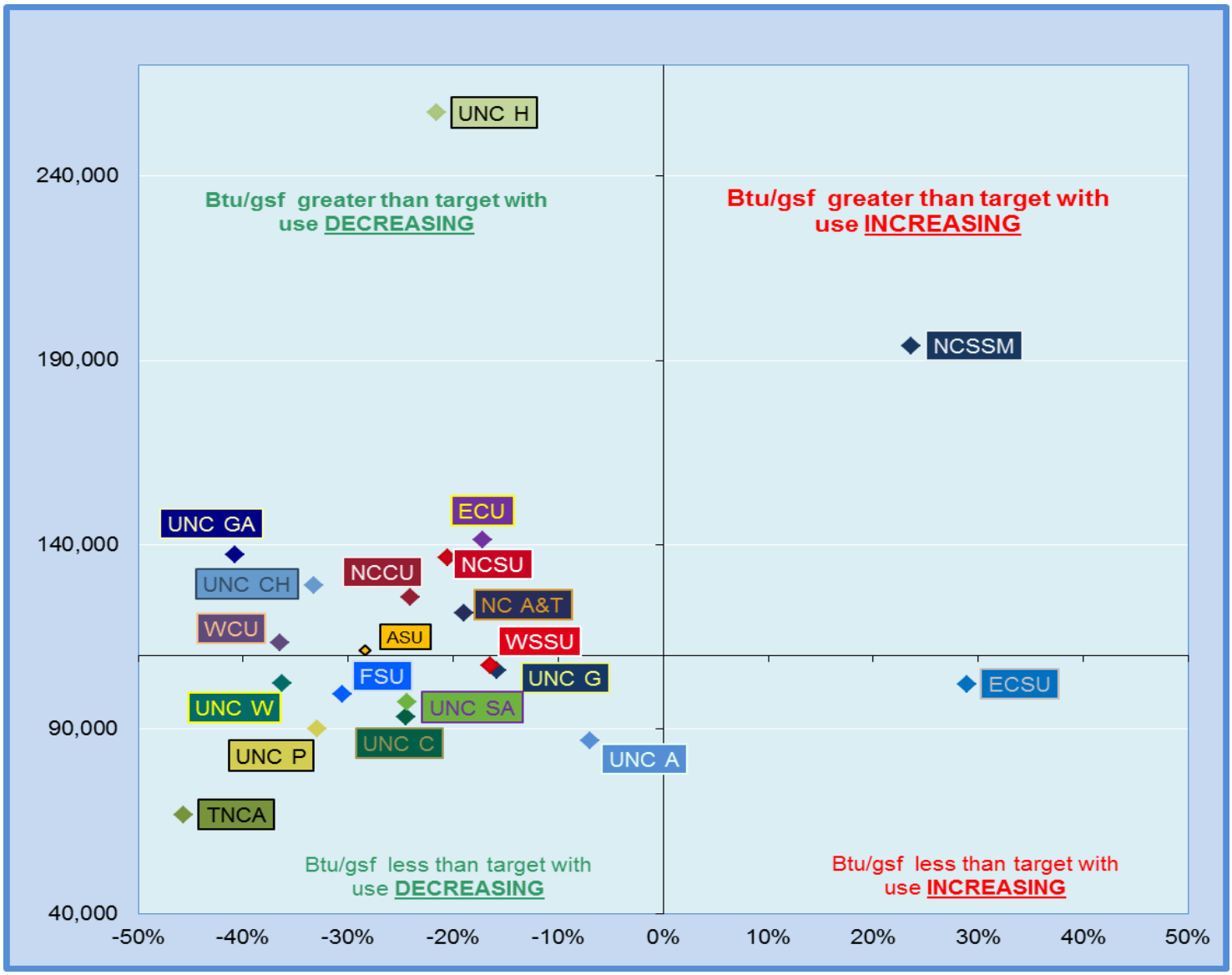
UNC System Energy Btu/sf

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
169,641	161,422	159,774	154,406	152,669	148,145	149,646	147,579	141,308
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
129,897	124,266							



UNC System Energy Btu/sf % Change

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
0%	-5%	-6%	-9%	-10%	-13%	-12%	-13%	-17%
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
-23%	-27%							



Btu/gsf and % Reduction