UNC Charlotte

Utilities at a Glance

UNC Charlotte Utilities

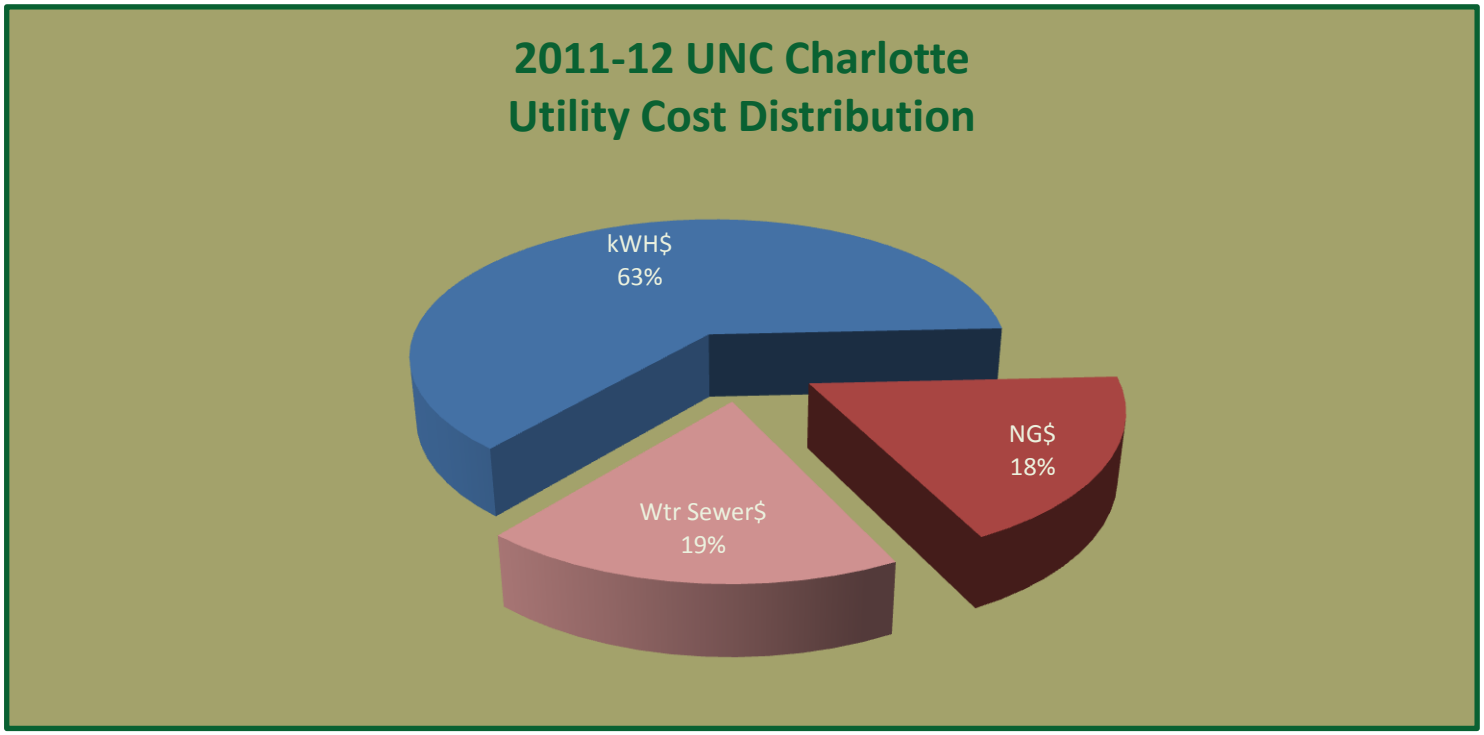
Metric	Basline 2002-2003	Current 2011-2012	% change
Gross square feet	4,232,977	7,257,090	71%
Btu per square foot per year	123,597	109,224	-12%
Cost per million Btu	$ 10.46	$ 12.30	18%
Total Avoided Cost		$6,621,754.43	
Electric consumption in kWh	82,504,890	121,611,357	47%
Electric Cost	$ 3,906,435	$ 7,552,681	93%
Natural Gas consumption in Therms	2,416,784	3,777,135	56%
Natural Gas Cost	$ 1,567,613	$ 2,200,306	40%
#2 Fuel oil gallons	0	0	%
#2 Fuel oil cost	$ -	$ -	%
#6 Fuel oil gallons	0	0	%
#6 Fuel oil cost	$ -	$ -	%
Propane gallons	0	0	%
Propane cost	$ -	$ -	%
Steam thousands of pounds	0	0	%
Steam cost	$ -	$ -	%
Chilled Water tons	0	0	%
Chilled Water cost	$ -	$ -	%
Water thousands of gallons	180,673	228,005	26%
Water & Sewer cost	$ 915,381	$ 2,206,540	141%

