

Completed Campus LCC w/ Normal Fuel escalation																	
Existing Design LCC							Alternate Design LCC w/ Scenario 1					Alternate Design LCC w/ Scenario 2					
Capital Cost		\$	759,814				\$	5,368,043				\$	5,368,043				
Ann. Elec. Cost		\$	13,234,990				\$	6,032,350				\$	4,716,019				
Ann. NG Cost		\$	8,091,039				\$	10,308,201				\$	10,792,638				
Real Discount rate			3%					3%					3%				
			O&M	Natural Gas		Electricity											
Date	Year		Boiler	UPV	Cost	UPV	Cost	UPV	Cost	UPV	Cost	UPV	Cost	UPV	Cost		
2008	1		\$17,795	0.96	\$7,767,398	0.97	\$12,837,941	\$410,173	0.96	\$9,895,873	0.97	\$5,851,380	\$431,517	0.96	\$10,360,932	0.97	\$4,574,538
2009	2		\$17,795	0.92	\$7,443,756	0.94	\$12,440,891	\$410,173	0.92	\$9,483,545	0.94	\$5,670,409	\$431,517	0.92	\$9,929,227	0.94	\$4,433,057
2010	3		\$17,795	0.89	\$7,201,025	0.90	\$11,911,491	\$410,173	0.89	\$9,174,299	0.90	\$5,429,115	\$431,517	0.89	\$9,605,448	0.90	\$4,244,417
2011	4		\$17,795	0.85	\$6,877,383	0.87	\$11,514,442	\$410,173	0.85	\$8,761,971	0.87	\$5,248,145	\$431,517	0.85	\$9,173,742	0.87	\$4,102,936
2012	5		\$17,795	0.83	\$6,715,563	0.86	\$11,382,092	\$410,173	0.83	\$8,555,807	0.86	\$5,187,821	\$431,517	0.83	\$8,957,890	0.86	\$4,055,776
2013	6		\$17,795	0.81	\$6,553,742	0.87	\$11,514,442	\$410,173	0.81	\$8,349,643	0.87	\$5,248,145	\$431,517	0.81	\$8,742,037	0.87	\$4,102,936
2014	7		\$17,795	0.80	\$6,472,831	0.86	\$11,382,092	\$410,173	0.80	\$8,246,561	0.86	\$5,187,821	\$431,517	0.80	\$8,634,110	0.86	\$4,055,776
2015	8		\$17,795	0.80	\$6,472,831	0.87	\$11,514,442	\$410,173	0.80	\$8,246,561	0.87	\$5,248,145	\$431,517	0.80	\$8,634,110	0.87	\$4,102,936
2016	9		\$17,795	0.80	\$6,472,831	0.87	\$11,514,442	\$410,173	0.80	\$8,246,561	0.87	\$5,248,145	\$431,517	0.80	\$8,634,110	0.87	\$4,102,936
2017	10		\$17,795	0.82	\$6,634,652	0.87	\$11,514,442	\$410,173	0.82	\$8,452,725	0.87	\$5,248,145	\$431,517	0.82	\$8,849,963	0.87	\$4,102,936
2018	11		\$17,795	0.82	\$6,634,652	0.89	\$11,779,141	\$410,173	0.82	\$8,452,725	0.89	\$5,368,792	\$431,517	0.82	\$8,849,963	0.89	\$4,197,256
2019	12		\$17,795	0.81	\$6,553,742	0.89	\$11,779,141	\$410,173	0.81	\$8,349,643	0.89	\$5,368,792	\$431,517	0.81	\$8,742,037	0.89	\$4,197,256
2020	13		\$17,795	0.82	\$6,634,652	0.89	\$11,779,141	\$410,173	0.82	\$8,452,725	0.89	\$5,368,792	\$431,517	0.82	\$8,849,963	0.89	\$4,197,256
2021	14		\$17,795	0.81	\$6,553,742	0.89	\$11,779,141	\$410,173	0.81	\$8,349,643	0.89	\$5,368,792	\$431,517	0.81	\$8,742,037	0.89	\$4,197,256
