UNC Greensboro

Utilities at a Glance

UNC Greensboro Utilities

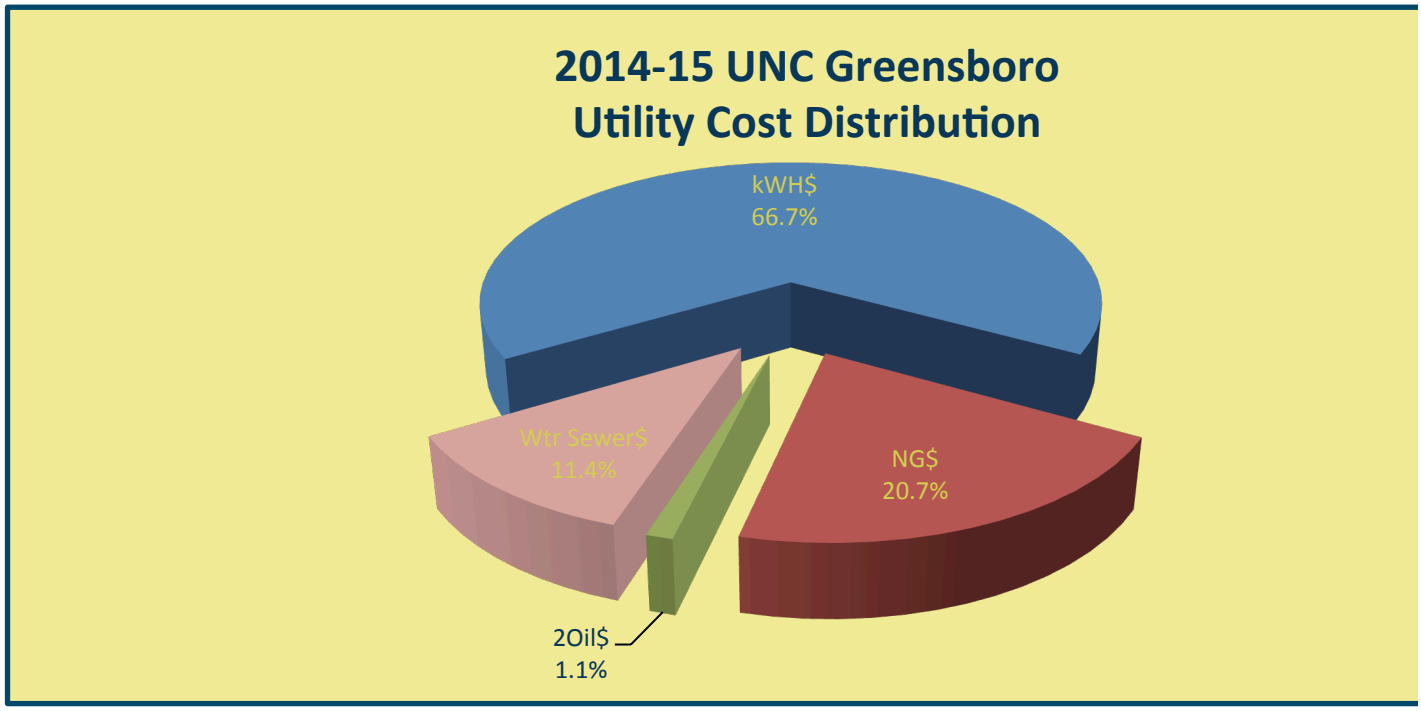
Metric	Basline 2002-2003	Current 2014-2015	% change
Gross square feet	4,269,699	6,086,061	43%
Btu per square foot per year	125,963	104,425	-17%
Cost per million Btu	$ 9.28	$ 10.95	18%
Total Avoided Cost		$29,372,228	
Electric consumption in kWh	65,959,835	77,083,848	17%
Electric Cost	$ 3,018,653	$ 5,242,519	74%
Natural Gas consumption in Therms	2,994,990	3,665,469	22%
Natural Gas Cost	$ 1,870,689	$ 1,627,646	-13%
#2 Fuel oil gallons	95,683	43,095	-55%
#2 Fuel oil cost	$ 101,645	$ 89,638	-12%
#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	336,409	126,758	-62%
Water & Sewer cost	$ 546,474	$ 899,587	65%