UNC Charlotte

Year End Utility Comparison

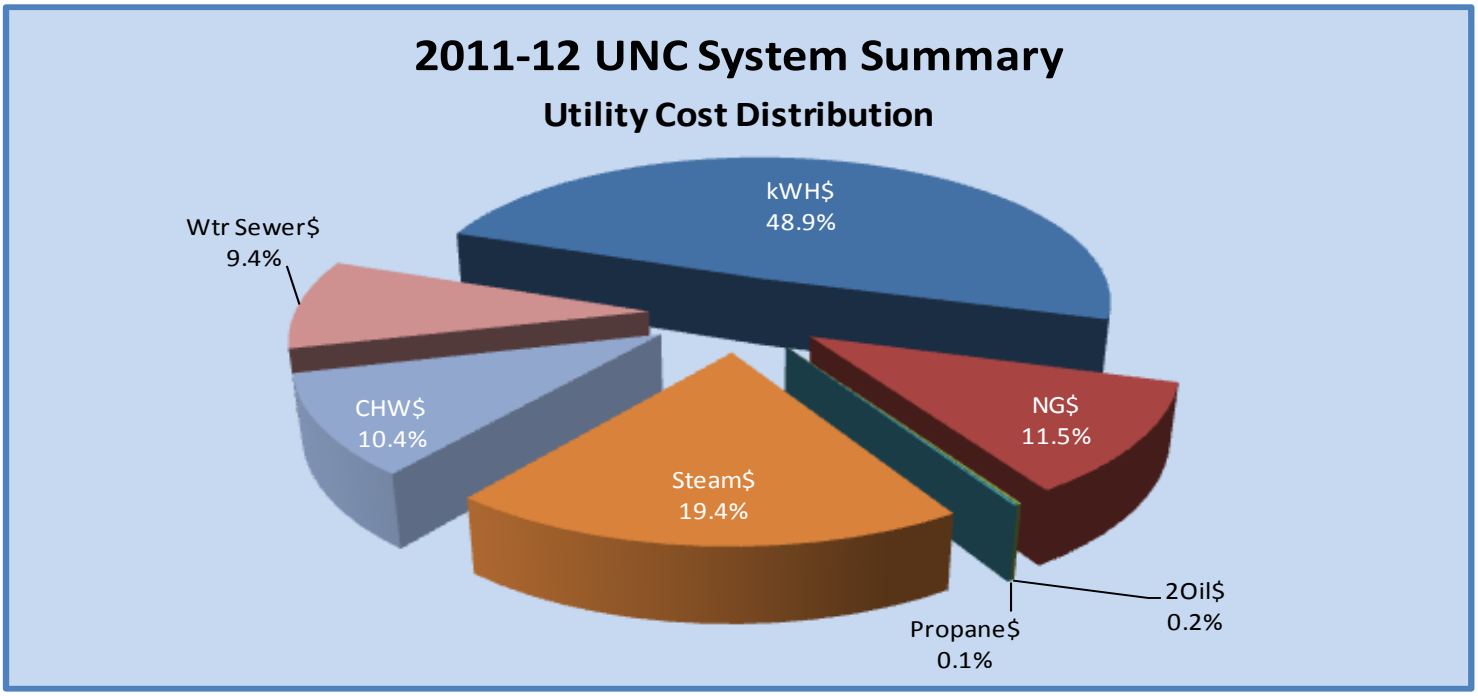
UNC C Utilities Summary 2011-2012

kWH$	NG$	2Oil$	6Oil$	Propane$	Steam$	CHW$	Wtr Sewer$	Total Utility $
$ 7,552,681	$ 2,200,306						$ 2,206,540	$ 11,959,526



UNC System Utilities Summary 2011-2012

kWH$	NG$	2Oil$	6Oil$	Propane$	Steam$	CHW$	Wtr Sewer$	Total Utility $
$ 100,880,958	$ 23,768,828	$ 310,240		$ 288,450	$ 40,097,298	$ 21,506,927	$ 19,382,528	$ 206,235,229