2022	15		\$17,795	0.82	\$6,634,652	0.89	\$11,779,141	\$410,173	0.82	\$8,452,725	0.89	\$5,368,792	\$431,517	0.82	\$8,849,963	0.89	\$4,197,256
2023	16		\$17,795	0.83	\$6,715,563	0.89	\$11,779,141	\$410,173	0.83	\$8,555,807	0.89	\$5,368,792	\$431,517	0.83	\$8,957,890	0.89	\$4,197,256
2024	17		\$17,795	0.84	\$6,796,473	0.89	\$11,779,141	\$410,173	0.84	\$8,658,889	0.89	\$5,368,792	\$431,517	0.84	\$9,065,816	0.89	\$4,197,256
2025	18		\$17,795	0.84	\$6,796,473	0.90	\$11,911,491	\$410,173	0.84	\$8,658,889	0.90	\$5,429,115	\$431,517	0.84	\$9,065,816	0.90	\$4,244,417
2026	19		\$17,795	0.84	\$6,796,473	0.89	\$11,779,141	\$410,173	0.84	\$8,658,889	0.89	\$5,368,792	\$431,517	0.84	\$9,065,816	0.89	\$4,197,256
2027	20		\$17,795	0.84	\$6,796,473	0.89	\$11,779,141	\$410,173	0.84	\$8,658,889	0.89	\$5,368,792	\$431,517	0.84	\$9,065,816	0.89	\$4,197,256
Column NPV			\$264,751		\$101,236,968		\$175,363,473	\$6,102,342		\$128,978,610		\$79,928,572	\$6,419,889		\$135,040,000		\$62,487,193
Total NPV							\$277,625,007					\$220,377,567					\$209,315,124
Total Saving (20 yr)								\$	57,247,440				\$	68,309,883			
Saving / yr								\$	2,862,372				\$	3,415,494			
								yr.	mo.				yr.	mo.			
Payback Period (yr)								1	7				1	4			

Completed Campus LCC w/ 75% increase in Electricity Cost by 2011																	
		Existing Design LCC					Alternate Design LCC w/ Scenario 1					Alternate Design LCC w/ Scenario 2					
Capital Cost		\$	759,814				\$	5,368,043				\$	5,368,043				
Ann. Elec. Cost		\$	13,234,990				\$	6,032,350				\$	4,716,019				
Ann. NG Cost		\$	8,091,039				\$	10,308,201				\$	10,792,638				
Real Discount rate			3%					3%					3%				
			O&M	Natural Gas		Electricity		O&M	Natural Gas		Electricity		O&M	Natural Gas		Electricity	
Date	Year		Boiler	Esc.	Cost	Esc.	Cost	Boiler & CHP	Esc.	Cost	Esc.	Cost	Boiler & CHP	Esc.	Cost	Esc.	Cost
2008	1		\$17,795	0.96	\$7,767,398	0.97	\$12,837,941	\$410,173	0.96	\$10,360,932	0.97	\$5,851,380	\$431,517	0.96	\$10,360,932	0.97	\$4,574,538
2009	2		\$17,795	0.92	\$7,443,756	0.94	\$12,440,891	\$410,173	0.92	\$9,929,227	0.94	\$5,670,409	\$431,517	0.92	\$9,929,227	0.94	\$4,433,057
2010	3		\$17,795	0.89	\$7,201,025	0.90	\$11,911,491	\$410,173	0.89	\$9,605,448	0.90	\$5,429,115	\$431,517	0.89	\$9,605,448	0.90	\$4,244,417
2011	4		\$17,795	0.85	\$6,877,383	1.52	\$20,150,273	\$410,173	0.85	\$9,173,742	1.52	\$9,184,253	\$431,517	0.85	\$9,173,742	1.52	\$7,180,138
2012	5		\$17,795	0.83	\$6,715,563	1.51	\$19,918,660	\$410,173	0.83	\$8,957,890	1.51	\$9,078,687	\$431,517	0.83	\$8,957,890	1.51	\$7,097,608