UNC Greensboro

Year End Utility Comparison

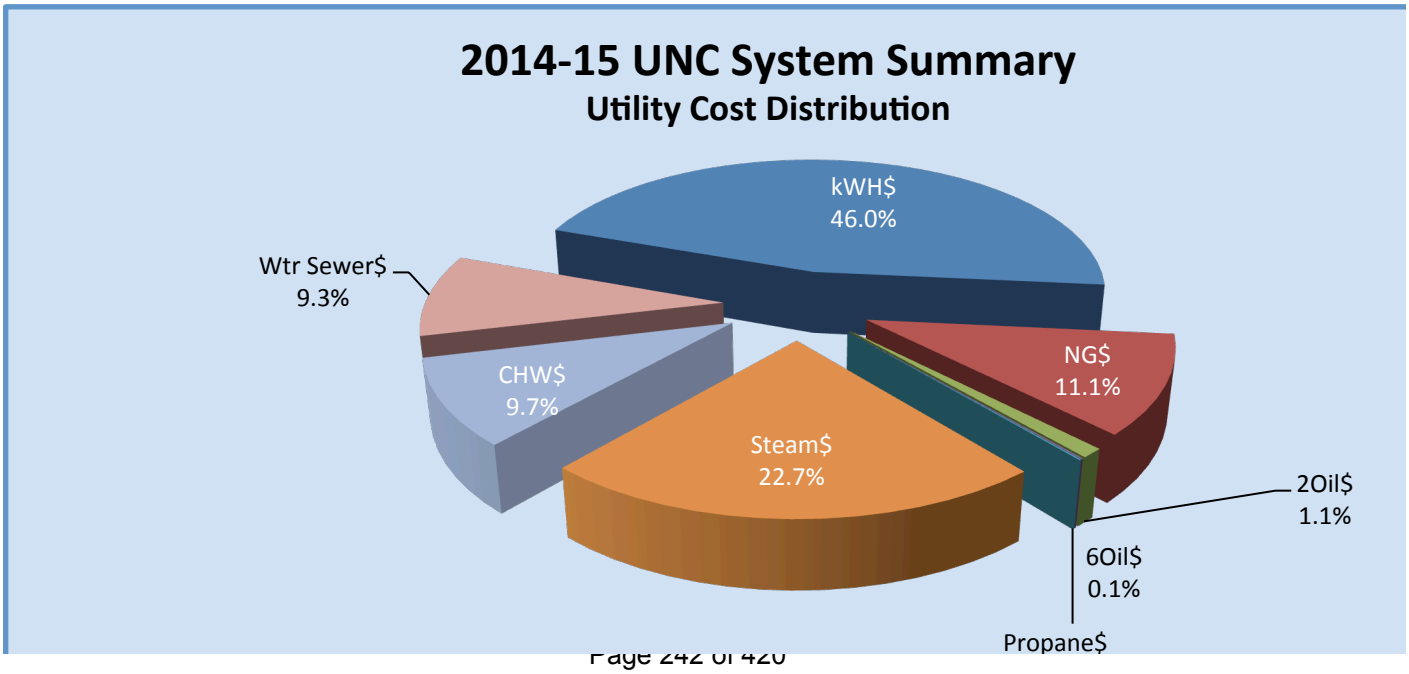
UNC G Utilities Summary 2014-2015

kWH$	NG$	2Oil$	6Oil$	Propane$	Steam$	CHW$	Wtr Sewer$
$ 5,242,519	$ 1,627,646	$ 89,638					$ 899,587



UNC System Utilities Summary 2014-15

kWH$	NG$	2Oil$	6Oil$	Propane$	Steam$	CHW$	Wtr Sewer$
$ 106,341,037	$ 25,650,437	$ 2,433,883	$ 240,540	$ 219,997	$ 52,453,892	$ 22,389,388	$ 21,535,495