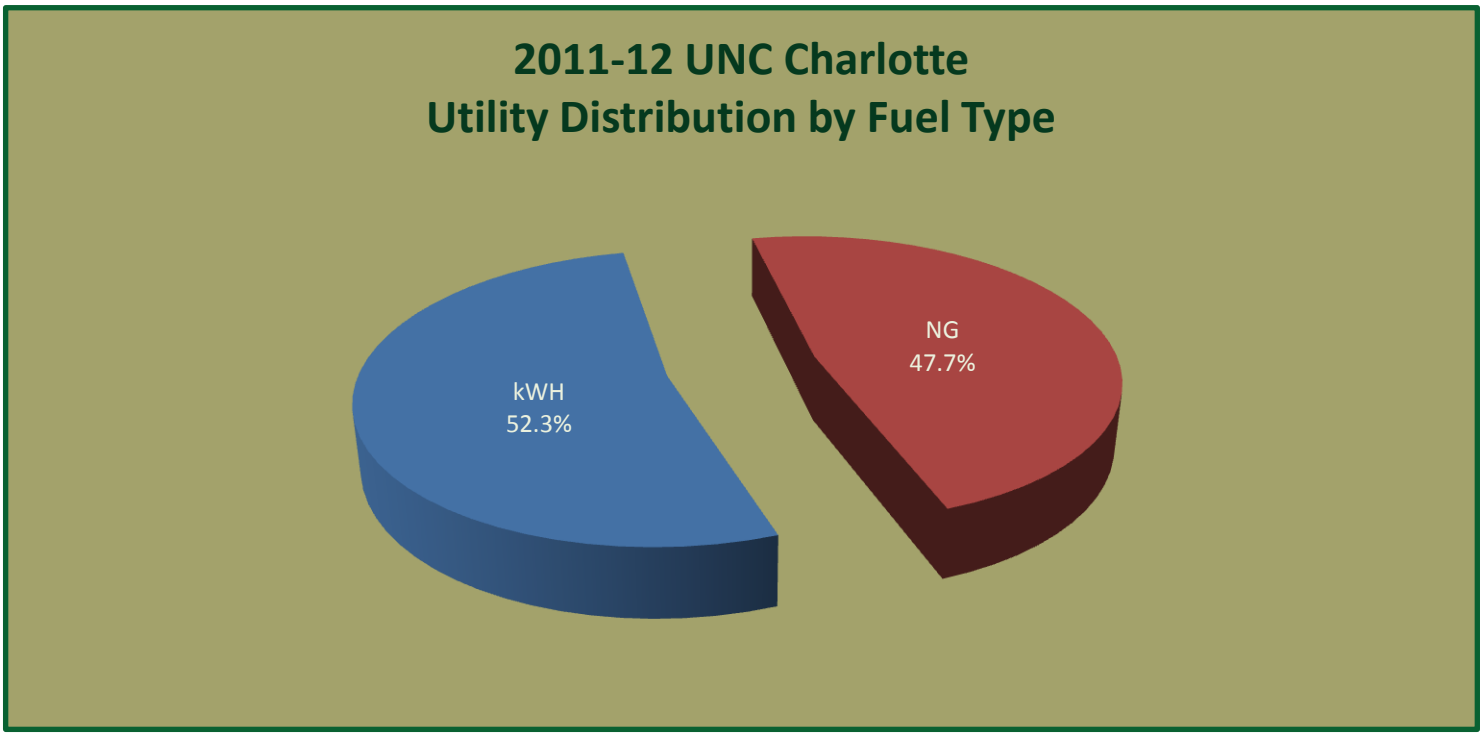


UNC Charlotte

Year End Btu by Fuel Type for 2011-2012

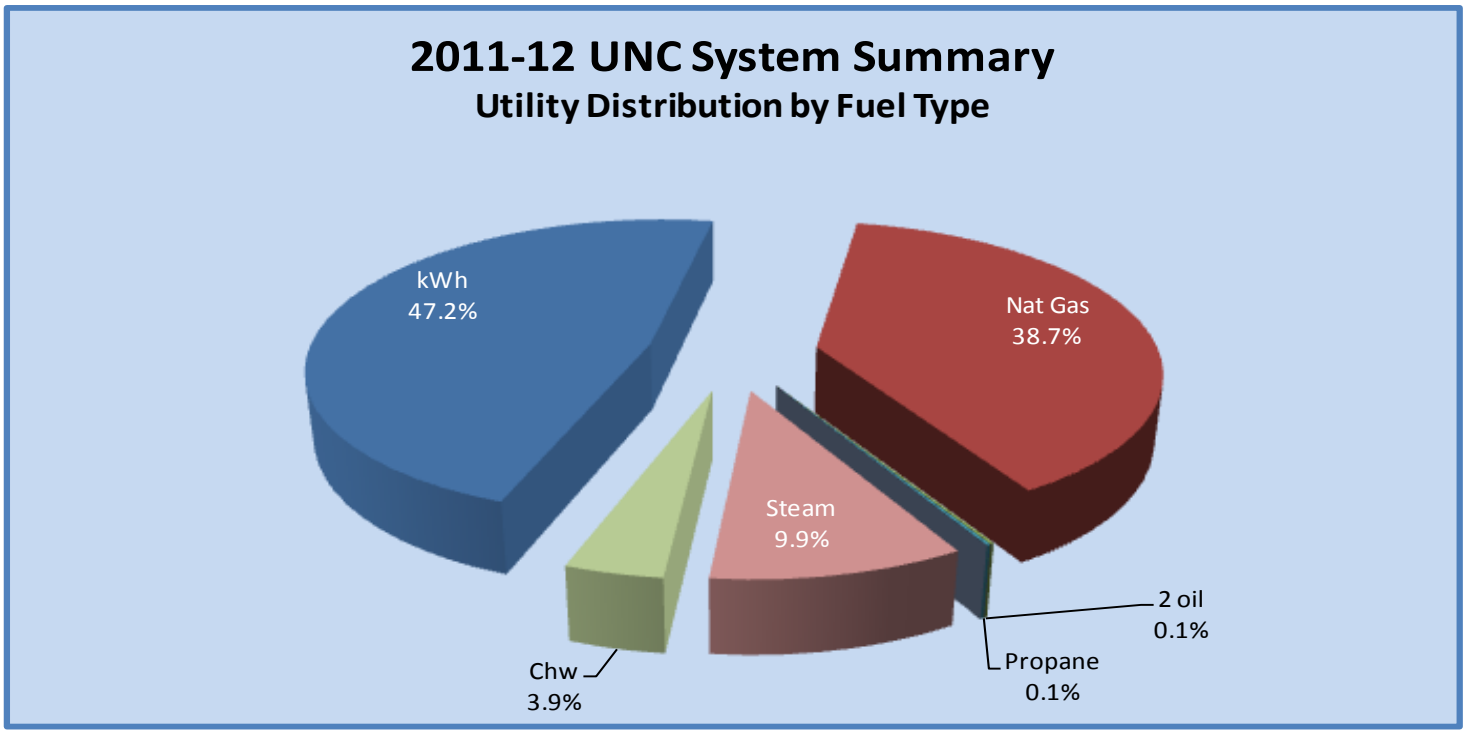
UNC C Btu by Fuel Type 2011-2012

kWH	NG	2Oil	6Oil	Propane	Steam	CHW	Total Btu
414,937,950,084	377,713,500,000						792,651,450,084



UNC System Btu by Fuel Type 2011-2012

kWH	NG	2Oil	6Oil	Propane	Steam	CHW	Total Btu
4,618,961,326,972	3,784,820,700,000	12,792,076,660		14,094,179,328	968,012,814,000	377,290,300,344	9,775,971,397,304

