

DOCKETED**15-BSTD-01**

TN # 76068

JUL 22 2015

Measures	Savings		Gas Mtherm
	TDV GBtu	Site GBtu	
Lighting	2,796	377.3	116.5
Cool Roof	164	16.0	6.0
Glazing	533	56.8	16.4
HVAC	1,285	250.1	36.5
Process	31	5.8	1.7
Process (not-simulated)	2,385	591.4	93.1
Other	40	6.0	2.0
New Constuction Total	7,235	1,303.3	272.3
Envelope Alterations	440	45.1	15.8
Lighting Alterations	3,959	541.8	167.6
HVAC Alterations	2,520	521.9	71.9
Alterations Total	6,919	1,108.8	255.4
TOTAL	14,154	2,412.2	527.7

Emission Factors	Units	NOx	SOx	CO
Power	tons/MWh	0.0000255	0.0000035	0.0000365
Natural Gas	tons/Mtherms	4.4751	0.02856	1.904

Measures	NOx	SOx	CO	PM2.5
Lighting	2.06	0.40	3.87	1.21
Cool Roof	-0.05	0.02	0.13	0.05
Glazing	0.46	0.06	0.61	0.18
HVAC	6.55	0.16	3.72	0.86
Process	0.04	0.01	0.06	0.02
Process (not-simulated)	14.62	0.40	8.61	2.01
Other	0.01	0.01	0.06	0.02
Envelope Alterations	0.01	0.05	0.41	0.14
Lighting Alterations	2.93	0.58	5.54	1.73
HVAC Alterations	14.21	0.33	7.89	1.79
TOTAL	40.83	2.02	30.91	8.02

	NOX (lb)	SOX (lb)	CO (lb)
Nonresidential Newly Constructed Buildings	47,373	2,120	34,127
Electricity	13,888	1,906	19,878
Gas	33,486	214	14,249
Nonresidential Alterations	34,285	1,923	27,689
Electricity	13,024	1,788	18,642
Gas	21,261	136	9,047

Demand MW	Electricity (GWh)		
	2008	2013	Savings
23.6	1,249	1,132	117
2.1		1,126	6
7.2		1,110	16
13.6		1,073	36
0.0		1,072	2
3.5		-	93
0.2		1,070	2
50.3			272
5.5	3,314	3,298	16
32.4	3,314	3,146	168
25.2	2,485	2,414	72
63.1			255
113.4			528

PM2.5	CO2e
0.000011	0.4815
0.3618	5712.92

CO2e
54,953
2,628
7,942
24,740
826
60,470
928
7,115
78,982
50,433
289,018

CO2 (tons)	PM10 (lb)
152,488	8,698
131,114	5,991
21,374	2,707
136,530	7,337
122,959	5,618
13,571	1,719

		Gas (Mtherm)			
% Savings	% of Total	2008	2013	Savings	% Savings
9.3%	22.1%	22.27	22.48	-0.20	-0.9%
0.5%	1.1%		22.52	-0.04	-0.2%
1.3%	3.1%		22.51	0.01	0.0%
2.9%	6.9%		21.26	1.26	5.6%
0.1%	0.3%		21.26	0.00	0.0%
7.5%	17.6%		-	2.74	12.3%
0.2%	0.4%		21.27	-0.01	0.0%
21.8%	51.6%			3.74	16.8%
0.5%	3.0%	57.27	57.36	-0.09	-0.2%
5.1%	31.8%	57.27	57.57	-0.30	-0.5%
2.9%	13.6%	42.95	40.19	2.77	6.4%
N/A	48.4%			2.38	N/A
N/A	100.0%			6.12	N/A

% of Total	Demand (MW)				% of Total
	2008	2013	Savings	% Savings	
-3.3%	273.0	249.4	23.6	8.6%	20.8%
-0.7%		247.3	2.1	0.8%	1.8%
0.1%		240.0	7.2	2.7%	6.4%
20.5%		226.4	13.6	5.0%	12.0%
0.0%		226.4	0.0	0.0%	0.0%
44.7%		-	3.5	1.3%	3.1%
-0.2%		226.2	0.2	0.1%	0.2%
61.2%			50.3	18.4%	44.3%
-1.5%	707.7	702.2	5.5	0.8%	4.9%
-4.9%	707.7	675.3	32.4	4.6%	28.6%
45.2%	530.8	505.5	25.2	4.8%	22.3%
38.8%			63.1	N/A	55.7%
100.0%			113.4	N/A	100.0%