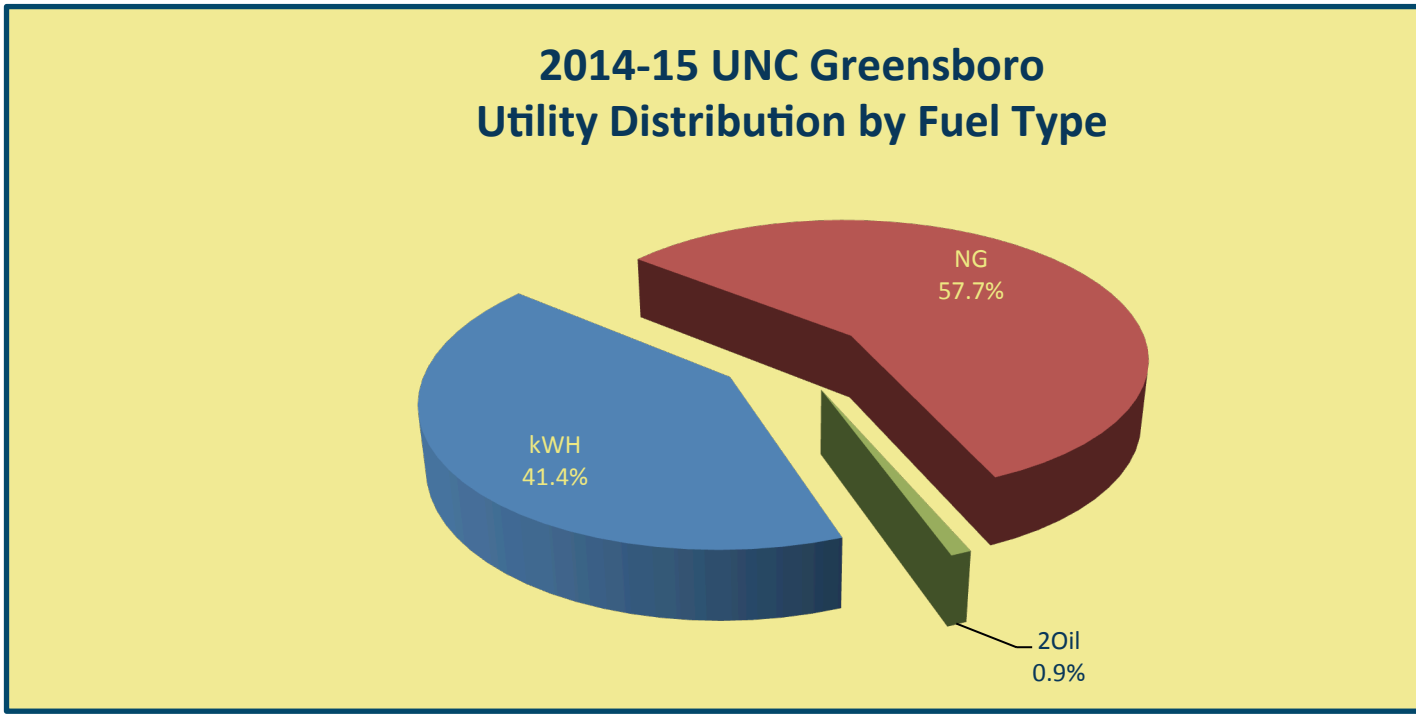
0.1%

UNC Greensboro

Year End Btu by Fuel Type for 2014-2015

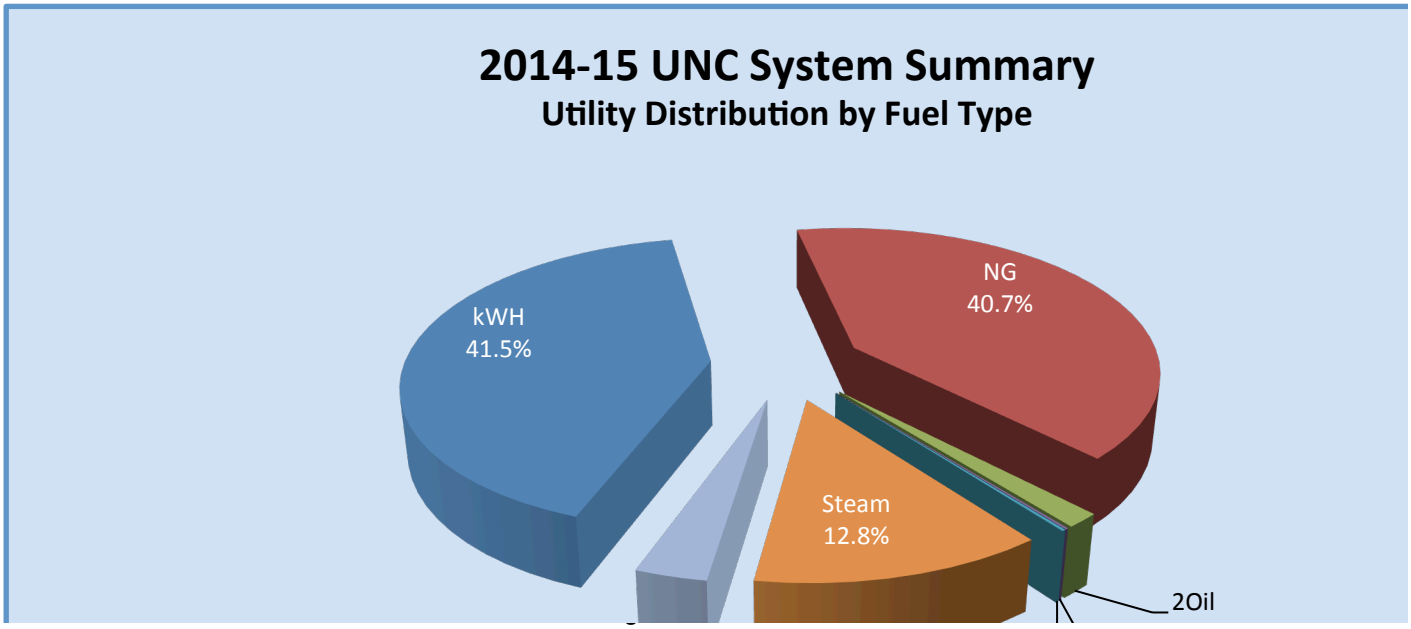
UNC G Btu by Fuel Type 2014-2015

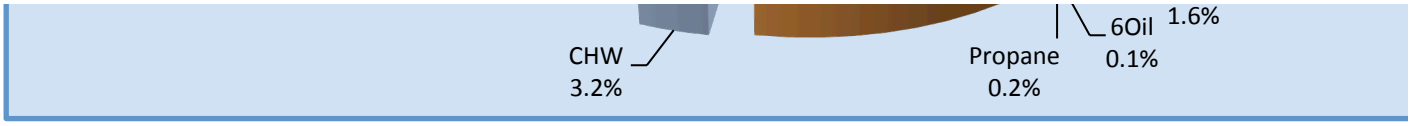
kWH	NG	2Oil	6Oil	Propane	Steam	CHW	Total Btu
263,010,088,575	366,546,898,000	5,976,878,193					635,533,864,768



UNC System Btu by Fuel Type 2014-15

kWH	NG	2Oil	6Oil	Propane	Steam	CHW	Total Btu
4,591,246,083,495	4,501,777,515,560	171,709,572,258	14,789,870,472	19,674,195,302	1,416,944,874,000	348,826,898,192	11,064,969,009,279