2013	6		\$17,795	0.81	\$6,553,742	1.52	\$20,150,273	\$410,173	0.81	\$8,742,037	1.52	\$9,184,253	\$431,517	0.81	\$8,742,037	1.52	\$7,180,138
2014	7		\$17,795	0.80	\$6,472,831	1.51	\$19,918,660	\$410,173	0.80	\$8,634,110	1.51	\$9,078,687	\$431,517	0.80	\$8,634,110	1.51	\$7,097,608
2015	8		\$17,795	0.80	\$6,472,831	1.52	\$20,150,273	\$410,173	0.80	\$8,634,110	1.52	\$9,184,253	\$431,517	0.80	\$8,634,110	1.52	\$7,180,138
2016	9		\$17,795	0.80	\$6,472,831	1.52	\$20,150,273	\$410,173	0.80	\$8,634,110	1.52	\$9,184,253	\$431,517	0.80	\$8,634,110	1.52	\$7,180,138
2017	10		\$17,795	0.82	\$6,634,652	1.52	\$20,150,273	\$410,173	0.82	\$8,849,963	1.52	\$9,184,253	\$431,517	0.82	\$8,849,963	1.52	\$7,180,138
2018	11		\$17,795	0.82	\$6,634,652	1.56	\$20,613,497	\$410,173	0.82	\$8,849,963	1.56	\$9,395,385	\$431,517	0.82	\$8,849,963	1.56	\$7,345,199
2019	12		\$17,795	0.81	\$6,553,742	1.56	\$20,613,497	\$410,173	0.81	\$8,742,037	1.56	\$9,395,385	\$431,517	0.81	\$8,742,037	1.56	\$7,345,199
2020	13		\$17,795	0.82	\$6,634,652	1.56	\$20,613,497	\$410,173	0.82	\$8,849,963	1.56	\$9,395,385	\$431,517	0.82	\$8,849,963	1.56	\$7,345,199
2021	14		\$17,795	0.81	\$6,553,742	1.56	\$20,613,497	\$410,173	0.81	\$8,742,037	1.56	\$9,395,385	\$431,517	0.81	\$8,742,037	1.56	\$7,345,199
2022	15		\$17,795	0.82	\$6,634,652	1.56	\$20,613,497	\$410,173	0.82	\$8,849,963	1.56	\$9,395,385	\$431,517	0.82	\$8,849,963	1.56	\$7,345,199
2023	16		\$17,795	0.83	\$6,715,563	1.56	\$20,613,497	\$410,173	0.83	\$8,957,890	1.56	\$9,395,385	\$431,517	0.83	\$8,957,890	1.56	\$7,345,199
2024	17		\$17,795	0.84	\$6,796,473	1.56	\$20,613,497	\$410,173	0.84	\$9,065,816	1.56	\$9,395,385	\$431,517	0.84	\$9,065,816	1.56	\$7,345,199
2025	18		\$17,795	0.84	\$6,796,473	1.58	\$20,845,110	\$410,173	0.84	\$9,065,816	1.58	\$9,500,952	\$431,517	0.84	\$9,065,816	1.58	\$7,427,729
2026	19		\$17,795	0.84	\$6,796,473	1.56	\$20,613,497	\$410,173	0.84	\$9,065,816	1.56	\$9,395,385	\$431,517	0.84	\$9,065,816	1.56	\$7,345,199
2027	20		\$17,795	0.84	\$6,796,473	1.56	\$20,613,497	\$410,173	0.84	\$9,065,816	1.56	\$9,395,385	\$431,517	0.84	\$9,065,816	1.56	\$7,345,199
Column NPV			\$264,751		\$101,236,968		\$280,567,487	\$6,102,342		\$135,040,000		\$127,879,303	\$6,419,889		\$135,040,000		\$99,974,495
Total NPV							\$382,829,021					\$274,389,688					\$246,802,427
Total Saving (30 yr)								\$ 108,439,334					\$ 136,026,594				
Saving / yr								\$ 5,421,967					\$ 6,801,330				
Payback Period (yr)								yr.	mo.				yr.	mo.			