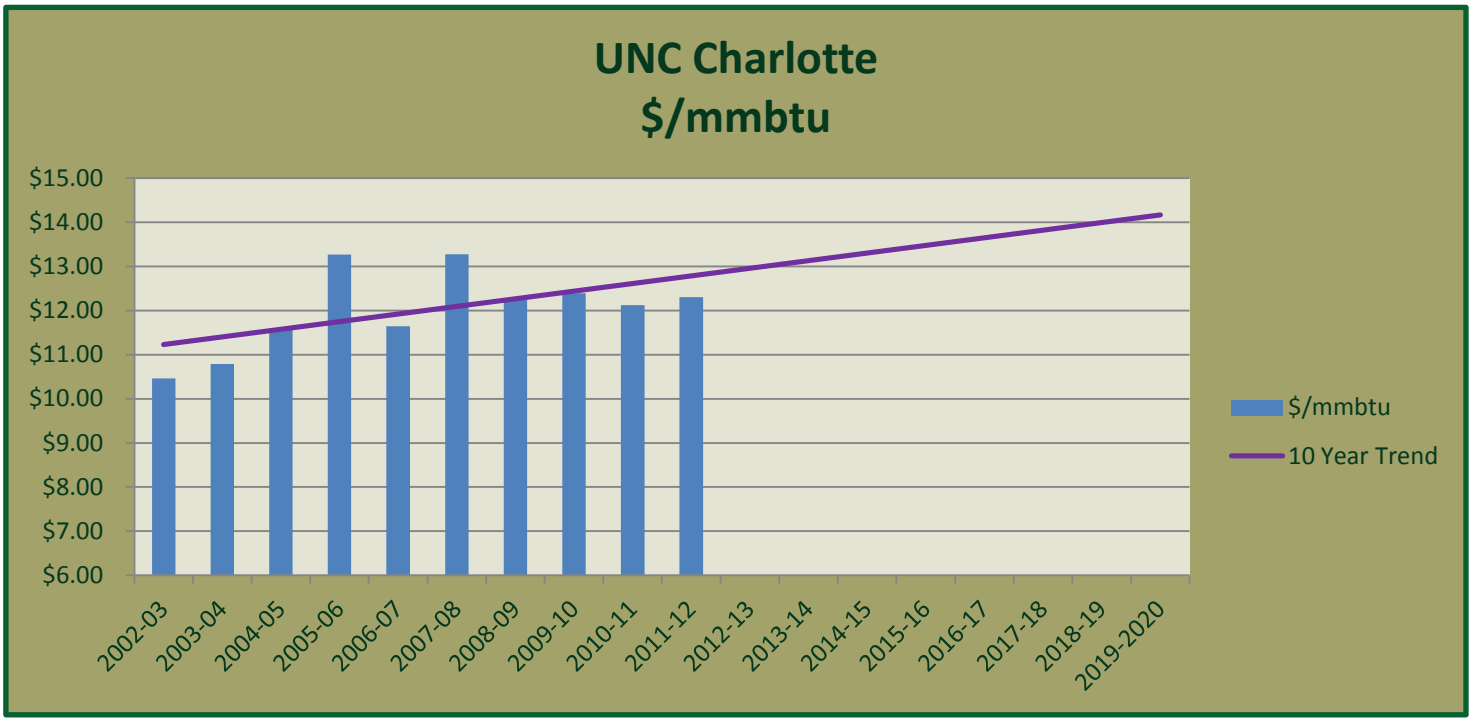


UNC Charlotte

10 Year Energy $/mmbtu Evaluation 2003-2012 & Trend Through 2020

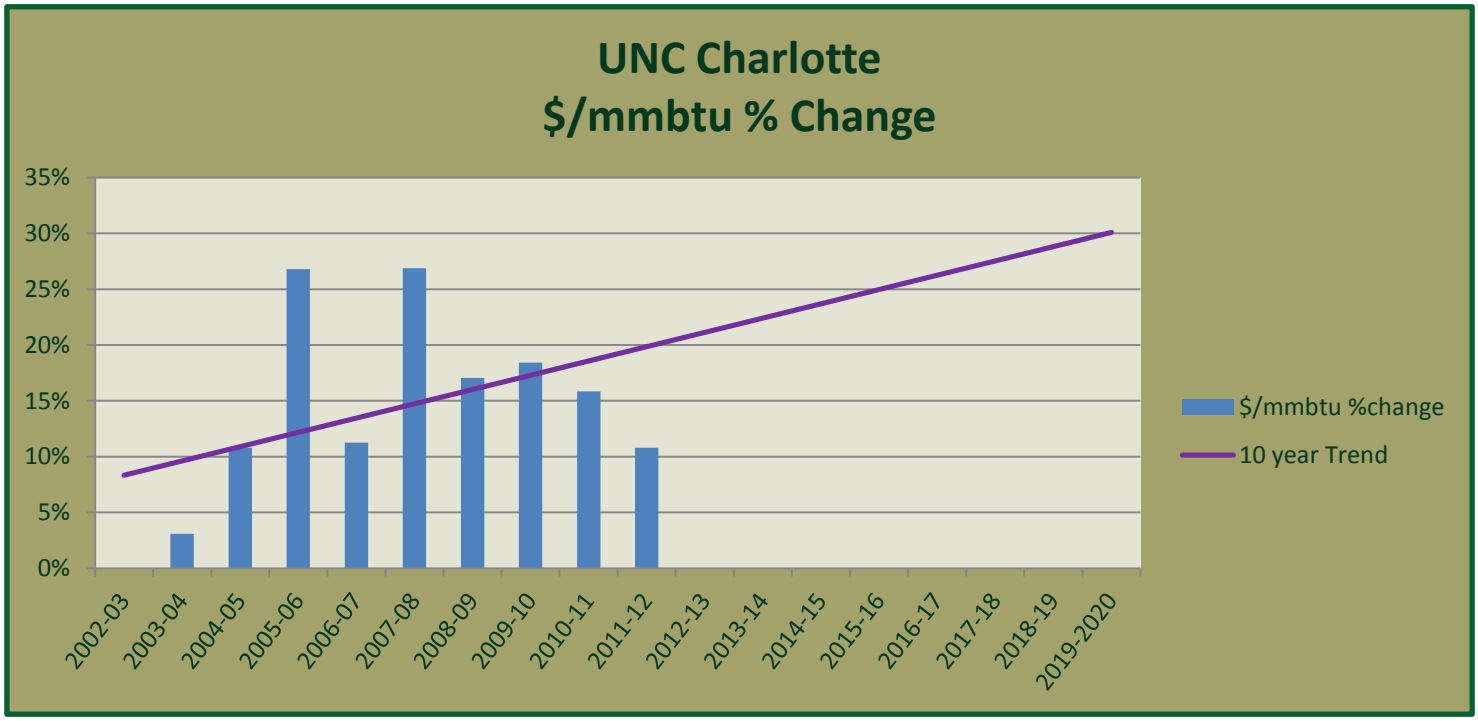
UNC C Energy $/mmbtu

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
$ 10.46	$ 10.78	$ 11.59	$ 13.27	$ 11.64	$ 13.28	$ 12.25	$ 12.39	$ 12.12
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
$ 12.30								



UNC C Energy $/mmbtu % Change

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
0%	3%	11%	27%	11%	27%	17%	18%	16%
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
11%								