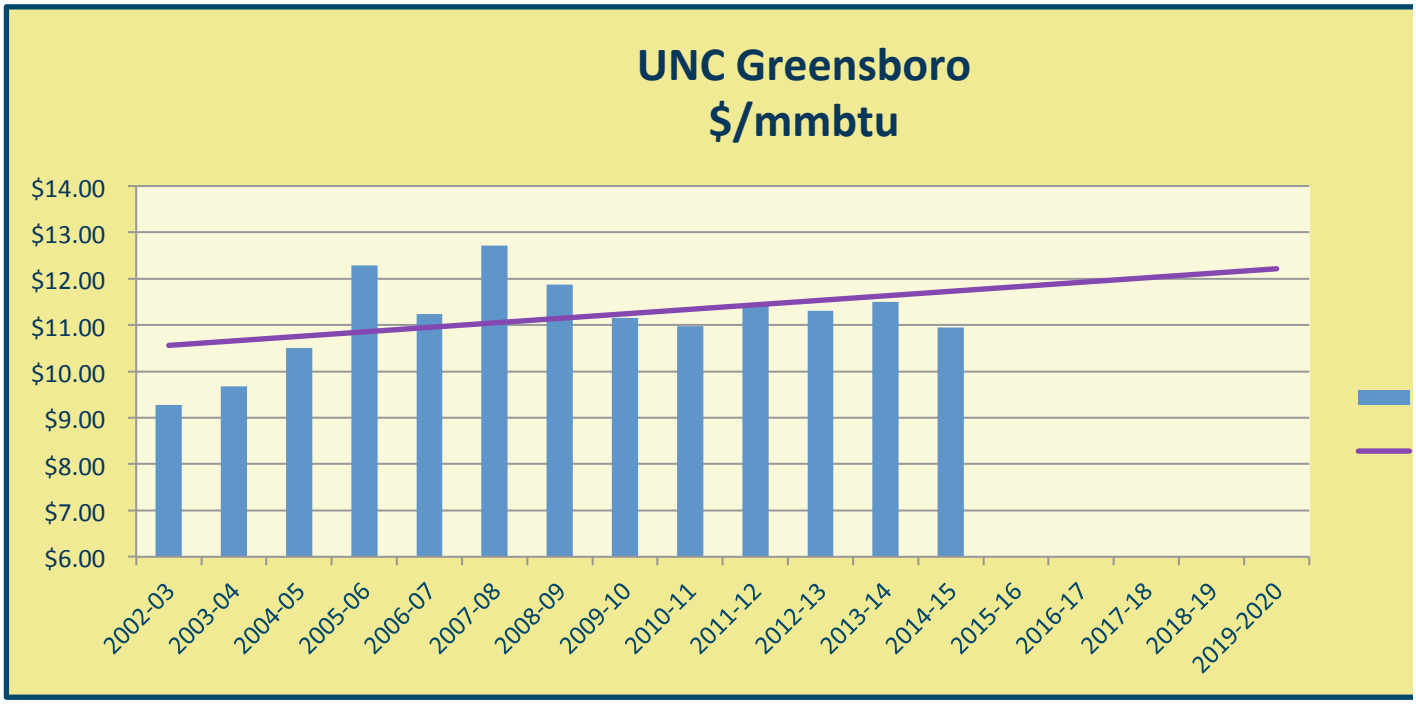


UNC Greensboro

Energy $/mmbtu Evaluation 2003-2015 & Trend Through 2020

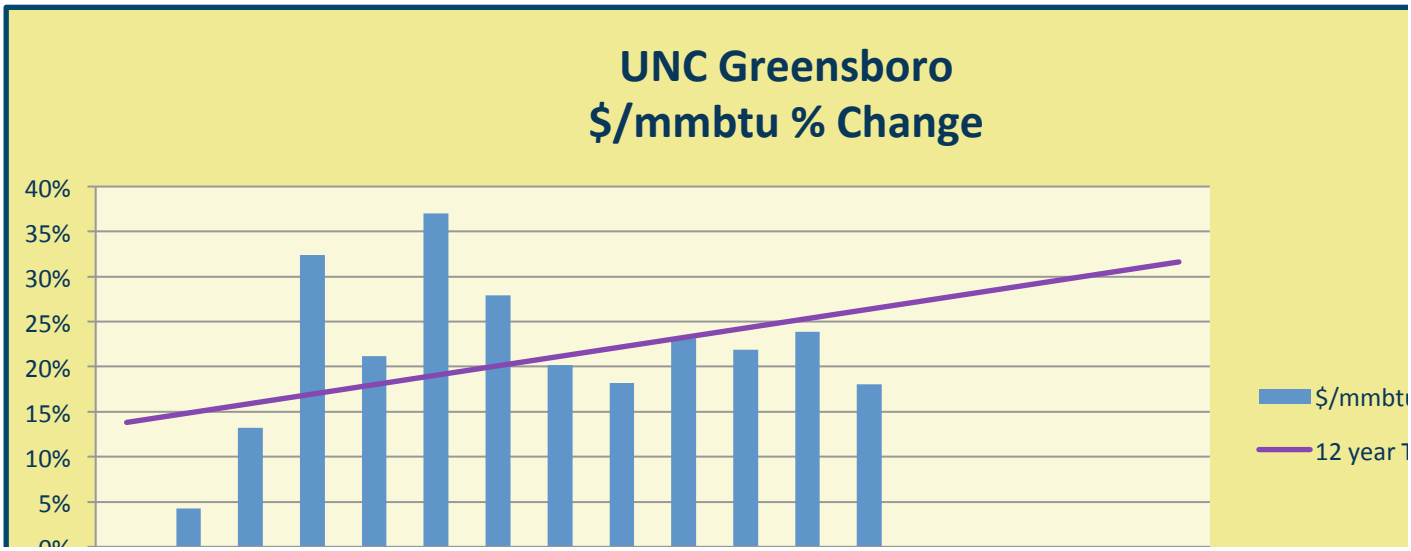
UNC G Energy $/mmbtu

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10
$ 9.28	$ 9.67	$ 10.50	$ 12.29	$ 11.24	$ 12.71	$ 11.87	$ 11.15
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**
$ 11.43	$ 11.31	$ 11.50	$ 10.95				



UNC G Energy $/mmbtu % Change

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10
0%	4%	13%	32%	21%	37%	28%	20%
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**
23%	22%	24%	18%				