								-	10				-	8			

Completed Campus w/ 15% increase in elec. cost by 2011																
Existing Design LCC							Alternate Design LCC w/ Scenario 1					Alternate Design LCC w/ Scenario 2				
Capital Cost		\$	759,814				\$	5,368,043				\$	5,368,043			
Ann. Elec. Cost		\$	13,234,990				\$	6,032,350				\$	4,716,019			
Ann. NG Cost		\$	8,091,039				\$	10,308,201				\$	10,792,638			
Real Discount rate			3%					3%					3%			
Date	Year	O&M	Natural Gas		Electricity		O&M	Natural Gas		Electricity		O&M	Natural Gas		Electricity	
		Boiler	Esc.	Cost	Esc.	Cost	Boiler & CHP	Esc.	Cost	Esc.	Cost	Boiler & CHP	Esc.	Cost	Esc.	Cost
2008	1	\$17,795	0.96	\$7,767,398	0.97	\$12,837,941	\$410,173	0.96	\$10,360,932	0.97	\$5,851,380	\$431,517	0.96	\$10,360,932	0.97	\$4,574,538
2009	2	\$17,795	0.92	\$7,443,756	1.08	\$14,307,024	\$410,173	0.92	\$9,929,227	1.08	\$5,098,016	\$431,517	0.92	\$9,929,227	1.08	\$5,098,016
2010	3	\$17,795	0.89	\$7,201,025	1.04	\$13,698,215	\$410,173	0.89	\$9,605,448	1.04	\$4,881,079	\$431,517	0.89	\$9,605,448	1.04	\$4,881,079
2011	4	\$17,795	0.85	\$6,877,383	1.00	\$13,241,608	\$410,173	0.85	\$9,173,742	1.00	\$4,718,377	\$431,517	0.85	\$9,173,742	1.00	\$4,718,377
2012	5	\$17,795	0.83	\$6,715,563	0.99	\$13,089,405	\$410,173	0.83	\$8,957,890	0.99	\$4,664,142	\$431,517	0.83	\$8,957,890	0.99	\$4,664,142
2013	6	\$17,795	0.81	\$6,553,742	1.00	\$13,241,608	\$410,173	0.81	\$8,742,037	1.00	\$4,718,377	\$431,517	0.81	\$8,742,037	1.00	\$4,718,377
2014	7	\$17,795	0.80	\$6,472,831	0.99	\$13,089,405	\$410,173	0.80	\$8,634,110	0.99	\$4,664,142	\$431,517	0.80	\$8,634,110	0.99	\$4,664,142
2015	8	\$17,795	0.80	\$6,472,831	1.00	\$13,241,608	\$410,173	0.80	\$8,634,110	1.00	\$4,718,377	\$431,517	0.80	\$8,634,110	1.00	\$4,718,377
2016	9	\$17,795	0.80	\$6,472,831	1.00	\$13,241,608	\$410,173	0.80	\$8,634,110	1.00	\$4,718,377	\$431,517	0.80	\$8,634,110	1.00	\$4,718,377
2017	10	\$17,795	0.82	\$6,634,652	1.00	\$13,241,608	\$410,173	0.82	\$8,849,963	1.00	\$4,718,377	\$431,517	0.82	\$8,849,963	1.00	\$4,718,377
2018	11	\$17,795	0.82	\$6,634,652	1.02	\$13,546,013	\$410,173	0.82	\$8,849,963	1.02	\$4,826,845	\$431,517	0.82	\$8,849,963	1.02	\$4,826,845
2019	12	\$17,795	0.81	\$6,553,742	1.02	\$13,546,013	\$410,173	0.81	\$8,742,037	1.02	\$4,826,845	\$431,517	0.81	\$8,742,037	1.02	\$4,826,845
2020	13	\$17,795	0.82	\$6,634,652	1.02	\$13,546,013	\$410,173	0.82	\$8,849,963	1.02	\$4,826,845	\$431,517	0.82	\$8,849,963	1.02	\$4,826,845
2021	14	\$17,795	0.81	\$6,553,742	1.02	\$13,546,013	\$410,173	0.81	\$8,742,037	1.02	\$4,826,845	\$431,517	0.81	\$8,742,037	1.02	\$4,826,845
