

Appalachian Energy Summit II

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Keepers of the Data

- Appalachian Energy Summit Link:

<http://sustain.appstate.edu/appalachian-energy-summit-0>

- Must move to at least monthly collection and analysis of data
- Portfolio Manager

To Reach \$1 Billion in Avoided Costs

energy evaluation									
year	name	energy \$ with reductions	energy \$ no reductions	\$/mmbtu	\$/mmbtu %change	btu/sf	btu/sf %change	total gsf	gsf %change
2002-03	UNC System	\$122,893,354	\$122,893,354	\$12.98		169,641		55,832,219	
2003-04	UNC System	\$125,936,418	\$132,348,907	\$13.45	4%	161,422	-5%	57,990,917	4%
2004-05	UNC System	\$138,633,844	\$147,195,654	\$14.19	9%	159,774	-6%	61,153,466	10%
2005-06	UNC System	\$168,150,342	\$184,741,058	\$16.34	26%	154,406	-9%	66,643,160	19%
2006-07	UNC System	\$172,304,575	\$191,458,920	\$16.23	25%	152,669	-10%	69,546,307	25%
2007-08	UNC System	\$192,688,012	\$220,647,588	\$17.88	38%	148,145	-13%	72,755,499	30%
2008-09	UNC System	\$203,755,597	\$230,980,174	\$18.49	42%	149,646	-12%	73,641,421	32%
2009-10	UNC System	\$206,755,919	\$237,663,984	\$18.54	43%	147,579	-13%	75,578,684	35%
2010-11	UNC System	\$206,864,387	\$248,342,238	\$18.95	46%	141,308	-17%	77,250,703	38%
20011-12	UNC System	\$205,077,228	\$267,824,226	\$19.75	52%	129,897	-23%	79,937,869	43%
20012-13	UNC System	\$207,966,048	\$279,996,837	\$20.34	57%	126,000	-26%	81,136,937	45%
20013-14	UNC System	\$210,895,562	\$292,722,693	\$20.95	61%	122,220	-28%	82,353,991	48%
20014-15	UNC System	\$213,866,342	\$306,026,940	\$21.58	66%	118,553	-30%	83,589,301	50%
2015-16	UNC System	\$216,878,970	\$319,935,864	\$22.23	71%	114,997	-32%	84,843,140	52%
2016-14	UNC System	\$219,934,036	\$334,476,949	\$22.90	76%	111,547	-34%	86,115,787	54%
2017-18	UNC System	\$223,032,137	\$349,678,926	\$23.58	82%	108,200	-36%	87,407,524	57%
2018-19	UNC System	\$226,173,879	\$365,571,834	\$24.29	87%	104,954	-38%	88,718,637	59%
2019-20	UNC System	\$229,359,877	\$382,187,073	\$25.02	93%	101,806	-40%	90,049,416	61%
	TOTAL ENERGY \$	\$3,491,166,525	\$4,491,799,865						

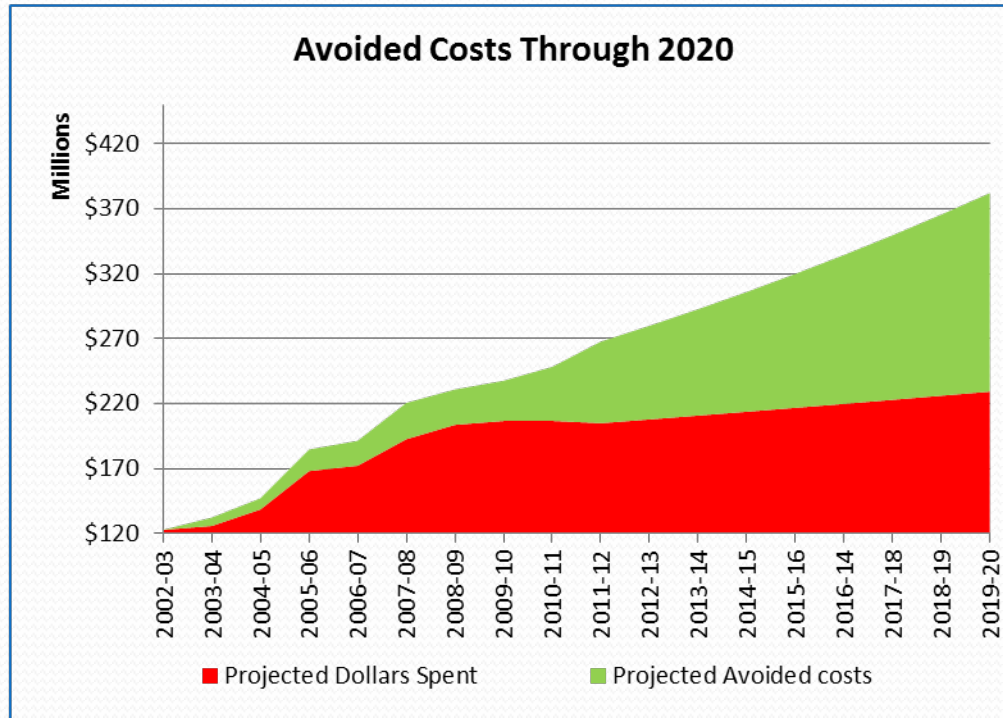
Energy costs and btu include all energy types

\$1,000,633,340

Assumptions:

- 3.0% increase in energy cost per year
- 2.5% decrease in energy intensity per year
- 1.5% increase in gsf per year

What Stretch Goal Looks like



Goal is NOT Unattainable But:

- Greater diversity in project financing options
- Must become a priority with Students, Faculty, Staff and Administration
- Energy a part of orientation
- Concerted effort to eliminate all waste and contraband plug load
- Comprehensive prioritized project list that will achieve goal

We Need Your Assistance

- Is it snake oil or a cure?
- High Performance Building Reporting
- Dedicated Energy Manager as primary USI contact
- Share expertise across campuses

Possibilities

“We are all faced with magnificent opportunities, brilliantly disguised as impossible situations.”

Charles Swindoll