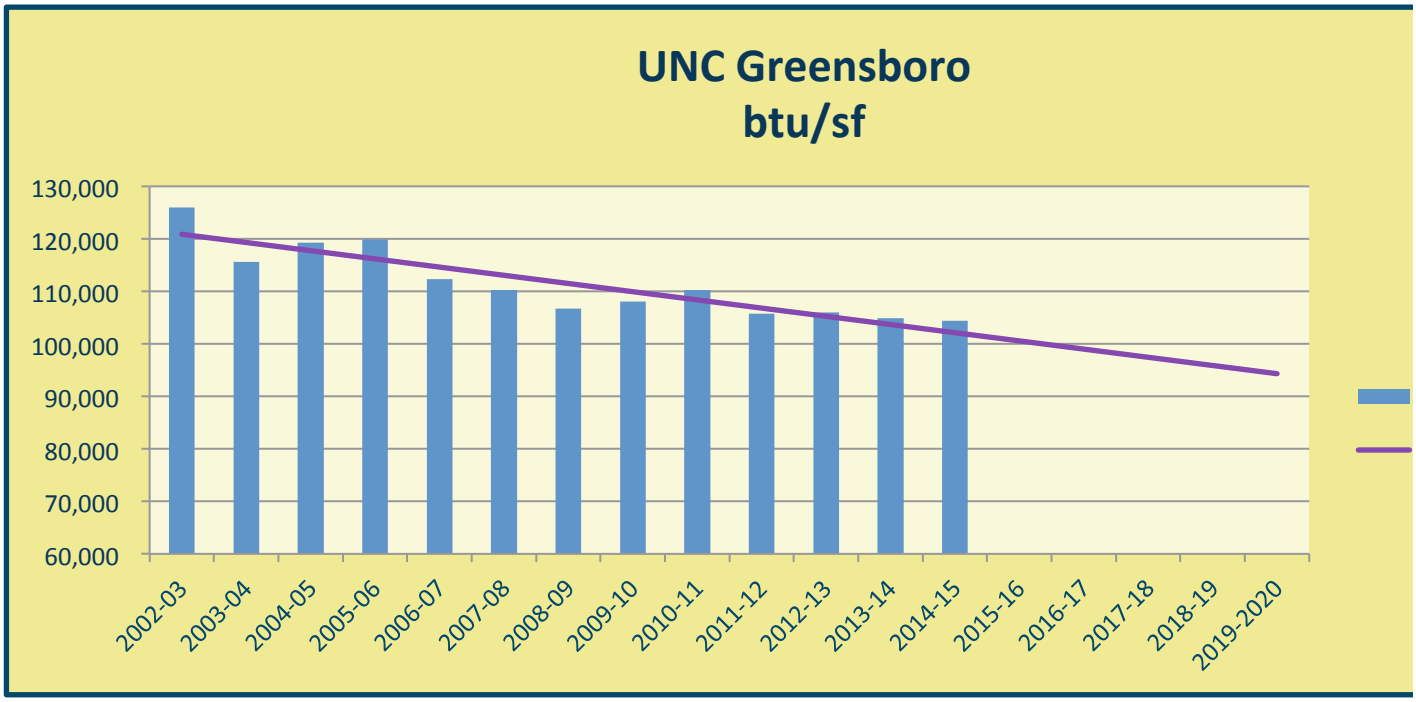


UNC Greensboro

Energy btu/sf Evaluation 2003-2015 & Trend Through 2020

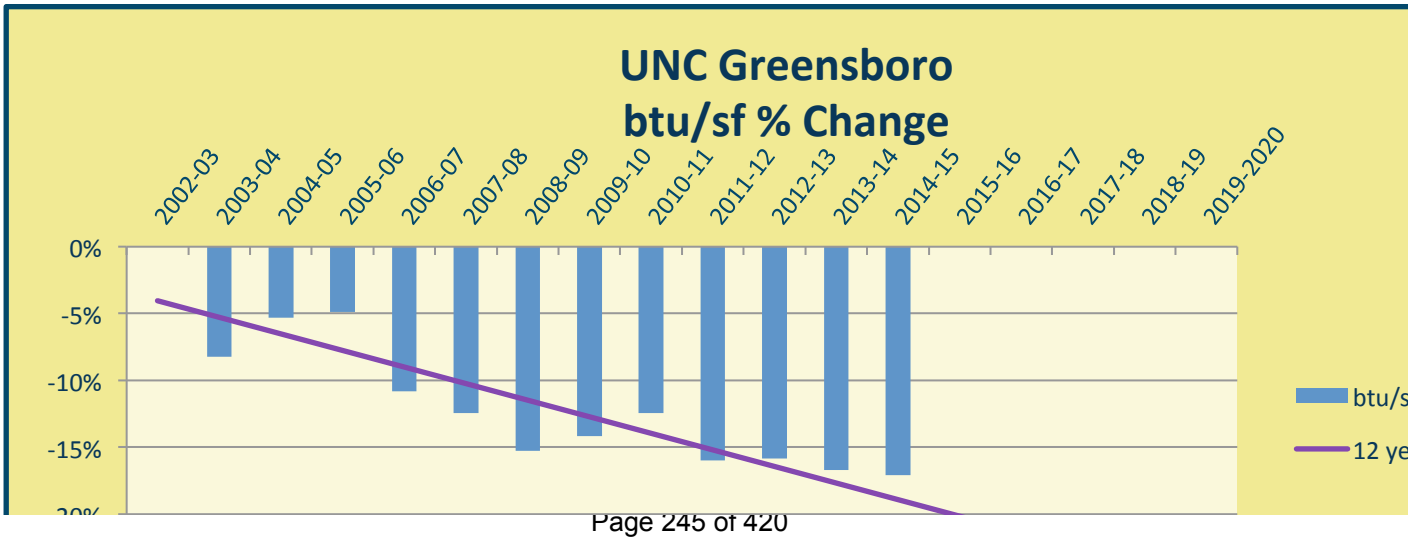
UNC G Energy btu/sf

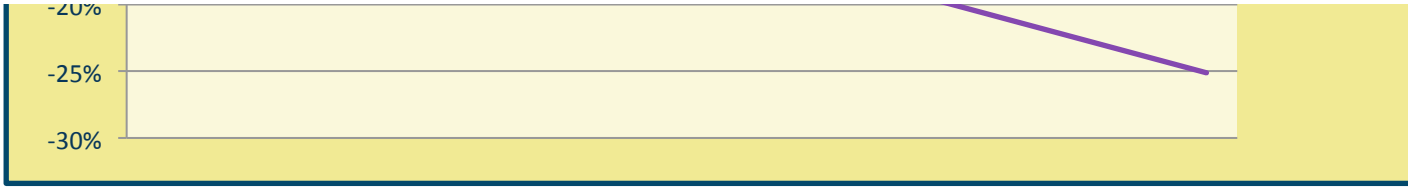
2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10
125,963	115,606	119,280	119,827	112,305	110,295	106,706	108,111
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**
105,794	105,987	104,892	104,425				



UNC G Energy btu/sf % Change

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10
0%	-8%	-5%	-5%	-11%	-12%	-15%	-14%
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**
-16%	-16%	-17%	-17%				