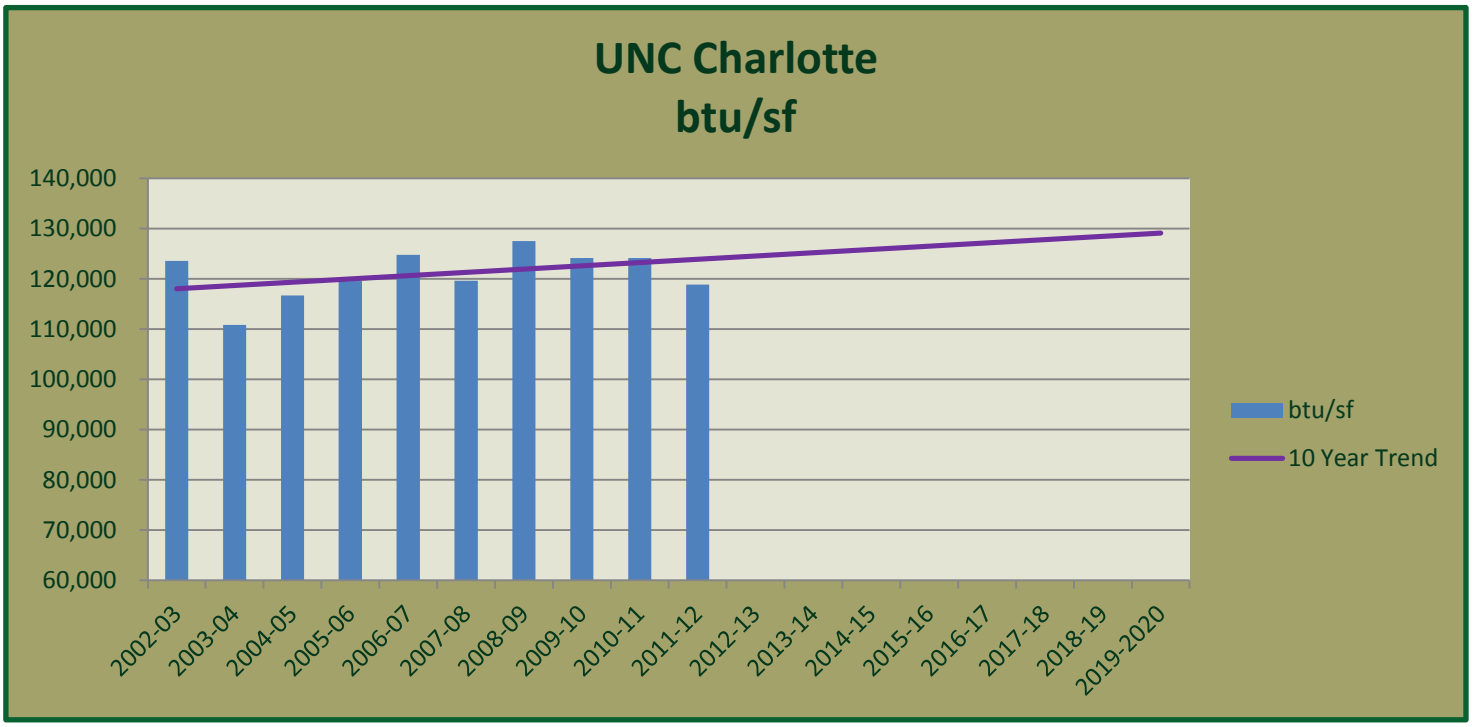


UNC Charlotte

10 Year Energy btu/sf Evaluation 2003-2012 & Trend Through 2020

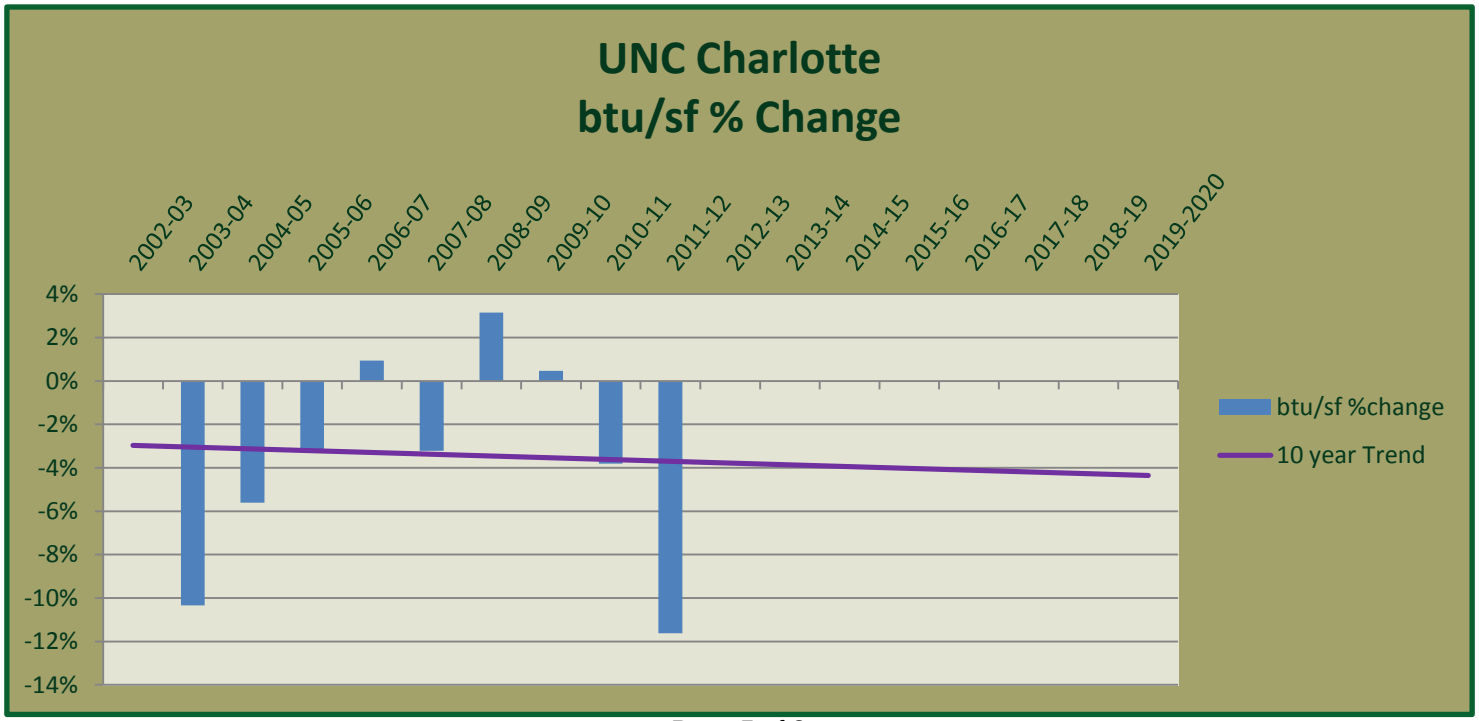
UNC C Energy btu/sf

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
123,597	110,808	116,672	119,589	124,760	119,613	127,500	124,176	124,176
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
118,893								



UNC C Energy btu/sf % Change

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
0%	-10%	-6%	-3%	1%	-3%	3%	0%	-4%
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
-12%								