2022	15	\$17,795	0.82	\$6,634,652	1.02	\$13,546,013	\$410,173	0.82	\$8,849,963	1.02	\$4,826,845	\$431,517	0.82	\$8,849,963	1.02	\$4,826,845
2023	16	\$17,795	0.83	\$6,715,563	1.02	\$13,546,013	\$410,173	0.83	\$8,957,890	1.02	\$4,826,845	\$431,517	0.83	\$8,957,890	1.02	\$4,826,845
2024	17	\$17,795	0.84	\$6,796,473	1.02	\$13,546,013	\$410,173	0.84	\$9,065,816	1.02	\$4,826,845	\$431,517	0.84	\$9,065,816	1.02	\$4,826,845
2025	18	\$17,795	0.84	\$6,796,473	1.04	\$13,698,215	\$410,173	0.84	\$9,065,816	1.04	\$4,881,079	\$431,517	0.84	\$9,065,816	1.04	\$4,881,079
2026	19	\$17,795	0.84	\$6,796,473	1.02	\$13,546,013	\$410,173	0.84	\$9,065,816	1.02	\$4,826,845	\$431,517	0.84	\$9,065,816	1.02	\$4,826,845
2027	20	\$17,795	0.84	\$6,796,473	1.02	\$13,546,013	\$410,173	0.84	\$9,065,816	1.02	\$4,826,845	\$431,517	0.84	\$9,065,816	1.02	\$4,826,845
Column NPV		\$264,751		\$101,236,968		\$199,798,391	\$6,102,342		\$135,040,000		\$72,433,729	\$6,419,889		\$135,040,000		\$71,194,077
Total NPV						\$302,059,925					\$218,944,114					\$218,022,009
Total Saving (30 yr)							\$	83,115,811				\$	84,037,917			
Saving / yr							\$	4,155,791				\$	4,201,896			
Payback Period (yr)							yr.	mo.				yr.	mo.			
							1	1				1	1			

Completed Campus LCC w/ 15% increase in Natural Gas Cost by 2009																
		Existing Design LCC					Alternate Design LCC w/ Scenario 1					Alternate Design LCC w/ Scenario 2				
Capital Cost		\$	759,814				\$	5,368,043				\$	5,368,043			
Ann. Elec. Cost		\$	13,234,990				\$	6,032,350				\$	4,716,019			
Ann. NG Cost		\$	8,091,039				\$	10,308,201				\$	10,792,638			
Real Discount rate			3%					3%					3%			
Date	Year	O&M	Natural Gas		Electricity		O&M	Natural Gas		Electricity		O&M	Natural Gas		Electricity	
		Boiler	Esc.	Cost	Esc.	Cost	Boiler & CHP	Esc.	Cost	Esc.	Cost	Boiler & CHP	Esc.	Cost	Esc.	Cost
2008	1	\$17,795	0.96	\$7,767,398	0.97	\$12,837,941	\$410,173	0.96	\$10,360,932	0.97	\$5,851,380	\$431,517	0.96	\$10,360,932	0.97	\$4,574,538
2009	2	\$17,795	1.06	\$8,560,320	0.94	\$12,440,891	\$410,173	1.06	\$11,418,611	0.94	\$5,670,409	\$431,517	1.06	\$11,418,611	0.94	\$4,433,057
2010	3	\$17,795	1.02	\$8,281,179	0.90	\$11,911,491	\$410,173	1.02	\$11,046,265	0.90	\$5,429,115	\$431,517	1.02	\$11,046,265	0.90	\$4,244,417
2011	4	\$17,795	0.98	\$7,908,991	0.87	\$11,514,442	\$410,173	0.98	\$10,549,804	0.87	\$5,248,145	\$431,517	0.98	\$10,549,804	0.87	\$4,102,936
2012	5	\$17,795	0.95	\$7,722,897	0.86	\$11,382,092	\$410,173	0.95	\$10,301,573	0.86	\$5,187,821	\$431,517	0.95	\$10,301,573	0.86	\$4,055,776