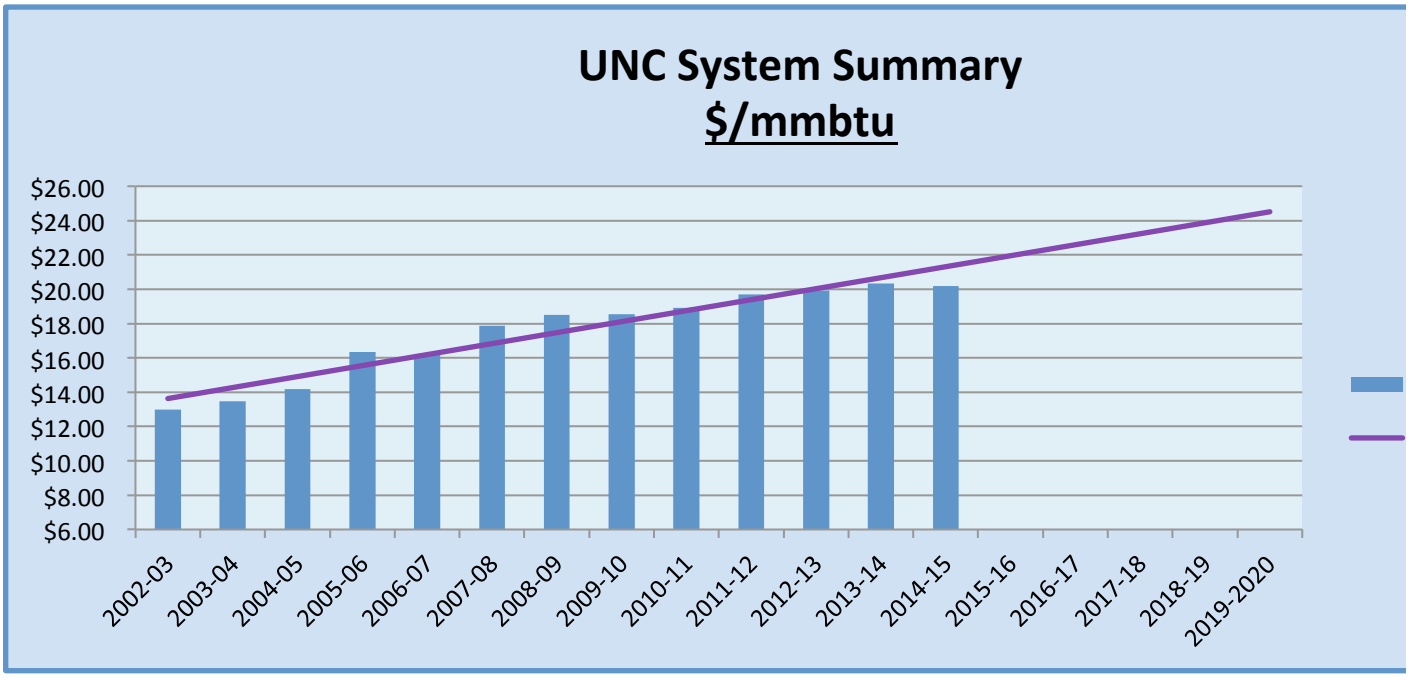


UNC System Summary

Energy $/mmbtu Evaluation 2003-2015 & Trend Through 2020

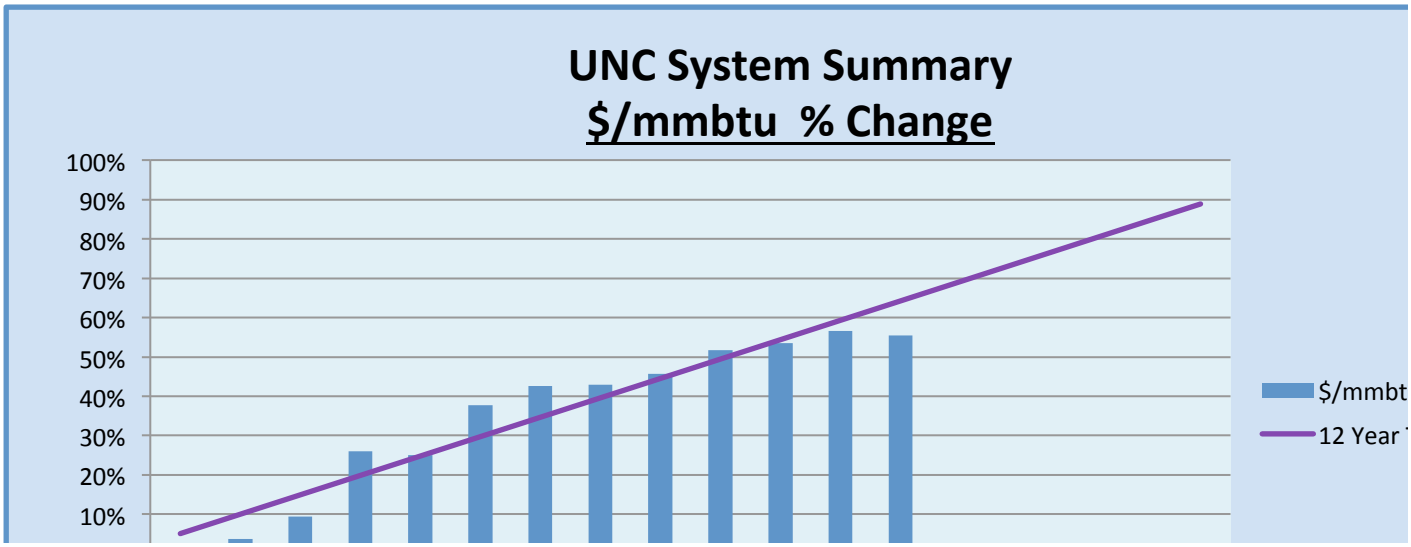
UNC System Energy $/mmbtu

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10
$ 12.98	$ 13.45	$ 14.19	$ 16.34	$ 16.23	$ 17.88	$ 18.51	$ 18.54
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**
$ 19.68	$ 19.93	$ 20.32	$ 20.17				