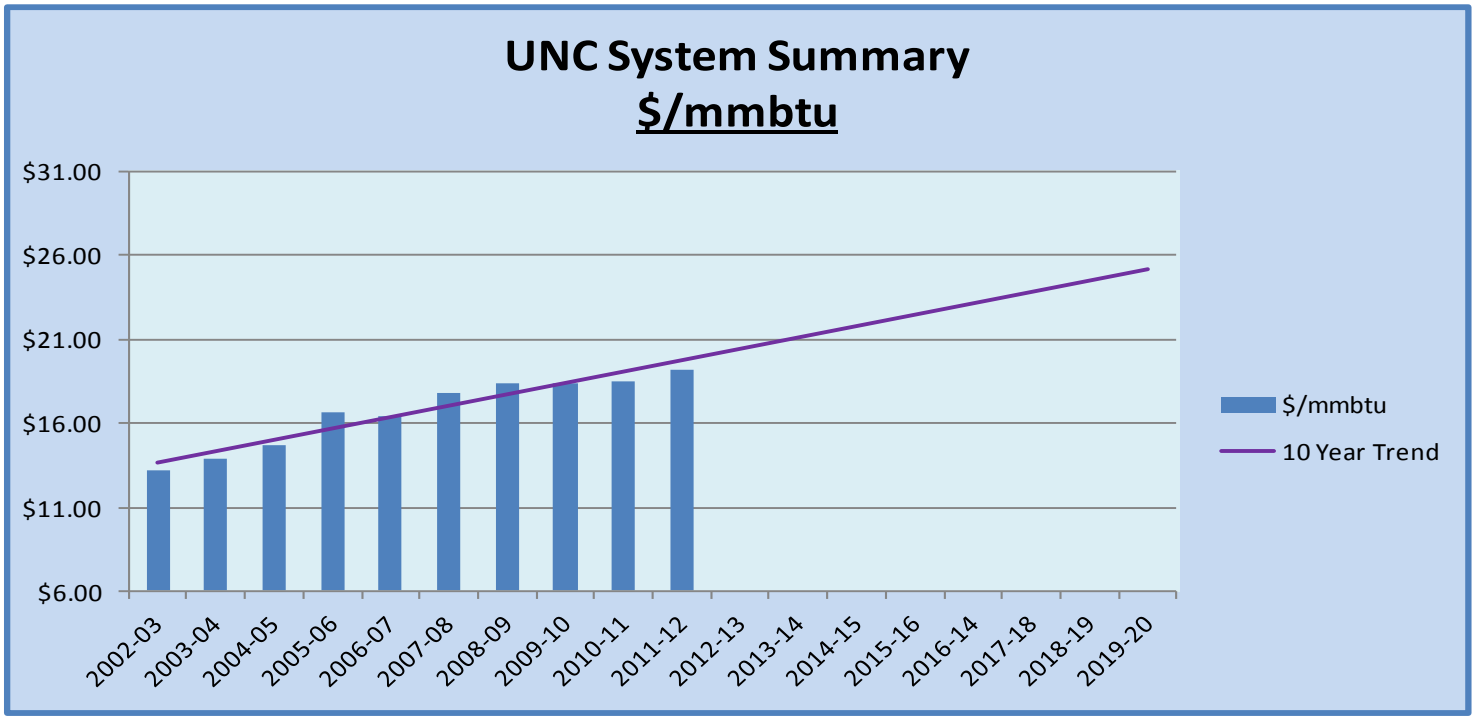


UNC System Summary

10 Year Energy $/mmbtu Evaluation 2003-2012 & Trend Through 2020

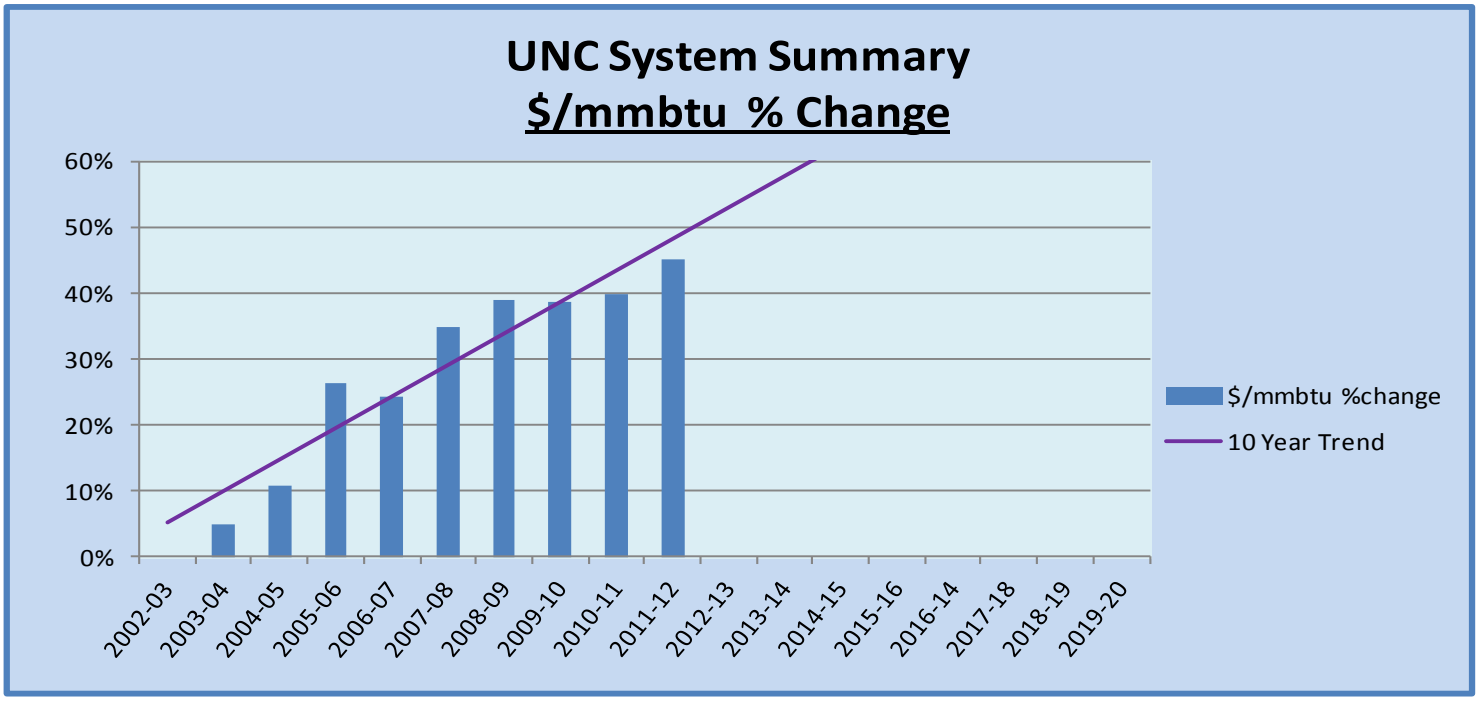
UNC System Energy $/mmbtu

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
$ 13.22	$ 13.86	$ 14.67	$ 16.69	$ 16.43	$ 17.85	$ 18.37	$ 18.36	$ 18.49
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
$ 19.19								



UNC System Energy $/mmbtu % Change

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
0%	5%	11%	26%	24%	35%	39%	39%	40%
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
45%								