2013	6	\$17,795	0.93	\$7,536,803	0.87	\$11,514,442	\$410,173	0.93	\$10,053,342	0.87	\$5,248,145	\$431,517	0.93	\$10,053,342	0.87	\$4,102,936
2014	7	\$17,795	0.92	\$7,443,756	0.86	\$11,382,092	\$410,173	0.92	\$9,929,227	0.86	\$5,187,821	\$431,517	0.92	\$9,929,227	0.86	\$4,055,776
2015	8	\$17,795	0.92	\$7,443,756	0.87	\$11,514,442	\$410,173	0.92	\$9,929,227	0.87	\$5,248,145	\$431,517	0.92	\$9,929,227	0.87	\$4,102,936
2016	9	\$17,795	0.92	\$7,443,756	0.87	\$11,514,442	\$410,173	0.92	\$9,929,227	0.87	\$5,248,145	\$431,517	0.92	\$9,929,227	0.87	\$4,102,936
2017	10	\$17,795	0.94	\$7,629,850	0.87	\$11,514,442	\$410,173	0.94	\$10,177,458	0.87	\$5,248,145	\$431,517	0.94	\$10,177,458	0.87	\$4,102,936
2018	11	\$17,795	0.94	\$7,629,850	0.89	\$11,779,141	\$410,173	0.94	\$10,177,458	0.89	\$5,368,792	\$431,517	0.94	\$10,177,458	0.89	\$4,197,256
2019	12	\$17,795	0.93	\$7,536,803	0.89	\$11,779,141	\$410,173	0.93	\$10,053,342	0.89	\$5,368,792	\$431,517	0.93	\$10,053,342	0.89	\$4,197,256
2020	13	\$17,795	0.94	\$7,629,850	0.89	\$11,779,141	\$410,173	0.94	\$10,177,458	0.89	\$5,368,792	\$431,517	0.94	\$10,177,458	0.89	\$4,197,256
2021	14	\$17,795	0.93	\$7,536,803	0.89	\$11,779,141	\$410,173	0.93	\$10,053,342	0.89	\$5,368,792	\$431,517	0.93	\$10,053,342	0.89	\$4,197,256
2022	15	\$17,795	0.94	\$7,629,850	0.89	\$11,779,141	\$410,173	0.94	\$10,177,458	0.89	\$5,368,792	\$431,517	0.94	\$10,177,458	0.89	\$4,197,256
2023	16	\$17,795	0.95	\$7,722,897	0.89	\$11,779,141	\$410,173	0.95	\$10,301,573	0.89	\$5,368,792	\$431,517	0.95	\$10,301,573	0.89	\$4,197,256
2024	17	\$17,795	0.97	\$7,815,944	0.89	\$11,779,141	\$410,173	0.97	\$10,425,688	0.89	\$5,368,792	\$431,517	0.97	\$10,425,688	0.89	\$4,197,256
2025	18	\$17,795	0.97	\$7,815,944	0.90	\$11,911,491	\$410,173	0.97	\$10,425,688	0.90	\$5,429,115	\$431,517	0.97	\$10,425,688	0.90	\$4,244,417
2026	19	\$17,795	0.97	\$7,815,944	0.89	\$11,779,141	\$410,173	0.97	\$10,425,688	0.89	\$5,368,792	\$431,517	0.97	\$10,425,688	0.89	\$4,197,256
2027	20	\$17,795	0.97	\$7,815,944	0.89	\$11,779,141	\$410,173	0.97	\$10,425,688	0.89	\$5,368,792	\$431,517	0.97	\$10,425,688	0.89	\$4,197,256
Column NPV		\$264,751		\$115,291,339		\$175,363,473	\$6,102,342		\$153,787,126		\$79,928,572	\$6,419,889		\$153,787,126		\$62,487,193
Total NPV						\$291,679,378					\$245,186,083					\$228,062,251
Total Saving (30 yr)							\$	46,493,295				\$	63,617,127			
Saving / yr							\$	2,324,665				\$	3,180,856			
Payback Period (yr)							yr.	mo.				yr.	mo.			
							1	11				1	5			