UNC System Energy $/mmbtu % Change

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10
0%	4%	9%	26%	25%	38%	43%	43%
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**
52%	54%	57%	55%				

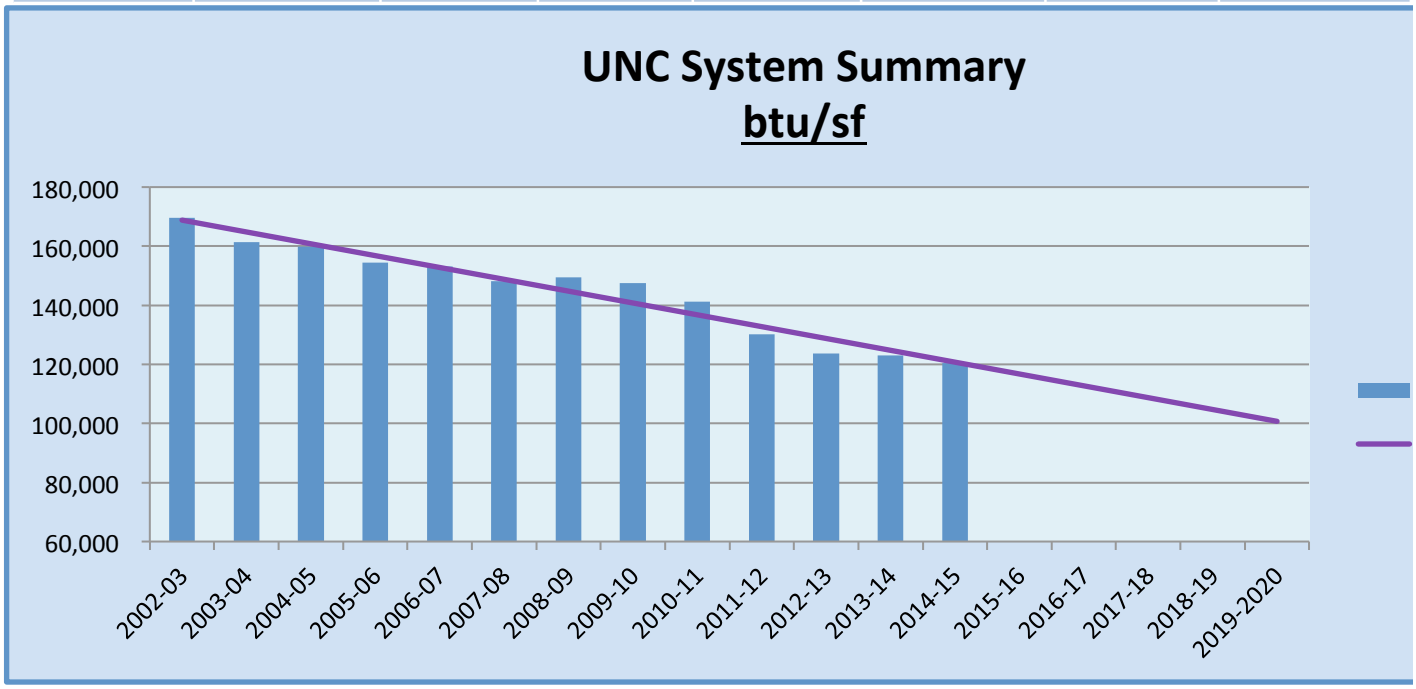


UNC System Summary

Energy Btu/sf Evaluation 2003-2015 & Trend Through 2020

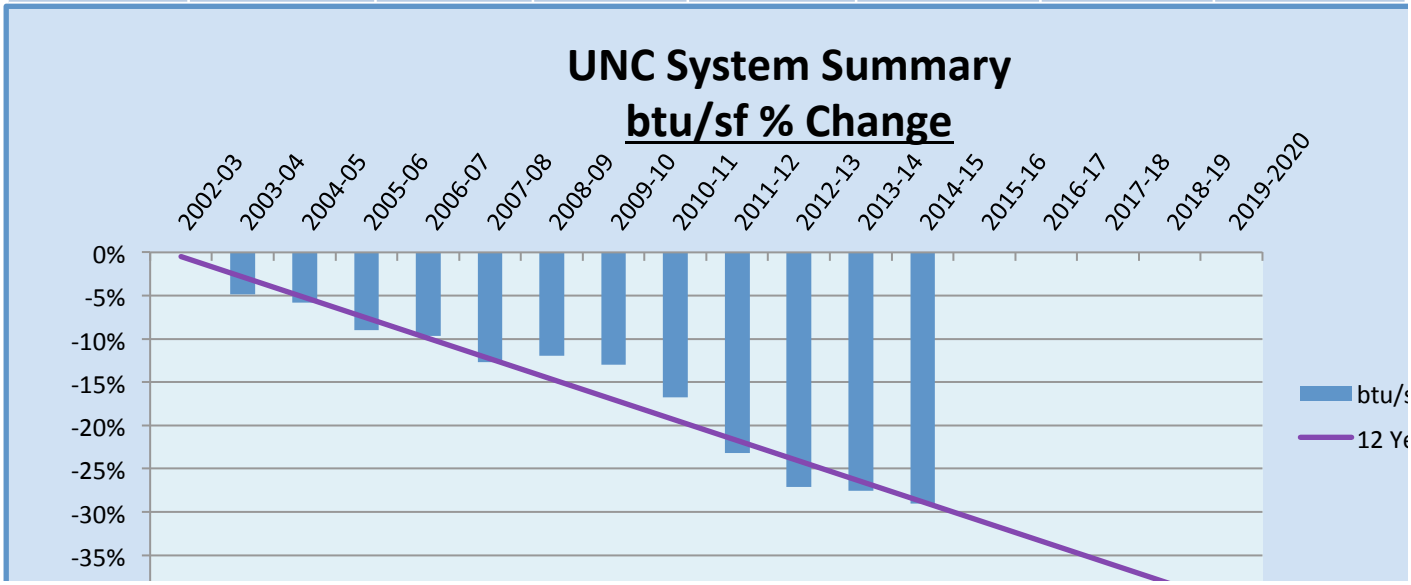
UNC System Energy Btu/sf

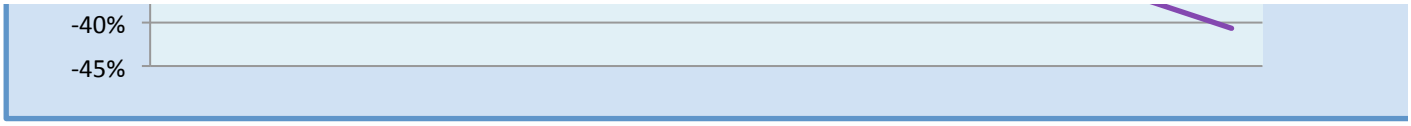
2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10
169,641	161,422	159,774	154,418	153,235	148,154	149,352	147,583
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**
130,266	123,665	122,926	120,407				



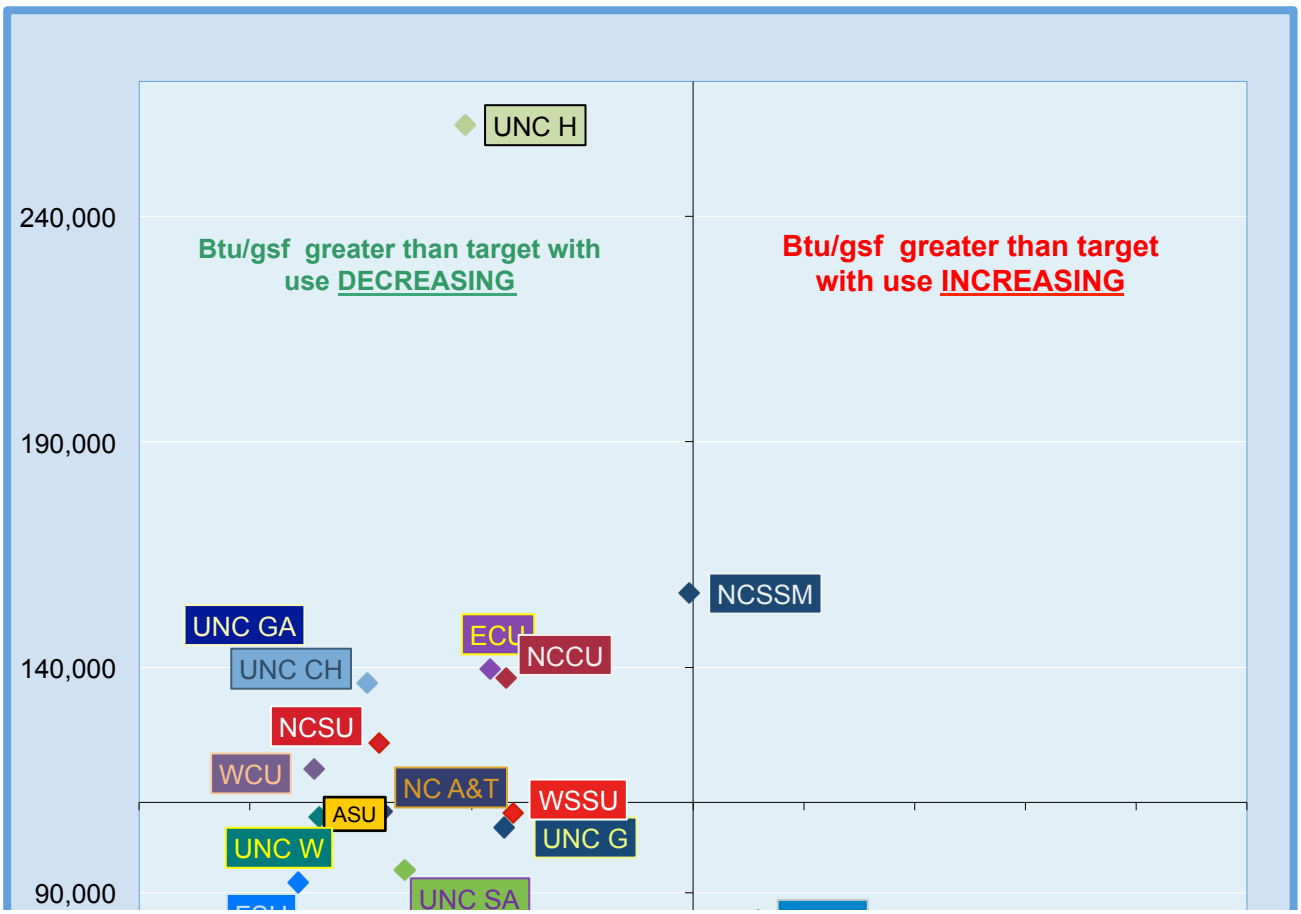
UNC System Energy Btu/sf % Change

2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10
0%	-5%	-6%	-9%	-10%	-13%	-12%	-13%
2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**
-23%	-27%	-28%	-29%				





Btu/gsf and % Reduction



Total Utility $
$ 7,859,390

Total Utility $
$ 231,264,670

BORO
ANS

2010-11
$ 10.97
2019-2020

$/mmbtu

12 Year Trend

2010-11
18%
2019-2020

u % Change

Trend

2010-11
110,289
2019-2020

btu/sf

12 Year Trend

2010-11
-12%
2019-2020

f % Change

ar Trend

2010-11
$ 18.90
2019-2020

$/mmbtu

12 Year Trend

2010-11
46%
2019-2020

u % Change

Trend

2010-11
141,239
2019-2020

btu/sf

12 Year Trend

2010-11
-17%
2019-2020

sf % Change

ear Trend