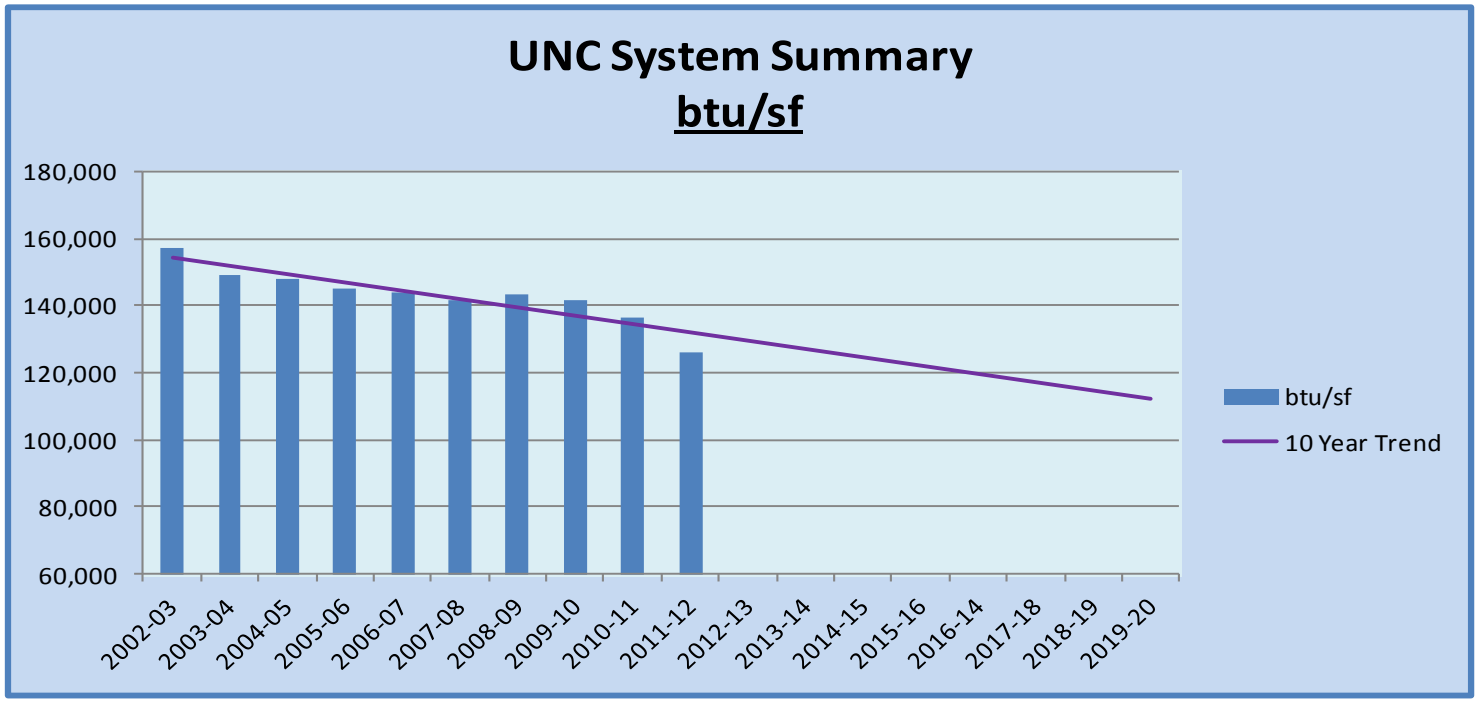


UNC System Summary

10 Year Energy Btu/sf Evaluation 2003-2012 & Trend Through 2020

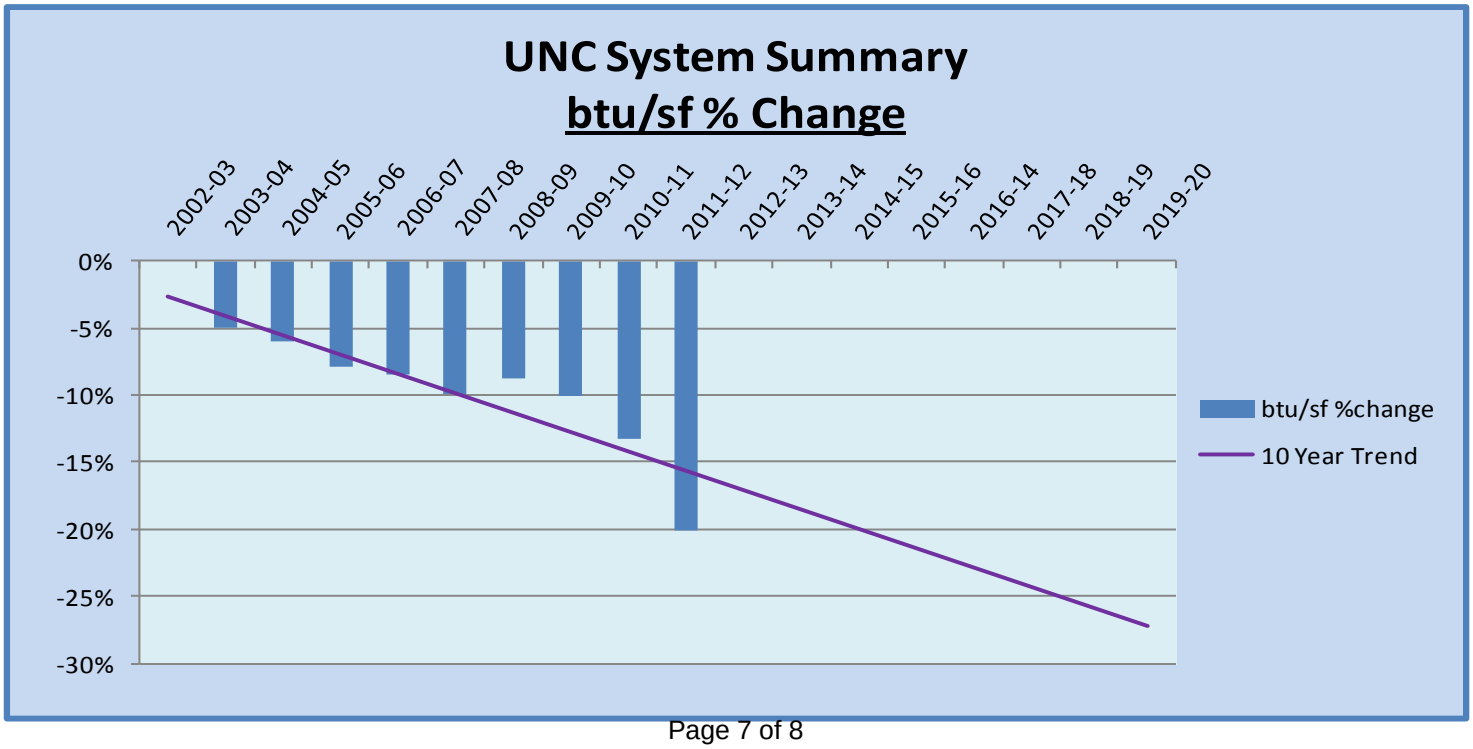
UNC System Energy Btu/sf

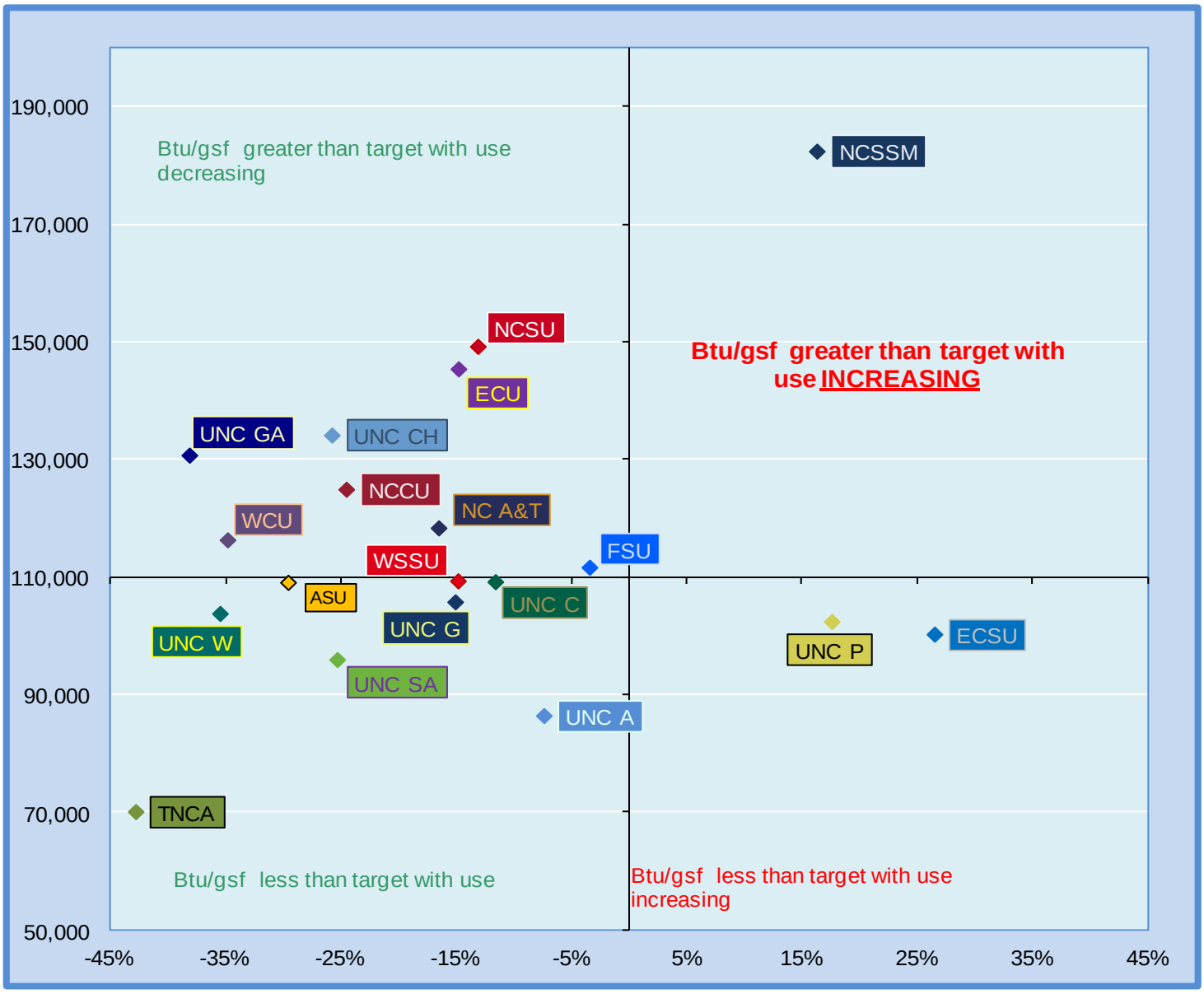
2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
157,302	149,399	147,782	144,975	144,054	141,779	143,423	141,569	136,362
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
125,791								



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%	-8%	-8%	-10%	-9%	-10%	-13%
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-2020**
-20%								



UNC System Summary

Btu/gsf and % Reduction